

DAFTAR PUSTAKA

1. Levey AS, Eckardt KU, Dorman NM, Christiansen SL, Hoorn EJ, Ingelfinger JR, et al. Nomenclature for kidney function and disease: report of a kidney disease: improving global outcomes (kdigo) consensus conference. *Kidney International*. 2020;97:1117-29
2. Gupta R, Woo K, Yi JA. Epidemiology of end-stage kidney disease. *Semin Vasc Surg*. 2021;34(1):71-8
3. United States Renal Data System. 2023 Usrds annual data report: epidemiology of kidney disease in the united states. National Institutes of Health, National Institutes of Diabetes and Digestive and Kidney Disease, Bethesda. 2023
4. Liyanage T, Toyama T, Hockham C, Ninomiya T, Perkovic V, Woodward M. Prevalence of chronic kidney disease in asia: a systematic review and analysis. *BMJ Global Health*. 2022;7:1-9
5. Kementerian Kesehatan RI. Laporan Nasional Risesdas 2018. Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan:Jakarta. 2019
6. Thurlow JS, Joshi M, Yan G, Norris KC, Agodoa LY, Yuan CM, et al. Global epidemiology of end-stage kidney disease and disparities in kidney replacement therapy. *Am J Nephrol*. 2021;52:98-107
7. GBD Chronic Kidney Disease Collaboration. Global, regional, and national burden of chronic kidney disease, 1990-2017: a systemic analysis for the global burden of disease study 2017. *Lancet*. 2020;395(10225):709-33
8. Foreman KJ, Marquez N, Dolgert A, Fukutaki K, Fullman N, Mcgaughey M, et al. Forecasting life expectancy, years of life lost, and all-cause and cause-specific mortality for 250 causes of death: reference and alternative scenarios for 2016-40 for 195 countries and territories. *Lancet*. 2018;392:2052-90
9. Kovesdy CP. Epidemiology of chronic kidney disease: an update 2022. *Kidney International Supplements*. 2022;12:7-11

10. Muhar a. Nasution HH, Nasution AT. Correlation between quality of life with interleukin-6 serum levels in chronic kidney disease patients undergoing regular hemodialysis. *International Journal of Research Science and Management*. 2020;7(1):68-71
11. Bello AK, Okpechi IG, Osman MA, Cho Y, Htay H, Jha V. Epidemiology of haemodialysis outcomes. *Nephrology*. 2022;18:378-95
12. Sharma S, Kalra D, Rashid I, Mehta S, Maity MK, Wazir K, et al. Assessment of health-related quality of life in chronic kidney disease patients: a hospital-based cross-sectional study. *Medicina*. 2023;59(1788):1-11
13. Zazzeroni L, Pasquinelli G, Nanni E, Cremonini V, Rubbi I. Comparison of quality of life in patients undergoing hemodialysis and peritoneal dialysis: a systemic review and meta-analysis. *Kidney Blood Press Res*. 2017;42:717-27
14. Zaripov S, Turaev I, Rakhimov S. Assessment of the quality of life in patients with chronic kidney disease in the practice of hemodialysis. *JMEA*. 2023;6:103-9
15. Bacci MR, Adami F, Figueiredo FWS, Alves BCA, Veiga GL, Fonseca FLA et al. Quality of life on hemodialysis and inflammation: a descriptive analysis. *Braz J Med Biol Res*. 2018;51(6):1-7
16. Rosner MH, Reis T, Syed FH, Vanholder R, Hutchison C, Stenvinkel P, et al. Classification of uremic toxins and their role in kidney failure. *CJASN*. 2021;16:1918-28
17. Lim YJ, Sidor NA, Tonial NC, Che A, Urquhart BL. Uremic toxins in the progression of chronic kidney disease and cardiovascular disease: mechanisms and therapeutic targets. *Toxins*. 2021;13(142):1-26
18. Barreto DV, Barreto FC, Liabeuf S, Temmar M, Lemke HD, Tribouilloy C, et al. Plasma interleukin-6 is independently associated with mortality in both hemodialysis and pre-dialysis patients with chronic kidney disease. *Kidney International*. 2010;77:550-6

19. Aizhar RP, Rudiansyah M, Pratiwi DIN, Zaitun N, Hendriyono FX. Korelasi kadar c-reactive protein dan kualitas hidup pasien hemodialisis rutin. *Homeostasis*. 2022;5(2):323-32
20. Su H, Lei C, Zhang C. Interleukin-6 signaling pathway and its role in kidney disease: an update. *Front. Immunol*. 2017;8(405):1-10
21. Matura LA, Ventetuolo CE, Palevsky HI, Lederer DJ, Horn EM, Mathai SC, et al. Interleukin-6 and tumor necrosis factor- α are associated with quality of life-related symptoms in pulmonary arterial hypertension. *Ann Am Thorac Soc*. 2015;12(3):370-5
22. Wardani NWS, Widiana IGR, Kandarini Y. Role of malnutrition inflammation score and interleukin-6 on quality of life of regular hemodialysis patients. *Bali Medical Journal*. 2022;11(1):545-50
23. Chen Z, Wang Y. Interleukin-6 levels can be used to estimate cardiovascular and all-cause mortality risk in dialysis patients: a meta-analysis and a systematic review. *Immun Inflamm Dis*. 2023;11:1-12
24. Jones SA, Fraser DJ, Fielding CA, Jones GW. Interleukin-6 in renal disease and therapy. *Nephrol Dial Transplant*. 2015;30:564-74
25. Suwitra K. Penyakit ginjal kronik. In: Buku Ajar Ilmu Penyakit Dalam Edisi IV. Jakarta: Interna Publishing. 2014:2159-65
26. Kidney Disease: Improving Global Outcomes (KDIGO) CKD Work Group. Kdigo 2024 clinical practice guideline for the evaluation and management of chronic kidney disease. *Kidney Int*. 2024;105(4S): S117-314
27. Indonesian Renal Registry. 13th Annual report of Indonesian renal registry 2020. Bandung: Indonesian Renal Registry. 2020
28. Lousa I, Reis F, Beirao I, Alves R, Belo L, Santos-Silva A. New potential biomarkers for chronic kidney disease management-a review of the literature. *Int J Mol Sci*. 2021;22(43):1-40
29. Stenvinkel P, Chertow GM, Devarajan P, Levin A, Andreoli PA, Bangalore S, et al. Chronic inflammation in chronic kidney disease progression: role of nrf2. *Kidney International Reports*: 2021;6:1775-87

30. Ortega LM, Fornoni A. Role of cytokines in the pathogenesis of acute and chronic kidney disease, glomerulonephritis, and end-stage kidney disease. *International Journal of Interferon, Cytokine and Mediator Research*. 2010;2:49-62
31. Zhang W, Wang W, Yu H, Zhang Y, Dai Y, Ning C. Interleukin 6 underlies angiotensin ii-induced hypertension and chronic kidney damage. *Hypertension*. 2012;59:136-44
32. Rysz J, Gluba-Brzozka A, Franczyk B, Jablonowski Z, Cialkowska-Rysz A. Novel biomarkers in the diagnosis of chronic kidney disease and the prediction of its outcome. *Int J Mol Sci*. 2017;17(1702):1-17
33. Murphy E, Burns A, Murtagh FEM, Rooshenas L, Caskey FJ. The prepare for kidney care study: prepare for renal dialysis versus responsive management in advanced chronic kidney disease. *Nephrol Dial Transplant*. 2021;36:975-82
34. Rokhman MR, Wardhani Y, Partiningrum DL, Purwanto BD, Hidayati IR, Idha A, et al. Psychometric properties of kidney disease quality of life-36 (kdqol-36) in dialysis patients in Indonesia. *Quality of Life Research*. 2023;32:247-58
35. Departemen Kesehatan. Pedoman pelayanan hemodialisis di sarana pelayanan kesehatan. Jakarta: Departemen Kesehatan RI. 2008
36. Bezhold G, Arroyo R, Guzman M, Arenas MD, Guillen MA, Cobo PA, et al. Hemodialysis centers guide 2020. *Nefrologia*. 2021;41(S1):1-77
37. Daugirdas JT. Physiologic principles and urea kinetic modeling. In Daugirdas JT, Blake PG, Ing TS, editors. *Handbook of dialysis* 5th edition. Philadelphia: Wolters Kluwer. 2015:64-106
38. Kementerian Kesehatan RI. Pedoman nasional pelayanan kedokteran tata laksana ginjal kronik. 2023.
39. Cai T, Verze P, Johansen TEB. The quality of life definition: where are we going?. *Uro J. Urol*. 2021;1:14-22
40. Yonata A, Islamy N, Taruna A, Pura L. Factors affecting quality of life in hemodialysis patients. *International Journal of General Medicine*. 2022;15:7173-8

41. Hussein H, Apetrii M, Covic A. Health-related quality of life in patients with chronic kidney disease. *Expert Review of Pharmacoeconomics & Outcomes Research*. 2020;21(1):43-54
42. Fletcher BR, Damery S, Aiyegbusi OL, Anderson N, Calvert M, Cockwell P, et al. Symptom burden and health-related quality of life chronic kidney disease: a global systematic review and meta-analysis. *PloS Med*. 2022;19(4):1-25
43. Cohen DE, Lee A, Sibbel S, Benner D, Brinelli SM, Tentori F. Use of the kdqol-36tm for assessment of health-related quality of life among dialysis patients in the united states. *BMC Nephrology*. 2019;20:1-9
44. Supriyadi R, Rakhima F, Gondodiputro RS, Darmawan G. Validity and reliability of the Indonesian version of kidney disease quality of life (kdqol-36) questionnaire in hemodialysis patients at hasan sadikin hospital, bandung, Indonesia. *Acta Med Indones-Indones J Intern Med*. 2019;51(4):318-23
45. Hudoyo MCT, Perdana M, Setiyanrini S. Uji validitas dan reliabilitas pada instrumen kidney disease quality of lide-36 (kdqol-36) pada pasien dengan hemodialisis. *Jurnal Keperawatan Klini dan Komunitas*. 2021;5(1):23-9
46. Dembowska E, Jaron A, Gabrysz-Trybek E, Bladowska J, Gacek S, Trybek G. Quality of life in patients with end-stage renal disease undergoing hemodialysis. *J Clin Med*. 2022;11(1584):1-12
47. Grebenciucova E, Vanhaerents S. Interleukin 6: at the interface of human health and disease. *Front Immunol*. 2023;14: 1-10
48. Rose-John S. Interleukin-6 signalling in health and disease. *F1000Research*. 2020;1013:1-9
49. Tanaka T, Narazaki M, Kishimoto T. Il-6 in inflammation, immunity, and disease. *Cold Spring Harb Perspect Biol*. 2014:1-17
50. Uciecjowski P, Dempke WCM. Interleukin-6: a masterplay in the cytokine network. *Oncology*. 2020:1-7
51. Keiner FF, Kraaijenhof M, Herrath M, Hovingh GKK, Scholten BJ. Interleukin 6 in diabetes, chronic kidney disease, and cardiovascular disease: mechanisms

and therapeutic perspectives. *Expert Review of Clinical Immunology*. 2022;18(4):377-89

52. Alende-Castro V, Alonso-Sampedro M, Gude F, Gonzalez-Quintela A. Serum concentration of interleukin-6 (il-6) in the general adult population: possible implications for anti-il-6 therapy in sars-cov-2 infection and il-6 related disease. *J Investig Allergol Clin Immunol*. 2021;31(1):1-6
53. Said EA, Al-Reesi I, Al-Shizawi N, Jaju S, Al-Balushi MS, Koh CY, et al. Defining il-6 levels in healthy individuals: a meta-analysis. *Journal of Medical Virology*. 2020;93(9):1-31
54. Kurniawan AE. Perbedaan kadar interleukin-6 pada penderita diabetes melitus tipe 2 terkontrol dan tidak. *Jurnal Kesehatan*. 2024;2(4):262-8
55. Todingan M, Muhiddin R, Kurniawan LB. Il-6 levels analysis controlled in type 2 diabetes mellitus patients and uncontrolled. *Indonesian Journal of Clinical Pathology and Medical Laboratory*. 2023;29(2):175-9
56. Torres FG, Molina M, Soler-Majoral J, Romero-Gonzalez G, Chitiva NR, Troya-Saborido M. Evolving concepts on inflammatory biomarkers and malnutrition in chronic kidney disease. *Nutrients*. 2022;14(4297):1-10
57. Magno AL, Herat LY, Carnagarin R, Schlaich MP, Matthews VB. Current knowledge of il-6 cytokine family members in acute and chronic kidney disease. *Biomedicines*. 2019;7(19):1-15
58. Amorim RG, Guedes GS, Vasconcelos SM, Santos J. Kidney disease in diabetes melitus: cross-linking between hyperglycemia, redox imbalance and inflammation. *Arq Bras Cardiol*. 2019;112(5):577-87
59. Achinger SG, Ayus JC. Inflammation from dialysis, can it be removed?. *Nephrol Dial Transplant*. 2013;28:770-3
60. Nowak M, Tomasik AW, Wlodarczyk Z, Paczek L. The role of the kidney in the systemic elimination of interleukin 6, platelet-derived growth factor and transforming growth factor beta. *Cytokine*. 2012;59:258-63

61. Gosain R, Anwar S, Miller A, Iyer R, Mukherjee S. Interleukin-6 as a biomarker in patients with hepatobiliary cancers. *J Gastrointest Oncol*. 2019;10(3):537-45
62. Guirao JJ, Cabrera CM, Jimenez N, Rincon L, Urrea JM. High serum il-6 values in increase the risk of mortality and the severity of pneumonia in patients diagnosed with covid-19. *Molecular Immunology*. 2020;128:64-8
63. Hecking M, Tu C, Zee J, Bieber B, Hodlmoser S, Reichel H, et al. Sex-specific differences in mortality and incident dialysis in the chronic kidney disease outcomes and practice patterns study. *Kidney Int Rep*. 2022;7:410-23
64. Neugarten J, Golestaneh L. Influence of sex on the progression of chronic kidney disease. *Mayo Clin Proc*. 2019;94(7):19-56
65. Carrero JJ, Hecking M, Chesnaye NC, Jager KJ. Sex and gender disparities in the epidemiology and outcomes of chronic kidney disease. *Nephrology*. 2018;1-14
66. Limono AB, Setyawan Y, Silitonga HT. Characteristic and quality of life of chronic kidney disease patients undergoing hemodialysis in Surabaya. *Udayana Journal of Internal Medicine*. 2024;8(2):46-50
67. Qawaqzeh DT, Masa'deh R, Hamaideh SH, Alkhalaf A, Albashtawy M. Factors affecting the levels of anxiety and depression among patients with end-stage renal disease undergoing hemodialysis. *International Urology and Nephrology*. 2023:1-10
68. Barbosa JB, Moura EC, Lira CL, Marinho PE. Quality of life and duration of hemodialysis in patients with chronic kidney disease (ckd): a cross-sectional study. *Fisioter Mov*. 2017;30(4):781-8
69. United States Renal Data System. 2021 USRDS annual data report: Incidence, prevalence, patients characteristic, and treatment modalities. National Institute of Health. 2021.
70. Ku E, Lee BJ, Wei J, Weir MR. Hypertension in ckd: core curriculum 2019. *Am J Kidney Dis*. 2019;74(1):120-31

71. P, T. Quality of life of patients undergoing hemodialysis. *Asian J Pharm Clin Res.* 2018;11(4):219-23
72. Yuliawati AN, Ratnasari PM, Maharani NL. Quality of life in end-stage renal disease patients undergoing hemodialysis and its affecting factors in a hemodialysis unit of general hospital in Denpasar. *Borneo JPharm.* 2023;6(3):320-9
73. Zhou X, Kong Y, Ma Z, Liu T, Wan T, Zhang W, et al. Evaluation of malnutrition and inflammation after total parathyroidectomy in patients on maintenance dialysis. *Int Urol Nephrol.* 2023;55:1301–1309.
74. Chen L, Chen G, Kong X. Serum level of high mobility group box protein-1 and prognosis of patients with end-stage renal disease on hemodialysis and peritoneal dialysis. *Med (United States).* 2021;100(5):E24275.
75. Smith JR, Zimmer N, Bell E, Francq BG, McConnachie A, Mactier R. A randomized, single-blind, crossover trial of recovery time in high-flux hemodialysis and hemodiafiltration. *Am J Kidney Dis.* 2017;69(6):762–70.
76. Hoedt C, Bots M, Grooteman M, Weerd N, Mazairac A, Penne E, et al. Online hemodiafiltration reduces systemic inflammation compared to low-flux hemodialysis. *Kidney International.* 2014;86:423-32
77. Jia P, Jin W, Teng J, Zhang H, Zou J, Liu Z, et al. Acute effect of hemodiafiltration versus conventional hemodialysis on endothelial function and inflammation. *Medicine.* 2016;95(16):1-7
78. Mady G, Bichari W, Gawa M, Khedr E, Rezk K. The effect of hemodiafiltration on inflammatory biomarkers in comparison to high flux dialyzers in prevalent hemodialysis patients. *Int J Biol Med res.* 2020;11(1):6976-81
79. Bross R, Zitterkoph J, Pithia J, Benner D, Rambod M, Kovesdy CP, et al. Association of serum total iron-binding capacity and its changes over time with nutritional and clinical outcomes in hemodialysis patients. *Am J Nephrol.* 2009;29(6):571–81.

80. Rokhman MR, Wardhani, Schans J. Comparing health-related quality of life and utility scores of patients undergoing hemodialysis and continuous ambulatory peritoneal dialysis in indonesia. *Sage Journal*. 2024;45(3)
81. Ibrahim MAA, Elhakim IZ, Soliman D, Mubarak MA, Said RM. Online hemodiafiltration use in children: a single center experience with a twist. *BMC Nephrol*. 2020;21(1):1–15.
82. Karamanidou C, Clatworthy J, Weinman J, Horne R. A systematic review of the prevalence and determinants of nonadherence to phosphate binding medication in patients with end-stage renal disease. *BMC Nephrology*. 2008;9(2):1-10
83. Cukor D, Peterson R, Cohen S. Psychosocial aspects of chronic disease: esrd as a paradigmatic illness. *J Am Soc Nephrol*. 2007;18:3042-55
84. Ikizler, TA, Cano, NJ, Franch, H, Fouque, D, Himmelfarb, J, Kalantar-Zadeh, K, et al. Prevention and treatment of protein energy wasting in chronic kidney disease patients: a consensus statement by the International Society of Renal Nutrition and Metabolism. *Nature Reviews Nephrology*. 2013;9(9):543–556
85. Bello AR, Titapiccolo J, Godoy I, Samaniego D, Perez S, Perez A, et al. Better health-related quality of life is associated with prolonged survival and reduced hospitalization risk among dialysis-dependent chronic kidney disease patients: a historical cohort study. *BMC Nephrology*. 2024;25(388):1-12
86. Bakris G, Ritz E. Hypertension and kidney disease: a marriage that should be prevented. *Hong Kong J Nephrol*. 2009;11(1):1-3
87. Peipert JD, Nair D, Klicko K, Schatell D, Hays R. Kidney disease quality of life 36-item short form survey (kdqol-36) normative values for the united states dialysis population and new single summary score. *J Am Soc Nephrol*. 2019;30:1-10
88. Karaaslan T, Pembegul I. Relationship between symptom burden and dialysis adequacy in patients with chronic kidney disease undergoing hemodialysis. *North Clin Istanbul*. 2023;10(4):435-43

89. Jesus NM, Souza GF, Rodrigues CM, Neto OP, Cunha CM. Quality of life of individuals with chronic kidney disease on dialysis. *Braz. J. Nephrol.* 2019;41(3):364-74
90. Teles F, Albuquerque AL, Lins IKF, Medrado PC, Costa AF. Quality of life and depression in haemodialysis patients. *Psychology, Health and Medicine.* 2018;1-11
91. Dabrowska-Bender-M, Dykowska G, Zuk W, Milewska M, Staniszevska A. The impact on quality of life of dialysis patients with renal insufficiency. *Patients Preference and Adherence.* 2018;12:577-83
92. Panma Y, Yona S, Maria R. Relationship between hypertension with quality of life of hemodialysis patients. *Enferm Clin.* 2019;29(S2):885-90
93. Wulandari W, Zakiyah N, Rahayu C, Puspitasari I, Suwantika A. Health-related quality of life in hypertensive patients with chronic kidney disease in low and middle-income countries. *BMC Nephrology.* 2025;26:1-13
94. Rasyid H, Kasim H, Zatalia S, Sampebuntu J. Quality. Of life in patients with renal failure undergoing hemodialysis. *Acta Med Indones-Indones J Intern Med.* 2022;54(2):307-13
95. Keskin G. Resilience in patients with dialysis-dependent renal failure: evaluation in terms of depression, anxiety, traumatic growths. *Applied Nursing Research.* 2022;65
96. Gomez EO, Galindo PV, Rodero HM, Villardon PG. Detection of response shift in health-related quality of life studies: a systematic review. *Health and Quality of Life Outcomes.* 2020;20(20):1-10
97. Istanbul O, Belcher J, Tabinor M, Trapala I, Lambie M, Davies S. estimating the association between systematic interleukin-6 and mortality in the dialysis population. Re-analysis of the global fluid study, systematic review and meta-analysis. *B<C Nephrology.* 2023;24(312):1-12
98. Poppe C, Crombez G, Hanouille I, Vogelaers D, Petrovic M. Improving quality of life in patients with chronic kidney disease: influence of acceptance and personality. *Nephrol Dial Transplant.* 2013;28:116-21

99. Garcia-Martinez P, Ballester-Arnal R, Gandhi-Morar K, Castro-Calvo J, Gea- Caballero V, Juarez-Vela R, et al. Percieved stress in relation to quality of life and resilience in patients with advamced chronic kidney disease undergoing hemodialysis. *Int. J. Environ. Res. Public Health*. 2021;18(536):1-11
100. Forcina L, Franceschi C, Musard A. The hermetic and hermetic role of il-6. *Aging Research Review*. 2022;80:1-16
101. Sahib A, Choundhury C, Wani I, Wani M. Evaluation of onflammatory status in chronic kidney disease patients and a comparison between hemodialysis and peritoneal dialysis patients. *Cureus*. 2024;16(9)1-15
102. Chagas YW, Castro PA, Silvia AC. Neuroimflammation in kidney disease and dialysis. *Behavioural Brain Research*. 2025;483:115465
103. Alshogran O, Khalil A, Oweis A, Altawalbeh S, Alqudah M. Association of brain-derived neurotrophic factor and interleukin-6 serum level with depressive and anxiety symptoms in hemodialysis patients. *General Hospital Psychiatry*. 2018;53:25-31
104. Montinaro V, Iaffaldano GP, Granata S, Porcelli P, Todarello O, SchenaF. Emotional symptoms, quality of life and cytokine profile in hemodialysis patients. *Clinical Nephrology*. 2010;73(1):36-43
105. Aquili L. The role of tryptophan and tyrosine in executive function and reward processing. *International Journal of Tryptophan Research*. 2020;13:1-13
106. Chen Y, Peng Y, Xu H, O'Brien W. Age differences in stress and coping: problem-focused strategies mediate the relationship between age and positive affect. *The International Journal of Aging and Human Development*. 2017;86(4):347-63
107. Pan Y, Yang L, Dai B, Lin B, Lin S, Lin E. Effects of probiotics on malnutrition and health-related quality of life in patients undergoing peritoneal dialysis: a randomized controlled trial. *J Ren Nutr*. 2021;31(2):199–205

