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DAFTAR PUSTAKA

[Http://Www.Ncbi.Nlm.Nih.Gov:80/Books/Bv.Fcgi?Call=Bv.View..Showsection&Rid=Endocrin.Box.54] Of Which There Are Five Types. In The Gut, GLUT2 And GLUT5[http://www.ncbi.nlm.nih.gov:80/books/bv.fcgi?call=bv.View..ShowSection&rid=endocrin.box.53]

Amer MA, Ghattas MH, Abo-ElMatty DM, Abou-El-Ela SH: Influence of glutathione S-transferase polymorphisms on type-2 diabetes mellitus risk. Genet Mol Res 2011, 10(4):3722–3730.

A. Stoian, A. Bacarea, A. Mot¸aianu et al., "Vascular endothelial growth factor insertion/deletion gene polymorphism in patients with type 2 diabetes and diabetic peripheral polyneuropathy," Revista Romana de Medicina de Laborator, vol. 22, no. 2, pp. 165–172, 2014

Aouacheri, O., Saka, S., Krim, M., Messaadia, A. & Maidi, I., 2015, 'The Investigation of the Oxidative Stress-Related Parameters in Type 2 Diabetes Melitus', Canadian Journal of Diabetes, no. 39, p. 46.

Bailey, C.J. Metformin: Historical overview. Diabetologia 2017, 60, 1566–1576. [CrossRef] [PubMed]

Banerjee, M. & Vats, P., 2014, 'Reactive Metabolites and Antioxidant Gene Polymorphisms in Type 2 Diabetes Melitus', Redox Biology, no. 2, p. 173
BAZIAD Et Al. Polymorphism. Maj Obstet Ginekol Indones 2007; 31-2: 116-20

Darmo Handoyo Dan Ari Rudiretna. General Principles And Implementation Of Polymerase Chain Reaction. Unitas. 2001. Vol. 9, No. 1. 17-29

Ding EL, Song Y, Manson JE, Hunter DJ, Lee CC, Rifai N, Buring JE, Gaziano JM, Liu S: Sex hormone-binding globulin and risk of type 2 diabetes in women and men. N Engl J Med 2009, 361(12):1152–1163.

Ellegren, H. Microsatellites: Simple Sequences With Complex Evolution. Nat. Rev. Genet. 2004, 5, 435–445.

Fleming, N.T.; Robinson, M.; Thomson, B.; Graetz, N.; Margono, C.; Mullany, E.C.; Biryukov, S.; Abbafati, C.; Abera, S.F.; Abraham, J.P.; Et Al. Global, Regional, And National Prevalence Of Overweight And Obesity In Children And Adults During 1980–2013: A Systematic Analysis For The Global Burden Of Disease Study 2013. Lancet 2014, 384, 766–781

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Foretz, M.; Hémerek, S.; Leclerc, J.; Zarrinpashneh, E.; Soty, M.; Mithieux, G.; Sakamoto, K.; Andreelli, F.; Viollet, B. Metformin menghambat glukoneogenesis hati pada tikus secara independen dari jalur LKB1/AMPK melalui penurunan keadaan energi hati.J.klin. Selidiki.2010, 120, 2355–2369. [CrossRef]

Francis, J.; Raghunathan, S.; Khanna, P. The Role Of Genetics In Stroke. Postgrad. Med. J. 2007, 83, 590–595. [Crossref]

Foster GD, Wyatt HR, Hill JO, McGuckin BG, Brill C, Mohammed BS, Szapary PO, Rader DJ, Edman JS, Klein S. A randomized trial of a low-carbohydrate diet for obesity. N Engl J Med 348:2082–2090; 2003. (PubMed) [http://www.ncbi.nlm.nih.gov:80/books/bv.fcgi?tool=bookshelf&call=bv.View..ShowSection&rid=mcb.figgrp.5903].

Geisler SA, Olshan AF: GSTM1, GSTT1, and the risk of squamous cell carcinoma of the head and neck: a mini-HuGE review. Am J Epidemiol 2001, 154(2):95–105.

Grant SF, Thorleifsson G, Reynisdottir I, Benediktsson R, Manolescu A, Sainz J, et al: Variant of transcription factor 7-like 2 (TCF7L2) gene confers risk of type 2 diabetes. Nat Genet 2006, 38(3):320–323

Goh, J.E.; Sadler, L.; Rowan, J. Metformin for gestational diabetes in routine clinical practice. Diabet. Med. 2011, 28, 1082–1087. [CrossRef] [PubMed]

Halsall DJ, McFarlane I, Luan J, Cox TM, Wareham NJ: Typical type 2 diabetes mellitus and HFE gene mutations: a population-based case - control study. Hum Mol Genet 2003, 12(12):1361–1365

Hernandez, H.R.; Hernandez, L.E.S.; Ramírez, G.R.; Reyes, R.M.A. Obesity And Inflammation: Epidemiology, Risk Factors, And Markers Of Inflammation. Int. J. Endocrinol. 2013, 11

Hossain, P.; Kawar, B.; El Nahas, M. Obesity And Diabetes In The Developing World—A Growing Challenge. N. Engl. J. Med. 2007, 356, 213–215. [Crossref] [Pubmed]
Http://Www.Ncbi.Nlm.Nih.Gov:80/Books/Bv.Fcgi?Tool=Bookshelf&Call=Bv.View..Showsecti N&Rid=Mcb.Figgrp.5903
Http://Www.Ncbi.Nlm.Nih.Gov:80/Books/Bv.Fcgi?Tool=Bookshelf&Call=Bv.View..Showsection&Rid=Mcb.Figgrp.5903

International Diabetes Federation (IDF), Indonesia vs World Prevalence of Diabetes, 2015. 128

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Asosiasi Polimorfisme GSTM1 Null Genotype dengan Efektivitas Monoterapi Metformin pada Pasien Diabetes Mellitus Tipe 2
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Jie Liu. Xin Sun. Fu-Liang Zhang. Hang Jin. Xiu-Li Yan. Shuo Huang. Zhen-Ni Guo And Yi Yang. Clinical Potential Of Extracellular Vesicles In Type 2 Diabetes. 2021. Doi. 10.3389/Fendo. 2020.596811

Johnson, J.A.; Simpson, S.H.; Toth, E.L.; Majumdar, S.R. Reduced cardiovascular morbidity and mortality associated with metformin use in subjects with type 2 diabetes. Diabet. Med. 2005, 22, 497–502. [CrossRef] [PubMed]

Joseph Zhou. Scott Massey. Darren Story And Li Xin Li. Metformin: An Old Drug With New Applications. 2018, 19, 2863; Doi:10.3390/Ijms19102863
Julianto E, Silitonga HA, Siahaan JM. Does hba1c correlate with lipid profile in type 2 diabetes mellitus a new evidence from Medan, North Sumatera. Indones J Med. 2017;2(3):207-212. 17.

Kalkan, I. H. and Suher, M. (2013) 'The relationship between the level of glutathione, impairment of glucose metabolism and complications of diabetes mellitus', Pakistan Journal of Medical Sciences, 29(4), pp. 938–942

Kadowaki T, Yamauchi T, Kubota N, Hara K, Ueki K, Tobe K: Adiponectin and adiponectin receptors in insulin resistance, diabetes and the metabolic syndrome. J Clin Invest 2006, 116(7):1784–1792

Kirk B W, Feinsod M, Favis R, Kleiman R M & Barany F, Single Nucleotide Polymorphism Seeking Long-Term Association With Complex Disease, Nucleic Acids Res, 30 (2002) 3295-3311.

Lexis, C.P.; Wieringa, W.G.; Hiemstra, B.; Van Deursen, V.M.; Lipsic, E.; Van Der Harst, P.; Van Veldhuisen, D.J.; Van Der Horst, I.C. Chronic Metformin Treatment Is Associated With Reduced Myocardial Infarct Size In Diabetic Patients With ST-Segment Elevation Myocardial Infarction. Cardiovasc. Drugs Ther. 2014, 28, 163–171. [Crossref] [Pubmed]

Li, J.; Xu, J.P.; Zhao, X.Z.; Sun, X.J.; Xu, Z.W.; Song, S.J. Protective Effect Of Metformin On Myocardial Injury In Metabolic Syndrome Patients Following Percutaneous Coronary Intervention. Cardiology 2014, 127, 133–139. [Crossref] [Pubmed]

Ling Z, Wang Q, Stange G, Veld PI, Pipeleers D. 2006. Glibenclamide cell subpopulation into elevated and sustained basal insulin synthetic activity. Diabetes. 5:7885.

McCommis, KS; Finck, BN Transportasi piruvat mitokondria: Sebuah perspektif sejarah dan arah penelitian masa depan.Biokimia. J.2015, 466, 443–454. [CrossRef]

UNIVERSITAS
GADJAH MADA
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Murphy, S.L.; Xu, J.; Kochanek, K.D.; Curtin, S.C.; Arias, E. Deaths: Final Data For 2015. Natl. Vital Stat Rep. 2017, 66, 1–75. [Pubmed]

Nakashima, Y.; Chen, Y.X.; Kinukawa, N.; Sueishi, K. Distributions Of Diffuse Intimal Thickening In Human Arteries: Preferential Expression In Atherosclerosis-Prone Arteries From An Early Age. Virchows Arch. 2002, 441, 279–288. [Crossref]

Nicod J & Largiader C R, Snps By AFLP (SBA): A Rapid SNP Isolation Strategy For Non-Model Organisms, Nucleic Acids Res, 31 (2003) E19.

Nwankwo, T.; Yoon, S.S.; Burt, V.; Gu, Q. Hypertension Among Adults In The United States: National Health And Nutrition Examination Survey, 2011-2012. NCHS Data Brief. 2013, 1–8.

Olivier Humbert. Luther Davis And Nancy Maizels. Targeted Gene Therapies: Tools, Applications, Optimization. Crit Rev Biochem Mol Biol. 2012 May ; 47(3): 264–281. Doi:10.3109/10409238.2012.658112.

Paneni, F.; Lüscher, T.F. Cardiovascular Protection In The Treatment Of Type 2 Diabetes: A Review Of Clinical Trial Results Across Drug Classes. Am. J. Cardiol. 2017, 120, S17–S27. [Crossref] [Pubmed]

Petrie, J.R.; Chaturvedi, N.; Ford, I.; Brouwers, M.; Greenlaw, N.; Tillin, T.; Hramiak, I.; Hughes, A.D.; Jenkins, A.J.; Klein, B.E.K.; Et Al. Cardiovascular And Metabolic Effects Of Metformin In Patients With Type 1 Diabetes (REMOVAL): A Double-Blind, Randomised, Placebo-Controlled Trial. Lancet Diabetes Endocrinol. 2017, 5, 597–609. [Crossref]

Perkumpulan Endokrinologi Indonesia (Perkeni)., Konsensus Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia, 2015.

Pinheiro D. S., Rocha Filho C. R., Mundim C. A., de Marco Junior P., Ulhoa C. J., Reis A. A., Ghedini P. C. (2013). Evaluation of glutathione S-transferase GSTM1 and GSTT1 deletion polymorphisms on type-2 diabetes mellitus risk. PLoS One. 8(10). doi: 10.1371/journal.pone.0076262.

Rahimi-Madiseh, M., Malekpour-Tehrani, A., Bahmani, M., Rafieian-Kopaei, M., 2016, The Research and Develompment on the Antioxidants in Prevention of Diabetic Complication, Asian Pasific Journal of Tropical Medicine, vol. 9, no. 9, pp. 825-826

Rasheed M. N., Hasan O. M., Mahmood A. S. (2015). Association of Glutathione S-Transferase (GSTM1, T1) Gene Polymorphisms with Type 2

UNIVERSITAS
GADJAH MADA
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Diabetes Mellitus (T2DM) in the Iraqi Patients. Iraqi Journal of Biotechnology. 14(1):70–76, 2015.

Rosmee, Koley S. Association of hba1c with lipid profiles in patients with type 2 diabetes mellitus. Int J Biomed Res. 2016;7(3):1-5

Saltiel, A.R.; Olefsky, J.M. Inflammatory Mechanisms Linking Obesity And Metabolic Disease. J. Clin. Investig. 2017, 127, 1–4. [Crossref] [Pubmed]

Sanchez-Rangel, E.; Inzucchi, S.E. Metformin: Clinical Use In Type 2 Diabetes. Diabetologia 2017, 60, 1586–1593. [Crossref] [Pubmed]

Sastroasmoro S, Ismael S. 2010. Dasar-dasar Metodologi Penelitian Klinis. Jakarta:Sagung Seto.

Sheehan D, Meade G, Foley VM, Dowd CA (2001). Structure, function and evolution of glutathione transferases: Implications for classification of non-mammalian members of an ancient enzyme superfamily. Biochem J, 16, 1-16.

Shekhar, S.; Liu, R.; Travis, O.K.; Roman, R.J.; Fan, F. Cerebral Autoregulation In Hypertension And Ischemic Stroke: A Mini Review. J. Pharm. Sci. Exp. Pharmacol. 2017, 2017, 21–27. [Pubmed].

Shelina Kassam, Peter Meyer, Anthony Corfield4, Gregor Mikuz, Consolato Sergi. Single Nucleotide Polymorphisms (Snps): History, Biotechnological Outlook And Practical Applications. Current Pharmacogenomics, 2005, 3, 000-000.

Sheikhha MH, Kalantar Ml, Khalid Tobal KH, Liu Yin JA: Glutathione S-transferases null genotype in acute myeloid leukaemia. IJI 2005, 2(3):141–151.

Sugiyono. 2013. Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif, dan R&D. Bandung: Alfabeta.

Sumampouw HC, Halim S. Korelasi status glikemik dengan profil lipid pada penderita diabetes melitus tipe 2 di Rumah Sakit Sumber Waras dan Rumah Sakit Hermina Kemayoran Tahun 2015-2017. 2019;1(2):319- 28. 18.

Suresh Lal. DIABETES: CAUSES, SYMPTOMS AND TREATMENTS. 2016. Public Health Enviroment and Social Issue in India (pp.55-67).
Edition : 1. Chapter : 5. Publisher : Serials Publication
Https://www.Researchgate.Net/Publication/311562631

UNIVERSITAS
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Spencer-Jones NJ, Wang X, Snieder H, Spector TD, Carter ND, O'Dell SD: Protein tyrosine phosphatase-1B gene PTPN1: selection of tagging single nucleotide polymorphisms and association with body fat, insulin sensitivity, and the metabolic syndrome in a normal female population. Diabetes 2005, 54(11):3296–3304.

Spritzer PM, Marchesan LB, Santos BR, Cureau FV, Oppermann K, Reis RM, et al. Prevalence and characteristics of polycystic ovary syndrome in Brazilian women: protocol for a nation-wide case-control study. BMJ Open. 2019;9(10):e029191.

Sterne, J. 2007. Perjalanan Panjang Metformin, dalam Ethical Digest. Mei, No.37, hal 21.

Strange RC, Spiteri MA, Ramachandran S, Fryer AA: Glutathione-S-transferase family of enzymes. Mutat Res 2001, 482(1–2):21–26.

Tabassum Jehan And Suman Lakhanpaul. Single Nucleotide Polymorphism (SNP)–Methods And Applications In Plant Genetics: A Review. Indian Journal Of Biotechnology Vol 5 October 2006, Pp 435-459

Tilman Ziegler. Farah Abdel Rahman. Victoria Jurisch And Christian Kupatt. Atherosclerosis And The Capillary Network; Pathophysiology And Potential Therapeutic Strategies. 2019.:Doi:10.3390/Cells9010050.

Wang G., Zhang L., Li Q. (2006). Genetic polymorphisms of GSTT1, GSTM1, and NQO1 genes and diabetes mellitus risk in Chinese population. Biochemical and biophysical research com munications. 341(2): 310–313. doi: 10.1016/j.bbrc.2005.12.195.

World Health Organization. Cardiovascular Disease (Cvds); World Health Organization: Geneva, Switzerland, 2017.

Yalin, S., Hatungil, R., Tamer, L., et al., 2007. Glutathione S-transferase gene polymorphisms in Turkish patients with diabetes mellitus. Cell Biochem. Funct. 25, 509–513.

Yong-Jin Park, Ju Kyong Lee And Nam-Soo Kim. Simple Sequence Repeat Polymorphisms (Ssrps) For Evaluation Of Molecular Diversity And Germplasm Classification Of Minor Crops. Molecules 2009, 14, 4546-4569; Doi:10.3390/Molecules14114546