

เอกสารอ้างอิง

1. กองทันตสาธารณสุข กรมอนามัย กระทรวงสาธารณสุข. รายงานผลการสำรวจสภาวะทันตสุขภาพแห่งชาติ ครั้งที่ 5. กรุงเทพฯ: สามเจริญพาณิชย์; 2545.
2. Grossi SG, Genco RJ. Periodontal disease and diabetes mellitus: a two-way relationship. **Ann Periodontol** 1998; 3(1): 51-61.
3. Salvi GE, Beck JD, Offenbacher S. PGE2, IL-1 beta, and TNF-alpha responses in diabetics as modifiers of periodontal disease expression. **Ann Periodontol** 1998; 3(1): 40-50.
4. Genco R, Offenbacher S, Beck J. Periodontal disease and cardiovascular disease: Epidemiology and possible mechanism. **J Am Dent Assoc** 2002; 133 Suppl: 14S-22S.
5. Joshipura KJ, Hung HC, Rimm EB, Willett WC, Ascherio A. Periodontal disease, tooth loss, and incidence of ischemic stroke. **Stroke** 2003; 34(1): 47-52.
6. Buhlin K, Gustafsson A, Pockley AG, Frostegard J, Klinge B. Risk factors for cardiovascular disease in patients with periodontitis. **Eur Heart J** 2003; 24(23): 2099-107.
7. Offenbacher S, Katz V, Fertik G, Collins J, Boyd D, Maynor G, et al. Periodontal infection as a possible risk factor for preterm low birth weight. **J Periodontol** 1996; 67(10 Suppl): 1103-13.
8. Scannapieco FA. Position paper of The American Academy of Periodontology: periodontal disease as a potential risk factor for systemic diseases. **J Periodontol** 1998; 69(7): 841-50.
9. Ballou SP, Kushner I. C-reactive protein and the acute phase response. **Adv Intern Med** 1992; 37: 313-36.
10. Gabay C, Kushner I. Acute-phase proteins and other systemic responses to inflammation. **N Engl J Med** 1999; 340(6): 448-54.
11. Kushner I. C-reactive protein and the acute-phase response. **Hosp Pract (Off Ed)** 1990; 25(3A): 13, 16, 21-8.
12. Hansson L, Lindquist L. C reactive protein: its role in diagnosis and follow-up of infectious disease. **Curr Opin Infect Dis** 1997; 10: 196-201.
13. Steel DM, Whitehead AS. The major acute phase reactants: C-reactive protein, serum amyloid P component and serum amyloid A protein. **Immunol Today** 1994; 15(2): 81-8.
14. Kushner I. The phenomenon of the acute phase response. **Ann N Y Acad Sci** 1982; 389: 39-48.
15. Thompson D, Milford-Ward A, Whicher JT. The value of acute phase protein measurements in clinical practice. **Ann Clin Biochem** 1992; 29 (Pt 2): 123-31.
16. Pearson TA, Mensah GA, Alexander RW, Anderson JL, Cannon RO, 3rd, Criqui M, et al. Markers of inflammation and cardiovascular disease: application to clinical and public health practice: A statement for healthcare professionals from the Centers for Disease Control and Prevention and the American Heart Association. **Circulation** 2003; 107(3): 499-511.

17. Danesh J. Coronary heart disease, *Helicobacter pylori*, dental disease, *Chlamydia pneumoniae*, and cytomegalovirus: meta-analyses of prospective studies. **Am Heart J** 1999; 138(5 Pt 2): S434–7.
18. Genco R, Offenbacher S, Beck J. Periodontal disease and cardiovascular disease: epidemiology and possible mechanisms. **J Am Dent Assoc** 2002; 133 Suppl: 14S–22S.
19. Scannapieco FA, Bush RB, Paju S. Associations between periodontal disease and risk for atherosclerosis, cardiovascular disease, and stroke. A systematic review. **Ann Periodontol** 2003; 8(1): 38–53.
20. Slade GD, Offenbacher S, Beck JD, Heiss G, Pankow JS. Acute-phase inflammatory response to periodontal disease in the US population. **J Dent Res** 2000; 79(1): 49–57.
21. Beck J, Offenbacher S. Relationships among clinical measures of periodontal disease and their associations with systemic markers. **Ann Periodontol** 2002; 7: 79–89.
22. Wu T, Trevisan M, Genco RJ, Falkner KL, Dorn JP, Sempos CT. Examination of the relation between periodontal health status and cardiovascular risk factors: serum total and high density lipoprotein cholesterol, C-reactive protein, and plasma fibrinogen. **Am J Epidemiol** 2000; 151(3): 273–82.
23. Noack B, Genco RJ, Trevisan M, Grossi S, Zambon JJ, De Nardin E. Periodontal infections contribute to elevated systemic C-reactive protein level. **J Periodontol** 2001; 72(9): 1221–7.
24. Glurich I, Grossi S, Albini B, Ho A, Shah R, Zeid M, et al. Systemic inflammation in cardiovascular and periodontal disease: comparative study. **Clin Diagn Lab Immunol** 2002; 9(2): 425–32.
25. Saito T, Murakami M, Shimazaki Y, Oobayashi K, Matsumoto S, Koga T. Association between alveolar bone loss and elevated serum C-reactive protein in Japanese men. **J Periodontol** 2003; 74(12): 1741–6.
26. Pitiphat W, Joshipura K, Rich-Edwards J, Williams P, Douglass C, MW G. Periodontitis and Plasma C-reactive Protein among Pregnant Women. **J Dent Res** 2004; 83(Special Issue A): 178.
27. Craig RG, Yip JK, So MK, Boylan RJ, Socransky SS, Haffajee AD. Relationship of destructive periodontal disease to the acute-phase response. **J Periodontol** 2003; 74(7): 1007–16.
28. McDevitt MJ, Wang HY, Knobelmann C, Newman MG, di Giovine FS, Timms J, et al. Interleukin-1 genetic association with periodontitis in clinical practice. **J Periodontol** 2000; 71(2): 156–63.
29. Socransky SS, Haffajee AD, Smith C, Duff GW. Microbiological parameters associated with IL-1 gene polymorphisms in periodontitis patients. **J Clin Periodontol** 2000; 27(11): 810–8.
30. D’Aiuto F, Parkar M, Brett PM, Ready D, Tonetti MS. Gene polymorphisms in pro-inflammatory cytokines are associated with systemic inflammation in patients with severe periodontal infections. **Cytokine** 2004; 28(1): 29–34.
31. Genco RJ. Host responses in periodontal diseases: current concepts. **J Periodontol** 1992; 63(4 Suppl): 338–55.

32. Van Dyke TE, Lester MA, Shapira L. The role of the host response in periodontal disease progression: implications for future treatment strategies. **J Periodontol** 1993; 64(8 Suppl): 792–806.
33. Haffajee AD, Socransky SS. Microbial etiological agents of destructive periodontal diseases. **Periodontol** 2000 1994; 5: 78–111.
34. Offenbacher S. Periodontal diseases: pathogenesis. **Ann Periodontol** 1996; 1(1): 821–78.
35. Baumann H, Richards C, Gauldie J. Interaction among hepatocyte-stimulating factors, interleukin 1, and glucocorticoids for regulation of acute phase plasma proteins in human hepatoma (HepG2) cells. **J Immunol** 1987; 139(12): 4122–8.
36. Campos SP, Baumann H. Insulin is a prominent modulator of the cytokine-stimulated expression of acute-phase plasma protein genes. **Mol Cell Biol** 1992; 12(4): 1789–97.
37. Kushner I, Rzewnicki DL. The acute phase response: general aspects. **Baillieres Clin Rheumatol** 1994; 8(3): 513–30.
38. Gauldie J, Richards C, Harnish D, Lansdorp P, Baumann H. Interferon beta 2/B-cell stimulatory factor type 2 shares identity with monocyte-derived hepatocyte-stimulating factor and regulates the major acute phase protein response in liver cells. **Proc Natl Acad Sci U S A** 1987; 84(20): 7251–5.
39. Mancini G, Carbonara AO, Heremans JF. Immunochemical quantitation of antigens by single radial immunodiffusion. **Immunochemistry** 1965; 2(3): 235–54.
40. Pepys MB, Dash AC, Markham RE, Thomas HC, Williams BD, Petrie A. Comparative clinical study of protein SAP (amyloid P component) and C-reactive protein in serum. **Clin Exp Immunol** 1978; 32(1): 119–24.
41. Gill CW, Bush WS, Burleigh WM, CL FI. An evaluation of a C-reactive protein assay using a rate immunonephelometric procedure. **Am J Clin Pathol** 1981; 75(1): 50–5.
42. Grutzmeier S, von Schenck H. Four immunochemical methods for measuring C-reactive protein in plasma compared. **Clin Chem** 1989; 35(3): 461–3.
43. Highton J, Hessian P. A solid-phase enzyme immunoassay for C-reactive protein: clinical value and the effect of rheumatoid factor. **J Immunol Methods** 1984; 68(1–2): 185–92.
44. Lizana J, Hellsing K. Manual immunoephelometric assay of proteins, with use of polymer enhancement. **Clin Chem** 1974; 20(9): 1181–6.
45. Harmoinen A, Perko M, Gronroos P. Rapid quantitative determination of C-reactive protein using LKB 8600 Reaction Rate Analyser. **Clin Chim Acta** 1981; 111(1): 117–20.
46. Ridker PM, Hennekens CH, Buring JE, Rifai N. C-reactive protein and other markers of inflammation in the prediction of cardiovascular disease in women. **N Engl J Med** 2000; 342(12): 836–43.
47. Wu R, Lemne C, De Faire U, Frostegard J. Antibodies to platelet-activating factor are associated with borderline hypertension, early atherosclerosis and the metabolic syndrome. **J Intern Med** 1999; 246(4): 389–97.

48. McCrohon JA, Jessup W, Handelsman DJ, Celermajer DS. Androgen exposure increases human monocyte adhesion to vascular endothelium and endothelial cell expression of vascular cell adhesion molecule-1. **Circulation** 1999; 99(17): 2317-22.
49. Bauters C, Six I, Meurice T, Van Belle E. Growth factors and endothelial dysfunction. **Drugs** 1999; 59 Spec No: 11-5.
50. Boon N, Fox K. **Disease of cardiovascular system. Davidson's principles and practice of medicine.** 17th ed. New York: Churchill Livingstone; 1995.
51. Ross R. Atherosclerosis--an inflammatory disease. **N Engl J Med** 1999; 340(2): 115-26.
52. Ludewig B, Zinkernagel RM, Hengartner H. Arterial inflammation and atherosclerosis. **Trends Cardiovasc Med** 2002; 12(4): 154-9.
53. Simonka M, Skaleric U, Hojs D. [Condition of teeth and periodontal tissue in patients who had suffered a heart attack]. **Zobozdrav Vestn** 1988; 43(3-5): 81-3.
54. Loos BG, Craandijk J, Hoek FJ, Wertheim-van Dillen PM, van der Velden U. Elevation of systemic markers related to cardiovascular diseases in the peripheral blood of periodontitis patients. **J Periodontol** 2000; 71(10): 1528-34.
55. Ebersole JL, Machen RL, Steffen MJ, Willmann DE. Systemic acute-phase reactants, C-reactive protein and haptoglobin, in adult periodontitis. **Clin Exp Immunol** 1997; 107(2): 347-52.
56. Mattila KJ, Valle MS, Nieminen MS, Valtonen VV, Hietaniemi KL. Dental infections and coronary atherosclerosis. **Atherosclerosis** 1993; 103(2): 205-11.
57. Emingil G, Buduneli E, Aliyev A, Akilli A, Atilla G. Association between periodontal disease and acute myocardial infarction. **J Periodontol** 2000; 71(12): 1882-6.
58. Mattila K, Nieminen M, Valtonen V. Association between dental health and myocardial infarction. **Br Med J** 1989; 298: 779-782.
59. Mattila KJ, Asikainen S, Wolf J, Jousimies-Somer H, Valtonen V, Nieminen M. Age, dental infections, and coronary heart disease. **J Dent Res** 2000; 79(2): 756-60.
60. Danesh J, Whincup P, Walker M, Lennon L, Thomson A, Appleby P, et al. Low grade inflammation and coronary heart disease: prospective study and updated meta-analyses. **Bmj** 2000; 321(7255): 199-204.
61. Gussekloo J, Schaap MC, Frolich M, Blauw GJ, Westendorp RG. C-reactive protein is a strong but nonspecific risk factor of fatal stroke in elderly persons. **Arterioscler Thromb Vasc Biol** 2000; 20(4): 1047-51.
62. Ridker PM, Stampfer MJ, Rifai N. Novel risk factors for systemic atherosclerosis: a comparison of C-reactive protein, fibrinogen, homocysteine, lipoprotein(a), and standard cholesterol screening as predictors of peripheral arterial disease. **Jama** 2001; 285(19): 2481-5.
63. Lindahl B, Toss H, Siegbahn A, Venge P, Wallentin L. Markers of myocardial damage and inflammation in relation to long-term mortality in unstable coronary artery disease. FRISC Study Group. Fragmin during Instability in Coronary Artery Disease. **N Engl J Med** 2000; 343(16): 1139-47.

64. Ferreiros ER, Boissonnet CP, Pizarro R, Merletti PF, Corrado G, Cagide A, et al. Independent prognostic value of elevated C-reactive protein in unstable angina. **Circulation** 1999; 100(19): 1958–63.
65. Ridker PM. High-sensitivity C-reactive protein: potential adjunct for global risk assessment in the primary prevention of cardiovascular disease. **Circulation** 2001; 103(13): 1813–8.
66. Ridker PM, Glynn RJ, Hennekens CH. C-reactive protein adds to the predictive value of total and HDL cholesterol in determining risk of first myocardial infarction. **Circulation** 1998; 97(20): 2007–11.
67. Koenig W. Insulin resistance, heart disease and inflammation. Identifying the 'at-risk' patient: the earlier the better? The role of inflammatory markers. **Int J Clin Pract Suppl** 2002(132): 23–30.
68. Arici M, Walls J. End-stage renal disease, atherosclerosis, and cardiovascular mortality: is C-reactive protein the missing link? **Kidney Int** 2001; 59(2): 407–14.
69. Joshipura K, Ritchie C, Douglass C. Strength of evidence linking oral conditions and systemic disease. **Compend Contin Educ Dent Suppl** 2000(30): 12–23; quiz 65.
70. Kweider M, Lowe GD, Murray GD, Kinane DF, McGowan DA. Dental disease, fibrinogen and white cell count; links with myocardial infarction? **Scott Med J** 1993; 38(3): 73–4.
71. Pitiphat W, Joshipura KJ, Rich-Edwards JW, Williams PL, Douglass CW, Gillman MW. Periodontitis and plasma C-reactive protein during pregnancy. **J Periodontol** In press.
72. Slade GD, Ghezzi EM, Heiss G, Beck JD, Riche E, Offenbacher S. Relationship between periodontal disease and C-reactive protein among adults in the Atherosclerosis Risk in Communities study. **Arch Intern Med** 2003; 163(10): 1172–9.
73. Joshipura KJ, Wand HC, Merchant AT, Rimm EB. Periodontal disease and biomarkers related to cardiovascular disease. **J Dent Res** 2004; 83(2): 151–5.
74. Persson GR, Pettersson T, Ohlsson O, Renvert S. High-sensitivity serum C-reactive protein levels in subjects with or without myocardial infarction or periodontitis. **J Clin Periodontol** 2005; 32(3): 219–24.
75. Amar S, Gokce N, Morgan S, Loukideli M, Van Dyke TE, Vita JA. Periodontal disease is associated with brachial artery endothelial dysfunction and systemic inflammation. **Arterioscler Thromb Vasc Biol** 2003; 23(7): 1245–9.
76. Leivadaros E, van der Velden U, Bizzarro S, ten Heggeler JM, Gerdes VE, Hoek FJ, et al. A pilot study into measurements of markers of atherosclerosis in periodontitis. **J Periodontol** 2005; 76(1): 121–8.
77. Rosner B. **Fundamentals of Biostatistics**. 5th ed. Pacific Grove, USA: Duxbury; 2000.
78. Ashimoto A, Chen C, Bakker I, Slots J. Polymerase chain reaction detection of 8 putative periodontal pathogens in subgingival plaque of gingivitis and advanced periodontitis lesions. **Oral Microbiol Immunol** 1996; 11(4): 266–73.

79. Johnson E, Dominici F, Griswold M, Zeger SL. Disease cases and their medical costs attributable to smoking : An analysis of the National Medical Expenditure Survey. **J Econometrics** 2003; 112: 135–51.
80. Greenland S. Modeling and variable selection in epidemiologic analysis. **Am J Public Health** 1989; 79(3): 340–9.
81. Albert MA, Glynn RJ, Buring J, Ridker PM. C-reactive protein levels among women of various ethnic groups living in the United States (from the Women's Health Study). **Am J Cardiol** 2004; 93(10): 1238–42.
82. Charuruks N, Laohajinda B, Rujiwanitgun S, Chaiworaporn M. Reference value for C-reactive protein and its distribution pattern in thai adults. **Circ J** 2005; 69(3): 339–44.
83. Slots J, Ashimoto A, Flynn MJ, Li G, Chen C. Detection of putative periodontal pathogens in subgingival specimens by 16S ribosomal DNA amplification with the polymerase chain reaction. **Clin Infect Dis** 1995; 20Suppl 2: S304–7.
84. Savitt ED, Kent RL. Distribution of *Actinobacillus actinomycetemcomitans* and *Porphyromonas gingivalis* by subject age. **J Periodontol** 1991; 62(8): 490–4.
85. Rahmati MA, Craig RG, Homel P, Kaysen GA, Levin NW. Serum markers of periodontal disease status and inflammation in hemodialysis patients. **Am J Kidney Dis** 2002; 40(5): 983–9.
86. Mendall MA, Patel P, Ballam L, Strachan D, Northfield TC. C reactive protein and its relation to cardiovascular risk factors: a population based cross sectional study. **Bmj** 1996; 312(7038): 1061–5.
87. Ridker PM, Cushman M, Stampfer MJ, Tracy RP, Hennekens CH. Inflammation, aspirin, and the risk of cardiovascular disease in apparently healthy men. **N Engl J Med** 1997; 336(14): 973–9.
88. Fredriksson M, Bergstrom K, Asman B. IL-8 and TNF-alpha from peripheral neutrophils and acute-phase proteins in periodontitis. **J Clin Periodontol** 2002; 29(2): 123–8.
89. Meier-Ewert HK, Ridker PM, Rifai N, Price N, Dinges DF, Mullington JM. Absence of diurnal variation of C-reactive protein concentrations in healthy human subjects. **Clin Chem** 2001; 47(3): 426–30.
90. Frohlich M, Sund M, Thorand B, Hutchinson WL, Pepys MB, Koenig W. Lack of seasonal variation in C-reactive protein. **Clin Chem** 2002; 48(3): 575–7.
91. Tracy RP, Lemaitre RN, Psaty BM, Ives DG, Evans RW, Cushman M, et al. Relationship of C-reactive protein to risk of cardiovascular disease in the elderly. Results from the Cardiovascular Health Study and the Rural Health Promotion Project. **Arterioscler Thromb Vasc Biol** 1997; 17(6): 1121–7.
92. Haverkate F, Thompson SG, Pyke SD, Gallimore JR, Pepys MB. Production of C-reactive protein and risk of coronary events in stable and unstable angina. European Concerted Action on Thrombosis and Disabilities Angina Pectoris Study Group. **Lancet** 1997; 349(9050): 462–6.

93. Hak AE, Stehouwer CD, Bots ML, Polderman KH, Schalkwijk CG, Westendorp IC, et al. Associations of C-reactive protein with measures of obesity, insulin resistance, and subclinical atherosclerosis in healthy, middle-aged women. **Arterioscler Thromb Vasc Biol** 1999; 19(8): 1986-91.
94. Yudkin JS, Kumari M, Humphries SE, Mohamed-Ali V. Inflammation, obesity, stress and coronary heart disease: is interleukin-6 the link? **Atherosclerosis** 2000; 148(2): 209-14.