

## Βιβλιογραφία - References

- Altbandar, J. M., Brunelle, J. A. & Kingman, A. (1999) Destructive periodontal disease in adults 30 years of age and older in the United States, 1988-1994. *Journal of Periodontology* **70**, 13-29.
- Anderson, K. M., Odell, P. M., Wilson, P. W. & Kannel, W. B. (1991) Cardiovascular disease risk profiles. *American Heart Journal* **121**, 293-298.
- Anding, K., Gross, P., Rost, J. M., Allgaier, D. & Jacobs, E. (2003) The influence of uraemia and haemodialysis on neutrophil phagocytosis and antimicrobial killing. *Nephrology, Dialysis, Transplantation* **18**, 2067-2073.
- Ando, M., Lundkvist, I., Bergström, J. & Lindholm, B. (1996) Enhanced scavenger receptor expression in monocyte-macrophages in dialysis patients. *Kidney International* **49**, 773-780.
- Ando, M., Shibuya, A., Tsuchiya, K., Akiba, T. & Nitta, K. (2006) Reduced expression of Toll-like receptor 4 contributes to impaired cytokine response of monocytes in uremic patients. *Kidney International* **70**, 358-362.
- Ando, M., Shibuya, A., Yasuda, M., Azuma, N., Tsuchiya, K., Akiba, T. & Nitta, K. (2005) Impairment of innate cellular response to in vitro stimuli in patients on continuous ambulatory peritoneal dialysis. *Nephrology, Dialysis, Transplantation* **20**, 2497-2503.
- Arici, M. & Walls, J. (2001) End-stage renal disease, atherosclerosis, and cardiovascular mortality: is C-reactive protein the missing link? *Kidney International* **59**, 407-414.
- Bayraktar, G., Kurtulus, I., Kazancioglu, R., Bayramgurler, I., Cintan, S., Bural, C., Bozfakioglu, S., Besler, M., Trablus, S. Issever, H. & Yildiz, A. (2008) Evaluation of periodontal parameters in patients undergoing peritoneal dialysis or hemodialysis. *Oral Diseases* **14**, 185-189.
- Beck, J. D., Elter, J. R., Heiss, G., Couper, D., Mauriello, S. M., Offenbacher, S. (2001) Relationship of periodontal disease to carotid artery intima-media wall thickness: the atherosclerosis risk in communities (ARIC) study. *Arteriosclerosis, Thrombosis and Vascular Biology* **21**, 1816-1822.
- Bergström, J. (1995) Nutrition and mortality in hemodialysis. *Journal of the American Society of Nephrology* **6**, 1329-1341.
- Borawski, J., Wilczyńska-Borawska, M., Stokowska, W. & Myśliwiec, M. (2007) The periodontal status of pre-dialysis chronic kidney disease and maintenance dialysis patients. *Nephrology, Dialysis, Transplantation* **22**, 457-464.
- Bots, C. P., Poorterman, J. H., Brand, H. S., Kalsbeek, H., van Amerongen, B. M., Veerman, E. C. & Nieuw Amerongen, A. V. (2006) The oral health status of dentate patients with chronic renal failure undergoing dialysis therapy. *Oral Diseases* **12**, 176-180.
- Brockhaus, M., Bar-Khayim, Y., Gurwicz, S., Frensdorff, A. & Haran, N. (1992) Plasma tumor necrosis factor soluble receptors in chronic renal failure. *Kidney International* **42**, 663-667.
- Buhlin, K., Bárány, P., Heimbürger, O., Stenvinkel, P. & Gustafsson, A. (2007) Oral health and pro-inflammatory status in end-stage renal disease patients. *Oral Health & Preventive Dentistry* **5**, 235-244.
- Castillo, A., Mesa, F., Liébana, J., García-Martínez, O., Ruiz, S., García-Valdecasas, J. & O'Valle, F. (2007) Periodontal and oral microbiological status of an adult population undergoing haemodialysis: a cross-sectional study. *Oral Diseases* **13**, 198-205.
- Cendoroglo, M., Jaber, B. L., Balakrishnan, V. S., Perianayagam, M., King, A. J. & Pereira, B. J. (1999) Neutrophil apoptosis and dysfunction in uremia. *Journal of the American Society of Nephrology* **10**, 93-100.
- Cengiz, M. I., Bal, S., Gökçay, S. & Cengiz, K. (2007) Does periodontal disease reflect atherosclerosis in continuous ambulatory peritoneal dialysis patients? *Journal of Periodontology* **78**, 1926-1934.
- Chen LP, Chiang CK, Chan CP, Hung KY, Huang CS (2006) Does periodontitis reflect inflammation and malnutrition status in hemodialysis patients? *American Journal of Kidney Diseases* **47**, 815-822.
- Chuang, S. F., Sung, J. M., Kuo, S. C., Huang, J. J. & Lee, S. Y. (2005) Oral and dental manifestations in diabetic and nondiabetic uremic patients receiving hemodialysis. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology & Endodontics* **99**, 689-695.
- Cohen, M. S., Leong, P. A. & Simpson, D. M. Phagocytic cells in periodontal defense. Periodontal status of patients with chronic granulomatous disease of childhood. *Journal of Periodontology* **56**, 611-617.
- Coresh, J., Selvin, E., Stevens, L. A., Manzi, J., Kusek, J. W., Eggers, P., Van Lente, F. & Levey, A. S. (2007) Prevalence of chronic kidney disease in the United States. *The Journal of the American Medical Association* **298**, 2038-2047.
- Dongari-Bagtzoglou, A. I. & Ebersole, J. L. (1998) Increased presence of interleukin-6 (IL-6) and IL-8 secreting fibroblast subpopulations in adult periodontitis. *Journal of Periodontology* **69**, 899-910.
- Duran, I. & Erdemir, E. O. (2004) Periodontal treatment needs of patients with renal disease receiving haemodialysis. *International Dental Journal* **54**, 274-278.
- Ebersole, J. L., Machen, R. L., Steffen, M. J. & Willmann, D. E. (1997) Systemic acute-phase reactants, C-reactive protein and haptoglobin, in adult periodontitis. *Clinical and Experimental Immunology* **107**, 347-352.
- Eknoyan, G. & Agodoa, L. (2002) On improving outcomes and quality of dialysis care, and more. *American Journal of Kidney Diseases* **39**, 889-891.
- Eleftheriadis, T., Antoniadi, G., Liakopoulos, V., Kartsios, C. & Stefanidis, I. (2007) Disturbances of acquired immunity in hemodialysis patients. *Seminars in Dialysis* **20**, 440-451.
- Fisher, M. A., Taylor, G. W., Papapanou, P. N., Rahman, M. & Debanne, S. M. (2008a) Clinical and serologic markers of periodontal infection and chronic kidney disease. *Journal of Periodontology* **79**, 1670-1678.
- Fisher, M. A., Taylor, G. W., Shelton, B. J., Jamerson, K. A., Rahman, M., Ojo A.O. & Sehgal, A. R. (2008b) Periodontal disease and other nontraditional risk factors for CKD. *American Journal of Kidney Diseases* **51**, 45-52.
- Flemmig, T. F. (1999) Periodontitis. *Annals of Periodontology* **4**, 32-38.
- Franek, E., Blaschkyk, R., Kolonko, A., Mazur-Psonka, L., Łangowska-Adamczyk, H., Kokot, F. & Wiecek, A. (2006) Chronic periodontitis in hemodialysis patients with chronic kidney disease is associated with elevated serum C-reactive protein concentration and greater intima-media thickness of the carotid artery. *Journal of Nephrology* **19**, 346-351.
- Gavaldá, C., Bagán, J., Scully, C., Silvestre, F., Milián, M. & Jiménez, Y. (1999) Renal hemodialysis patients: oral, salivary, dental and periodontal findings in 105 adult cases. *Oral Diseases* **5**, 299-302.
- Girndt, M., Sester, U., Kaul, H. & Kohler, H. (1998) Production

- of proinflammatory and regulatory monokines in hemodialysis patients shown at a single-cell level. *Journal of the American Society of Nephrology* **9**, 1689-1696.
- Go, A. S., Chertow, G. M., Fan, D., McCulloch, C. E. & Hsu, C. Y. (2004) Chronic kidney disease and the risks of death, cardiovascular events, and hospitalization. *The New England Journal of Medicine* **351**, 1296-1305.
- Herbelin, A., Ureña, P., Nguyen, A. T., Zingraff, J. & Descamps-Latscha, B. (1991) Elevated circulating levels of interleukin-6 in patients with chronic renal failure. *Kidney International* **39**, 954-960.
- Himmelfarb, J., Stenvinkel, P., Ikizler, T. A. & Hakim, R. M. (2002) The elephant in uremia: oxidant stress as a unifying concept of cardiovascular disease in uremia. *Kidney International* **62**, 1524-1538.
- Hricik, D. E., Schulak, J. A., Sell, D. R., Fogarty, J. F. & Monnier, V. M. (1993) Effects of kidney or kidney-pancreas transplantation on plasma pentosidine. *Kidney International* **43**, 398-403.
- Hung, H. C., Willett, W., Merchant, A., Rosner, B. A., Ascherio, A. & Joshipura, K. J. (2003) Oral health and peripheral arterial disease. *Circulation* **107**, 1152-1157.
- Ioannidou, E., Kao, D., Chang, N., Burlison, J. & Dongari-Bagtzoglou, A. (2006) Elevated serum interleukin-6 (IL-6) in solid-organ transplant recipients is positively associated with tissue destruction and IL-6 gene expression in the periodontium. *Journal of Periodontology* **77**, 1871-1878.
- Jankowski, V., Vanholder, R., Henning, L., Karadogan, S., Zidek, W., Schlüter, H. & Jankowski, J. (2005) Isolation and quantification of dinucleoside polyphosphates by using monolithic reversed phase chromatography columns. *Journal of Chromatography. B, Analytical Technologies in the Biomedical and Life Sciences* **819**, 131-139.
- Joshipura, K. J., Hung, H. C., Rimm, E. B., Willett, W. C., Ascherio, A. (2003) Periodontal disease, tooth loss, and incidence of ischemic stroke. *Stroke* **34**, 47-52.
- Kalantar-Zadeh, K., Ikizler, T. A., Block, G., Avram, M. M. & Kopple, J. D. (2003) Malnutrition-inflammation complex syndrome in dialysis patients: causes and consequences. *American Journal of Kidney Diseases* **42**, 864-881.
- Kato, S., Chmielewski, M., Honda, H., Pecoits-Filho, R., Matsuo, S., Yuzawa, Y., Tranaeus, A., Stenvinkel, P. & Lindholm, B. (2008) Aspects of immune dysfunction in end-stage renal disease. *Clinical Journal of the American Society of Nephrology* **3**, 1526-1533.
- Kshirsagar, A. V., Craig, R. G., Beck, J. D., Moss, K., Offenbacher, S., Kotanko, P., Yoshino, M., Levin, N. W., Yip, J. K., Almas, K., Lupovici, E. & Falk, R. J. (2007a) Severe periodontitis is associated with low serum albumin among patients on maintenance hemodialysis therapy. *Clinical Journal of the American Society of Nephrology* **2**, 239-244.
- Kshirsagar, A. V., Craig, R. G., Moss, K. L., Beck, J. D., Offenbacher, S., Kotanko, P., Klemmer, P. J., Yoshino, M., Levin, N. W., Yip, J. K., Almas, K., Lupovici, E. M., Usvyat, L. A. & Falk, R. J. (2009) Periodontal disease adversely affects the survival of patients with end-stage renal disease. *Kidney International* **75**, 746-751.
- Kshirsagar, A. V., Moss, K. L., Elter, J. R., Beck, J. D., Offenbacher, S. & Falk, R. J. (2005) Periodontal disease is associated with renal insufficiency in the Atherosclerosis Risk In Communities (ARIC) study. *American Journal of Kidney Diseases* **45**, 650-657.
- Kshirsagar, A. V., Offenbacher, S., Moss, K. L., Barros, S. P. & Beck, J. D. (2007b) Antibodies to periodontal organisms are associated with decreased kidney function. The Dental Atherosclerosis Risk In Communities study. *Blood Purification* **25**, 125-132.
- Levey, A. S., Eckardt, K. U., Tsukamoto, Y., Levin, A., Coresh, J., Rossert, J., De Zeeuw, D., Hostetter, T. H., Lameire, N. & Eknoyan, G. (2005) Definition and classification of chronic kidney disease: a position statement from Kidney Disease: Improving Global Outcomes (KDIGO). *Kidney International* **67**, 2089-2100.
- Li, J. J., Dickson, D., Hof, P. R., Vlassara, H. (1998) Receptors for advanced glycosylation endproducts in human brain: role in brain homeostasis. *Molecular Medicine* **4**, 46-60.
- Longenecker, J. C., Coresh, J., Powe, N. R., Levey, A. S., Fink, N. E., Martin, A. & Klag, M. J. (2002) Traditional cardiovascular disease risk factors in dialysis patients compared with the general population: the CHOICE Study. *Journal of the American Society of Nephrology* **13**, 1918-1927.
- Marakoglu, I., GURSOY, U. K., DEMIRER, S. & SEZER, H. (2003) Periodontal status of chronic renal failure patients receiving hemodialysis. *Yonsei Medical Journal* **44**, 648-652.
- Memoli, B., Postiglione, L., Cianciaruso, B., Bisesti, V., Cimmaruta, C., Marzano, L., Minutolo, R., Cuomo, V., Guida, B., Andreucci, M. & Rossi, G. (2000) Role of different dialysis membranes in the release of interleukin-6-soluble receptor in uremic patients. *Kidney International* **58**, 417-424.
- Menon, V., Wang, X., Greene, T., Beck, G. J., Kusek, J. W., Marcovina, S. M., Levey, A. S. & Sarnak, M. J. (2003) Relationship between C-reactive protein, albumin, and cardiovascular disease in patients with chronic kidney disease. *American Journal of Kidney Diseases* **42**, 44-52.
- Meuer, S. C., Hauer, M., Kurz, P., Meyer zum Büschenfelde, K. H. & Köhler, H. (1987) Selective blockade of the antigen-receptor-mediated pathway of T cell activation in patients with impaired primary immune responses. *The Journal of Clinical Investigation* **80**, 743-749.
- National Kidney Foundation (2002) K/DOQI Clinical Practice Guidelines for Chronic Kidney Disease: Evaluation, Classification and Stratification. *American Journal of Kidney Diseases* **39** (Suppl. 1), S1-S266.
- Naugle, K., Darby, M. L., Bauman, D. B., Lineberger, L. T. & Powers, R. (1998) The oral health status of individuals on renal dialysis. *Annals of Periodontology* **3**, 197-205.
- Rao, M., Guo, D., Perianayagam, M. C., Tighiouart, H., Jaber, B. L., Pereira, B. J., Balakrishnan, V. S. (2005) Plasma interleukin-6 predicts cardiovascular mortality in hemodialysis patients. *American Journal of Kidney Diseases* **45**, 324-333.
- Sarnak, M. J., Levey, A. S., Schoolwerth, A. C., Coresh, J., Culleton, B., Hamm, L. L., McCullough, P. A., Kasiske, B. L., Kelepouris, E., Klag, M. J., Parfrey, P., Pfeffer, M., Raij, L., Spinosa, D. J. & Wilson, P. W. (2003) 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. *Circulation* **108**, 2154-2169.
- Satomura, A., Endo, M., Fujita, T., Ohi, H., Ohsawa, I., Fuke, Y., Matsumoto, K., Sudo, S., Matsushita, M. & Fujita, T. (2006) Serum mannose-binding lectin levels in maintenance hemodialysis patients: impact on all-cause mortality. *Nephron Clinical Practice* **102**, c93-99.
- Schepers, E., Meert, N., Glorieux, G., Goeman, J., Van der Eycken, J. & Vanholder, R. (2007) P-cresylsulphate, the main in vivo metabolite of p-cresol, activates leucocyte free radical production. *Nephrology, Dialysis, Transplantation* **22**, 592-

- 596.
- Scheutz, F., Matee, M. I., Andsager, L., Holm, A. M., Moshi, J., Kagoma, C. & Mpemba, N. (1997) Is there an association between periodontal condition and HIV infection? *Journal of Clinical Periodontology* **24**, 580-587.
- Schwedler, S., Schinzel, R., Vaith, P. & Wanner, C. (2001) Inflammation and advanced glycation end products in uremia: simple coexistence, potentiation or causal relationship? *Kidney International. Supplement* **78**, S32-36.
- Sela, S., Shurtz-Swirski, R., Cohen-Mazor, M., Mazor, R., Chezar, J., Shapiro, G., Hassan, K., Shkolnik, G., Geron, R. & Kristal, B. (2005) Primed peripheral polymorphonuclear leukocyte: a culprit underlying chronic low-grade inflammation and systemic oxidative stress in chronic kidney disease. *Journal of the American Society of Nephrology* **16**, 2431-2438.
- Shultis, W. A., Weil, E. J., Looker, H. C., Curtis, J. M., Shlossman, M., Genco, R. J., Knowler, W. C. & Nelson, R. G. (2007) Effect of periodontitis on overt nephropathy and end-stage renal disease in type 2 diabetes. *Diabetes Care* **30**, 306-311.
- Sobrado-Marinho, J. S., Tomás-Carmona, I., Loureiro, A., Limeres-Posse, J., García-Caballero, L. & Diz-Dios, P. (2007) Oral health status in patients with moderate-severe and terminal renal failure. *Medicina Oral, Patologia Oral y Cirugia Bucal* **12**, e305-310.
- Stachowski, J., Pollok, M., Burrichter, H., Spithaler, C. & Baldamus, C. A. (1993) Signalling via the TCR/CD3 antigen receptor complex in uremia is limited by the receptors number. *Nephron* **64**, 369-375.
- Stenvinkel, P., Lindholm, B. & Heimbürger, O. (2000) New strategies for management of malnutrition in peritoneal dialysis patients. *Peritoneal Dialysis International* **20**, 271-275.
- Stenvinkel, P. (2002) Inflammation in end-stage renal failure: could it be treated? *Nephrology, Dialysis, Transplantation* **17** (Suppl. 8), 33-38.
- Stenvinkel, P. & Alvestrand, A. (2002) Inflammation in end-stage renal disease: sources, consequences, and therapy. *Seminars in Dialysis* **15**, 329-337.
- Stenvinkel, P., Barany, P., Heimbürger, O., Pecoits-Filho, R. & Lindholm, B. (2002a) Mortality, malnutrition, and atherosclerosis in ESRD: what is the role of interleukin-6? *Kidney International. Supplement* **80**, 103-108.
- Stenvinkel, P., Heimbürger, O. & Jogestrand, T. (2002b) Elevated interleukin-6 predicts progressive carotid artery atherosclerosis in dialysis patients: association with Chlamydia pneumoniae seropositivity. *American Journal of Kidney Diseases* **39**, 274-282.
- Stuveling, E. M., Hillege, H. L., Bakker, S. J., Gans, R. O., De Jong, P. E. & De Zeeuw, D. (2003) C-reactive protein is associated with renal function abnormalities in a non-diabetic population. *Kidney International* **63**, 654-661.
- Uhlig, K., Levey, A. S. & Sarnak, M. J. (2003) Traditional cardiac risk factors in individuals with chronic kidney disease. *Seminars in Dialysis* **16**, 118-127.
- Vanholder, R., Glorieux, G., De Smet, R. & Lameire, N. (2003) New insights in uremic toxins. *Kidney International. Supplement* **84**, S6-10.
- Vidt, D. G. (2006) Inflammation in renal disease. *The American Journal of Cardiology* **97**, 20A-27A.
- Vlassara, H., Brownlee, M. & Cerami, A. (1988) Specific macrophage receptor activity for advanced glycosylation end products inversely correlates with insulin levels in vivo. *Diabetes* **37**, 456-461.
- Yoshihara, A., Deguchi, T., Hanada, N. & Miyazaki, H. (2007) Renal function and periodontal disease in elderly Japanese. *Journal of Periodontology* **78**, 1241-1248.
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