

SphygmoCor Publications in 2007 – A Selection.

1. Afshari R, Maxwell SR, Bateman DN. **Hemodynamic effects of methadone and dihydrocodeine in overdose.** Clin Toxicol 2007,45:763-772. [780] [Link to Abstract](#)
2. Agabiti-Rosei E, Mancia G, O'Rourke MF, *et al.* **Central blood pressure measurements and antihypertensive therapy: a consensus document.** Hypertension 2007,50:154-160. [706] [Link to Abstract](#)
3. Ahuja KD, Robertson IK, Geraghty DP, *et al.* **The effect of 4-week chilli supplementation on metabolic and arterial function in humans.** Eur J Clin Nutr 2007,61:326-333. [736] [Link to Abstract](#)
4. Avalos I, Chung CP, Oeser A, *et al.* **Increased augmentation index in rheumatoid arthritis and its relationship to coronary artery Atherosclerosis** J Rheumatol 2007,34:2388-2394. [795] [Link to Abstract](#)
5. Aznaouridis K, Vlachopoulos C, Dima I, *et al.* **Triglyceride level is associated with wave reflections and arterial stiffness in apparently healthy middle-aged men.** Heart. 2007,93:613-614. [768] [Link to Abstract](#)
6. Balmain S, Padmanabhan N, Ferrell WR, *et al.* **Differences in arterial compliance, microvascular function and venous capacitance between patients with heart failure and either preserved or reduced left ventricular systolic function.** Eur J Heart Fail 2007,9:865-871. [761] [Link to Abstract](#)
7. Bodlaj G, Pichler R, Brandstatter W, *et al.* **Hyperthyroidism affects arterial stiffness, plasma NT-pro-B-type natriuretic peptide levels, and subendocardial perfusion in patients with Graves' disease.** Ann Med 2007,39:608-616. [714] [Link to Abstract](#)
8. Bodlaj G, Berg J, Biesenbach G. **Diurnal variation of pulse wave velocity assessed non-invasively by applanation tonometry in young healthy men.** Yonsei Med J 2007,48:665-670. [775] [Link to Abstract](#)
9. Brahim M, Le CH, Ouazen Z, *et al.* **[Microalbuminuria, a marker of artery rigidity and cardiac dysfunction].** Arch Mal Coeur Vaiss 2007,100:673-676. [806] [Link to Abstract](#)
10. Casey DP, Pierce GL, Howe KS, *et al.* **Effect of resistance training on arterial wave reflection and brachial artery reactivity in normotensive postmenopausal women.** Eur J Appl Physiol 2007,100:403-408. [759] [Link to Abstract](#)
11. Chen S, Donald AE, Storry C, *et al.* **Impact of aortic stenting on peripheral vascular function and daytime systolic blood pressure in adult coarctation.** Heart 2007, doi:10.1136/hrt.2006.109389 [781] [Link to Abstract](#)
12. Crilly M, Coch C, Clark H, *et al.* **Repeatability of the measurement of augmentation index in the clinical assessment of arterial stiffness using radial applanation tonometry.** Scand J Clin Lab Invest 2007,67:413-422. [701] [Link to Abstract](#)
13. Crilly M, Coch C, Bruce M, *et al.* **Repeatability of central aortic blood pressures measured non-invasively using radial artery applanation tonometry and peripheral pulse wave analysis.** Blood Press. 2007,16:262-269. [800] [Link to Abstract](#)

14. Crilly M, Coch C, Bruce M, *et al.* **Indices of cardiovascular function derived from peripheral pulse wave analysis using radial applanation tonometry: a measurement repeatability study.** *Vasc Med* 2007,12:189-197. [747] [Link to Abstract](#)
15. Efrati S, Averbukh M, Dishy V, *et al.* **The effect of simvastatin, ezetimibe and their combination on the lipid profile, arterial stiffness and inflammatory markers.** *Eur J Clin Pharmacol* 2007,63:113-121. [758] [Link to Abstract](#)
16. Ge D, Young TW, Wang X, *et al.* **Heritability of arterial stiffness in black and white American youth and young adults.** *Am J Hypertens* 2007,20:1065-1072. [699] [Link to Abstract](#)
17. Gordin D, Ronnback M, Forsblom C, *et al.* **Acute hyperglycaemia rapidly increases arterial stiffness in young patients with type 1 diabetes.** *Diabetologia* 2007,50:1808-1814. [726] [Link to Abstract](#)
18. Hamilton PK, Lockhart CJ, Quinn CE, *et al.* **Arterial stiffness: clinical relevance, measurement and treatment.** *Clin Sci (Lond)* 2007,113:157-170. [734] [Link to Abstract](#)
19. Hashimoto J, Imai Y, O'Rourke MF. **Indices of pulse wave analysis are better predictors of left ventricular mass reduction than cuff pressure.** *Am J Hypertens* 2007,20:378-384. [740] [Link to Abstract](#)
20. Heffernan KS, Edwards DG, Rossow L, *et al.* **External mechanical compression reduces regional arterial stiffness.** *Eur J Appl Physiol* 2007,101:735-741. [770] [Link to Abstract](#)
21. Heffernan KS, Jae SY, Edwards DG, *et al.* **Arterial stiffness following repeated Valsalva maneuvers and resistance exercise in young men.** *Appl.Physiol Nutr.Metab.* 2007,32:257-264. [787] [Link to Abstract](#)
22. Heffernan KS, Jae SY, Fernhall B. **Racial differences in arterial stiffness after exercise in young men.** *Am J Hypertens* 2007,20:840-845. [745] [Link to Abstract](#)
23. Heffernan KS, Jae SY, Echols GH, *et al.* **Arterial stiffness and wave reflection following exercise in resistance-trained men.** *Med Sci Sports Exerc* 2007,39:842-848. [773] [Link to Abstract](#)
24. Hermans MM, Vermeer C, Kooman JP, *et al.* **Undercarboxylated matrix GLA protein levels are decreased in dialysis patients and related to parameters of calcium-phosphate metabolism and aortic augmentation index.** *Blood Purif* 2007,25:395-401. [724] [Link to Abstract](#)
25. Hewitson CL, Whiting MJ, Barbara JA, *et al.* **Acute effects of haemodialysis on biochemical modulators of endothelial function.** *J Intern Med* 2007,262:571-580. [782] [Link to Abstract](#)
26. Huck CJ, Bronas UG, Williamson EB, *et al.* **Noninvasive measurements of arterial stiffness: repeatability and interrelationships with endothelial function and arterial morphology measures.** *Vasc Health Risk Manag* 2007,3:343-349. [801] [Link to Abstract](#)
27. Jatoi NA, Jerrard-Dunne P, Feely, J, *et al.* **Impact of smoking and smoking cessation on arterial stiffness and aortic wave reflection in Hypertension** *Hypertension* 2007,49:981-985. [703] [Link to Abstract](#)

28. Jerrard-Dunne P, Mahmud A, Feely J. **Circadian blood pressure variation: relationship between dipper status and measures of arterial stiffness.** J Hypertens 2007,25:1233-1239. [790] [Link to Abstract](#)
29. Jiang XJ, O'Rourke MF, Zhang YQ, *et al.* **Superior effect of an angiotensin-converting enzyme inhibitor over a diuretic for reducing aortic systolic pressure.** J Hypertens 2007,25:1095-1099. [791] [Link to Abstract](#)
30. Kals J, Kampus P, Kals M, *et al.* **Arterial elasticity is associated with endothelial vasodilatory function and asymmetric dimethylarginine level in healthy subjects.** Scand J Clin Lab Invest 2007,67:536-544. [778] [Link to Abstract](#)
31. Kampus P, Kals J, Ristimae T, *et al.* **Augmentation index and carotid intima-media thickness are differently related to age, C-reactive protein and oxidized low-density lipoprotein.** J Hypertens 2007,25:819-825. [786] [Link to Abstract](#)
32. Khaleghi M and Kullo IJ. **Aortic augmentation index is associated with the ankle-brachial index: a community-based study.** Atherosclerosis 2007,195:248-253. [721] [Link to Abstract](#)
33. Knez WL, Sharman JE, Jenkins DG, *et al.* **Central hemodynamics in ultra-endurance athletes.** J Sci Med Sport 2007, doi:10.1016/j.jsams.2006.11.005 [788] [Link to Abstract](#)
34. Kosowicz J, El AZ, Wykretowicz A, *et al.* **[Arterial stiffness in hypopituitary patients with life-long growth hormone deficiency].** Pol Arch Med Wewn 2007,117:221-226. [698] [Link to Abstract](#)
35. Kovaite M, Petrulioniene Z, Ryliskyte L, *et al.* **[Relationship of arterial wall parameters to cardiovascular risk factors and cardiovascular risk assessed by SCORE system].** Medicina (Kaunas) 2007,43:529-541. [713] [Link to Abstract](#)
36. Kyvelou SM, Vyssoulis GP, Karpanou EA, *et al.* **Arterial stiffness in offspring of hypertensive parents: A pilot study.** Int J Cardiol 2007, doi:10.1016/j.ijcard.2007.06.061 [754] [Link to Abstract](#)
37. Li Y, Staessen JA, Lu L, *et al.* **Is isolated nocturnal hypertension a novel clinical entity? Findings from a Chinese population study.** Hypertension 2007,50:333-339. [729] [Link to Abstract](#)
38. Liberts EA, Willoughby SR, Kennedy JA, *et al.* **Effects of perhexiline and nitroglycerin on vascular, neutrophil and platelet function in patients with stable angina pectoris.** Eur J Pharmacol 2007,560:49-55. [762] [Link to Abstract](#)
39. Lind L, Siegbahn A, Hulthe J, *et al.* **C-reactive protein and e-selectin levels are related to vasodilation in resistance, but not conductance arteries in the elderly The prospective investigation of the Vasculature in Uppsala Seniors (PIVUS) study.** Atherosclerosis 2007, doi:10.1016/j.atherosclerosis.2007.09.038 [720] [Link to Abstract](#)
40. Madden KM, Tedder G, Lockhart C. **The oral glucose tolerance test induces myocardial ischemia in healthy older adults.** Clin Invest Med 2007,30:E118-E126. [805] [Link to Abstract](#)
41. Maki-Petaja KM, Booth AD, Hall FC, *et al.* **Ezetimibe and simvastatin reduce inflammation, disease activity, and aortic stiffness and improve endothelial function in rheumatoid arthritis.** J Am Coll Cardiol 2007,50:852-858. [725] [Link to Abstract](#)

42. Maple-Brown LJ, Piers LS, O'Rourke MF, *et al.* **Increased arterial stiffness in remote Indigenous Australians with high risk of cardiovascular disease.** *J Hypertens* 2007,25:585-591. [796] [Link to Abstract](#)
43. McAllister DA, Maclay JD, Mills NL, *et al.* **Arterial stiffness is independently associated with emphysema severity in patients with chronic obstructive pulmonary disease.** *Am J Respir Crit Care Med* 2007,176:1208-1214. [731] [Link to Abstract](#)
44. McNulty M, Mahmud A, Feely J. **Advanced glycation end-products and arterial stiffness in Hypertension** *Am J Hypertens* 2007,20:242-247. [737] [Link to Abstract](#)
45. Nakhai-Pour HR, Grobbee DE, Bots ML, *et al.* **Circulating homocysteine and large arterial stiffness and thickness in a population-based sample of middle-aged and elderly men.** *J Hum Hypertens* 2007,21:942-948. [803] [Link to Abstract](#)
46. Nakhai-Pour HR, Grobbee DE, Bots ML, *et al.* **C-reactive protein and aortic stiffness and wave reflection in middle-aged and elderly men from the community.** *J Hum Hypertens* 2007,21:949-955. [802] [Link to Abstract](#)
47. Ostberg JE, Storry C, Donald AE, *et al.* **A dose-response study of hormone replacement in young hypogonadal women: effects on intima media thickness and metabolism.** *Clin Endocrinol (Oxf)* 2007,66:557-564. [750] [Link to Abstract](#)
48. Papaioannou TG, Karatzis EN, Karatzi KN, *et al.* **Hour-to-hour and week-to-week variability and reproducibility of wave reflection indices derived by aortic pulse wave analysis: implications for studies with repeated measurements.** *J Hypertens* 2007,25:1678-1686. [797] [Link to Abstract](#)
49. Payne RA, Hilling-Smith RC, Webb DJ, *et al.* **Augmentation index assessed by applanation tonometry is elevated in Marfan Syndrome.** *J Cardiothorac Surg* 2007,2:43-[769] [Link to Abstract](#)
50. Pierce GL, Schofield RS, Nichols WW, *et al.* **Role of heart failure etiology on arterial wave reflection in heart transplant recipients: relation with C-reactive protein.** *J Hypertens* 2007,25:2273-2279. [792] [Link to Abstract](#)
51. Plantinga Y, Ghiadoni L, Magagna A, *et al.* **Supplementation with vitamins C and E improves arterial stiffness and endothelial function in essential hypertensive patients.** *Am J Hypertens* 2007,20:392-397. [741] [Link to Abstract](#)
52. Protogerou AD, Blacher J, Mavrikakis M, *et al.* **Increased pulse pressure amplification in treated hypertensive subjects with metabolic syndrome.** *Am J Hypertens* 2007,20:127-133. [700] [Link to Abstract](#)
53. Protogerou AD, Safar ME, Iaria P, *et al.* **Diastolic blood pressure and mortality in the elderly with cardiovascular disease.** *Hypertension* 2007,50:172-180. [707] [Link to Abstract](#)
54. Qureshi G, Brown R, Saliccioli L, *et al.* **Relationship between aortic atherosclerosis and non-invasive measures of arterial stiffness.** *Atherosclerosis* 2007,195:e190-e194. [756] [Link to Abstract](#)
55. Raggi P, Bellasi A, Ferramosca E, *et al.* **Association of pulse wave velocity with vascular and valvular calcification in hemodialysis patients.** *Kidney Int* 2007,71:802-807. [777] [Link to Abstract](#)

56. Raggi P, Bellasi A, Ferramosca E, *et al.* **Pulse wave velocity is inversely related to vertebral bone density in hemodialysis patients.** Hypertension 2007,49:1278-1284. [704] [Link to Abstract](#)
57. Rahman S, Ismail AA, Ismail SB, *et al.* **Effect of rosiglitazone/ramipril on preclinical vasculopathy in newly diagnosed, untreated diabetes and IGT patients: 1-year randomised, double-blind, placebo-controlled study.** Eur J Clin Pharmacol 2007,63:733-741. [760] [Link to Abstract](#)
58. Roman MJ, Devereux RB, Kizer JR, *et al.* **Central pressure more strongly relates to vascular disease and outcome than does brachial pressure: the Strong Heart Study.** Hypertension 2007,50:197-203. [708] [Link to Abstract](#)
59. Sabit R, Bolton CE, Edwards PH, *et al.* **Arterial stiffness and osteoporosis in chronic obstructive pulmonary disease.** Am J Respir Crit Care Med 2007,175:1259-1265. [732] [Link to Abstract](#)
60. Schillaci G, Mannarino MR, Pucci G, *et al.* **Age-specific relationship of aortic pulse wave velocity with left ventricular geometry and function in Hypertension** Hypertension 2007,49:317-321. [728] [Link to Abstract](#)
61. Schillaci G, Parati G, Pirro M, *et al.* **Ambulatory arterial stiffness index is not a specific marker of reduced arterial compliance.** Hypertension 2007,49:986-991. [702] [Link to Abstract](#)
62. Schofield RS, Pierce GL, Nichols WW, *et al.* **Arterial-wave reflections are increased in heart failure patients with a left-ventricular assist device.** Am J Hypertens 2007,20:622-628. [744] [Link to Abstract](#)
63. Sfikakis PP, Papamichael C, Stamatelopoulos KS, *et al.* **Improvement of vascular endothelial function using the oral endothelin receptor antagonist bosentan in patients with systemic sclerosis.** Arthritis Rheum 2007,56:1985-1993. [717] [Link to Abstract](#)
64. Sharman JE, McEniery CM, Dhakam ZR, *et al.* **Pulse pressure amplification during exercise is significantly reduced with age and hypercholesterolemia.** J Hypertens 2007,25:1249-1254. [794] [Link to Abstract](#)
65. Sharman JE, Haluska BA, Fang ZY, *et al.* **Association of arterial wave properties and diastolic dysfunction in patients with type 2 diabetes mellitus.** Am J Cardiol 2007,99:844-848. [716] [Link to Abstract](#)
66. Siasos G, Tousoulis D, Vlachopoulos C, *et al.* **Short-term treatment with L-arginine prevents the smoking-induced impairment of endothelial function and vascular elastic properties in young individuals.** Int J Cardiol 2007, doi:10.1016/j.ijcard.2007.04.057 [766] [Link to Abstract](#)
67. Smith JC, McDonnell B, Retallick C, *et al.* **Is arterial stiffening in Alstrom syndrome linked to the development of cardiomyopathy?** Eur.J.Clin.Invest. 2007,37:99-105. [752] [Link to Abstract](#)
68. Sommerfield AJ, Wilkinson IB, Webb DJ, *et al.* **Vessel wall stiffness in type 1 diabetes and the central hemodynamic effects of acute hypoglycemia.** Am J Physiol Endocrinol Metab 2007,293:E1274-E1279. [748] [Link to Abstract](#)
69. Soveri I, Lind L, Wikstrom B, *et al.* **Improvement in central arterial pressure waveform during hemodialysis is related to a reduction in asymmetric dimethylarginine (ADMA) levels.** Nephron Clin Pract 2007,106:c180-c186. [804] [Link to Abstract](#)

70. Stancanelli B, Malatino LS, Malaponte G, *et al.* **Pulse pressure is an independent predictor of aortic stiffness in patients with mild to moderate chronic kidney disease.** *Kidney Blood Press Res* 2007,30:283-288. [765] [Link to Abstract](#)
71. Taaffe DR, Galvao DA, Sharman JE, *et al.* **Reduced central blood pressure in older adults following progressive resistance training.** *J Hum Hypertens* 2007,21:96-98. [784] [PM:Link to Abstract](#)
72. Taal MW, Sigrist MK, Fakis A, *et al.* **Markers of arterial stiffness are risk factors for progression to end-stage renal disease among patients with chronic kidney disease stages 4 and 5.** *Nephron Clin Pract* 2007,107:c177-c181. [767] [Link to Abstract](#)
73. Tentolouris N, Nzietchueng R, Cattan V, *et al.* **White blood cells telomere length is shorter in males with type 2 diabetes and microalbuminuria.** *Diabetes Care* 2007,30:2909-2915. [772] [Link to Abstract](#)
74. ter AE, Holewijn S, Bredie SJ, *et al.* **Pulse wave velocity in familial combined hyperlipidemia.** *Am J Hypertens* 2007,20:263-269. [739] [Link to Abstract](#)
75. ter AE, Stalenhoef AF, de GJ. **What is the role of non-invasive measurements of atherosclerosis in individual cardiovascular risk prediction?** *Clin Sci (Lond)* 2007,112:507-516. [733] [Link to Abstract](#)
76. Tormala R, Appt S, Clarkson TB, *et al.* **Equol production capability is associated with favorable vascular function in postmenopausal women using tibolone; no effect with soy supplementation.** *Atherosclerosis* 2007, doi:10.1016/j.atherosclerosis.2007.09.010 [718] [Link to Abstract](#)
77. Townsend RR. **Analyzing the radial pulse waveform: narrowing the gap between blood pressure and outcomes.** *Curr Opin Nephrol Hypertens* 2007,16:261-266. [776] [Link to Abstract](#)
78. Vanmolkot FH, Van Bortel LM, de Hoon JN. **Altered arterial function in migraine of recent onset.** *Neurology.* 2007,68:1563-1570. [774] [Link to Abstract](#)
79. Verbeke F, Van BW, Peeters P, *et al.* **Arterial stiffness and wave reflections in renal transplant recipients.** *Nephrol Dial Transplant* 2007,22:3021-3027. [771] [Link to Abstract](#)
80. Vergnaud AC, Protogerou AD, Li Y, *et al.* **Pulse pressure amplification, adiposity and metabolic syndrome in subjects under chronic antihypertensive therapy: The role of heart rate.** *Atherosclerosis* 2007, doi:10.1016/j.atherosclerosis.2007.09.033 [719] [Link to Abstract](#)
81. Vlachopoulos C, Aznaouridis K, Dima I, *et al.* **Negative association between serum levels of matrix metalloproteinases-2 and -9 and aortic stiffness in healthy adults.** *Int J Cardiol* 2007,122:232-238. [764] [Link to Abstract](#)
82. Vlachopoulos C, Pietri P, Aznaouridis K, *et al.* **Relationship of fibrinogen with arterial stiffness and wave reflections.** *J Hypertens* 2007,25:2110-2116. [793] [Link to Abstract](#)
83. Vlachopoulos CV, Alexopoulos NA, Aznaouridis KA, *et al.* **Relation of habitual cocoa consumption to aortic stiffness and wave reflections, and to central hemodynamics in healthy individuals.** *Am J Cardiol* 2007,99:1473-1475. [715] [Link to Abstract](#)

84. Wallace SM, Yasmin, McEniery CM, *et al.* **Isolated systolic hypertension is characterized by increased aortic stiffness and endothelial dysfunction.** Hypertension 2007,50:228-233. [727] [Link to Abstract](#)
85. Wang MC, Tsai WC, Chen JY, *et al.* **Arterial stiffness correlated with cardiac remodelling in patients with chronic kidney disease.** Nephrology (Carlton) 2007,12:591-597. [783] [Link to Abstract](#)
86. Waring WS, McKnight JA, Webb DJ, *et al.* **Lowering serum urate does not improve endothelial function in patients with type 2 diabetes.** Diabetologia 2007,50:2572-2579. [749] [Link to Abstract](#)
87. Weber T, Auer J, Lamm G, *et al.* **Arterial stiffness, central blood pressures, and wave reflections in cardiomyopathy-implications for risk stratification.** J Card Fail 2007,13:353-359. [755] [Link to Abstract](#)
88. Weber T, Maas R, Auer J, *et al.* **Arterial wave reflections and determinants of endothelial function a hypothesis based on peripheral mode of action.** Am J Hypertens 2007,20:256-262. [738] [Link to Abstract](#)
89. Wimmer NJ, Townsend RR, Joffe MM, *et al.* **Correlation between pulse wave velocity and other measures of arterial stiffness in chronic kidney disease.** Clin Nephrol 2007,68:133-143. [799] [Link to Abstract](#)
90. Wong M, Jiang BY, McNeill K, *et al.* **Effects of selective and non-selective cyclo-oxygenase inhibition on endothelial function in patients with rheumatoid arthritis.** Scand J Rheumatol 2007,36:265-269. [779] [Link to Abstract](#)
91. Wykretowicz A, Adamska K, Guzik P, *et al.* **Indices of vascular stiffness and wave reflection in relation to body mass index or body fat in healthy subjects.** Clin Exp Pharmacol Physiol 2007,34:1005-1009. [753] [Link to Abstract](#)
92. Zhou S, Feely J, Spiers JP, *et al.* **Matrix metalloproteinase-9 polymorphism contributes to blood pressure and arterial stiffness in essential Hypertension** J Hum Hypertens 2007,21:861-867. [809] [Link to Abstract](#)
93. Zhu H, Yan W, Ge D, *et al.* **Cardiovascular characteristics in American youth with preHypertension** Am J Hypertens 2007,20:1051-1057. [746] [Link to Abstract](#)
94. Zineh I, Beitelshes AL, Haller MJ. **NOS3 polymorphisms are associated with arterial stiffness in children with type 1 diabetes.** Diabetes Care 2007,30:689-693. [697] [Link to Abstract](#)