



DAFTAR PUSTAKA

- Achinger, S.G., & Ayus, J.C., 2013. Inflammation from dialysis, can it be removed? *Nephrol. Dial. Transplant.* 28: 770–773. doi:10.1093/ndt/gfs480
- Al-Shdaifat, E.A., & Manaf, M.R.A., 2013. The economic burden of hemodialysis in Jordan. *Indian J. Med. Sci.* 67: 103–116. doi:10.4103/0019-5359.122734
- Alp Ikizler, T., Robinson-Cohen, C., Ellis, C., Headley, S.A.E., Tuttle, K., Wood, R.J., et al., 2018. Metabolic effects of diet and exercise in patients with moderate to severe CKD: A randomized clinical trial. *J. Am. Soc. Nephrol.* 29: 250–259. doi:10.1681/ASN.2017010020
- Anders, H., & Schlo, D., 2007. Toll-like receptors : emerging concepts in kidney disease 177–183.
- Aquilano, K., Baldelli, S., & Ciriolo, M.R., 2014. Glutathione: New roles in redox signalling for an old antioxidant. *Front. Pharmacol.* 5 AUG: 1–12. doi:10.3389/fphar.2014.00196
- Arumugam, S., & Sreedhar, R., 2015. Angiotensin receptor blockers : Focus on cardiac and renal injury. *Trends Cardiovasc. Med.* 1–8. doi:10.1016/j.tcm.2015.06.004
- Ashley, N.T., Weil, Z.M., & Nelson, R.J., 2012. Inflammation : Mechanisms , Costs , and Natural Variation. *Annu. Rev. Ecol. Evol. Syst.* 385–406. doi:10.1146/annurev-ecolsys-040212-092530
- Barcellos, F.C., Del Vecchio, F.B., Reges, A., Mielke, G., Santos, I.S., Umpierre, D., et al., 2018. Exercise in patients with hypertension and chronic kidney disease: A randomized controlled trial. *J. Hum. Hypertens.* 32: 397–407. doi:10.1038/s41371-018-0055-0
- Beetham, K.S., Giles, C., Noetel, M., Clifton, V., Jones, J.C., & Naughton, G., 2019. The effects of vigorous intensity exercise in the third trimester of pregnancy : a systematic review and meta-analysis 1: 1–18.
- Bonventre, J. V, 2014a. Primary proximal tubule injury leads to epithelial cell cycle arrest , fibrosis , vascular rarefaction , and glomerulosclerosis. *Kidney Int. Suppl.* 4: 39–44. doi:10.1038/kisup.2014.8
- Bonventre, J. V, 2014b. JOURNEY 125: 293–299.
- Breshears, M.A., & Confer, A.W., 2020. The Urinary System 1 Kidney 2.
- Carlström, M., 2021. Nitric oxide signalling in kidney regulation and cardiometabolic health. *Nat. Rev. Nephrol.* 17: 575–590. doi:10.1038/s41581-021-00429-z
- Centers for Disease Control and Prevention, 2021. Chronic Kidney Disease in the United States, 2021. *Cdc* 1: 1–6.
- Chen, D.Q., Cao, G., Chen, H., Liu, D., Su, W., Yu, X.Y., et al., 2017. Gene and protein expressions and metabolomics exhibit activated redox signaling and wnt/β-catenin pathway are associated with metabolite dysfunction in patients with chronic kidney disease. *Redox Biol.* 12: 505–521. doi:10.1016/j.redox.2017.03.017
- Da Cruz, L.G., Zanetti, H.R., Andaki, A.C.R., Da Mota, G.R., Neto, O.B., & Mendes, E.L., 2018. Intradialytic aerobic training improves inflammatory markers in patients with chronic kidney disease: A randomized clinical trial.



- Motriz. Rev. Educ. Fis.* 24: 1–5. doi:10.1590/S1980-657420180003E017517
- Disease, K., Study, P., Cheema, B., Abas, H., Smith, B., Kelly, J., et al., 2007. Randomized Controlled Trial of Intradialytic Resistance Training to Target Muscle Wasting in ESRD: The Progressive Exercise for 50: 574–584. doi:10.1053/j.ajkd.2007.07.005
- Docherty, S., Harley, R., McAuley, J.J., Crowe, L.A.N., Pedret, C., Kirwan, P.D., et al., 2022. The effect of exercise on cytokines: implications for musculoskeletal health: a narrative review. *BMC Sports Sci. Med. Rehabil.* 14: 1–14. doi:10.1186/s13102-022-00397-2
- Donnahoo, K.K., Shames, B.D., Harken, A.H., & Meldrum, D.R., 1999. Review Article : The Role Of Tumor Necrosis Factor In Renal Ischemia-Reperfusion Injury 196–203.
- Duffield, J.S., 2011. NIH Public Access 30: 234–254. doi:10.1016/j.semephrol.2010.03.003.Macrophages
- Dungey, M., Young, H.M.L., Churchward, D.R., Burton, J.O., Smith, A.C., & Bishop, N.C., 2017. Regular exercise during haemodialysis promotes an anti-inflammatory leucocyte profile. *Clin. Kidney J.* 10: 813–821. doi:10.1093/ckj/sfx015
- Efstratiadis, G., Divani, M., Katsioulis, E., & Vergoulas, G., 2017. Renal fibrosis. Erdmann, E., 2006. Microalbuminuria as a marker of cardiovascular risk in patients with type 2 diabetes 107: 147–153. doi:10.1016/j.ijcard.2005.03.053
- Ferenbach, D.A., Bonventre, J. V, & Division, R., 2016. HHS Public Access 11: 264–276. doi:10.1038/nrneph.2015.3.Mechanisms
- Fragiadaki, M., Mason, R.M., & Mason, R.M., 2011. Epithelial-mesenchymal transition in renal fibrosis – evidence for and against 1: 143–150. doi:10.1111/j.1365-2613.2011.00775.x
- Fujihara, C.K., Malheiros, D.M.A.C., & Zatz, R., 2022. Losartan-hydrochlorothiazide association promotes lasting blood pressure normalization and completely arrests long-term renal injury in the 5 / 6 ablation model 1810–1818. doi:10.1152/ajprenal.00521.2006.
- Glassock, R.J., 2009. Ageing and the Glomerular Filtration Rate 120: 419–428.
- Greenwood, S.A., Koufaki, P., Macdonald, J., Bhandari, S., Burton, J., Dasgupta, I., et al., 2021. The PrEscription of intraDialytic exercise to improve quALity of Life in patients with chronic kidney disease trial: study design and baseline data for a multicentre randomized controlled trial. *Clin. Kidney J.* 14: 1345–1355. doi:10.1093/ckj/sfaa107
- Grgic, I., Duffield, J.S., & Humphreys, B.D., 2012. The origin of interstitial myofibroblasts in chronic kidney disease. *Pediatr. Nephrol.* 27: 183–193. doi:10.1007/s00467-011-1772-6
- Groussard, C., Rouchon-Isnard, M., Coutard, C., Romain, F., Malardé, L., Lemoine-Morel, S., et al., 2015. Beneficial effects of an intradialytic cycling training program in patients with end-stage kidney disease. *Appl. Physiol. Nutr. Metab.* 40: 550–556. doi:10.1139/apnm-2014-0357
- Hayden, M.S., & Ghosh, S., 2012. NF- k B , the first quarter-century : remarkable progress and outstanding questions 203–234. doi:10.1101/gad.183434.111.experimentation



- Headley, S., Germain, M., Mailloux, P., Mulhern, J., Ashworth, B., Burris, J., et al., 2002. Resistance Training Improves Strength and Functional Measures in Patients With End-Stage Renal Disease 40: 355–364. doi:10.1053/ajkd.2002.34520
- Hellberg et al., M., 2018. Comparing effects of 4 months of two self- administered exercise training programs on physical performance in patients with chronic kidney disease : RENEXC – A randomized controlled trial 1–16.
- Hiraki, K., Shibagaki, Y., Izawa, K.P., Hotta, C., Wakamiya, A., & Sakurada, T., 2017. Effects of home-based exercise on pre- dialysis chronic kidney disease patients : a randomized pilot and feasibility trial 1–7. doi:10.1186/s12882-017-0613-7
- Ho, R.C., Hirshman, M.F., Li, Y., Cai, D., Farmer, J.R., Aschenbach, W.G., et al., 2005. Regulation of I κ B kinase and NF- κ B in contracting adult rat skeletal muscle. *Am. J. Physiol. - Cell Physiol.* 289. doi:10.1152/ajpcell.00632.2004
- Hussain, S., Romio, L., Saleem, M., Mathieson, P., Serrano, M., Moscat, J., et al., 2009. Nephrin Deficiency Activates NF- κ B and Promotes Glomerular Injury 1733–1743. doi:10.1681/ASN.2008111219
- Imig, J.D., & Ryan, M.J., 2013. Immune and Inflammatory Role in Renal Disease 3: 957–976. doi:10.1002/cphy.c120028
- Ishimura, E., Taniwaki, H., Tabata, T., & Tsujimoto, Y., 2005. Cross-Sectional Association of Serum Phosphate With Carotid Intima-Medial Thickness in Hemodialysis Patients 45: 859–865. doi:10.1053/j.ajkd.2005.02.008
- Jameson, J.L., & Lascalzo, J., 2010. Basic Biology of the Kidney, Harrison's Nefrology and Acid-Base Disorders. The McGraw-Hill Companies, 2010. Pag. 2-14.
- Ji, L.L., Gomezcabrera, M., Steinhafel, N., & Vina, J., 2004. Acute exercise activates nuclear factor (NF)-KB signaling pathway in rat skeletal muscle. *FASEB J.* 18: 1499–1506. doi:10.1096/fj.04-1846com
- Jofre, R., Rodriguez-benitez, P., & Lo, J.M., 2006. Inflammatory Syndrome in Patients on Hemodialysis 274–280. doi:10.1681/ASN.2006080926
- Johansen, K.L., 2007. Disease of the Month Exercise in the End-Stage Renal Disease Population 1845–1854. doi:10.1681/ASN.2007010009
- Jung, T., & Park, S., 2011. Intradialytic Exercise Programs for Hemodialysis Patients 61–65.
- Kaissling, B., Lehir, M., & Kriz, W., 2013. Biochimica et Biophysica Acta Renal epithelial injury and fibrosis ☆. *BBA - Mol. Basis Dis.* 1832: 931–939. doi:10.1016/j.bbadic.2013.02.010
- Kiffel et al., J., 2013. NIH Public Access 18: 332–338. doi:10.1053/j.ackd.2011.03.005.FOCAL
- Kim E., B., & Ganong, W.F., 2012. Ganong's Review of Medical Physiology T WENT Y-FOUR TH EDITION, Memórias do Instituto Oswaldo Cruz.
- King, A.C., & Wilund, K.R., 2022. Next Steps for Intradialytic Cycling Research 287–295.
- Kuehnel, W., 2003. Color Atlas of Cytology, Histology and Microscopic Anatomy (Thieme Flexibook).
- Kurts, C., Panzer, U., Anders, H., & Rees, A.J., 2013. The immune system and



- kidney disease : basic concepts and clinical implications. *Nat. Publ. Gr.* 13: 738–753. doi:10.1038/nri3523
- Kusaba & Humphreys, K.&, 2015. NIH Public Access 29: 673–679. doi:10.1007/s00467-013-2669-3. *Controversies*
- Lasagni, L., & Romagnani, P., 2010. Glomerular Epithelial Stem Cells : The Good , The Bad , and The Ugly 1612–1619. doi:10.1681/ASN.2010010048
- Liao, M.T., Liu, W.C., Lin, F.H., Huang, C.F., Chen, S.Y., Liu, C.C., et al., 2016. Intradialytic aerobic cycling exercise alleviates inflammation and improves endothelial progenitor cell count and bone density in hemodialysis patients. *Med. (United States)* 95. doi:10.1097/MD.0000000000004134
- Lin, Chia Huei, Hsu, Y.J., Hsu, P.H., Lee, Y.L., Lin, Chueh Ho, Lee, M.S., et al., 2021. Effects of intradialytic exercise on dialytic parameters, health-related quality of life, and depression status in hemodialysis patients: A randomized controlled trial. *Int. J. Environ. Res. Public Health* 18: 1–16. doi:10.3390/ijerph18179205
- Liu, H.W., & Chang, S.J., 2018. Moderate exercise suppresses NF-κB signaling and activates the SIRT1-AMPK-PGC1 α axis to attenuate muscle loss in diabetic db/db mice. *Front. Physiol.* 9: 1–9. doi:10.3389/fphys.2018.00636
- Liu, T., Zhang, L., Joo, D., & Sun, S.C., 2017. NF-κB signaling in inflammation. *Signal Transduct. Target. Ther.* 2. doi:10.1038/sigtrans.2017.23
- Liu, Y., 2011. Cellular and molecular mechanisms of renal fibrosis. *Nat. Rev. Nephrol.* 7: 684–696. doi:10.1038/nrneph.2011.149
- Liu, Y.L., Prowle, J., Licari, E., Uchino, S., & Bellomo, R., 2009. Changes in blood pressure before the development of nosocomial acute kidney injury. *Nephrol. Dial. Transplant.* 24: 504–511. doi:10.1093/ndt/gfn490
- Lockhart, C.J., Hamilton, P.K., Quinn, C.E., & Veigh, G.E.M.C., 2009. End-organ dysfunction and cardiovascular outcomes : the role of the microcirculation. doi:10.1042/CS20080069
- Luciano, G., Gonçalves, M., Nina, D., Aguiar, C., Rodrigues, M., Luiz, F., et al., 2020. NF- κ B gene expression in peripheral blood and urine in early diagnosis of diabetic nephropathy – A liquid biopsy approach. *Urine* 1: 24–28. doi:10.1016/j.urine.2020.05.005
- MacKinnon, H.J., Wilkinson, T.J., Clarke, A.L., Gould, D.W., O'Sullivan, T.F., Xenophontos, S., et al., 2018. The association of physical function and physical activity with all-cause mortality and adverse clinical outcomes in nondialysis chronic kidney disease: a systematic review. *Ther. Adv. Chronic Dis.* 9: 209–226. doi:10.1177/2040622318785575
- Manfredini, F., Mallamaci, F., Arrigo, G.D., Baggetta, R., Bolignano, D., Torino, C., et al., 2016. Exercise in Patients on Dialysis : A Multicenter , Randomized Clinical Trial 1–10. doi:10.1681/ASN.2016030378
- Martens, C.R., Kirkman, D.L., & Edwards, D.G., 2016. The Vascular Endothelium in Chronic Kidney Disease. *Exerc. Sport Sci. Rev.* 44: 12–19. doi:10.1249/jes.0000000000000065
- Medzhitov, R., 2008. Origin and physiological roles of inflammation 454. doi:10.1038/nature07201
- Meng, X., Tang, P.M., Li, J., & Lan, H.Y., 2015. TGF- β / Smad signaling in renal



- fibrosis 6: 1–8. doi:10.3389/fphys.2015.00082
- Mescher, A.L., 2017. Junqueira ' s Basic Histology Text & Atlas. *Mc Graw Hill* xiii + 626.
- Miller, W.L., 2016. Fluid volume overload and congestion in heart failure. *Circ. Hear. Fail.* 9: 1–9. doi:10.1161/CIRCHEARTFAILURE.115.002922
- Moorthi, R.N., & Avin, K.G., 2017. Clinical relevance of sarcopenia in chronic kidney disease 1–10. doi:10.1097/MNH.0000000000000318
- Murray, A.W., Barnfield, M.C., Waller, M.L., Telford, T., & Michael Peters, A., 2013. Assessment of glomerular filtration rate measurement with plasma sampling: A technical review. *J. Nucl. Med. Technol.* 41: 67–75. doi:10.2967/jnmt.113.121004
- Nemes, R., Koltai, E., Taylor, A.W., Suzuki, K., Gyori, F., & Radak, Z., 2018. Reactive oxygen and nitrogen species regulate key metabolic, anabolic, and catabolic pathways in skeletal muscle. *Antioxidants* 7. doi:10.3390/antiox7070085
- Nguyen, M.T., & Devarajan, P., 2008. Biomarkers for the early detection of acute kidney injury 2151–2157. doi:10.1007/s00467-007-0470-x
- Nithya, R., Rr, R.J., Reema, M.S., & Saju, S.M., 2022. A Comprehensive Review on Revivification for ESRD Patients - Haemodialysis 12: 121–135.
- Nowak, K.L., & Chonchol, M., 2018. Does inflammation affect outcomes in dialysis patients ? doi:10.1111/sdi.12686
- Nylen, E.S., Gandhi, S.M., Kheirbek, R., & Kokkinos, P., 2015. Enhanced fitness and renal function in Type 2 diabetes. *Diabet. Med.* 32: 1342–1345. doi:10.1111/dme.12789
- Painter, P., Carlson, L., Carey, S., Paul, S.M., & Myll, J., 2000. Physical Functioning and Health-Related Quality-of-Life Changes With Exercise Training in Hemodialysis Patients 35: 482–492.
- Pechter, Ü., Ots, M., Mesikepp, S., Zilmer, K., Kullissaar, T., Vihalemm, T., et al., 2003. Beneficial effects of water-based exercise in patients with chronic kidney disease. *Int. J. Rehabil. Res.* 26: 153–156. doi:10.1097/01.mrr.0000070755.63544.5a
- Peiró, C., Romacho, T., Azcutia, V., Villalobos, L., Fernández, E., Bolaños, J.P., et al., 2016. Inflammation, glucose, and vascular cell damage: The role of the pentose phosphate pathway. *Cardiovasc. Diabetol.* 15: 1–15. doi:10.1186/s12933-016-0397-2
- Physiol, P.R., 2013. Copyright © 2013 by the American Physiological Society. doi:10.1152/ajprenal.00491.2012
- Pimenta, E., Jensen, M., Jung, D., Schaumann, F., Boxnick, S., & Truebel, H., 2016. Effect of Diet on Serum Creatinine in Healthy Subjects During a Phase I Study. *J. Clin. Med. Res.* 8: 836–839. doi:10.14740/jocmr2738w
- Qiao, Z., & Jin, J.W., 2020. The effects of elastic band resistance training on the physical activities , strength , body composition , and quality of life of the elderly 13: 9516–9525.
- Radak, Z., Chung, H.Y., & Goto, S., 2005. Exercise and hormesis: Oxidative stress-related adaptation for successful aging. *Biogerontology* 6: 71–75. doi:10.1007/s10522-004-7386-7



- Radak, Z., Torma, F., Berkes, I., Goto, S., Mimura, T., Posa, A., et al., 2019. Exercise effects on physiological function during aging. *Free Radic. Biol. Med.* 132: 33–41. doi:10.1016/j.freeradbiomed.2018.10.444
- Ramirez, R., Carracedo, J., Berdud, I., Carretero, D., Merino, A., Tetta, C., et al., 2006. Microinflammation in hemodialysis is related to a preactivated subset of monocytes 24–27.
- Rangaswami, J., Bhalla, V., Blair, J.E.A., Chang, T.I., Costa, S., Lentine, K.L., et al., 2019. Cardiorenal Syndrome: Classification, Pathophysiology, Diagnosis, and Treatment Strategies: A Scientific Statement From the American Heart Association, *Circulation*. doi:10.1161/CIR.0000000000000664
- Rauramaa, R., Halonen, P., Väistönen, S.B., Lakka, T.A., Schmidt-Trucksäss, A., Berg, A., et al., 2004. Effects of aerobic physical exercise on inflammation and atherosclerosis in men: The DNASCO study. A six-year randomized, controlled trial. *Ann. Intern. Med.* 140.
- RISEKDAS, 2018. Laporan_Nasional_RKD2018_FINAL.pdf. *Badan Penelitian dan Pengembangan Kesehatan*.
- Ruiz-Ortega, M., 2001. Systemic Infusion of Angiotensin II into Normal Rats Activates Nuclear Factor- κ B and AP-1 in the Kidney 158: 1743–1756.
- Saha, M., & Allon, M., 2016. In-Depth Review Diagnosis, Treatment, and Prevention of Hemodialysis Emergencies. doi:10.2215/CJN.05260516
- Salhab, N., Karavetian, M., Kooman, J., Fiaccadori, E., & El, C.F., 2019. Effects of intradialytic aerobic exercise on hemodialysis patients: a systematic review and meta-analysis. *J. Nephrol.* 0: 0. doi:10.1007/s40620-018-00565-z
- Sanz, A.B., Sanchez-Nin, M.D., Ramos, A.M., Moreno, J.A., Santamaría, B., Ruiz-Ortega, M., et al., 2010a. NF- κ B in Renal Inflammation 1254–1262. doi:10.1681/ASN.2010020218
- Sanz, A.B., Sanchez-Niño, M.D., Ramos, A.M., Moreno, J.A., Santamaría, B., Ruiz-Ortega, M., et al., 2010b. NF- κ B in renal inflammation. *J. Am. Soc. Nephrol.* 21: 1254–1262. doi:10.1681/ASN.2010020218
- Shapiro, M.D., & Fazio, S., 2016. From Lipids to Inflammation: New Approaches to Reducing Atherosclerotic Risk. *Circ. Res.* 118: 732–749. doi:10.1161/CIRCRESAHA.115.306471
- Sherwood, L., 2016. Human Physiology From Cells to Systems, Eighth. ed, Brooks/Cole Cengage Learning.
- Smart, N., & Steele, M., 2011. Exercise training in haemodialysis patients: A systematic review and meta-analysis Correspondence: ABSTRACT: 16: 626–632. doi:10.1111/j.1440-1797.2011.01471.x
- Sontrop, J.M., Dixon, S.N., Garg, A.X., Buendia-Jimenez, I., Dohein, O., Huang, S.H.S., et al., 2013. Association between water intake, chronic kidney disease, and cardiovascular disease: A cross-sectional analysis of NHANES data. *Am. J. Nephrol.* 37: 434–442. doi:10.1159/000350377
- Sovatzidis, A., Chatzinikolaou, A., Fatouros, I.G., Panagoutsos, S., Draganidis, D., Nikolaidou, E., et al., 2020. Intradialytic cardiovascular exercise training alters redox status, reduces inflammation and improves physical performance in patients with chronic kidney disease. *Antioxidants* 9: 1–15. doi:10.3390/antiox9090868



- Storer, T.W., Casaburi, R., Sawelson, S., & Kopple, J.D., 2005. Endurance exercise training during haemodialysis improves strength , power , fatigability and physical performance in maintenance haemodialysis patients 1429–1437. doi:10.1093/ndt/gfh784
- Su, H., Lei, C.T., & Zhang, C., 2017. Interleukin-6 signaling pathway and its role in kidney disease: An update. *Front. Immunol.* 8: 1–10. doi:10.3389/fimmu.2017.00405
- Szeto, C.C., Ching-Ha, K.B., Ka-Bik, L., Mac-Moune, L.F., Cheung-Lung, C.P., Gang, W., et al., 2012. Micro-RNA expression in the urinary sediment of patients with chronic kidney diseases. *Dis. Markers* 33: 137–144. doi:10.3233/DMA-2012-0914
- Taherkhani, S., Suzuki, K., & Castell, L., 2020. A short overview of changes in inflammatory cytokines and oxidative stress in response to physical activity and antioxidant supplementation. *Antioxidants* 9: 1–18. doi:10.3390/antiox9090886
- Tortora, G.J., Derrickson, B., & Tortora, G.J., 2017. The cardiovascular system: Blood vessels and hemodynamics, Tortora's Principles of anatomy & physiology.
- Trendafilov, I., I, G., V, M., B, A., D, A., V, V., et al., 2018. Status and relation to inflammation of some serum trace elements (TE) in hemodialysis (HD) patients. *Nephrol. Ren. Dis.* 3: 1–4. doi:10.15761/nrd.1000148
- Urbschat, A., Obermüller, N., Haferkamp, A., Urbschat, A., Obermüller, N., & Haferkamp, A., 2011. Biomarkers of kidney injury Biomarkers of kidney injury 5804. doi:10.3109/1354750X.2011.587129
- Vallabhapurapu, S., & Karin, M., 2009. Regulation and Function of NF- κ B Transcription Factors in the Immune System. doi:10.1146/annurev.immunol.021908.132641
- Vanholder, R., 2022. Future Directions for Dialysis. *Kidney Dial.* 2: 153–162. doi:10.3390/kidneydial2020018
- Viana, J.L., Kosmadakis, G.C., Watson, E.L., Bevington, A., Feehally, J., Bishop, N.C., et al., 2014. Evidence for anti-inflammatory effects of exercise in CKD. *J. Am. Soc. Nephrol.* 25: 2121–2130. doi:10.1681/ASN.2013070702
- Vilsteren, M.C.B.A. Van, Greef, M.H.G. De, & Huisman, R.M., 2005. The effects of a low-to-moderate intensity pre-conditioning exercise programme linked with exercise counselling for sedentary haemodialysis patients in The Netherlands: results of a randomized clinical trial 20: 141–146. doi:10.1093/ndt/gfh560
- Wang, A.Y., Sherrington, C., Toyama, T., Gallagher, M.P., Cass, A., Hirakawa, Y., et al., 2017. Muscle strength, mobility, quality of life and falls in patients on maintenance haemodialysis: A prospective study. *Nephrology* 22: 220–227. doi:10.1111/nep.12749
- Watson, E.L., Viana, J.L., Wimbury, D., Martin, N., Greening, N.J., Barratt, J., et al., 2017. The effect of resistance exercise on inflammatory and myogenic markers in patients with chronic kidney disease. *Front. Physiol.* 8. doi:10.3389/fphys.2017.00541
- Wilkinson, T.J., Clarke, A.L., Nixon, D.G.D., Hull, K.L., Song, Y., Burton, J.O., et al., 2017. The effect of resistance exercise on inflammatory and myogenic markers in patients with chronic kidney disease. *Front. Physiol.* 8. doi:10.3389/fphys.2017.00541



- al., 2021. Prevalence and correlates of physical activity across kidney disease stages: An observational multicentre study. *Nephrol. Dial. Transplant.* 36: 641–649. doi:10.1093/ndt/gfz235
- Wilund, K.R., Tomayko, E.J., Wu, P.T., Ryong Chung, H., Vallurupalli, S., Lakshminarayanan, B., et al., 2010. Intradialytic exercise training reduces oxidative stress and epicardial fat: A pilot study. *Nephrol. Dial. Transplant.* 25: 2695–2701. doi:10.1093/ndt/gfq106
- Yang, H., Guo, X., Zhang, X., Li, Z., Yu, S., Zheng, L., et al., 2015. The relationship between mean arterial pressure and decreased glomerular filtration rate in rural areas of Northeast China. *BMC Nephrol.* 16: 1–6. doi:10.1186/s12882-015-0115-4
- Yilmaz, M.I., Romano, M., Basarali, M.K., Elzagallaai, A., Karaman, M., Demir, Z., et al., 2020. The Effect of Corrected Inflammation , Oxidative Stress and Endothelial Dysfunction on Fmd Levels in Patients with Selected Chronic Diseases : A Quasi- Experimental Study 1–10. doi:10.1038/s41598-020-65528-6
- Yonova, D., Trendafilov, Papazov, P., Stanchen, I., Zidarov, R., & Antonov, S., 2004. Comparative study of oxidative stress in peritoneal dialysis and hemodialysis patients 170–172.
- Zeisberg, M., 2014. Full Reviews Evidence for the involvement of epigenetics in the progression of renal fibrogenesis 1–8. doi:10.1093/ndt/gft361
- Zhang, H., & Sun, S.C., 2015. NF- κ B in inflammation and renal diseases. *Cell Biosci.* 1–12. doi:10.1186/s13578-015-0056-4
- Zhang, L., Wang, Y., Xiong, L., Luo, Y., Huang, Z., & Yi, B., 2019. Exercise therapy improves eGFR, and reduces blood pressure and BMI in non-dialysis CKD patients: Evidence from a meta-analysis. *BMC Nephrol.* 20: 1–12. doi:10.1186/s12882-019-1586-5