

## DAFTAR PUSTAKA

1. Matsushita K, van der Velde M, Astor BC, Woodward M, Levey AS, de Jong PE, et al. Association of estimated glomerular filtration rate and albuminuria with all-cause and cardiovascular mortality in general population cohorts: a collaborative meta-analysis. *Lancet*. 2010;
2. Prodjosudjadi W, Suhardjono A. End-stage renal disease in Indonesia: Treatment development. *Ethn Dis*. 2009;
3. Balitbang\_Kemenkes\_RI. Basic Health Research Report of Indonesia Year 2018 (Laporan Nasional Riskesdas 2018). Riskesdas 2018. 2018. p. 182–3.
4. Schiffrin EL, Lipman ML, Mann JFE. Chronic kidney disease: Effects on the cardiovascular system. *Circulation*. 2007.
5. Cachofeiro V, Goicochea M, De Vinuesa SG, Oubã P, Lahera V, Lũo J. Oxidative stress and inflammation, a link between chronic kidney disease and cardiovascular disease. In: *Kidney International*. 2008.
6. Thaha M, Kadariswantiningsih IN, Empitu MA. Association of high blood pressure with elevated oxidative stress, inflammatory marker and albuminuria in chronic kidney disease patients. *J Med*. 2019;20(1):12–8.
7. Daenen K, Andries A, Mekahli D, Van Schepdael A, Jouret F, Bammens B. Oxidative stress in chronic kidney disease. *Pediatric Nephrology*. 2019.
8. Fraga CG, Oteiza PI, Galleano M. In vitro measurements and interpretation of total antioxidant capacity. *Biochimica et Biophysica Acta - General Subjects*. 2014.
9. Sova H, Jukkola-Vuorinen A, Puistola U, Kauppila S, Karihtala P. 8-Hydroxydeoxyguanosine: A new potential independent prognostic factor in breast cancer. *Br J Cancer*. 2010;
10. Zanolli L, Rastelli S, Inserra G, Castellino P. Arterial structure and function in inflammatory bowel disease. *World J Gastroenterol*. 2015;
11. Ben-Shlomo Y, Spears M, Boustred C, May M, Anderson SG, Benjamin EJ, et al. Aortic pulse wave velocity improves cardiovascular event prediction: An individual participant meta-analysis of prospective observational data from 17,635 subjects. *J Am Coll Cardiol*. 2014;
12. Levin A, Stevens PE, Bilous RW, Coresh J, De Francisco ALM, De Jong PE, et al. Kidney disease: Improving global outcomes (KDIGO) CKD work group. KDIGO 2012 clinical practice guideline for the evaluation and management of chronic kidney disease. *Kidney International Supplements*. 2013.
13. Zoccali C, Vanholder R, Massy ZA, Ortiz A, Sarafidis P, Dekker FW, et al. The systemic nature of CKD. *Nature Reviews Nephrology*. 2017.
14. Bertram JF, Douglas-Denton RN, Diouf B, Hughson MD, Hoy WE. Human nephron number: Implications for health and disease. In: *Pediatric Nephrology*. 2011.
15. Webster AC, Nagler E V., Morton RL, Masson P. Chronic Kidney Disease. *Lancet*. 2017;389(10075):1238–52.
16. Helal I, Fick-Brosnahan GM, Reed-Gitomer B, Schrier RW. Glomerular hyperfiltration: Definitions, mechanisms and clinical implications. *Nature*

- Reviews Nephrology. 2012.
17. P. R, P. C, G. R. Mechanisms and treatment of CKD. *J Am Soc Nephrol*. 2012;
  18. Liu M, Li XC, Lu L, Cao Y, Sun RR, Chen S, et al. Cardiovascular disease and its relationship with chronic kidney disease. *European review for medical and pharmacological sciences*. 2014.
  19. Subbiah AK, Chhabra YK, Mahajan S. Cardiovascular disease in patients with chronic kidney disease: A neglected subgroup. *Heart Asia*. 2016;
  20. Pizzino G, Irrera N, Cucinotta M, Pallio G, Mannino F, Arcoraci V, et al. Oxidative Stress: Harms and Benefits for Human Health. *Oxidative Medicine and Cellular Longevity*. 2017.
  21. Cadenas E, Davies KJA. Mitochondrial free radical generation, oxidative stress, and aging. *Free Radic Biol Med*. 2000;
  22. Dröge W. Free radicals in the physiological control of cell function. *Physiological Reviews*. 2002.
  23. Kadariswantiningsih IN, Thaha M, Nugroho CW, Hamidah B, Rasyid H, El Hakim Z, et al. Could complete blood count parameters and non-fasting cholesterol profile describe inflammation and oxidative stress in chronic kidney disease? *Indones Biomed J*. 2018;10(3):270–7.
  24. Willcox JK, Ash SL, Catignani GL. Antioxidants and prevention of chronic disease. *Crit Rev Food Sci Nutr*. 2004;
  25. Nicol CJ, Zielenski J, Tsui LC, Wells PG. An embryoprotective role for glucose-6-phosphate dehydrogenase in developmental oxidative stress and chemical teratogenesis. *FASEB J*. 2000;
  26. Burton GJ, Jauniaux E, Medicine F. Oxidative stress. *Best Pract Res Clin Obstet Gynaecol* [Internet]. 2011;25(3):287–99. Available from: <http://dx.doi.org/10.1016/j.bpobgyn.2010.10.016>
  27. Rubio CP, Hernández-Ruiz J, Martínez-Subiela S, Tvarijonaviciute A, Ceron JJ. Spectrophotometric assays for total antioxidant capacity (TAC) in dog serum: An update. *BMC Vet Res*. 2016;
  28. Valavanidis A, Vlachogianni T, Fiotakis C. 8-Hydroxy-2'-deoxyguanosine (8-OHdG): A critical biomarker of oxidative stress and carcinogenesis. *J Environ Sci Heal - Part C Environ Carcinog Ecotoxicol Rev*. 2009;
  29. Kadariswantiningsih IN, Thaha M. Thiol-producing microbiota of the intestine modulate oxidative stress and inflammation in Chronic Kidney Disease. 2019;8(1):307–11.
  30. O'Rourke MF, Staessen JA, Vlachopoulos C, Duprez D, Plante GE. Clinical applications of arterial stiffness; definitions and reference values. *American Journal of Hypertension*. 2002.
  31. Lioufas N, Hawley CM, Cameron JD, Toussaint ND. Chronic kidney disease and pulse wave velocity: A narrative review. *International Journal of Hypertension*. 2019.
  32. Ziemann SJ, Melenovsky V, Kass DA. Mechanisms, pathophysiology, and therapy of arterial stiffness. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 2005.
  33. Shirwany NA, Zou MH. Arterial stiffness: A brief review. *Acta Pharmacologica Sinica*. 2010.
  34. Jesmin S, Sakuma I, Hattori Y, Kitabatake A. Role of Angiotensin II in

- Altered Expression of Molecules Responsible for Coronary Matrix Remodeling in Insulin-Resistant Diabetic Rats. *Arterioscler Thromb Vasc Biol.* 2003;
35. Van Bortel LM, De Backer T, Segers P. Standardization of Arterial Stiffness Measurements Make Them Ready for Use in Clinical Practice. *American Journal of Hypertension.* 2016.
  36. Pereira T, Correia C, Cardoso J. Novel methods for pulse wave velocity measurement. *Journal of Medical and Biological Engineering.* 2015.
  37. Calabia J, Torguet P, Garcia M, Garcia I, Martin N, Guasch B, et al. Doppler ultrasound in the measurement of pulse wave velocity: Agreement with the Complior method. *Cardiovasc Ultrasound.* 2011;
  38. Weber T, Ammer M, Rammer M, Adji A, O'Rourke MF, Wassertheurer S, et al. Noninvasive determination of carotid-femoral pulse wave velocity depends critically on assessment of travel distance: A comparison with invasive measurement. *J Hypertens.* 2009;
  39. Kim H-L, Kim S-H. Pulse Wave Velocity in Atherosclerosis. *Front Cardiovasc Med.* 2019;
  40. Mills KT, Xu Y, Zhang W, Bundy JD, Chen CS, Kelly TN, et al. A systematic analysis of worldwide population-based data on the global burden of chronic kidney disease in 2010. *Kidney Int.* 2015;
  41. Duru OK, Li S, Jurkovitz C, Bakris G, Brown W, Chen SC, et al. Race and Sex Differences in Hypertension Control in CKD: Results From the Kidney Early Evaluation Program (KEEP). *Am J Kidney Dis.* 2008;
  42. Gómez-Marcos MÁ, Recio-Rodríguez JI, Gómez-Sánchez L, Agudo-Conde C, Rodríguez-Sanchez E, Maderuelo-Fernandez JA, et al. Gender differences in the progression of target organ damage in patients with increased insulin resistance: The LOD-DIABETES study. *Cardiovasc Diabetol.* 2015;
  43. Valdivielso JM, Jacobs-Cachá C, Soler MJ. Sex hormones and their influence on chronic kidney disease. *Current Opinion in Nephrology and Hypertension.* 2019.
  44. Coresh J, Selvin E, Stevens LA, Manzi J, Kusek JW, Eggers P, et al. Prevalence of chronic kidney disease in the United States. *J Am Med Assoc.* 2007;
  45. Prakash S, O'Hare AM. Interaction of Aging and Chronic Kidney Disease. *Semin Nephrol.* 2009;
  46. Muntner P, Anderson A, Charleston J, Chen Z, Ford V, Makos G, et al. Hypertension Awareness, Treatment, and Control in Adults With CKD: Results From the Chronic Renal Insufficiency Cohort (CRIC) Study. *Am J Kidney Dis.* 2010;
  47. Agarwal R, Andersen MJ. Prognostic importance of clinic and home blood pressure recordings in patients with chronic kidney disease. *Kidney Int.* 2006;
  48. Lea JP, Nicholas SB. Diabetes mellitus and hypertension: key risk factors for kidney disease. *J Natl Med Assoc.* 2002;
  49. Hager MR, Narla AD, Tannock LR. Dyslipidemia in patients with chronic kidney disease. *Reviews in Endocrine and Metabolic Disorders.* 2017.
  50. Foster MC, Hwang SJ, Larson MG, Lichtman JH, Parikh NI, Vasani RS, et al. Overweight, Obesity, and the Development of Stage 3 CKD: The

- Framingham Heart Study. *Am J Kidney Dis.* 2008;
51. De Jong PE, Verhave JC, Pinto-Sietsma SJ, Hillege HL. Obesity and target organ damage: The kidney. *Int J Obes.* 2002;
  52. Aneja A, El-Atat F, McFarlane SI, Sowers JR. Hypertension and obesity. *Recent Progress in Hormone Research.* 2004.
  53. Xia J, Wang L, Ma Z, Zhong L, Wang Y, Gao Y, et al. Cigarette smoking and chronic kidney disease in the general population: A systematic review and meta-analysis of prospective cohort studies. *Nephrol Dial Transplant.* 2017;
  54. Orth SR. Smoking and the kidney. *Journal of the American Society of Nephrology.* 2002.
  55. Woodford FP, Whitehead TP. Is measuring serum antioxidant capacity clinically useful? *Ann Clin Biochem.* 1998;
  56. Bergesio F, Monzani G, Ciuti R, Pinzani P, Fiaschi N, Priami F, et al. Total antioxidant capacity (TAC): is it an effective method to evaluate the oxidative stress in uraemia? *J Biolumin Chemilumin.* 1998;
  57. Fabbrini E, Serafini M, Colic Baric I, Hazen SL, Klein S. Effect of plasma uric acid on antioxidant capacity, oxidative stress, and insulin sensitivity in obese subjects. *Diabetes.* 2014;
  58. Muralidharan N, Bhat T, N SK. A Study on Effect of Ageing on the Levels of Total Antioxidant and Lipid Peroxidation. *Int J Contemp Med Res.* 2017;4(12):8–10.
  59. Ganjifrockwala FA, Joseph JT, George G. Decreased total antioxidant levels and increased oxidative stress in South African type 2 diabetes mellitus patients. *J Endocrinol Metab Diabetes South Africa.* 2017;
  60. Lucove J, Vupputuri S, Heiss G, North K, Russell M. Metabolic Syndrome and the Development of CKD in American Indians: The Strong Heart Study. *Am J Kidney Dis.* 2008;
  61. Quaschnig T, Krane V, Metzger T, Wanner C. Abnormalities in uremic lipoprotein metabolism and its impact on cardiovascular disease. In: *American Journal of Kidney Diseases.* 2001.
  62. Dong QY, Cui Y, Chen L, Song J, Sun L. Urinary 8-hydroxydeoxyguanosine levels in diabetic retinopathy patients. *Eur J Ophthalmol.* 2008;
  63. Syslová K, Böhmová A, Mikoška M, Kuzma M, Pelclová D, Kačer P. Multimarker screening of oxidative stress in aging. *Oxidative Medicine and Cellular Longevity.* 2014.
  64. Montesa MJP, Rico MAG, Salguero MAS, Maicas IT, Muñoz MCT, Tormo GS, et al. Study of oxidative stress in advanced kidney disease. *Nefrologia.* 2009;
  65. Williams B, Mancia G, Spiering W, Rosei EA, Azizi M, Burnier M, et al. 2018 ESC/ESH Guidelines for the management of arterial hypertension. *European Heart Journal.* 2018.
  66. Townsend RR. Arterial stiffness and chronic kidney disease: Lessons from the Chronic Renal Insufficiency Cohort study. *Current Opinion in Nephrology and Hypertension.* 2015.
  67. Temmar M, Liabeuf S, Renard C, Czernichow S, Esper N El, Shahapuni I, et al. Pulse wave velocity and vascular calcification at different stages of chronic kidney disease. *J Hypertens.* 2010;

68. Aycicek A, Erel O, Kocyigit A. Decreased total antioxidant capacity and increased oxidative stress in passive smoker infants and their mothers. *Pediatr Int.* 2005;
69. Cao J, Wang HY. Association between total antioxidant status and atherosclerosis in elderly patients with essential hypertension. *Chinese J Cardiol.* 2013;
70. Jürgenson J, Serg M, Kampus P, Kals J, Zagura M, Viru M, et al. Oxidative Stress Parameters and Its Associations With Arterial Stiffness in Competitive Powerlifting Athletes After 12-Week Supervised Strength Training. *J strength Cond Res.* 2019;
71. Napoli C, de Nigris F, Williams-Ignarro S, Pignalosa O, Sica V, Ignarro LJ. Nitric oxide and atherosclerosis: An update. *Nitric Oxide - Biology and Chemistry.* 2006.
72. Pilger A, Rüdiger HW. 8-Hydroxy-2'-deoxyguanosine as a marker of oxidative DNA damage related to occupational and environmental exposures. *International Archives of Occupational and Environmental Health.* 2006.
73. Alatorre-Moreno EV, Cerrillos-Gutiérrez JI, Andrade-Sierra J, Rojas-Campos E, Carrillo-Ibarra S, Sifuentes-Franco S, et al. Vascular Calcification and Oxidative DNA Damage as Nontraditional Cardiovascular Risk Factors in Chronic Renal Disease. In: *Free Radicals, Antioxidants and Diseases.* 2018.
74. Dalfino G, Simone S, Porreca S, Cosola C, Balestra C, Manno C, et al. Bone morphogenetic protein-2 may represent the molecular link between oxidative stress and vascular stiffness in chronic kidney disease. *Atherosclerosis.* 2010;
75. Modaresi A, Nafar M, Sahraei Z. Oxidative stress in chronic kidney disease. *Iran J Kidney Dis.* 2015;
76. Meenakshi Sundaram SP, Nagarajan S, Manjula Devi AJ. Chronic Kidney Disease—Effect of Oxidative Stress. *Chinese J Biol.* 2014;
77. Liakopoulos V, Roumeliotis S, Gorny X, Dounousi E, Mertens PR. Oxidative Stress in Hemodialysis Patients: A Review of the Literature. *Oxidative Medicine and Cellular Longevity.* 2017.