

DAFTAR PUSTAKA

- Abraham S, Bhalavi BS, & Trikha S. 2015. Study of Insulin Resistance in Chronic Kidney Disease. *International Journal of Applied Research*, 1(8): 518-520.
- Ahamed NAHS, Abdul-Aziz MY, El-Bauomy AAB, & Salem TSI. 2008. Parathyroid Hormone: Effects on Glucose Homeostasis and Insulin Sensitivity in Chronic Renal Failure Patients on Regular Hemodialysis. *Journal of Taibah University Medical Sciences*, 3(1): 44-54.
- Akalin N, Koroglu M, Harmankaya O, Akay H, & Kumbasar B. 2015. Comparison of insulin resistance in the various stages of chronic kidney disease and inflammation. *Renal Failure*, 37(2): 237–240.
- Alani H, Tamimi A, & Tamimi N. 2014. Cardiovascular co-morbidity in chronic kidney disease: Current knowledge and future research needs. *World Journal of Nephrology*, 3(4): 156-168.
- Aleksova A, Belfiore R, Carriere C, Kassem S, La Carrubba S, Barbati G, & Sinagra G. 2015. Vitamin D Deficiency in Patients with Acute Myocardial Infarction: An Italian Single-Center Study. *International Journal of Vitamin and Nutrition Research*, 85: 23-30.
- Alsahli M & Gerich JE. 2015. Hypoglycemia in Patients with Diabetes and Renal Disease. *Journal of Clinical Medicine*, 4: 948-964.
- American Diabetes Association (ADA). 2017. Classification and Diagnosis of Diabetes, in Standard of Medical Care in Diabetes. *Diabetes Care*, 40(1): S11-S24.
- Antunes LC, Elkfury JL, Jornada MN, Foletto KC, & Bertoluci MC. 2016. Validation of HOMA-IR in a model of insulin-resistance induced by a high fat diet in Wistar rats. *Archives of Endocrinology and Metabolism Journal*, 60(2): 138-142.
- Bentli R, Taskapan H, Toktas H, Ulutas O, Ozkahraman A, & Comert M. 2013. Significant Independent Predictors of Vitamin D Deficiency in Inpatients and Outpatients of a Nephrology Unit. *International Journal of Endocrinology*, 2013: 1-5.
- Bergman RN, Hope ID, Yang YJ, Watanabe RM, Meador MA, Youn JH, & Ader M. 1989. Assessment of insulin sensitivity in vivo: a critical review. *Diabetes Metabolism Reviews* 5: 411-429.
- Blaine J, Chonchol M, & Levi M. 2014. Renal Control of Calcium, Phosphate, and Magnesium Homeostasis. *Clinical Journal of the American Society of Nephrology*, 1-16.
- Bostom AG, Kronenberg F, & Ritz E. 2002. Predictive Performance of Renal Function Equations for Patients with Chronic Kidney Disease and Normal Serum Creatinine Levels. *Journal of the American Society of Nephrology*, 13: 2140-2144.

- Botev R, Mallie JP, Couchoud C, Shuck O, Fauvel JP, Wetzels JFM, Lee N, De Santo NG, & Cirillo M. 2009. Estimating Glomerular Filtration Rate: Cockcroft-Gault and Modification of Diet in Renal Disease Formulas Compared to Renal Insulin Clearance. *Clinical Journal of the American Society of Nephrology*, 4: 899-906.
- Brück K, Stel VS, Gambaro G, Hallan S, Völzke H, Ärnlöv J, Kastarinen M, Guessous I, Vinhas J, Stengel B, Brenner H, Chudek J, Romundstad S, Tomson C, Gonzalez AO, Bello AK, Ferrieres J, Palmieri L, Browne G, Capuano V, Biensen WV, Zoccali C, Nitsch D, Wanner C, & Jager KJ. 2016. CKD Prevalence Varies across the European General Population. *Journal of the American Society of Nephrology*, 27: 1-13.
- Castro AVB, Kolka CM, Kim SP, & Bergman RN. 2014. Obesity, insulin resistance and comorbidities – Mechanisms of association. *Arquivos Brasileiros de Endocrinologia & Metabologia*, 58 (6): 600-609.
- Chen J, Muntner P, Hamm LL, Fonseca V, Batuman V, Whelton PK, & He J. 2003. Insulin resistance and risk of chronic kidney disease in nondiabetic US adults. *Journal of the American Society of Nephrology* 14: 469–477.
- Chen S, Chen Y, Liu X, Li M, Wu B, Li Y, Liang Y, Shao X, Halthofer H, & Zou H. 2013. Association of Insulin Resistance with Chronic Kidney Disease in Non diabetic Subjects with Normal Weight. *Plos One*, 8(9): 1-9.
- Chiu YW, Kopple JD & Mehrotra R, 2009. Correction of metabolic acidosis to ameliorate wasting in chronic kidney disease: goals and strategies. *Seminars in Nephrology*, 29 (1): 67–74.
- Chonchol M & Scragg R. 2007. 25-Hydroxyvitamin D, insulin resistance, and kidney function in the Third National Health and Nutrition Examination Survey. *International Society of Nephrology*, 71: 134-139.
- Ciccarelli L. 2010. Angiotensin II receptor blockers and insulin resistance. *Hypertension Research*, 33: 779.
- Coresh J, Selvin E, Stevens LA, Manzi J, Kusek JW, Eggers P, Lente FV, & Levey AS. 2007. Prevalence of Chronic Kidney Disease in the United States. *Journal of the American Medical Association*, 298(17): 2038-2047.
- Cunningham J, Locatelli F, & Rodriguez M. 2011. Secondary Hyperparathyroidism: Pathogenesis, Disease Progression, and Therapeutic Options. *Clinical Journal of the American Society of Nephrology*, 6: 913-921.
- D'Apolito M, Du X, Zong H, Catucci A, Maiuri L, Trivisano T, Pettoello-Mantovani M, Comanuzzi A, Raia V, Pessin JE, Brownlee M, & Giardino I. 2010. Urea-induced ROS generation causes insulin resistance in mice with chronic renal failure. *The Journal of Clinical Investigation* 120: 203–213.
- Dahlan MS. 2016. Besar sampel dalam penelitian kedokteran dan kesehatan seri 2. Sagung seto. Jakarta, 69-103.

- De Boer IH. 2008. Vitamin D and glucose metabolism in chronic kidney disease. *Current Opinion in Nephrology and Hypertension* 17: 566–572.
- DeFronzo RA, Tobin JD, & Andres R. 1979. Glucose clamp technique: A method for quantifying insulin secretion and resistance. *American Journal of Physiology* 237: E214–E223.
- DeFronzo RA, Alvestrand A, Smith D, Hendler R, Hendler E, & Wahren J. 1981. Insulin Resistance in Uremia. *The Journal of Clinical Investigation* 67: 563–568.
- Diniz HF, Romao MF, Elias RM, & Junior JER. 2012. Vitamin D deficiency and insufficiency in patients with chronic kidney disease. *The Journal Brasileiro de Nefrologia*, 34(1): 58-63.
- Donnate-Correa J, Muros-de-Fuentes M, & Mora-Fernandez C. 2012. GFG23/Klotho axis: Phosphorus, mineral metabolism and beyond. *Cytokine & Growth Factor Reviews*, 23: 37-46.
- Duly EB, Grimason S, Grimason P, Barnes G, & Trinick TR. 2003. Measurement of serum albumin by capillary zone electrophoresis, bromocresol green, bromocresol purple, and immunoassay methods. *Journal of Clinical Pathology*, 56: 780-781.
- Duranton F, Rodriguez-Ortiz M, Duny Y, Rodriguez M, Daures JP, & Argiles A. 2013. Vitamin D Treatment and Mortality in Chronic Kidney Disease: A Systemic review and Meta-Analysis. *American Journal of Nephrology*, 37: 239-248.
- El-Fakhri N, McDevitt H, Shaikh MG, Halsey C, & Ahmed SF. 2014. Vitamin D and Its Effects on Glucose Homeostasis, Cardiovascular Function and Immune Function. *Hormone Research in Paediatrics*, 81: 363-378.
- Elliot SJ, Berho M, Korach K, Doublier S, Lupia E, Striker GE, & Karl M. 2007. Gender-specific effect of endogenous testosterone: Female α -estrogen receptor-deficient C57/BI/6J mice develop glomerulosclerosis. *International Society of Nephrology*, 72: 464-472.
- Emmet M, 2004. A Comparison of Clinically Useful Phosphorus Binders for Patients with Chronic Kidney Failure. *Kidney International*, 66:25-32.
- Evans JI & Goldfine ID. 2013. Aging and Insulin Resistance: Just Say iNOS. *Diabetes Journals*, 62: 346-348.
- Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults. 2001. Executive summary of the third report of the National Cholesterol Education Program (NCEP) Expert panel on detection, evaluation and treatment of high blood cholesterol in Adults (Adult Treatment Panel III). *The Journal of the American Medical Association*, 285(19): 2486-2497.

- Filho AJI & Melamed ML. 2013. Vitamin D and Kidney Disease. What we know and what we do not know. *Journal Brasileiro De Nefrologia*, 35(4): 323-331.
- Florkowski CM & Chew-Harris JSC. 2011. Methods of Estimating GFR- Different Equations Including CKD-EPI. *The Clinical Biochemist Reviews*, 32: 75-79.
- Frankel AH & Kazempour-Ardebili S. 2016. Effect of insulin resistance in Chronic Kidney Disease. *Endocrinology and Metabolism*, 5(5): 1-6.
- Friedman DJ, Bhatt N, Hayman NS, Nichols BJ, Herman M, Nikolaev N, & Danziger J. 2012. Impact of Activated Vitamin D on Insulin Resistance in Non-diabetic Chronic Kidney Disease Patients. *Clinical Endocrinology Oxf Journal*, 77(1): 56-61.
- Fukugawa M & Komaba H. 2017. Chronic Kidney Disease- Mineral and Bone Disorder in Asia. *Kidney Diseases (Karger)*, 3: 1-7.
- Gal-Moscovici A & Sprague SM. 2007. Role of Vitamin D Deficiency in Chronic Kidney Disease. *Journal of Bone and Mineral Research*, 22(2): V91-V94.
- Gansevoort RT, Correa-Rotter R, Hemmelgarn BR, Jafar TH, Heerspink HJL, Mann JF, Matsushita K, & Wen CP. 2013. Chronic kidney disease and cardiovascular risk: epidemiology, mechanisms, and prevention. *Lancet*, 382: 339-352.
- Ganta V, Yalamanchi RP, Mahanta KC, Sahu B, Raghvendar K, Anusha G, Bachu B, & Reddy CR. 2016. A study of lipid in non-diabetic chronic kidney disease. *International Journal of Advances in Medicine*, 3(4): 965-970.
- Garasto S, Fusco S, Corica F, Rosignuolo M, Marino A, Montesanto A, Rango FD, Maggio M, Mari V, Corsonello A, & Lattanzio F. 2014. Estimating Glomerular Filtration Rate in Older People. *BioMed Research International*, 1-12.
- Garcia-Canton C, Bosch E, Ramirez A, Gonzalez Y, Auyanet I, Guerra R, Perez MA, Fernandez E, Toledo A, Lago M, & Checa MD. 2010. Vascular calcification and 25-hydroxyvitamin D levels in non-dialysis patients with chronic kidney disease stages 4 and 5. *Nephrology Dialysis Transplantation*, 1-6.
- Gayoso-Diz P, Otero-Gonzalez A, Rodriguez-Alvarez MX, Gude F, Garcia F, Francisco AD, & Quintela AG. 2013. Insulin resistance (HOMA-IR) cut-off values and the metabolic syndrome in a general adult population: effect of gender and age: EPIRCE cross-sectional study. *BMC Endocrine Disorders*, 13(47): 1-10.
- Grandi NC, Breitling LP, & Brenner H. 2010. Vitamin D and cardiovascular disease: Systematic review and meta-analysis of prospective studies. *Preventive Medicine*, 51: 228-233.

- Greenfield MS, Doberne L, Kraemer F, Tobey T, & Reaven G. 1981. Assessment of insulin resistance with the insulin suppression test and the euglycemic clamp. *Diabetes* 30: 387-392.
- Grobe Y, Rodriguez G, & Sanchez N. 2010. Viral hepatitis infection and insulin resistance: a review of the pathophysiology mechanism. *Salud publica de mexico*, 53: 46-51.
- Gutch M, Kumar S, Razi SM, Gupta KK, & Gupta A. 2015. Assesment of insulin sensitivity/ resistance. *Indian Journal of Endocrinology and Metabolism*, 19(1): 160-164.
- Go AS, Chertow GM, Fan D, McCulloch CE, & Hsu C. 2004. Chronic Kidney Disease and the Risks of Death, Cardiovascular Events, and Hospitalization. *The New England Journal of Medicine*, 351: 1296-1305.
- Hayati F, Nasouti MA, Shayanpour S, Halili SA, Karimpourian H, & Mousavi ZB. 2016. Vitamin D and chronic kidney disease. *Journal of Parathyroid Disease*, 4 (1): 25-30.
- Hill NR, Fatoba ST, Oke JL, Hirst JA, O'Callaghan CA, Lasserson DS, & Hobbs FDR. 2016. Global prevalence of Chronic Kidney Disease – A Systemic Review and Meta-Analysis. *Public Library of Science (PLoS) One Journal*, 10: 1-18.
- Holick MF. 2007. Vitamin D Deficiency. *The New England Journal of Medicine*, 357: 266-281.
- Hu FB & Stampfer MJ. 2005. Insulin Resistance and Hypertension. *Circulation*, 112: 1678-1680.
- Inaguma D, Nagaya H, Hara K, Tatematsu M, Shinjo H, Suzuki S, Mishima T, & Kurata K. 2008. Relationship between serum 1,25-dihydroxyvitamin D and mortality in patients with pre-dialysis chronic kidney disease. *Clinical and Experimental Nephrology*, 12: 126-131.
- Infodatin. 2017. Situasi Penyakit Ginjal Kronis. Pusat Data Dan Informasi Kementrian Kesehatan RI. Available from: <http://www.depkes.go.id/download.php?file=download/pusdatin/infodatin/infodatin%20ginjal%202017.pdf> (Accessed on : 1 Februari 2018).
- Irawanto F. 2016. Asosiasi antara kadar kalsitriol dengan kadar hormon paratiroid intak pada pasien penyakit ginjal kronis non dialisis. Fakultas Kedokteran Universitas Airlangga Surabaya. 1-54.
- Ishimura E, Okuno S, Taniwaki H, Kizu A, Tsuchida T, Shioi A, Shoji T, Tabata, T, Inaba, M, & Nishizawa Y. 2008. Different Risk Factors for Vascular Calcification in End Stage Renal Disease. *Kidney Blood Pressure*, 31:10-15.
- Izumaru K, Ninomiya T, Nagata M, Usui T, Yoshida D, Yonemoto K, Fukuhara M, Tsuruya K, Kitazono T, & Kiyohara Y. 2014. Serum 1,25-dihydroxyvitamin D and the Development of Kidney Dysfunction in a Japanese Community. *Circulation Journal*, 78: 732-737.

- James P, Oparil S, Carter B, Cushman W, Himmelfarb C, Handler J, Lackland T. 2014. Evidence-based guideline for the management of high blood pressure in adults report from the panel members appointed to the eighth joint national committee (JNC 8). *Journal of the American Medical Association*, 311(5): 507-520.
- Judd SE & Tangpricha V. 2009. Vitamin D Deficiency and Risk for Cardiovascular Disease. *The American Journal of the Medical Sciences*, 338(1): 40-44.
- Kain V, Kapadia B, Misra P, & Saxena U. 2015. Simvastatin may induce insulin resistance through a novel fatty acid mediated cholesterol independent mechanism. *Scientific Reports*, 1-9.
- Katicic D, Josipovic J, & Pavlovic D. 2014. Vitamin D and Cardiovascular Diseases. *Journal of Cardiologia Croatica*, 9(5-6): 263-272.
- Kasper DL, Fauci AS, Hauser SL, Longo DL, Jameson JL, & Loscalzo J. 2016. Diabetes Mellitus, in Kasper DL, Fauci AS, Hauser SL, Longo DL, Jameson JL, & Loscalzo J (eds). *Harrison's Manual of Medicine*, 19th edition. McGraw-Hill Companies, New York, pp.904-911.
- Katz A, Nambi SS, Mather K, Baron AD, Follmann DA, Sullivan G, & Quon MJ. 2000. Quantitative insulin sensitivity check index: a simple, accurate method for assessing insulin sensitivity in humans. *Journal of Clinical Endocrinology and Metabolism* 85(7): 2402-2410.
- KDIGO. 2017. KDIGO 2017 Clinical Practice Guideline Update for the Diagnosis, Evaluation, Prevention, and Treatment of Chronic Kidney Disease- Mineral and Bone Disorder (CKD-MBD). Chapter 3.2: Diagnosis of CKD-MBD: bone. *Kidney International Supplements*, 7(1): 22-24.
- KDIGO. 2013. KDIGO 2012 Clinical Practice Guideline for the Evaluation and management of Chronic Kidney Disease. Chapter 1: Definition and classification of CKD. *Kidney International Supplements*, 3(1): 19-62.
- Kendrick J, Targher G, Smits G, & Chonchol M. 2009. 25-Hydroxyvitamin D deficiency is independently associated with cardiovascular disease in the Third National Health and Nutrition Examination Survey. *Atherosclerosis*, 205: 255-260.
- Khan M & Sharma S. 2018. Physiology, Parathyroid Hormone (PTH). In: StatPearls (Internet). Treasure Island (FL): StatPearls Publishing. 176: 1-10. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK499940/> (Accessed on : 20 January 2019).
- Kim CS & Kim SW. 2014. Vitamin D and chronic kidney disease. *The Korean Journal of Internal Medicine*, 29: 416-427.
- Kim J, Bachmann RA, & Chen J. 2009. Interleukin-6 and insulin resistance. *Vitamins and Hormones*, 80: 613-633.

- Kobayashi S, Maesato K, Moriya H, Ohtake T, & Ikeda T. 2005. Insulin Resistance in Patients with Chronic Kidney Disease. *American Journal of Kidney Disease* 45: 275–280.
- Koh KK, Quon MJ, Han SH, Lee Y, Kim SJK, & Shin EK. 2010. Atorvastatin Causes Insulin Resistance and Increase Ambient Glycemia in HYpercholesterolemic Patients. *Journal of the American College of Cardiology*, 55(12): 1209-1216.
- Koppe L, Pelletier CC, Alix PM, Kalbacher E, Fouquel D, Soulage CO, & Guebre-Egziabher F. 2014. Insulin resistance in chronic kidney disease: new lessons from experimental models. *Journal of Nephrology Dialysis Transplantation*, 29: 1666-1674.
- Kumar M, Choudhury A, Manglik N, Hissar S, Rastogi A, Sakhuja P, & Sarin SK. 2009. Insulin resistance in chronic hepatitis B virus infection. *The American Journal Gastroenterology* 104:76-82.
- Kumar R & Thompson JR. 2011. The Regulation of Parathyroid Hormone Secretion and Synthesis. *Journal of the American Society of Nephrology*, 22: 216-224.
- Kurniawati DN. 2017. Asosiasi laju filtrasi glomerulus dengan kadar 1,25 dihidroksikolekalsiferol (kalsitriol) pada pasien penyakit ginjal kronis non dialisis. Fakultas Kedokteran Universitas Airlangga Surabaya. 1-85.
- Lai S, Coppola B, Dimko M, Galani A, Innico G, Frassetto N, & Mariotti A. 2014. Vitamin D deficiency, insulin resistance, and ventricular hypertrophy in the early stages of chronic kidney disease. *Ren Fail*, 36(1): 58-64.
- Lakshmi D, Meera KS, & Mahesh E. 2015. Relevance of Insulin in Chronic Kidney Disease. *International Journal of Clinical Biochemistry and Research*, 2(4): 250-256.
- Lanske B & Razzaque MS. 2007. Vitamin D and aging: old concepts and new insights. *Journal of Nutritional Biochemistry*, 18 (12): 771-777.
- Larsen CM, Faulenbach M, Vaag A, Volund A, Eshes JA, Seifert B, Mandrup-Poulsen T, & Donath MY. 2007. Interleukin-1-receptor antagonist in type 2 diabetes mellitus. *New England Journal of Medicine* 356: 1517–1526.
- Levin A, Bakris G, Molitch M, Smulders M, Tian J, Williams L, & Andress D. 2007. prevalence of abnormal serum vitamin D, PTH, calcium, and phosphorus in patients with chronic kidney disease: result of the study to evaluate early kidney disease. *Kidney International*, 71:31-8.
- Li Y, Zhang L, Gu Y, Hao C, & Zhu T. 2013. Insulin Resistance as a Predictor of Cardiovascular Disease in Patients on Peritoneal Dialysis. *Peritoneal Dialysis International*, 33: 411-418.
- Li YC, Kong J, Wei M, Chen ZF, Liu SQ, & Cao LP. 2002. 1,25-Dihydroxyvitamin D₃ is a negative endocrine regulator of the renin-angiotensin system. *The Journal of Clinical Investigation* 110: 229-238.

- Liao MT, Sung CC, Hung KC, Wu CC, Lo L, & Lu KC. 2012. Insulin Resistance in Patients with Chronic Kidney Disease. *Journal of Biomedicine and Biotechnology*, 2012: 1-12.
- Lips P, Goldsmith D, & Jongh R. 2017. Vitamin D and osteoporosis in chronic kidney disease. *Journal of Nephrology*, 30: 671-675.
- London GM, Gu´erin AP, Verbeke FH, Pannier B, Boutouyrie P, Marchais SJ, Metivier F, 2007. Mineral metabolism and arterial function in end-stage renal disease: potential role of 25-hydroxyvitamin D deficiency. *Journal of the American Society of Nephrology*, 18(2): 613-620.
- Maeda SS, Kunii IS, Hayashi LF, & Lazaretti-Castro M. 2010. Increases in summer serum 25-hydroxyvitamin D (25 OHD) concentrations in elderly subjects in Sao Paulo, Brazil vary with age, gender, and ethnicity. *BioMed Central Endocrine Disorders*, 10 (12): 1-8.
- Mancuso P, Rahman A, Hershey SD, Dandu L, Nibbelink KA, & Simpson RU. 2008. 1,25-Dihydroxyvitamin-D3 treatment reduces cardiac hypertrophy and left ventricular diameter in spontaneously hypertensive heart failure-prone (cp/+) rats independent of change in serum leptin. *Journal of Cardiovascular Pharmacology*, 51: 559-564.
- Manjunath G, Tighiouart H, Coresh J, Macleod B, Salem DN, Griffith JL, Levey AS, & Sarnak MJ. 2003. Level of kidney function as a risk factor for cardiovascular outcomes in the elderly. *Kidney International*, 63(3): 1121-1129.
- Martinez KE, Tucker LA, Bailey BW, & LeCheminant JD. 2017. Expanded Normal Weight Obesity and Insulin Resistance in US Adults of the National Health and Nutrition Examination Survey. *Journal of Diabetes Research*, 2017: 1-8.
- Menon V, Rudym D, Chandra P, Miskulin D, Perrone R, & Sarnak M. 2011. Inflammation, oxidative stress, and insulin resistance in polycystic kidney disease. *Clinical Journal of the American Society of Nephrology*, 6: 7–13.
- Mheid IA, Patel RS, Tangpricha V, & Quyyumi AA. 2013. Vitamin D and cardiovascular disease: is the evidence solid?. *European Heart Journal*, 34: 3691-3698.
- Mikolasevic I, Zutelija M, Mavrinac V, & Orlic L. 2017. Dyslipidemia in patients with chronic kidney disease: etiology and management. *International Journal of Nephrology and Renovascular Disease*, 10: 35-45.
- Miller PD. 2014. Chronic kidney disease and osteoporosis: evaluation and management. *BoneKey Reports*, 542: 1-7.
- Miller PD. 2018. Osteoporosis in patients with chronic kidney disease: Diagnosis and evaluation. In: Uptodate. Available from: <https://www.uptodate.com/contents/osteoporosis-in-patients-with-chronic-kidney-disease-diagnosis-and-evaluation> (Accessed on: 26 January 2019).

- Miller WG & Jones GR. 2017. Estimated Glomerular Filtration Rate; Laboratory Implementation and Current Global Status. *Advances in Chronic Kidney Disease*, 25(1): 7-13.
- Moen FM, Zhan M, Hsu VD, Walker LD, Einhorn LM, Selinger SL, & Fink JC. 2009. Frequency of Hypoglycemia and Its Significance in Chronic Kidney Disease. *Clinical Journal of the American Society of Nephrology*, 4: 1121-1127.
- Murphy D, McCulloch CE, Lin Feng, Banerjee T, Bragg-Gresham JL, Eberhardt MS, Morgenstern H, Pavkov ME, Saran R, Powe NR, & Hsu CY. 2016. Trends in Prevalence of Chronic Kidney Disease in the United States. *Annals of Internal Medicine*, 165(7): 473-481.
- Nakashima A, Yokoyama K, Yokoo T, & Urashima M. 2016. Role of vitamin D in diabetes mellitus and chronic kidney disease. *World Journal of Diabetes*, 7(5): 89-100.
- Neugarten J, Acharya A, & Sibliger SR. Effect of Gender on the Progression of Nondiabetic Renal Disease: A Meta-Analysis. *Journal of the American Society of Nephrology*, 11: 319-329.
- Nibbelink KA, Tishkoff DX, Hershey SD, Rahman A, & Simpson RU. 2007. 1,25(OH)₂-vitamin D₃ actions on cell proliferation, size, gene expression, and receptor localization, in the HL-1 cardiac myocyte. *Journal Steroid Biochemical Molecular Biology*, 103(3-5): 533-537.
- Nigwekar SU, Tamez H, & Thadhani RI. 2014. Vitamin D and chronic kidney disease-mineral bone disease (CKD-MBD). *BoneKEY Reports*, 498: 1-6.
- NIH. 2016. Kidney Disease Statistic for the United States. National Institute of Diabetes and Digestive and Kidney Diseases.
- Nikodimopoulou M & Liakos S. 2011. Secondary hyperparathyroidism and target organs in chronic kidney disease. *Hipokroatia*, 15(1): 33-38.
- Nitta K, Yajima A, & Tsuchiya K. 2017. Management of Osteoporosis in Chronic Kidney Disease. *Internal Medicine*, 56: 3271-3276.
- Nsengiyumva V, Fernando M, Moxon J, Krishna S, Pinchbeck J, Omer S, Morris DR, Jones RE, Moran CS, Seto SW, & Golledge J. 2015. The association of circulating 25-hydroxyvitamin D concentration with peripheral arterial disease: A meta-analysis of observational studies. *Atherosclerosis*; 243: 645-651.
- Obi Y, Hamano T, & Isaka Y. 2015. Prevalence and Prognostic Implication of Vitamin D Deficiency in Chronic Kidney Disease. *Journal of Disease Markers*, 2015: 1-9.
- Oimatsu H, Saitoh S, Ura N, & Shimamoto K. 2000. A practical index for evaluation of insulin resistance (in Japanese). *Journal of the Japan Diabetes Society* 43: 205 –213.
- Owei I, Umekwe N, Provo C, Wan J, & Dagogo-Jack S. 2017. Insulin-sensitive and insulin-resistant obese and non-obese phenotypes: role in prediction of

- incident pre-diabetes in a longitudinal biracial cohort. *BMJ Open Diabetes Research & Care*, 5: 1-9.
- Pablo RF, Minerva RG, Ivan CR, Susana LO, & Bernardino DL. 2011. Vascular Calcification in Patient with Chronic Kidney Disease: Types, Clinical Impact and Pathogenesis. *Kidney Blood Pressure*, 20:203-212.
- Pálsson R & Patel UD. 2014. Cardiovascular Complications of Diabetic Kidney Disease. *Advances in Chronic Kidney Disease*, 21(3): 273-280.
- Parikh SJ, Edelman M, Uwaifo GI, Freedman RJ, Senega-Janneh M, Reynolds J, & Yanovski JA. 2004. The Relationship between Obesity and Serum 1,25-dihydroxy Vitamin D Concentrations in Healthy Adults. *The Journal of Clinical Endocrinology & Metabolism*, 89 (3): 1196-1199.
- Partridge NC, Li X, & Qin L. 2006. Understanding Parathyroid Hormone Action. *Annals New York Academy Of Sciences*, 1068: 187-193.
- Pavlovic D, Katicic D, Gulin T, & Josipovic J. 2015. Vitamin D in the Patients with Chronic Kidney Disease: When, to Whom and in Which Form. *Journal of Materia Socio-Medica*, 27(2): 122-124.
- Pham Hien, Utzschneider KM, & de Boer IH. 2011. Measurement of insulin resistance in chronic kidney disease. *Current Opinion in Nephrology and Hypertension*, 20: 640–646.
- Pilz S, Tomaschitz A, Marz W, Drechsler C, Ritz E, Zittermann A, Cavalier E, Pieber TR, Lappe JM, Grant WB, Holick MF, & Dekker JM. 2011. Vitamin D, cardiovascular disease, and mortality. *Clinical Endocrinology*, 75: 575-584.
- Pittas AG & Dawson-Hughes B. 2010. Vitamin D and diabetes. *The Journal of Steroid Biochemistry and Molecular Biology*, 121: 425–429.
- Ploomgaard P, Bouzakri K, Krogh-Madsen R, Mittendorfer B, Zierath JR, & Pedersen BK. 2005. Tumor necrosis factor- α induces skeletal muscle insulin resistance in healthy human subjects via inhibition of Akt substrate 160 phosphorylation. *Diabetes*, 54: 2939–2945.
- Prospero JD, Baptista PPR, Amary MFC, & Santos PPC. 2009. Parathyroid Glands: Structure, Functions, and Pathology. *Acta Ortopedica Brasileira*, 17(2): 53-7.
- Refaie MR, Sayed-Ahmed NA, Bakr AM, Aziz MYA, Abdel-Gawad SS, & Kannishi MHE. 2006. Aging is an Inevitable Risk Factor for Insulin Resistance. *Journal of Nutritional Biochemistry*, 1 (1): 30-41.
- Raggi P & Kleerekoper M. 2008. Contribution of bone and mineral abnormalities to cardiovascular disease in patients with chronic kidney disease. *Clinical Journal of the American Society of Nephrology*, 3: 836-843.
- Ramos G, Tseke P, & Ziakka S. 2008. Vitamin D, the renin-angiotensin system, and insulin resistance. *International Urology and Nephrology* 40:419-426.

- Rehman A, Setter SM, & Vue MH. 2011. Drug-Induced Glucose Alterations Part 2: Drug-Induced Hyperglycemia. *Diabetes Spectrum*, 24: 234-238.
- Rozita M, Afidza MN, Ruslinda M, Cader R, Halim AG, Kong CTN, Azmi KN, & Shah SA. 2013. Serum vitamin D levels in patients with chronic kidney disease. *Experimental and Clinical Sciences Journal*, 12: 511-520.
- RSDS. 2013. Data Penderita Penyakit Ginjal Kronis dan Kunjungan Hemodialisis di RSUD Dr. Soetomo Surabaya tahun 2008- 2012. Sistim Informasi Manajemen RSUD Dr. Soetomo Surabaya. Surabaya.
- Saliba W & El-Haddad B. 2009. Secondary Hyperparathyroidism: Pathophysiology and Treatment. *The Journal of the American Board of Family Medicine*, 22(5): 574-581.
- Satirapoj B, Supasyndh O, Boonyavarakul A, Luesutthiviboon L, & Choovichian P. 2005. The Correlation of Insulin Resistance and Renal Function in Non Diabetic Chronic Kidney Disease Patients. *Journal of The Medical Association of Thailand*, 88 (3): S97-S104.
- Satirapoj B, Supasyndh O, Phantana-Angkul P, Ruangkanhasetr P, Nata N, Chaiprasert A, Kanjanakul I, & Choovichian P. 2011. Insulin Resistance in Dialysis versus Non Dualysis End Stage Renal Disease Patients without Diabetes. *Journal of The Medical Association of Thailand*, 94 (4): S87-S93.
- Scheen AJ. 2005. Diabetes mellitus in the elderly: insulin resistance and/or impaired insulin secretion?. *Diabetes & Metabolism*, 31 (2): 5S27-5S34.
- Senn JJ, Klover PJ, Nowak IA, & Mooney RA. 2002. Interleukin-6 induces cellular insulin resistance in hepatocytes. *Diabetes* 51(12): 3391–3399.
- Shanahan CM, Cruthamel MH, Kapustin A, & Giachelli CM. 2011. Arterial calcification in Chronic Kidney Disease: Key roles for Calcium and Phosphate. *Circulation Research*, 109: 697-711.
- Shinohara K, Shoji T, Emoto M, Tahara H, Koyama H, Ishimura E, Miki T, Tabata T, & Nishizawa Y. 2002. Insulin Resistance as an Independent Predictor of Cardiovascular Mortality in Patients with End-Stage Renal Disease. *Journal of the American Society of Nephrology*, 13(7):1894-1900.
- Shoji T, Emoto M, & Nishizawa Y. 2001. HOMA index to assess insulin resistance in renal failure patients. *Nephron* 89:348-349.
- Singh R, Nistala R, McFarlane SI, & Whaley-Connell A. 2009. Glycemic control and cardiovascular disease in a high-risk chronic kidney disease population. *Therapy*, 6(4): 507-513.
- Soleimani M. 2015. Insulin resistance and hypertension: new insights. *Kidney International*, 87: 497-499.

- Soskic S, Stokic E, & Isenovic ER. 2014. The relationship between vitamin D and obesity. *Journal of Current Medical Research and Opinion*, 30 (6): 1197-1199.
- Spencer K & Price CP. 1977. Influence of reagent quality and reaction conditions on the determination of serum albumin by the bromocresol green dye-binding method. *Annals Clinical Biochemistry*, 14: 105-115.
- Spoto B, Pisano A, & Xoccali C. 2016. Insulin Resistance in Chronic Kidney Disease: A Systemic Review. *American Journal of Physiology- Renal Physiology*, 0: 1-51.
- Srivastava N, Singh RG, Usha, Kumar A, & Singh S. 2017. Insulin Resistance in Predialytic, Nondiabetic, Chronic Kidney Disease Patients: A Hospital-based Study in Eastern Uttar Pradesh, India. *Saudi Journal of Kidney Diseases and Transplantation*, 28 (1): 36-43. L.
- Stefikova K, Spustova V, Krivosikova Z, Oksa A, Gazdikova K, Fedelesova V, & Dzurik R. 2011. Insulin Resistance and Vitamin D Deficiency in Patients With Chronic Kidney Disease Stage 2-3. *Journal of the Physiological Research*, 60: 149-155.
- Stringer KD, Komers R, Osman SA, Oyama TT, Lindsley JN, & Anderson S. 2005. Gender hormones and the progression of experimental polycystic kidney disease. *Kidney International*, 68: 1729-1739.
- Stumvoll M, Mitrakou A, Pimenta W, Jenssen T, Yki-Jarvinen H, Van Haeften T, Renn W, & Gerich J. 2000. Use of the oral glucose tolerance test to assess insulin release and insulin sensitivity. *Diabetes care* 23: 295-301.
- Subiah AK, Chhabra YK, & Mahajan S. 2016. Cardiovascular disease in patients with chronic kidney disease: a neglected subgroup. *Heart Asia*, 8: 56-61.
- Sugondo S. 2010. Obesitas. Dalam: Alwi I, Setiati S, Setiyohadi B, Simadibrata M, Sudoyo AW. *Buku Ajar Ilmu Penyakit Dalam Jilid III, edisi 6*. Interna Publishing, Jakarta. pp.1973-1983.
- Sung CC, Liao MT, Lu KC, & Wu CC. 2012. Role of Vitamin D in Insulin Resistance. *Journal of Biomedicine and Biotechnology*, 2012: 1-11.
- Sydow K, Mondon CE, Schrader J, Konishi H, & Cooke JP. 2008. Dimethylarginine dimethylaminohydrolase overexpression enhances insulin sensitivity. *Arteriosclerosis, Thrombosis and Vascular Biology* 28: 692-697.
- Takenaka T, Kanno Y, Ohno Y, & Suzuki H. 2007. Key role of insulin resistance in vascular injury among hemodialysis patients. *Metabolism Clinical and Experimental*, 56: 153-159.
- Tedla FM, Brar A, Browne R, & Brown C. 2011. Hypertension in Chronic Kidney Disease: Navigating the Evidence. *International Journal of Hypertension*, 2011: 1-9.

- Teegarden D & Donkin SS. 2009. Vitamin D: emerging new roles in insulin sensitivity. *Nutrition Research Reviews*, 22: 82-92.
- Temgoua MN, DANwang C, Agbor VN, & Noubiap JJ. 2017. Prevalence, incidence, and associated mortality of cardiovascular disease in patients with chronic kidney disease in low- and middle- income countries: a protocol for a systemic review and meta-analysis. *British Medical Journal Open*, 7: 1-5.
- Tent H, Waanders F, Krikken JA, Heerspink HJL, Stevens LA, Laverman GD, & Navis G. 2012. Performance of MDRD study and CKD-EPI equations for long-term follow-up of nondiabetic patients with chronic kidney disease. *Nephrology Dialysis Transplantation*, 27(3): iii89-iii95.
- Thomas SS, Zhang L, & Mitch WE. 2015. Molecular mechanism of insulin resistance in Chronic Kidney Disease. *Kidney International*, 88(6): 1233-1239
- Tjokroprawiro A & Murtiwi S. 2015. Diabetes Melitus, in Tjokroprawiro A, Setiawan PB, Effendi C, Santosos D, & Soegiarto G (eds). *Buku Ajar Ilmu Penyakit Dalam*, edisi 2. Airlangga University Press, Surabaya, pp.71-81.
- Tomasello S. 2008. Secondary Hyperparathyroidism and Chronic Kidney Disease. *Diabetes Spectrum*, 21 (1): 19-25.
- Trihono. 2013. Riset Kesehatan Dasar (RISKESDAS 2013). Badan Penelitian Dan Pengembangan Kesehatan Kementerian Kesehatan RI Tahun 2013. Jakarta. pp.94-96.
- Valencia CAR & Arango JVA. 2016. Vitamin D (25(OH)D) in patients with chronic kidney disease stages 2-5. *Colombia Medica*, 47 (3): 160-166.
- Vanholder R. 2017. Uremic Toxins. In: UpToDate. Available from: <https://www.uptodate.com/contents/uremic-toxins> (Accessed on: 1 Februari 2018).
- Van Raalte DH, Brands M, van der Zijl NJ, Muskiet MH, Pouwels PJ, Ackermans MT, Sauerwein HP, Serlie MJ, & Diamant M. 2011. Low-dose glucocorticoid treatment affects multiple aspects of intermediary metabolism in healthy humans: A randomized controlled trial. *Diabetologia*, 54: 2103–2112.
- Villarreal IR, Ortega O, Gallar P, Sanchez M, Callejas R, Gracia C, Calle CGL, Ortiz M, Herrero JC, Mon C, Oliet A, & Vigil A. 2011. Clinical and biochemical characteristics of predialysis patients in terms of 25 hydroxy vitamin D levels. *Nefrologia*, 31(2): 185-191.
- Wang CC, Hsu CS, Liu CJ, Kao JH, & Chen DS. 2008. Association of chronic hepatitis B virus infection with insulin resistance and hepatic steatosis. *Journal of Gastroenterology and Hepatology*, 23:779-782.
- Wesseling-Perry K & Juppner H. 2013. The osteocyte in CKD: New concepts regarding the role of FGF23 in mineral metabolism and systemic complications. *Bone*, 54: 222-229.

- West SL & Jamal SA. 2012. Treatment of osteoporosis in patients with chronic kidney disease. *International Journal of Clinical Rheumatology*, 7(4): 453-461.
- WHO. 2003. Obesity and Overweight. In: Global Strategy on Diet, Physical Activity, and Health. Available from: <https://www.who.int/dietphysicalactivity/media/en/gsf Obesity.pdf> (Accessed on: 10 Februari 2018).
- Wilcox G, 2005. Insulin and Insulin Resistance. *The Clinical Biochemist Reviews*, 26: 19-39.
- Williams ME & Garg R. 2014. Glycemic Management in ESRD and Earlier Stages of CKD. *American Journal of Kidney Diseases*, 63(2): 22-38.
- Wolf M, Shah A, Gutierrez O, Ankers E, Monroy M, Tamez H, Steele D, Chang Y, Camargo CA, Tonelli M, & Thadhani R. 2007. Vitamin D levels and early mortality among incident hemodialysis patients. *Kidney International*, 72(8): 1004-1013.
- Xu H & Carrero JJ. 2017. Insulin resistance in chronic kidney disease. *Nephrology*, 22: 31-34.
- Zehnder D, Bland R, Chana RS, Wheeler DC, Howie AJ, Williams MC, Stewart PM, & Hewison M. 2002. Synthesis of 1,25-dihydroxyvitamin D(3) by human endothelial cells is regulated by inflammatory cytokines: a novel autocrine determinant of vascular cell adhesion. *Journal American of Society Nephrology*, 13(3): 621-629.
- Zhang L, Du J, Hu Z, Han G, Delafontaine P, Garcia G, & Mitch WE. 2009. IL-6 and serum amyloid A synergy mediates angiotensin II-induced muscle wasting. *Journal of the American Society of Nephrology* 20: 604-612.

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