

6 Literaturverzeichnis

- 1 Ahmed L, Weisberg L. Hyperkalemia in dialysis patients. *Seminars in dialysis* – Vol 14, No 5 2001; pp 348-356
- 2 Anderson TJ, Uehata A, Gerhard MD, Meredith IT, Knab S, Delagrange D, Lieberman EH, Ganz P, Creager MA, Yeung AC. Close relation of endothelial function in the human coronary and peripheral circulations. *J Am Coll Cardiol*, 1995; 26:1235-1241
- 3 Annuk M, Lind L, Linde T, Fellström B. Impaired endothelium-dependent vasodilatation in renal failure in humans. *Nephrol Dial Transplant*. 2001 Feb;16(2):302-6.
- 4 Arnett DK, Glasser SP, McVeigh G, Prineas R, Finklestein S, Donahue R, Cohn JN, Sinaiko A. Blood pressure and arterial compliance in young adults: the Minnesota Children's Blood Pressure Study. *Am J Hypertens*. 2001 Mar;14(3):200-5.
- 5 Bhuiyan AR, Srinivasan SR, Chen W, Paul TK, Berenson GS. Correlates of vascular structure and function measures in asymptomatic young adults: the Bogalusa Heart Study. *Atherosclerosis*. 2006 Nov;189(1):1-7.
- 6 Blacher J, Guerin AP, Pannier B, Marchais SJ, Safar ME, London GM. Impact of aortic stiffness on survival in end-stage renal disease. *Circulation*. 1999 May 11;99(18):2434-9.
- 7 Blacher J, Safar ME, Guerin AP, Pannier B, Marchais SJ, London GM. Aortic pulse wave velocity index and mortality in end-stage renal disease. *Kidney Int*. 2003 May;63(5):1852-60
- 8 Bonetti PO, Lerman LO, Lerman A. Endothelial dysfunction: a marker of atherosclerotic risk. *Arterioscler Thromb Vasc Biol*. 2003 Feb 1;23(2):168-75.
- 9 Bonetti PO, Pumper GM, Higano ST, Holmes DR Jr, Kuvvin JT, Lerman A. Noninvasive identification of patients with early coronary atherosclerosis by assessment of digital reactive hyperemia. *J Am Coll Cardiol*. 2004 Dec 7;44(11):2137-41.
- 10 Briet M, Bozec E, Laurent S, Fassot C, London GM, Jacquot C, Froissart M, Houillier P, Boutouyrie P. Arterial stiffness and enlargement in mild-to-moderate chronic kidney disease. *Kidney Int*. 2006 Jan;69(2):350-7.
- 11 Brown WW, Peters RM, Ohmit SE, Keane WF, Collins A, Chen SC, King K, Klag MJ, Molony DA, Flack JM. Early detection of kidney disease in community settings: the Kidney Early Evaluation Program (KEEP). *Am J Kidney Dis*. 2003 Jul;42(1):22-35.
- 12 Bünger R, Haddy RJ, Querengässer A, Gerlach E. Studies on potassium induced coronary dilation in the isolated guinea pig heart. *Pflugers Arch*. 1976 May 6;363(1):27-31.
- 13 Burkert A, Scholze A, Tepel M. Noninvasive continuous monitoring of digital pulse waves during hemodialysis. *ASAIO J*. 2006 Mar-Apr;52(2):174-9.
- 14 Burns WR, Cohen KD, Jackson WF. K+-induced dilation of hamster cremasteric arterioles involves both the Na+/K+-ATPase and inward-rectifier K+ channels. *Microcirculation*. 2004 ; 11(3): 279–293.
- 15 Capdevila M, Ruiz M, Ferrer C, Monllor F, Ludwick C, Garcia NH, Juncos LI. The efficiency of potassium removal during bicarbonate hemodialysis. *Hemodialysis International* 2005; 9; 296-302.
- 16 Celermajer DS, Sorensen KE, Bull C, Robinson J, Deanfield JE. Endothelium-dependent dilation in the systemic arteries of asymptomatic subjects relates to coronary risk factors and their interaction. *J Am Coll Cardiol*. 1994 Nov 15;24(6):1468-74.
- 17 Celermajer DS, Sorensen KE, Gooch VM, Spiegelhalter DJ, Miller OI, Sullivan ID, Lloyd JK, Deanfield JE. Non-invasive detection of endothelial dysfunction in children and adults at risk of atherosclerosis. *Lancet*. 1992 Nov 7;340(8828):1111-5.
- 18 Chadban SJ, Briganti EM, Kerr PG, Dunstan DW, Welborn TA, Zimmet PZ, Atkins RC. Prevalence of kidney damage in Australian adults: The AusDiab kidney study. *J Am Soc Nephrol*. 2003 Jul;14(7 Suppl 2):S131-8.

Literaturverzeichnis

- 19 Chen CH, Nevo E, Fetics B., Pak PH, Yin FC, Maughan WL, Kass DA. Estimation of central aortic pressure waveform by mathematical transformation of radial tonometry pressure: validation of generalized transfer function. *Circulation* 1997; 95: 1827-1836.
- 20 Chen KH, Chen SJ, Wu CC. Regulation of Na⁺-K⁺-ATPase in rat aortas: pharmacological and functional evidence. *Chin J Physiol.* 2005 Jun 30;48(2):86-92.
- 21 Chowienczyk PJ, Kelly RP, MacCallum H, Millasseau SC, Andersson TL, Gosling RG, Ritter JM, Anggård EE. Photoplethysmographic assessment of pulse wave reflection: blunted response to endothelium-dependent beta2-adrenergic vasodilation in type II diabetes mellitus. *J Am Coll Cardiol.* 1999 Dec;34(7):2007-14.
- 22 Chrikkobolis S, Ziogas J, Chu Y, Faraci FM, Sobey CG. Role of inwardly rectifying K(+) channels in K(+) -induced cerebral vasodilatation in vivo. *Am J Physiol Heart Circ Physiol.* 2000; 279: H2704-H2712
- 23 Clermont G, Lecour S, Lahet J, Siohan P, Vergely C, Chevet D, Rifle G, Rochette L. Alteration in plasma antioxidant capacities in chronic renal failure and hemodialysis patients: a possible explanation for the increased cardiovascular risk in these patients. *Cardiovasc Res.* 2000 Aug 18;47(3):618-23.
- 24 Coats P, Johnston F, MacDonald J, McMurray JJ, Hillier C. Endothelium-derived hyperpolarizing factor : identification and mechanisms of action in human subcutaneous resistance arteries. *Circulation.* 2001 Mar 27;103(12):1702-8.
- 25 Cohen DL, Townsend RR. Large and small artery compliance changes during hemodialysis. *Am J Hypertens.* 2002 Mar;15(3):236-9.
- 26 Cooke JP, Rossitch E Jr, Andon NA, Loscalzo J, Dzau VJ. Flow activates an endothelial potassium channel to release an endogenous nitrovasodilator. *J Clin Invest.* 1991 Nov;88(5):1663-71.
- 27 Coresh J, Astor BC, Greene T, Eknoyan G, Levey AS. Prevalence of chronic kidney disease and decreased kidney function in the adult US population: Third National Health and Nutrition Examination Survey. *Am J Kidney Dis.* 2003 Jan;41(1):1-12.
- 28 Corretti MC, Anderson TJ, Benjamin EJ, Celermajer D, Charbonneau F, Creager MA, Deanfield J, Drexler H, Gerhard-Herman M, Herrington D, Vallance P, Vita J, Vogel R; International Brachial Artery Reactivity Task Force. Guidelines for the ultrasound assessment of endothelial-dependent flow-mediated vasodilation of the brachial artery: a report of the International Brachial Artery Reactivity Task Force. *J Am Coll Cardiol.* 2002 Jan 16;39(2):257-65.
- 29 Corretti MC, Plotnick GD, Vogel RA. Technical aspects of evaluating brachial artery vasodilatation using high-frequency ultrasound. *Am J Physiol Heart Circ Physiol* 268: H1397-H1404, 1995;
- 30 Daugirdas JT. Simplified equations for monitoring Kt/V, PCRn, eKt/V, and ePCRn. *Adv Ren Replace Ther.* 1995 Oct;2(4):295-304.
- 31 Dawes M, Sieniawska C, Delves T, Dwivedi R, Chowienczyk PC, Ritter JM. Barium reduces resting blood flow and inhibits potassium-induced vasodilation in the human forearm. *Circulation* 2002;105:1323-1328
- 32 De Jongh S, Lilien MR, Bakker HD, Hutten BA, Kastelein JJ, Stroes ES. Family history of cardiovascular events and endothelial dysfunction in children with familial hypercholesterolemia. *Atherosclerosis.* 2002 Jul;163(1):193-7.
- 33 Dellegrottaglie S, Sanz J, Rajagopalan S. Vascular calcification in patients with chronic kidney disease. *Blood Purif.* 2006;24(1):56-62.
- 34 Dogra G, Irish A, Chan D, Watts G. Insulin resistance, inflammation, and blood pressure determine vascular dysfunction in CKD. *Am J Kidney Dis.* 2006 Dec;48(6):926-34.
- 35 Duprez DA, Cohn JN. Measuring endothelial dysfunction. *J Hypertens.* 2007 Jul;25(7):1513-4.
- 36 Duprez DA, Somasundaram PE, Sigurdsson G, Hoke L, Florea N, Cohn JN. Relationship between C-reactive protein and arterial stiffness in an asymptomatic population. *J Hum Hypertens.* 2005 Jul;19(7):515-9.
- 37 Eckman DM, Nelson MT. Potassium ions as vasodilators: role of inward rectifier potassium channels. *Circ Res.* 2001 Feb 2;88(2):132-3.

Literaturverzeichnis

- 38 Edwards FR, Hirst GDS, Silverberg GD. Inward rectification in rat cerebral arterioles; Involvement of potassium ions in autoregulation. *J Physiol London.* 1988; 404: 455–466
- 39 Edwards FR, Hirst GDS. Inward rectification in submucosal arterioles of guinea-pig ileum. *J Physiol London.* 1988; 404: 437–454
- 40 El Nahas AM, Bello AK. Chronic kidney disease: the global challenge. *Lancet* 2005; 365: 331–40
- 41 Emanuel DA, Scott JB, Haddy FJ. Effect of potassium on small and large blood vessels of the dog forelimb. *Am J Physiol* 197: 637-642, 1959
- 42 Finkelstein SM, Collins VR. Vascular Hemodynamic Impedance Measurement. *Progress in Cardiovascular Diseases*, Vol. XXIV, No. 5 (March/April), 1982
- 43 Foley RN, Murray AM, Li S, Herzog CA, McBean AM, Eggers PW, Collins AJ. Chronic kidney disease and the risk for cardiovascular disease, renal replacement, and death in the United States Medicare population, 1998 to 1999. *J Am Soc Nephrol.* 2005 Feb;16(2):489-95.
- 44 Frei U, Schober-Halstenberg HJ. Nierenersatztherapie in Deutschland. bericht über Dialysebehandlung und Nierentransplantation in Deutschland 2006/2007. *QuaSi Niere.*
- 45 Fried LF, Shlipak MG, Crump C, Bleyer AJ, Gottdiener JS, Kronmal RA, Kuller LH, Newman AB. Renal insufficiency as a predictor of cardiovascular outcomes and mortality in elderly individuals. *J Am Coll Cardiol.* 2003 Apr 16;41(8):1364-72.
- 46 Glasser SP, Arnett DK, McVeigh GE, Finkelstein SM, Bank AJ, Morgan DJ, Cohn JN. Vascular compliance and cardiovascular disease: a risk factor or a marker? *Am J Hypertens.* 1997 Oct;10(10 Pt 1):1175-89.
- 47 Go AS, Chertow GM, Fan D, McCulloch CE, Hsu CY. Chronic kidney disease and the risks of death, cardiovascular events, and hospitalization. *N Engl J Med.* 2004 Sep 23;351(13):1296-305.
- 48 Gokce N, Keaney JF Jr, Hunter LM, Watkins MT, Menzoian JO, Vita JA. Risk stratification for postoperative cardiovascular events via noninvasive assessment of endothelial function: a prospective study. *Circulation.* 2002 Apr 2;105(13):1567-72.
- 49 Gokce N, Keaney JF Jr, Hunter LM, Watkins MT, Nedeljkovic ZS, Menzoian JO, Vita JA. Predictive value of noninvasively determined endothelial dysfunction for long-term cardiovascular events in patients with peripheral vascular disease. *J Am Coll Cardiol.* 2003 May 21;41(10):1769-75.
- 50 Goldman JM, Petterson MT, Kopotic RJ, Barker SJ. Masimo signal extraction pulse oximetry. *J Clin Monit Comput.* 2000;16(7):475-83.
- 51 GraphPad Prism
- 52 Grey E, Bratteli C, Glasser SP, Alinder C, Finkelstein SM, Lindgren BR, Cohn JN. Reduced small artery but not large artery elasticity is an independent risk marker for cardiovascular events. *Am J Hypertens.* 2003 Apr;16(4):265-9.
- 53 Grote L, Zou D, Kraiczi H, Hedner J. Finger plethysmography--a method for monitoring finger blood flow during sleep disordered breathing. *Respir Physiol Neurobiol.* 2003 Jul 16;136(2-3):141-52.
- 54 Guérin AP, Blacher J, Pannier B, Marchais SJ, Safar ME, London GM. Impact of aortic stiffness attenuation on survival of patients in end-stage renal failure. *Circulation.* 2001 Feb 20;103(7):987-92.
- 55 Guérin AP, London GM, Marchais SJ, Metivier F. Arterial stiffening and vascular calcifications in end-stage renal disease. *Nephrol Dial Transplant.* 2000 Jul;15(7):1014-21.
- 56 Gusbeth-Tatomir P, Covic A. Causes and consequences of increased arterial stiffness in chronic kidney disease patients. *Kidney Blood Press Res.* 2007; 30: 97-107.
- 57 Haddy FJ. Potassium effects on contraction in arterial smooth muscle mediated by Na⁺, K⁺-ATPase. *Fed Proc.* 1983 Feb;42(2):239-45
- 58 Heguilén R, Sciurano A, Bellusci A, Fried P, Mittelman G, Diez G, Bernasconi A. The faster potassium-lowering effect of high dialysate bicarbonate concentrations in chronic haemodialysis patients. *Nephrology Dialysis Transplantation* 2005 20(3):591 – 597

Literaturverzeichnis

- 59 Higashi Y, Sasaki S, Nakagawa K, Matsuura H, Kajiyama G, Oshima T. A noninvasive measurement of reactive hyperemia that can be used to assess resistance artery endothelial function in humans. *Am J Cardiol.* 2001 Jan 1;87(1):121-5, A9.
- 60 Iseki K. The Okinawa Screening Program. *J Am Soc Nephrol* 14: S127–S130, 2003
- 61 Jadhav UM, Kadam NN. Non-invasive assessment of arterial stiffness by pulse-wave velocity correlates with endothelial dysfunction. *Indian Heart J.* 2005 May-Jun;57(3):226-32.
- 62 Jadhav UM, Kadam NN. Non-invasive assessment of arterial stiffness by pulse-wave velocity correlates with endothelial dysfunction. *Indian Heart J.* 2005 May-Jun;57(3):226-32.
- 63 Joannides R, Costentin A, Iacob M, Bakkali el-H, Richard MO, Thuillez C. Role of arterial smooth muscle tone and geometry in the regulation of peripheral conduit artery mechanics by shear stress. *Clin Exp Pharmacol Physiol.* 2001 Dec;28(12):1025-31.
- 64 Joannides R, Haefeli WE, Linder L, Richard V, Bakkali EH, Thuillez C, Lüscher TF. Nitric oxide is responsible for flow-dependent dilatation of human peripheral conduit arteries in vivo. *Circulation.* 1995 Mar 1;91(5):1314-9.
- 65 Juonala M, Viikari JS, Laitinen T, Marniemi J, Helenius H, Rönnemaa T, Raitakari OT. Interrelations between brachial endothelial function and carotid intima-media thickness in young adults: the cardiovascular risk in young Finns study. *Circulation.* 2004 Nov 2;110(18):2918-23. Epub 2004 Oct 25.
- 66 Juonala M, Viikari JS, Rönnemaa T, Helenius H, Taittonen L, Raitakari OT. Elevated blood pressure in adolescent boys predicts endothelial dysfunction: the cardiovascular risk in young Finns study. *Hypertension.* 2006 Sep;48(3):424-30.
- 67 Kelly RP, Millasseau SC, Ritter JM, Chowienczyk PJ. Vasoactive drugs influence aortic augmentation index independently of pulse-wave velocity in healthy men. *Hypertension.* 2001 Jun;37(6):1429-33.
- 68 Kim MY, Liang GH, Kim JA, Park SH, Hah JS, Suh SH. Contribution of Na⁺-K⁺ pump and KIR currents to extracellular pH-dependent changes of contractility in rat superior mesenteric artery. *Am J Physiol Heart Circ Physiol.* 2005 Aug;289(2):H792-800.
- 69 Klassen PS, Lowrie EG, Reddan DN, DeLong ER, Coladonato JA, Szczech LA, Lazarus JM, Owen WF Jr. Association between pulse pressure and mortality in patients undergoing maintenance hemodialysis. *JAMA.* 2002 Mar 27;287(12):1548-55.
- 70 Kneifel M, Scholze A, Burkert A, Offermann G, Rothermund L, Zidek W, Tepel M. renal allograft function is associated with increased arterial stiffness in renal transplant recipients. *Am J Transplant.* 2006 Jul;6(7):1624-30.
- 71 Knot HJ, Zimmermann PA, Nelson MT. Extracellular K(+)-induced hyperpolarizations and dilatations of rat coronary and cerebral arteries involve inward rectifier K(+) channels. *J Physiol.* 1996 Apr 15;492 (Pt 2):419-30.
- 72 Kosch M, Levers A, Barenbrock M, Matzkies F, Schaefer RM, Kisters K, Rahn KH, Hausberg M. Acute effects of haemodialysis on endothelial function and large artery elasticity. *Nephrol Dial Transplant.* 2001 Aug;16(8):1663-8. *Hypertension.* 2001 Jun;37(6):1429-33.
- 73 Kosch M, Levers A, Fobker M, Barenbrock M, Schaefer RM, Rahn KH, Hausberg M. Dialysis filter type determines the acute effect of haemodialysis on endothelial function and oxidative stress. *Nephrol Dial Transplant* 18: 1370–1375, 2003.
- 74 Kuvvin JT, Patel AR, Sliney KA, Pandian NG, Rand WM, Udelson JE, Karas RH. Peripheral vascular endothelial function testing as a noninvasive indicator of coronary artery disease. *J Am Coll Cardiol.* 2001 Dec;38(7):1843-9.
- 75 Leeson P, Thorne S, Donald A, Mullen M, Clarkson P, Deanfield J. Non-invasive measurement of endothelial function: effect on brachial artery dilatation of graded endothelial dependent and independent stimuli. *Heart* 1997;78:22-27
- 76 Levey AS, Coresh J, Balk E, Kausz AT, Levin A, Steffes MW, Hogg RJ, Perrone RD, Lau J, Eknoyan G; National Kidney Foundation. National Kidney Foundation practice guidelines for chronic kidney disease: evaluation, classification, and stratification. *Ann Intern Med.* 2003 Jul 15;139(2):137-47.

Literaturverzeichnis

- 77 Lockhart CJ, McVeigh GE, Cohn JN. Measuring endothelial function. *Curr Diab Rep.* 2006 Aug;6(4):267-73.
- 78 London GM, Blacher J, Pannier B, Guérin AP, Marchais SJ, Safar ME. Arterial wave reflections and survival in end-stage renal failure. *Hypertension.* 2001 Sep;38(3):434-8.
- 79 London GM, Guérin AP, Marchais SJ, Métivier F, Pannier B, Adda H. Arterial media calcification in end-stage renal disease: impact on all-cause and cardiovascular mortality. *Nephrol Dial Transplant* (2003) 18: 1731-1740
- 80 London GM, Pannier B, Agharazii M, Guerin AP, Verbeke FH, Marchais SJ. Forearm reactive hyperemia and mortality in end-stage renal disease. *Kidney Int.* 2004 Feb;65(2):700-4.
- 81 Lupattelli G, Marchesi S, Roscini AR, Siepi D, Gemelli F, Pirro M, Sinzinger H, Schillaci G, Mannarino E. Direct association between high-density lipoprotein cholesterol and endothelial function in hyperlipemia. *Am J Cardiol.* 2002 Sep 15;90(6):648-50.
- 82 Lysaght MJ. Maintenance Dialysis Population Dynamics: Current Trends and Long-Term Implications. *J Am Soc Nephrol* 13:S37-S40, 2002
- 83 Malberti F, Ravani P. The choice of the dialysate calcium concentration in the management of patients on haemodialysis and haemodiafiltration. *Nephrol Dial Transplant.* 2003 Aug;18 Suppl 7:vii37-40; discussion vii57. Review.
- 84 Manjunath G, Tighiouart H, Ibrahim H, MacLeod B, Salem DN, Griffith JL, Coresh J, Levey AS, Sarnak MJ. Level of kidney function as a risk factor for atherosclerotic cardiovascular outcomes in the community. *J Am Coll Cardiol.* 2003 Jan 1;41(1):47-55.
- 85 Mann JF, Gerstein HC, Dulau-Florea I, Lonn E. Cardiovascular risk in patients with mild renal insufficiency. *Kidney Int Suppl.* 2003 May;(84):S192-6.
- 86 Mann JF, Gerstein HC, Pogue J, Bosch J, Yusuf S. Renal insufficiency as a predictor of cardiovascular outcomes and the impact of ramipril: the HOPE randomized trial. *Ann Intern Med.* 2001 Apr 17;134(8):629-36.
- 87 Mann JF, Gerstein HC, Pogue J, Lonn E, Yusuf S. Cardiovascular risk in patients with early renal insufficiency: implications for the use of ACE inhibitors. *Am J Cardiovasc Drugs.* 2002;2(3):157-62.
- 88 Martin RS, Panese S, Virginillo M, Gimenez M, Litardo M, Arrizurieta E, Hayslett JP. Increased secretion of potassium in the rectum of humans with chronic renal failure. *Am J Kidney Dis.* 1986 Aug;8(2):105-10.
- 89 Masoudi FA, Plomondon ME, Magid DJ, Sales A, Rumsfeld JS. Renal insufficiency and mortality from acute coronary syndromes. *Am Heart J.* 2004 Apr;147(4):623-9.
- 90 Matsuo S, Matsumoto T, Takashima H, Ohira N, Yamane T, Yasuda Y, Tarutani Y, Horie M. The relationship between flow-mediated brachial artery vasodilation and coronary vasomotor responses to bradykinin: comparison with those to acetylcholine. *J Cardiovasc Pharmacol.* 2004 Aug;44(2):164-70.
- 91 McCarron JG, Halpern W. Potassium dilates rat cerebral arteries by two independent mechanisms. *Am J Physiol Heart Circ Physiol* 259: H902-H908, 1990
- 92 McIntyre CA, Buckley CH, Jones GC, Sandeep TC, Andrews RC, Elliott AI, Gray GA, Williams BC, McKnight JA, Walker BR, Hadoke PW. Endothelium-derived hyperpolarizing factor and potassium use different mechanisms to induce relaxation of human subcutaneous resistance arteries. *Br J Pharmacol.* 2001 Jul;133(6):902-8.
- 93 McVeigh GE, Allen PB, Morgan DR, Hanratty CG, Silke B. Nitric oxide modulation of blood vessel tone identified by arterial waveform analysis. *Clin Sci (Lond).* 2001 Apr;100(4):387-93.
- 94 McVeigh GE, Bratteli CW, Morgan DJ, Alinder CM, Glasser SP, Finkelstein SM, Cohn JN, 1999. Age-related abnormalities in arterial compliance identified by pressure pulse contour analysis: aging and arterial compliance. *Hypertension* 1999; 33: 1392-1398.
- 95 McVeigh GE, Morgan DR, Allen P, Trimble M, Hamilton P, Dixon LJ, Silke B, Hayes JR. Early vascular abnormalities and de novo nitrate tolerance in diabetes mellitus. *Diabetes, Obesity and Metabolism* 2002; 4 (5), 336–341.
- 96 McVeigh GE. Pulse Waveform Analysis and Arterial Wall Properties. *Hypertension.* 2003;41:1010.

Literaturverzeichnis

- 97 Merjanian R, Budoff M, Adler S, Berman N, Mehrotra R. Coronary artery, aortic wall, and valvular calcification in nondialyzed individuals with type 2 diabetes and renal disease. *Kidney Int.* 2003 Jul;64(1):263-71.
- 98 Millasseau SC, Kelly RP, Ritter JM, Chowienczyk PJ. Determination of age-related increases in large artery stiffness by digital pulse contour analysis. *Clin Sci (Lond).* 2002 Oct;103(4):371-7.
- 99 Millasseau SC, Kelly RP, Ritter JM, Chowienczyk PJ. The vascular impact of aging and vasoactive drugs: comparison of two digital volume pulse measurements. *Am J Hypertens.* 2003 Jun;16(6):467-72.
- 100 Millasseau SC, Ritter JM, Takazawa K, Chowienczyk PJ. Contour analysis of the photoplethysmographic pulse measured at the finger. *J Hypertens.* 2006 Aug;24(8):1449-56.
- 101 Miura H, Wachtel RE, Liu Y, Loberiza FR Jr, Saito T, Miura M, Guterman DD. Flow-induced dilation of human coronary arterioles: important role of Ca(2+)-activated K(+) channels. *Circulation.* 2001;103:1992-1998.
- 102 Miyazaki H, Matsuoka H, Itabe H, Usui M, Ueda S, Okuda S, Imaizumi T. Hemodialysis impairs endothelial function via oxidative stress: effects of vitamin E-coated dialyzer. *Circulation.* 2000 Mar 7;101(9):1002-6.
- 103 Moe SM, O'Neill KD, Fineberg N, Persohn S, Ahmed S, Garrett P, Meyer CA. Assessment of vascular calcification in ESRD patients using spiral CT. *Nephrol Dial Transplant.* 2003 Jun;18(6):1152-8.
- 104 Moe SM, O'Neill KD, Reslerova M, Fineberg N, Persohn S, Meyer CA. Natural history of vascular calcification in dialysis and transplant patients. *Nephrol Dial Transplant.* 2004 Sep;19(9):2387-93.
- 105 Morduchowicz G, Winkler J, Derazne E, Van Dyk DJ, Wittenberg C, Zabludowski JR, Shohat J, Rosenfeld JB, Boner G. Causes of death in patients with end-stage renal disease treated by dialysis in a center in Israel. *Isr J Med Sci.* 1992 Nov;28(11):776-9.
- 106 Morris ST, McMurray JJ, Rodger RS, Jardine AG. Impaired endothelium-dependent vasodilatation in uraemia. *Nephrol Dial Transplant.* 2000 Aug;15(8):1194-200.
- 107 Mourad A, Carney S, Gillies A, Jones B, Nanra R, Trevillian P. Acute effect of haemodialysis on arterial stiffness: membrane bioincompatibility? *Nephrol Dial Transplant.* 2004 Nov;19(11):2797-802.
- 108 Mourad A, Carney S, Gillies A, Jones B, Nanra R, Trevillian P. Acute effect of haemodialysis on arterial stiffness: membrane bioincompatibility? *Nephrol Dial Transplant.* 2004 Nov;19(11):2797-802.
- 109 Muntner P, He J, Hamm L, Loria C, Whelton PK. Renal insufficiency and subsequent death resulting from cardiovascular disease in the United States. *J Am Soc Nephrol.* 2002 Mar;13(3):745-53.
- 110 Nabel EG, Selwyn AP, Ganz P. Large coronary arteries in humans are responsive to changing blood flow: an endothelium-dependent mechanism that fails in patients with atherosclerosis. *J Am Coll Cardiol.* 1990 Aug;16(2):349-56.
- 111 Nelli S, Wilson WS, Laidlaw H, Llano A, Middleton S, Price AG, Martin W. Evaluation of potassium ion as the endothelium-derived hyperpolarizing factor (EDHF) in the bovine coronary artery. *Br J Pharmacol.* 2003 Jul;139(5):982-8.
- 112 Nelli S, Wilson WS, Laidlaw H, Llano A, Middleton S, Price AG, Martin W. Evaluation of potassium ion as the endothelium-derived hyperpolarizing factor (EDHF) in the bovine coronary artery. *Br J Pharmacol.* 2003; 139: 982-988
- 113 Nelson MT, Quayle JM. Physiological roles and properties of potassium channels in arterial smooth muscle. *Am J Physiol Cell Physiol* 268: C799-C822, 1995
- 114 O'Rourke MF, Adji A. An updated clinical primer on large artery mechanics: implications of pulse waveform analysis and arterial tonometry. *Curr Opin Cardiol* (2005) 20: 275-281
- 115 Owen Jr. W.F.: et al: The urea reduction ratio and Serum albumin concentration as predictors of mortality in patients undergoing hemodialysis. *NEW ENGL.J.MED* 329: 1001 (1993)

Literaturverzeichnis

- 116 Pannier B, Guérin AP, Marchais SJ, Safar ME, London GM. Stiffness of capacitive and conduit arteries: prognostic significance for end-stage renal disease patients. *Hypertension*. 2005 Apr;45(4):592-6.
- 117 Parker III T.F.: Role of dialysis dose on morbidity in maintenance hemodialysis patients. AM. J. KIDNEY DIS 24 : 981 (1994)
- 118 Parvathaneni L, Harp J, Zelinger A, Silver MA. Relation between brachial artery reactivity and noninvasive large and small arterial compliance in healthy volunteers. *Am J Cardiol*. 2002 Apr 1;89(7):894-5.
- 119 Perazella MA. Drug-induced hyperkalemia: Old culprits and new offenders. *Am J Med*. 2000; 109: 307-314.
- 120 Pohl U, Holtz J, Busse R, Bassenge E. Crucial role of endothelium in the vasodilator response to increased flow in vivo. *Hypertension*. 1986 Jan;8(1):37-44.
- 121 Quayle JM, Dart C, Standen NB. The properties and distribution of inward rectifier potassium currents in pig coronary arterial smooth muscle. *J Physiol London*. 1996; 494: 715-726
- 122 Quayle JM, Mccarron JG, Brayden JE, Nelson MT. Inward rectifier K⁺ currents in smooth muscle cells from rat resistance-sized cerebral arteries. *Am J Physiol*. 1993; 265: C1363-C1370
- 123 Quayle JM, Nelson MT, Standen NB. ATP-sensitive and inwardly rectifying potassium channels in smooth muscle. *Physiol. Rev.* 77: 1165-1232, 1997
- 124 Quignard JF, Harley EA, Duhault J, Vanhoutte PM, Feletou M. K⁺ channels in cultured bovine retinal pericytes: effects of beta-adrenergic stimulation. *J Cardiovasc Pharmacol*. 2003 Sep;42(3):379-88.
- 125 Raij L, Lüscher TF, Vanhoutte PM. High potassium diet augments endothelium-dependent relaxations in the Dahl rat. *Hypertension*. 1988 Dec;12(6):562-7.
- 126 Rawcett, T. ROC graphs: Notes and practical considerations for researchers. March 2004
- 127 Redaelli B, Limido D, Beretta P, Vigano MR. Hemodialysis using a constant potassium gradient: rationale of a multicenter study. *Int H Artif Organs*. 1995 Nov; 18 (11): 731-4
- 128 Resnick LM, Militianu D, Cummings AJ, Pipe JG, Evelhoch JL, Soulen RL, Lester MA. Pulse waveform analysis of arterial compliance: relation to other techniques, age, and metabolic variables. *Am J Hypertens*. 2000 Dec;13(12):1243-9.
- 129 Rietzschel ER, Boeykens E, De Buyzere ML, Duprez DA, Clement DL. A comparison between systolic and diastolic pulse contour analysis in the evaluation of arterial stiffness. *Hypertension*. 2001;37:15-22.
- 130 Ritz E. Minor renal dysfunction: an emerging independent cardiovascular risk factor. *Heart*. 2003 Sep;89(9):963-4.
- 131 Rivers RJ, Hein TW, Zhang C, Kuo L. Activation of barium-sensitive inward rectifier potassium channels mediates remote dilation of coronary arterioles. *Circulation*. 2001; 104: 1749–1753
- 132 Robertson BE, Bonev AD, Nelson MT. Inward rectifier K⁺ currents in smooth muscle cells from rat coronary arteries: block by Mg²⁺, Ca²⁺, and Ba²⁺. *Am J Physiol*. 1996 Aug;271(2 Pt 2):H696-705
- 133 Ruilope LM, van Veldhuisen DJ, Ritz E, Luscher TF. Renal function: the Cinderella of cardiovascular risk profile. *J Am Coll Cardiol*. 2001 Dec;38(7):1782-7.
- 134 Sachs L, Angewandte Statistik, Springer Verlag.
- 135 Sarnak MJ, Levey AS, Schoolwerth AC, Coresh J, Culleton B, Hamm LL, McCullough PA, Kasiske BL, Kelepouris E, Klag MJ, Parfrey P, Pfeffer M, Raij L, Spinosa DJ, Wilson PW; American Heart Association Councils on Kidney in Cardiovascular Disease, High Blood Pressure Research, Clinical Cardiology, and Epidemiology and Prevention. Kidney disease as a risk factor for development of cardiovascular disease: a statement from the American Heart Association Councils on Kidney in Cardiovascular Disease, High Blood Pressure Research, Clinical Cardiology, and Epidemiology and Prevention. *Hypertension*. 2003 Nov;42(5):1050-65.

Literaturverzeichnis

- 136 Savage D, Perkins J, Hong Lim C, Bund SJ. Functional evidence that K⁺ is the non-nitric oxide, non-prostanoid endothelium-derived relaxing factor in rat femoral arteries. *Vascul Pharmacol.* 2003 Jan;40(1):23-8.
- 137 Savage MT, Ferro CJ, Pinder SJ, Tomson CR. Reproducibility of derived central arterial waveforms in patients with chronic renal failure. *Clin Sci (Lond).* 2002 Jul;103(1):59-65.
- 138 Schächinger V, Britten MB, Zeiher AM. Prognostic impact of coronary vasodilator dysfunction on adverse long-term outcome of coronary heart disease. *Circulation.* 2000 Apr 25;101(16):1899-906.
- 139 Schmidt RJ, Baylis C. Total nitric oxide production is low in patients with chronic renal disease. *Kidney Int.* 2000 Sep;58(3):1261-6.
- 140 Scholze A, Burkert A, Mardanzai K, Suvd-Erdene S, Hausberg M, Zidek W, Tepel M. Increased arterial vascular tone during the night in patients with essential hypertension. *J Hum Hypertens.* 2007, Jan;21(1):60-7.
- 141 Scholze A, Maier A, Stocks F, Karamohamad F, Vetter R, Zidek W, Tepel M. Sustained increase of extracellular calcium concentration causes arterial vasoconstriction in humans. *J Hypertens.* 2005 Nov;23(11):2049-54.
- 142 Schwarz U, Buzello M, Ritz E, Stein G, Raabe G, Wiest G, Mall G, Amann K. Morphology of coronary atherosclerotic lesions in patients with end-stage renal failure. *Nephrol Dial Transplant.* 2000 Feb;15(2):218-23.
- 143 Scott J, Emanuel D, Haddy F. Effect of potassium on renal vascular resistance and urine flow rate. *Am J Physiol.* 1959 Aug;197:305-8.
- 144 Shlipak MG, Simon JA, Grady D, Lin F, Wenger NK, Furberg CD; Heart and Estrogen/progestin Replacement Study (HERS) Investigators. Renal insufficiency and cardiovascular events in postmenopausal women with coronary heart disease. *J Am Coll Cardiol.* 2001 Sep;38(3):705-11.
- 145 Sigrist M, Bungay P, Taal MW, McIntyre CW. Vascular calcification and cardiovascular function in chronic kidney disease. *Nephrol Dial Transplant.* 2006 Mar;21(3):707-14.
- 146 Silber HA, Bluemke DA, Ouyang P, Du YP, Post WS, Lima JA. The relationship between vascular wall shear stress and flow-mediated dilation: endothelial function assessed by phase-contrast magnetic resonance angiography. *J Am Coll Cardiol.* 2001 Dec;38(7):1859-65.
- 147 Sorensen KE, Celermajer DS, Spiegelhalter DJ, Georgakopoulos D, Robinson J, Thomas O, Deanfield JE. Non-invasive measurement of human endothelium dependent arterial responses: accuracy and reproducibility. *Br Heart J.* 1995 Sep;74(3):247-53.
- 148 Stewart AD, Millasseau SC, Kearney MT, Ritter JM, Chowienczyk PJ. Effects of Inhibition of Basal Nitric Oxide Synthesis on Carotid-Femoral Pulse Wave Velocity and Augmentation Index in Humans. *Hypertension.* 2003 Nov;42(5):915-8. Epub 2003 Sep 15.
- 149 Sun D, Huang A, Smith CJ, Stackpole CJ, Connetta JA, Shesely EG, Koller A, Kaley G. Enhanced release of prostaglandins contributes to flow-induced arteriolar dilation in eNOS knockout mice. *Circ Res.* 1999 Aug 6;85(3):288-93.
- 150 Suwaidi JA, Hamasaki S, Higano ST, Nishimura RA, Holmes DR Jr, Lerman A. Long-term follow-up of patients with mild coronary artery disease and endothelial dysfunction. *Circulation.* 2000 Mar 7;101(9):948-54.
- 151 Takazawa K, Tanaka N, Fujita M, Matsuoka O, Saiki T, Aikawa M, Tamura S, Ibukiyama C. Assessment of Vasoactive Agents and Vascular Aging by the Second Derivative of Photoplethysmogram Waveform. *Hypertension.* 1998 Aug;32(2):365-70.
- 152 Tamashiro M, Iseki K, Sunagawa O, Inoue T, Higa S, Afuso H, Fukiyama K. Significant association between the progression of coronary artery calcification and dyslipidemia in patients on chronic hemodialysis. *Am J Kidney Dis.* 2001 Jul;38(1):64-9.
- 153 Tao J, Wang Y, Yang Z, Tu C, Xu MG, Wang JM. Circulating endothelial progenitor cell deficiency contributes to impaired arterial elasticity in persons of advancing age. *J Hum Hypertens.* 2006 Jul;20(7):490-5.

Literaturverzeichnis

- 154 Tarng DC, Huang TP, Liu TY, Chen HW, Sung YJ, Wei YH. Effect of vitamin E-bonded membrane on the 8-hydroxy 2'-deoxyguanosine level in leukocyte DNA of hemodialysis patients. *Kidney Int.* 2000 Aug;58(2):790-9.
- 155 Tepel M, Echelmeyer M, Orie NN, Zidek W. Increased intracellular reactive oxygen species in patients with end-stage renal failure: effect of hemodialysis. *Kidney Int.* 2000 Aug;58(2):867-72. *Kidney International* (2000) 58, 867–872.
- 156 Teragawa H, Ueda K, Matsuda K, Kimura M, Higashi Y, Oshima T, Yoshizumi M, Chayama K. Relationship between endothelial function in the coronary and brachial arteries. *Clin Cardiol.* 2005 Oct;28(10):460-6.
- 157 The Bayes Library of Diagnostic Studies and Reviews, 2nd edition 2002
- 158 Toussaint ND, Lau KK, Strauss BJ, Polkinghorne KR, Kerr PG. Relationship between vascular calcification, arterial stiffness and bone mineral density in a cross-sectional study of prevalent Australian haemodialysis patients. *Nephrology (Carlton)*. 2008 Jan 20.
- 159 Tzamaloukas AH, Avasthi PS. Temporal profile of serum potassium concentration in nondiabetic and diabetic outpatients on chronic dialysis. *Am J Nephrol.* 1987;7(2):101-9.
- 160 Vanhoutte PM, Verbeuren TJ, Webb RC. Local Modulation of adrenergic neuroeffector interaction in the blood vessel wall. *Physiological reviews*, Vol 61, No. 1, January 1981
- 161 Verbeke FH, Agharazii M, Boutouyrie P, Pannier B, Guérin AP, London GM. Local shear stress and brachial artery functions in end-stage renal disease. *J Am Soc Nephrol.* 2007 Feb;18(2):621-8. Epub 2007 Jan 3.
- 162 Verhaeghe RH, Lorenze RR, McGrath MA, Shepherd JT, Vanhoutte PM. Metabolic modulation of neurotransmitter release--adenosine, adenine nucleotides, potassium, hyperosmolarity, and hydrogen ion. *Fed Proc.* 1978 Feb;37(2):208-11.
- 163 Wang MC, Tsai WC, Chen JY, Huang JJ. Stepwise increase in arterial stiffness corresponding with the stages of chronic kidney disease. *Am J Kidney Dis.* 2005 Mar;45(3):494-501.
- 164 Ward RA, McLeish KR. Oxidant stress in hemodialysis patients: what are the determining factors? *Artif Organs.* 2003 Mar;27(3):230-6.
- 165 Weinberger MH, Fineberg NS, Fineberg SE. The influence of blood pressure and carbohydrate tolerance on vascular compliance in humans. *Am J Hypertens.* 2002 Aug;15(8):678-82.
- 166 Westhoff TH, Schmidt S, Vallbracht-Israng K, Yildirim H, Franke N, Dimeo F, Zidek W, van der Giet M. Small artery elasticity assessed by pulse wave analysis is no measure of endothelial dysfunction. *J Hypertens.* 2007 Mar;25(3):571-6.
- 167 Xue JL, Ma JZ, Louis TA, Collins AJ. Forecast of the number of patients with end-stage renal disease in the United States to the year 2010. *J Am Soc Nephrol.* 2001 Dec;12(12):2753-8.
- 168 Yoo SJ, Oh DJ, Yu SH. The effects of low calcium dialysate on arterial compliance and vasoactive substances in patients with hemodialysis. *Korean J Intern Med.* 2004 Mar;19(1):27-32.
- 169 Zaritsky JJ, Eckman DM, Wellman GC, Nelson MT, Schwarz TL. Targeted disruption of Kir2.1 and Kir2.2 genes reveals the essential role of the inwardly rectifying K(+) current in K(+) -mediated vasodilation. *Circ Res.* 2000; 87: 160–166