

CURRICULUM VITAE

NAME	De Bruyne
SURNAME	Bernard
NATIONALITY	Belgian
PLACE & DATE of BIRTH	Leuven, 09-02-1957
MARITAL STATUS	Married with Françoise Van den Schrieck
CHILDREN	Geraldine ('83), Aurélie ('85), Martin ('89), Segolène ('92)
ADDRESS	Home: 11, Bosduivenlaan B-1950 Kraainem - Belgium Tel: +32 -2-78 2 21 02
	Office (1): Cardiovascular-Center O.L.V. Ziekenhuis 164, Moorselbaan B-9300 Aalst - Belgium Tel : +32-53-72 44 47 Fax : +32- 53-72 45 50 E-mail:bernard.de.bruyne@olvz-aalst.be

PRESENT POSITION

- Co-Director Cardiovascular Center Aalst
- Co-Director Catheterization laboratory
- Director Echocardiography Laboratory

- EDUCATION:**
- Primary School: St. Jan School, Leuven, Belgium
 - High School: - Jozefieten Kollege, Leuven, Belgium
 - Collège Notre-Dame, Basse-Wavre, Belgium
 - University:
 - Université Catholique de Louvain BS: Medical Sciences 1974-1977
 - Université Catholique de Louvain: Medical Degree 1977-1981
 - Medical Internship: UCL 1981-1985

POSTGRADUATE TRAINING:

- Residency in Cardiology: University of Geneva 1985-1987

CERTIFICATES:

- Medical Degree 1981
- Certificate of Internal Medicine and Cardiology UCL, 1986
- Certificate of the Canadian Council, 1985
- PhD. ("Agrégé de l'enseignement supérieur") UCL 1995. (PhD thesis: Coronary Pressure: From a Physiological Index to a Clinical Tool)

PROFESSIONAL SOCIETIES

- European Society of Cardiology: Working group on Coronary Circulation
- European Society of Cardiology: Working Group on Myocardial Function
- Treasurer of the Belgian Working Group on Interventional Cardiology

AWARD and GRANT AWARD

- Young Investigator's Award of the Belgian Society of Cardiology, Brussels, 1993
- Bekales Foundation Award 1994: Myocardial fractional flow reserve in humans:
Relation with exercise-induced ischemia

REVIEWER

- European Heart Journal of Cardiology.
- Catheterization and Cardiovascular Diagnosis.
- Heart.
- Circulation.
- Journal of the American College of Cardiology.
- European Journal of Echocardiography.
- American Heart Journal

PUBLICATIONS

A/ Monography

1. Pijls NHJ, De Bruyne B. Coronary Pressure. Kluwer Academic Publishers 1997
2. Pijls NHJ, De Bruyne B. Coronary Pressure. Second Edition. Kluwer Academic Publishers, 1999.

B/ Articles in peer-reviewed journals

1. De Bruyne B, Bernard P. Détermination de la pression capillaire pulmonaire par méthode échographique TM. Arch Mal Coeur 1985; 13:1920-1925
2. Marchandise B, De Bruyne B, Delaunois L, Kremer R. Noninvasive prediction of pulmonary hypertension in chronic obstructive lung disease by Doppler echocardiography. Chest 1987; 91:361-365
3. Melchior JP, Chevigne M, Righetti A, De Bruyne B, Salembier JP, Barthelemy JC, Marchandise B. Quantification of valvular regurgitation by cardiac blood pool scintigraphy : Correlation with catheterization. Eur Heart J 1987; 8:261-266
4. De Bruyne B, Dugernier T, Goncette L, Otte JB, Reynaert M, Col J. Hydropneumopericardium with tamponade as a late complication of surgical repair of hiatus hernia. Am Heart J 1987; 114:444-446
5. De Bruyne B, Marchandise B, Kremer R. Apical hypertrophic cardiomyopathy of the "Japanese type" in the Western Countries. Am J Med. 1987 May;82(5):1087-8.
6. Finci L, von Segesser L, Meier B, De Bruyne B, et al. Comparison of multivessel coronary angioplasty with surgical revascularisation using both internal mammary arteries. Circulation 1987; 76 (suppl.III):414-419
7. Urban P, Meier B, Finci L, De Bruyne B, Rutishauser W. Coronary wedge pressure: a predictor of restenosis after balloon angioplasty. J Am Coll Cardiol 1987; 10:504-509
8. Finci, Meier B, De Bruyne B, Steffenino GD, Divernois J, Rutishauser W. Angiographic follow-up after multivessel percutaneous coronary angioplasty. Am J Cardiol 1987; 60:467-470
9. Finci L, Meier B, De Bruyne B, Steffenino GD, Rutishauser W. Changes in indication for coronary angiography over a decade. Schweiz Med Wschr 1987; 117:1213-1216
10. De Bruyne B, Dorsaz PA, Doriot PA, Meier B, Rutishauser W. Assessment of regional coronary flow reserve by digital angiography in patients with coronary artery disease. Int J Cardiac Imaging 1987; 3:47-55
11. Meier B, Finci L, De Bruyne B, Divernois J, Rutishauser W. L'angioplastie coronaire percutanée (ACP) dans le traitement de l'angor instable et de l'infarctus aigu. Schweiz Med Wschr 1987; 117:1648-1654
12. De Bruyne B, Meier B, Finci L, Urban P, Rutishauser W, Protective role of coronary collateral circulation after coronary artery occlusion : assessment by collateral wedge pressure. Circulation 1988; 78:566-572

13. De Bruyne B, Lerch R, Meier B, Gabathuler J, Finci L, Schlaepfer H, Rutishauser W. Doppler assessment of changes in left ventricular filling during brief coronary occlusion. *Am Heart J* 1989; 117:629-635
14. De Bruyne B, Renkin J, Col J, Wijns W. Left coronary artery angioplasty in patients with prior occlusion of the right coronary artery : clinical and functional efficacy. *Am Heart J* 1991; 122:415-422
15. Bernard De Bruyne , Jean Renkin , Jacques Col and William Wijns. Percutaneous transluminal coronary angioplasty of the left coronary artery in patients with chronic occlusion of the right coronary artery: Clinical and functional results; American Heart Journal, Volume 122, Issue 2, August 1991, Pages 415-422
16. Renkin J, De Bruyne B, Benit E, Joris JM, Carlier M, Col J. Cardiac tamponade early after thrombolysis for acute myocardial infarction:A rare but not reported hemorrhagic complication. *J Am Coll Cardiol* 1991; 17:280-285
17. Bronzwaer JGF, De Bruyne B, Ascoop CAPL, Paulus WJ. Comparative effects of pacing-induced and balloon coronary occlusion ischemia on left ventricular function in man. *Circulation* 1991; 84:211-222
18. De Bruyne B, Bronzwaer JGF, Heyndrickx GR, Paulus WJ. Comparative effects of ischemia and hypoxemia on left ventricular systolic and diastolic function in man. *Circulation* 1993; 88:461-471
19. De Bruyne B, Sys SU, Heyndrickx GR. Percutaneous transluminal angioplasty catheters versus fluid-filled pressure monitoring guide wires for coronary pressure measurements and correlation with quantitative coronary angiography. *Am J Cardiol* 1993; 72:1101-1106
20. Pijls NHJ, van Son JAM, Kirkeeide RL, De Bruyne B, Gould B. Experimental basis of determining maximum coronary, myocardial, and collateral blood flow by pressure measurements for assessing functional stenosis severity before and after percutaneous transluminal coronary angioplasty. *Circulation* 1993; 86:1354-1367
21. De Bruyne B, Pijls NHJ, Paulus WJ, Vantrimpont PJ, Sys SU, Heyndrickx GR. Transstenotic coronary pressure gradient measurements in humans: In vitro and in vivo evaluation of a new pressure monitoring angioplasty guide wire. *J Am Coll Cardiol* 1993; 22:119-126
22. De Bruyne B, Bronzwaer JGF, Heyndrickx GR, Paulus WJ. Comparative effects of ischemia and hypoxemia on left ventricular systolic and diastolic function in humans. *Circulation* 1993; 88:461-471
23. De Bruyne B, Baudhuin T, Melin JA, Pijls NHJ, Sys SU, Bol A, Paulus WJ, Heyndrickx GR, Wijns W. Coronary flow reserve calculated from pressure measurements in humans. Validation with positron emission tomography. *Circulation* 1994; 89:1013-1022
24. Bartunek J, Vantrimpont PJ, De Bruyne B. Left atrial volume determination by echocardiography. Validation by biplane angiography in the setting of mitral balloon valvuloplasty. *Int J Cardiac Imaging* 1994; 10:263-268
25. Uren NG, Melin JA, De Bruyne B, Wijns W, Baudhuin T, Camici P. Myocardial blood flow as a function of coronary stenosis in man. *New Engl J Med* 1994; 330:1782-1788

26. De Bruyne B, Paulus WJ, Pijls NHJ. Rationale and applications of coronary transstenotic pressure gradient measurements. *Cath and Cardiovasc Diagn* 1994; 33:250-261
27. De Bruyne B, Stockbroeckx J, Demoor D, Heyndrickx GR, Kern MJ. Interventional physiology. Part XIX. Role of side holes in guiding catheters: observations on coronary pressure and flow. *Cath and Cardiovasc Diagn* 1994; 33:145-162
28. De Bruyne B, Pijls NHJ. Coronary pressure measurements. *Primary Cardiology* 1995; 21:5,28-32
29. Jozef Bartunek, Dirk De Bacquer, Ana Clara Rodrigues, Bernard De Bruyne. Accuracy of aortic stenosis severity assessment by doppler echocardiography: importance of image quality. *International Journal of Card Imaging* 1995; 11:97-104
30. Ana Clara Tude Rodrigues, Ann de Vylder, Francis Wellens, Jozef Bartunek, Bernard De Bruyne. Right ventricular pseudoaneurysm as a complication of endomyocardial biopsy after heart transplantation. *Chest* 1995; 107:566-567
31. Bartunek J., Sys S., Heyndrickx G.R., Pijls N., De Bruyne B. : Quantitative Coronary Angiography in Predicting Functional Significance of Stenoses in an Unselected Patient Population. *J Am Coll Cardiol* 1995; 26:328-334
32. Bernard De Bruyne, Jozef Bartunek, Stanislas U Sys, Guy R Heyndrickx. Relation Between Myocardial Fractional Flow Reserve Calculated From Coronary Pressure Measurements and Exercise-Induced Myocardial ischemia. *Circulation* 1995; 92:39-46
33. Uren NG, Camici PG, Melin JA, Bol A, de Bruyne B, Radvan J, Olivotto I, Rosen SD, Impallomeni M, Wijns W. Effect of aging on myocardial perfusion reserve. *J Nucl Med.* 1995 Nov;36(11):2032-6.
34. Pijls NH, Bech GJ, el Gamal MI, Bonnier HJ, De Bruyne B, Van Gelder B, Michels HR, Koolen JJ. Quantification of recruitable coronary collateral blood flow in conscious humans and its potential to predict future ischemic events. *J Am Coll Cardiol.* 1995 Jun;25(7):1522-8.
35. Jozef Bartunek, Marc Vanderheyden, Bernard De Bruyne. Dynamic left ventricular outflow tract obstruction after anterior myocardial infarction. *Eur Heart J* 1995; 16:1439-1442
36. Keane D, Azar AJ, de Jaegere P, Rutsch W, De Bruyne B, Legrand V, Kiemeneij F, De Feyter P, van den Heuvel P, Ozaki Y, Moral MA, Serruys PW. Clinical and angiographic outcome of elective stent implantation in small coronary vessels: an analysis of the BENESTENT trial. *Semin Interv Cardiol* 1996; 255-62
37. Bernard De Bruyne, Jozef Bartunek, Stanislas U. Sys, Nico HJ Pijls, Guy R Heyndrickx, William Wijns. Feasibility, Reproducibility, and Hemodynamic Dependence of Coronary Flow Velocity Reserve, Hyperemic Flow Versus Pressure Slope Index and Pressure-Derived Fractional Flow Reserve. *Circulation* 1996; 94:1842-1849
38. Jozef Bartunek, Stanislas U. Sys, Ana Clara Rodrigues, Eddy Van Schuerbeeck, Linda Mortier, Bernard De Bruyne. Abnormal Systolic Intraventricular Flow

Velocities after Valve Replacement for Aortic Stenosis: Mechanisms, Predictive Factors, and Prognostic Significance. *Circulation* 1996; 93:712-719

39. Bartunek J, De Bruyne B, Pijls NH, Hromec J, Malacky T, Cagan S. Intracoronary pressure and its significance in the clinical evaluation of patients with ischemic heart disease. *Bratisl Lek Listy*. 1996 Mar;97(3):139-46.
40. Jozef Bartunek, Thomas H. Marwick, Ana Clara Rodrigues, Marc Vincent, Eddy Van Schuerbeeck, Stanislas U. Sys, Bernard De Bruyne. Dobutamine-Induced Wall Motion Abnormalities: Correlations With Myocardial Fractional Flow Reserve and Quantitative Coronary Angiography. *J Am Coll Cardiol* 1996; 27:1429-1436
41. Nico H.J. Pijls, Bernard De Bruyne. Functional severity of coronary artery stenoses. *The New Engl J of Med.* 1996; 335:1687-1688 (letter)
42. Nico HJ Pijls, Bernard De Bruyne, Kathinka Peels, Pepijn H Van Der Voort, Hans JRM Bonnier, Jozef Bartunek, Jacques J. Koolen. Measurement of fractional flow reserve to assess the functional severity of coronary-artery stenosis. *The New Engl J of Med.* 1996; 334:1703-1708
43. Nico HJ Pijls, G Jan Willem Bech, Bernard De Bruyne, Albert van Straten. Clinical assessment of functional stenosis severity: use of coronary pressure measurements for the decision to bypass a lesion. *Ann Thorac Surg* 1997; 63:S6-11
44. Jozef Bartunek, Eddy Van Schuerbeeck, Bernard De Bruyne. Comparison of exercise electrocardiography and dobutamine echocardiography with invasively assessed myocardial fractional flow reserve in evaluation of severity of coronary arterial narrowing. *Am J Cardiol* 1997; 79:478-481
45. Morton J Kern, Bernard De Bruyne, Nico HJ Pijls. From research to clinical practice: current role of intracoronary physiologically based decision making in the cardiac catheterization laboratory. *J Am Coll Cardiol* 1997; 30:613-620
46. Jean-Marc Lablanche, Eugène P. McFadden, Nicolas Meneveau, Jean René Lusson, Bernard Bertrand, Jean-Philippe Metzger, Victor Legrand, Grollier Gilles, Macaya Carlos, Bernard De Bruyne, Alec Vahanian, Alain Grentzinger, Christiane Masquet, Jean-Eric Wolf, Gerard Tobelem, Sylvie Fontecave, André Vacheron, Pascal d'Azemar, Michel E. Bertrand. Effect of Nadroparin, a Low-Molecular-Weight Heparin, on Clinical and Angiographic Restenosis After Coronary Balloon Angioplasty. *Circulation* 1997; 96:3396-3402
47. Bernard De Bruyne, Jozef Bartunek, Stanislas U. Sys, Guy R. Heyndrickx, William Wijns, Nico H.J. Pijls. Plaque sealing or plumbing for coronary artery stenoses? *Circulation* 1997; 96:2094-2095 (letter)
48. Peter Geelen, Marc Goethals, Bernard de Bruyne, Pedro Brugada. A prospective hemodynamic evaluation of patients with chronic atrial fibrillation undergoing radiofrequency catheter ablation of the atrioventricular junction. *Am J Cardiol* 1997;80:1606-1609
49. Legrand V, Vrolinx M, De Bruyne B, Wijns W, Heyndrickx G, De Scheerder I, Taeymans Y, Vrints C, Materne P, Benit E, Col J, Boland J, De Keyser JM, Lafontaine P, Renkin J. BWGIC guidelines for training and quality control in adult interventional cardiology. Belgian Working Group of Invasive Cardiology. *Acta Cardiol.* 1997;52(6):507-14.

50. P.W. Serruys, C. di Mario, J. Piek, E. Schroeder, C. Vrints, P. Probst, B. de Bruyne, C. Hanet, E. Fleck, M. Haude, E. Verna, V. Voudris, H. Geschwind, H. Emanuelsson, V. Mühlberger, E. Boersma, for the Debate study group. Prognostic value of intracoronary flow velocity and diameter stenosis in assessing the short-and long-term outcomes of coronary balloon angioplasty. *Circulation* 1997; 96:3369-3377.
51. G. Jan Willem Bech, Bernard De Bruyne, Jozef Bartunek, Hans J.R.M. Bonnier, William Wijns, Guy R. Heyndrickx, Jacques J. Koolen, Nico H.J. Pijls. Long-term follow-up after deferral of PTCA of intermediate stenosis on the basis of coronary pressure measurement. *JACC* 1998;31:841-847.
52. J. De Sutter, M. Vanderheyden, B. De Bruyne, E. Andries. Trombolyse als acute therapie bij linkszijdige kunstkleptrombose. *Cardiologie* 1998;5:258-260.
53. N.H.J. Pijls, B. De Bruyne. Coronary pressure measurement and fractional flow reserve. *Heart* 1998; 80:539-542.
54. Bartunek J, Vanderheyden M, De Bruyne B. Dynamic left ventricular outflow tract obstruction as a potential mechanism of myocardial rupture after acute myocardial infarction. *J Am Coll Cardiol* 1999;34(7):2150-1
55. G.J.W. Bech, N.H.J. Pijls, B. De Bruyne, K.H. Peels, H.R. Michels, H.J.R.M. Bonnier, J.J. Koolen. Usefulness of fractional flow reserve to predict clinical outcome after balloon angioplasty. *Circulation* 1999; 99:883-888.
56. J. Bartunek, W. Wijns, G.R. Heyndrickx, B. De Bruyne. Effects of dobutamine on coronary stenosis physiology and morphology. *Circulation* 1999; 100:243-249.
57. J. Bartunek, N.H.J. Pijls, G.J.W. Bech, B. De Bruyne. Fractional flow reserve. Who needs the pressure wire? *J. Interven Cardiol* 1999;12:425-430.
58. Bernard De Bruyne, Nico HJ Pijls, Guy R Heyndrickx, Dominique Hodeige, Richard Kirkeeide, K. Lance Gould. Pressure-derived fractional flow reserve to assess serial epicardial stenoses. Theoretical basis and animal validation. *Circulation* 2000; 101:1840-1847.
59. Gerber BL, Wijns W, Vanoverschelde JL, Heyndrickx GR, De Bruyne B, Bartunek J, Melin JA. Myocardial perfusion and oxygen consumption in reperfused noninfarcted dysfunctional myocardium after unstable angina: direct evidence for myocardial stunning in humans. *J Am Coll Cardiol* 1999;34(7):1939-46
60. Pijls NH, Kern MJ, Yock PG, De Bruyne B Practice and potential pitfalls of coronary pressure measurement. *Catheter Cardiovasc Interv* 2000 Jan;49(1):1-16
61. Piek JJ, Boersma E, di Mario C, Schroeder E, Vrints C, Probst P, de Bruyne B, Hanet C, Fleck E, Haude M, Verna E, Voudris V, Geschwind H, Emanuelsson H, Muhlberger V, Peels HO, Serruys PW. Angiographical and Doppler flow-derived parameters for assessment of coronary lesion severity and its relation to the result of exercise electrocardiography. DEBATE study group. Doppler Endpoints Balloon Angioplasty Trial Europe. *Eur. Heart J.* 2000 Mar; 216(6):466-74
62. Pijls NH, De Bruyne B, Bech GJ, Liistro F, Heyndrickx GR, Bonnier HJ, Koolen JJ Coronary pressure measurement to assess the hemodynamic significance of serial stenoses within one coronary artery : validation in humans. *Circulation* 2000 Nov 7;102(19):2371-7

63. Serruys PW, de Bruyne B, Carlier S, Sousa JE, Piek J, Muramatsu T, Vrints C, Probst P, Seabra-Gomes R, Simpson I, Voudris V, Gurne O, Pijls N, Belardi J, van Es GA, Boersma E, Morel MA, van Hout B. Randomized comparison of primary stenting and provisional balloon angioplasty guided by flow velocity measurement. *Circulation*. 2000 Dec 12;102(24):2930-7.
64. De Bruyne B, Hersbach F, Pijls NH, Bartunek J, Bech JW, Heyndrickx GR, Gould KL, Wijns W. Abnormal epicardial coronary resistance in patients with diffuse atherosclerosis but "Normal" coronary angiography. *Circulation*. 2001 Nov 13;104(20):2401-6.
65. De Bruyne B, Pijls NH, Bartunek J, Kulecki K, Bech JW, De Winter H, Van Crombrugge P, Heyndrickx GR, Wijns W. Fractional flow reserve in patients with prior myocardial infarction. *Circulation*. 2001 Jul 10;104(2):157-62.
66. De Bruyne B, Pijls NH, Smith L, Wieegg M, Heyndrickx GR. Coronary thermodilution to assess flow reserve: experimental validation. *Circulation*. 2001 Oct 23;104(17):2003-6.
67. Bech GJ, De Bruyne B, Pijls NH, de Muinck ED, Hoornje JC, Escaned J, Stella PR, Boersma E, Bartunek J, Koolen JJ, Wijns W. Fractional flow reserve to determine the appropriateness of angioplasty in moderate coronary stenosis: a randomized trial. *Circulation*. 2001 Jun 19;103(24):2928-34.
68. Verin V, Popowski Y, De Bruyne B, Baumgart D, Sauerwein W, Lins M, Kovacs G, Thomas M, Calman F, Disco C, Serruys PW, Wijns W; The Dose-Finding Study Group. Endoluminal beta-radiation therapy for the prevention of coronary restenosis after balloon angioplasty. The Dose-Finding Study Group. *N Engl J Med*. 2001 Jan 25;344(4):243-9.
69. Albertal M, Regar E, Piek JJ, Van Langenhove G, Carlier SG, Thury A, Sianos G, Boersma E, De Bruyne B, di Mario C, Serruys PW; Doppler Endpoints Balloon Angioplasty Trial Europe (DEBATE) Study Group. Value of coronary stenotic flow velocity acceleration on the prediction of long-term improvement in functional status after angioplasty. *Am Heart J*. 2001 Jul;142(1):81-6.
70. Albertal M, Van Langenhove G, Regar E, Kay IP, Foley D, Sianos G, Kozuma K, Beijsterveldt T, Carlier SG, Belardi JA, Boersma E, Sousa JE, de Bruyne B, Serruys PW; DEBATE II Study Group. Uncomplicated moderate coronary artery dissections after balloon angioplasty: good outcome without stenting. *Heart*. 2001 Aug;86(2):193-8.
71. Bech GJ, Droste H, Pijls NH, De Bruyne B, Bonnier JJ, Michels HR, Peels KH, Koolen JJ. Value of fractional flow reserve in making decisions about bypass surgery for equivocal left main coronary artery disease. *Heart*. 2001 Nov;86(5):547-52.
72. Doucet S, Schalij MJ, Vrolinx MC, Hilton D, Chenu P, de Bruyne B, Udayachalerm W, Seth A, Bilodeau L, Reiber JH, Harel F, Lesperance J; Stent In Small Arteries(SISA) Trial Investigators. Stent placement to prevent restenosis after angioplasty in small coronary arteries. *Circulation*. 2001 Oct 23;104(17):2029-33.
73. Piek JJ, Boersma E, Voskuil M, di Mario C, Schroeder E, Vrints C, Probst P, de Bruyne B, Hanet C, Fleck E, Haude M, Verna E, Voudris V, Geschwind H, Emanuelsson H, Muhlberger V, Peels HO, Serruys PW; DEBATE study group. The immediate and long-term effect of optimal balloon angioplasty on the absolute

coronary blood flow velocity reserve. A subanalysis of the DEBATE study. Doppler Endpoints Balloon Angioplasty Trial Europe. Eur Heart J. 2001 Sep;22(18):1725-32.

74. Tack W, Bartunek J, Van Schuerbeeck E, Wellens F, De Bruyne B, Goethals M. Humoral and echo-Doppler parameters in predicting the benefits of betablockers in patients with dilated cardiomyopathy. J Heart Lung Transplant. 2001 Feb;20(2):233.
75. G Jan-Willem Bech, Bernard De Bruyne, T Akasaka, Francesco Liistro, Hans JRM Bonnier, Jacques J Koolen, Nico HJ Pijls. Coronary pressure and FFR predict long-term outcome after PTCA. Cardiovasc Intervent 2001;4:67-76.
76. Bech GJ, De Bruyne B, Akasaka T, Liistro F, Bonnier HJ, Koolen JJ, Pijls NH. Coronary pressure and FFR predict long-term outcome after PTCA. Int J Cardiovasc Intervent. 2001 Jun;4(2):67-76.
77. Pijls NH, De Bruyne B, Smith L, Aarnoudse W, Barbato E, Bartunek J, Bech GJ, Van De Vosse F. Coronary thermodilution to assess flow reserve: validation in humans. Circulation. 2002 May 28;105(21):2482-6.
78. Albertal M, Voskuil M, Piek JJ, de Bruyne B, Van Langenhove G, Kay PI, Costa MA, Boersma E, Beijsterveldt T, Sousa JE, Belardi JA, Serruys PW; Doppler Endpoints Balloon Angioplasty Trial Europe (DEBATE) II Study Group. Coronary flow velocity reserve after percutaneous interventions is predictive of periprocedural outcome. Circulation. 2002 Apr 2;105(13):1573-8.
79. Albertal M, Regar E, Van Langenhove G, Carlier SG, Piek JJ, de Bruyne B, di Mario C, Foley D, Kozuma K, Costa MA, Serruys PW; DEBATE I Study Group. Value of coronary stenotic flow velocity acceleration in prediction of angiographic restenosis following balloon angioplasty. Eur Heart J. 2002 Dec;23(23):1849-53.
80. Pijls NH, Klauss V, Siebert U, Powers E, Takazawa K, Fearon WF, Escaned J, Tsurumi Y, Akasaka T, Samady H, De Bruyne B; Fractional Flow Reserve (FFR) Post-Stent Registry Investigators. Coronary pressure measurement after stenting predicts adverse events at follow-up: a multicenter registry. Circulation. 2002 Jun 25;105(25):2950-4.
81. M. Albertal, E. Regar, G. Van Langenhove, S. G. Carlier, J. J. Piek, B. de Bruyne, C. di Mario, D. Foley, K. Kozuma, M. A. Costa and P. W. Serruys. Value of coronary stenotic flow velocity acceleration in prediction of angiographic restenosis following balloon angioplasty. European Heart Journal, Volume 23, Issue 23, 1 December 2002, .Pages 1849-1853
82. Barbato E, Bartunek J, Wyffels E, Wijns W, Heyndrickx GR, De Bruyne B. Effects of intravenous dobutamine on coronary vasomotion in humans. J Am Coll Cardiol. 2003 Nov 5;42(9):1596-601.
83. De Bruyne B, Pijls NH, Barbato E, Bartunek J, Bech JW, Wijns W, Heyndrickx GR. Intracoronary and intravenous adenosine 5'-triphosphate, adenosine, papaverine, and contrast medium to assess fractional flow reserve in humans. Circulation. 2003 Apr 15;107(14):1877-83. Epub 2003 Mar 31.
84. MacCarthy P, Berger A, de Bruyne B. Low output, low gradient aortic stenosis. Heart. 2003 May;89(5):474.

85. De Bruyne B, Pijls NH, Barbato E, Bartunek J, Bech JW, Wijns W, Heyndrickx GR. Intracoronary and intravenous adenosine 5'-triphosphate, adenosine, papaverine, and contrast medium to assess fractional flow reserve in humans. *Circulation*. 2003 Apr 15;107(14):1877-83. Epub 2003 Mar 31.
86. Fearon WF, Aarnoudse W, Pijls NH, De Bruyne B, Balsam LB, Cooke DT, Robbins RC, Fitzgerald PJ, Yeung AC, Yock PG. Microvascular resistance is not influenced by epicardial coronary artery stenosis severity: experimental validation. *Circulation*. 2004 May 18;109(19):2269-72.
87. Aarnoudse W, van den Berg P, van de Vosse F, Geven M, Rutten M, Van Turnhout M, Fearon W, de Bruyne B, Pijls N. Myocardial resistance assessed by guidewire-based pressure-temperature measurement: in vitro validation. *Catheter Cardiovasc Interv*. 2004 May;62(1):56-63.
88. Barbato E, Aarnoudse W, Aengevaeren WR, Werner G, Klauss V, Bojara W, Herzfeld I, Oldroyd KG, Pijls NH, De Bruyne B; Week 25 study group. Validation of coronary flow reserve measurements by thermodilution in clinical practice. *Eur Heart J*. 2004 Feb;25(3):219-23.
89. Penicka M, Bartunek J, De Bruyne B, Vanderheyden M, Goethals M, De Zutter M, Brugada P, Geelen P. Improvement of left ventricular function after cardiac resynchronization therapy is predicted by tissue Doppler imaging echocardiography. *Circulation*. 2004 Mar 2;109(8):978-83. Epub 2004 Feb 09.
90. Penicka M, Bartunek J, Wijns W, De Wolf I, Heyndrickx GR, De Raedt H, Barbato E, De Bruyne B. Tissue doppler imaging predicts recovery of left ventricular function after recanalization of an occluded coronary artery. *J Am Coll Cardiol*. 2004 Jan 7;43(1):85-91.
91. Marc Vanderheyden, Marc Goethals, Sofie Verstreken, Bernard De Bruyne, Kristin Muller, Eddy Van Schuerbeeck and Jozef Bartunek. Wall stress modulates brain natriuretic peptide production in pressure overload cardiomyopathy. *Journal of the American College of Cardiology*, Volume 44, Issue 12, 21 December 2004, Pages 2349-2354
92. Valeria Ferrero, Flavio Ribichini, Guy R. Heyndrickx, Bernard De Bruyne, Marleen Piessens, Stéphane Carlier, Martin Büchi, Giuseppe Matullo, Corrado Vassanelli and William Wijns. Angiographic and three-dimensional intravascular ultrasound analysis of combined intracoronary beta radiation and self-expanding stent implantation in human coronary arteries. *The American Journal of Cardiology*, Volume 94, Issue 10, 15 November 2004, Pages 1237-1242
93. Emanuele Barbato, Jozef Bartunek, Wilbert Aarnoudse, Marc Vanderheyden, Frank Staelens, William Wijns, Guy R. Heyndrickx, Nico H.J. Pijls and Bernard De Bruyne. Alpha-adrenergic receptor blockade and hyperaemic response in patients with intermediate coronary stenoses. *European Heart Journal*, Volume 25, Issue 22, November 2004, Pages 2034-2039
94. Marc Vanderheyden, Jozef Bartunek, Sofie Verstreken, Linda Mortier, Marc Goethals and Bernard de Bruyne. Non-invasive assessment of coronary flow reserve in idiopathic dilated cardiomyopathy: hemodynamic correlations. *European Journal of Echocardiography*, 2005 Jan;6(1):47-53.
95. Marc Vanderheyden, Jozef Bartunek, Michiel Knaapen, Mark Kockx, Bernard De Bruyne and Marc Goethals. Hemodynamic effects of inducible nitric oxide synthase

and nitrotyrosine generation in heart failure. *The Journal of Heart and Lung Transplantation*, Volume 23, Issue 6, June 2004, Pages 723-728

96. Vanderheyden M, Goethals M, Verstreken S, De Bruyne B, Muller K, Van Schuerbeeck E, Bartunek J. Wall stress modulates brain natriuretic peptide production in pressure overload cardiomyopathy. *J Am Coll Cardiol.* 2004 Dec 21;44:2349-54.
97. Barbato E, Bartunek J, Aarnoudse W, Vanderheyden M, Staelens F, Wijns W, Heyndrickx GR, Pijls NH, De Bruyne B. Alpha-adrenergic receptor blockade and hyperaemic response in patients with intermediate coronary stenoses. *Eur Heart J.* 2004;25:2034-9
98. Ferrero V, Ribichini F, Heyndrickx GR, De Bruyne B, Piessens M, Carlier S, Buchi M, Matullo G, Vassanelli C, Wijns W. Angiographic and three-dimensional intravascular ultrasound analysis of combined intracoronary beta radiation and self-expanding stent implantation in human coronary arteries. *Am J Cardiol.* 2004 Nov 15;94(10):1237-42.
99. Aarnoudse W, Fearon WF, Manoharan G, Geven M, van de Vosse F, Rutten M, De Bruyne B, Pijls NH. Epicardial stenosis severity does not affect minimal microcirculatory resistance. *Circulation.* 2004 Oct 12;110:2137-42.
100. Berger A, MacCarthy PA, Vanermen H, De Bruyne B. Occlusion of internal mammary grafts: a review of the potential causative factors. *Acta Chir Belg.* 2004 Nov-Dec;104(6):630-4.
101. Manoharan G, De Bruyne B. Right ventricular myocardial infarction. *Heart.* 2005 May;91(5):e40.
102. Davidavicius G, Manoharan G, De Bruyne B. The accordion phenomenon. *Heart.* 2005 Apr;91(4):471.
103. MacCarthy P, Berger A, G, Bartunek J, Barbato E, Wijns W, Heyndrickx GR, Pijls NH, De Bruyne B. Pressure-derived measurement of coronary flow reserve. *J Am Coll Cardiol.* 2005 Jan 18;45(2):216-20.
104. Barbato E, Piscione F, Bartunek J, Galasso G, Cirillo P, De Luca G, Iaccarino G, De Bruyne B, Chiariello M, Wijns W. Role of beta₂ adrenergic receptors in human atherosclerotic coronary arteries. *Circulation.* 2005 Jan 25;111(3):288-94.
105. Barbato E, De Bruyne B, MacCarthy P, Pijls NH, De Luca G, Volpe M. Functional assessment of coronary atherosclerosis in the catheterization laboratory: the key role of fractional flow reserve. *Ital Heart J.* 2005;6:549-56
106. Vanderheyden M, Bartunek J, Verstreken S, Mortier L, Goethals M, de Bruyne B. Non-invasive assessment of coronary flow reserve in idiopathic dilated cardiomyopathy: hemodynamic correlations. *Eur J Echocardiogr.* 2005 Jan;6(1):47-53.
107. MacCarthy P, Berger A, Manoharan J, Bartunek J, Barbato E, Wijns W, Heyndrickx GR, Pijls NH, De Bruyne B. Pressure-derived measurement of coronary flow reserve. *J Am Coll Cardiol.* 2005 Jan 18;45(2):216-20.
108. Berger A, Botman KJ, MacCarthy PA, Wijns W, Bartunek J, Heyndrickx GR, Pijls NH, De Bruyne B. Long-term clinical outcome after fractional flow reserve-guided

percutaneous coronary intervention in patients with multivessel disease. *J Am Coll Cardiol.* 2005 Aug 2;46(3):438-42.

109. Casselman FP, Dom H, De Bruyne B, Vermeulen Y, Vanermen H. Thoracoscopic ASD closure is a reliable supplement for percutaneous treatment. *Heart.* 2005 Jun;91(6):791-4.
110. Wijns W, Verheye S, Manoharan G, Werner GS, Grube E, De Bruyne B, Koolen J, Hamm CW, Medina A, Bech JW, De Feyter PJ. Angiographic, intravascular ultrasound, and fractional flow reserve evaluation of direct stenting vs. conventional stenting using BeStent2 in a multicentre randomized trial. *Eur Heart J.* 2005 Sep;26(18):1852-9.
111. Barbato E, Wijns W, De Bruyne B, Mascia G, Piscione F. Current concepts and clinical applications of coronary beta adrenergic receptors *Recenti Prog Med.* 2005 Sep;96(9):411-5.
112. Madaric J, Bartunek J, Verhamme K, Penicka M, Van Schuerbeeck E, Nellens P, Heyndrickx GR, Wijns W, Vanderheyden M, De Bruyne B. Hyperdynamic Myocardial Response to Beta-Adrenergic Stimulation in Patients With Chest Pain and Normal Coronary Arteries. *J Am Coll Cardiol.* 2005, 46:1270-5.
113. William Wijns, Stefan Verheye, Ganesh Manoharan, Gerald S. Werner, Eberhard Grube, Bernard De Bruyne, Jacques Koolen, Christian W. Hamm, Alfonso Medina, Jan Willem Bech, Pim J. De Feyter, for the CONVERTIBLE investigators. Angiographic, intravascular ultrasound, and fractional flow reserve evaluation of. *Eur Heart J.* 2005; 26: 1852-1859.
114. Emanuele Barbato, Federico Piscione, Jozef Bartunek, Gennaro Galasso, Plinio Cirillo, Giuseppe De Luca, Guido Iaccarino, Bernard De Bruyne. Role of β_2 Adrenergic Receptors in Human Atherosclerotic Coronary Arteries. *Circulation.* 2005; 111: 288-294.
115. Barbato E, De Bruyne B, MacCarthy P, Pijls NH, De Luca G, Volpe M. Functional assessment of coronary atherosclerosis in the catheterization laboratory: the key role of fractional flow reserve. *Ital Heart J.* 2005;6:549-56.
116. Ribichini F, Ferrero V, Piessens M, Heyndrickx GR, De Bruyne B, Verbeke L, Matullo G, Buchi M, Piazza A, Guarnera S, Luscher TF, Wijns W. Intracoronary beta-irradiation prevents excessive in-stent neointimal proliferation in de novo lesions of patients with high plasma ACE levels. The BetAce randomized trial. *Cardiovasc Revasc Med.* 2005;6:7-13.
117. Madaric J, Vulev I, Bartunek J, Mistrik A, Verhamme K, De Bruyne B, Rieckensky I. Frequency of abdominal aortic aneurysm in patients >60 years of age with coronary artery disease. *Am J Cardiol.* 2005 Nov 1;96:1214-6.
118. Madaric J, Bartunek J, Verhamme K, Penicka M, Van Schuerbeeck E, Nellens P, Heyndrickx GR, Wijns W, Vanderheyden M, De Bruyne B. Hyperdynamic myocardial response to beta-adrenergic stimulation in patients with chest pain and normal coronary arteries. *J Am Coll Cardiol.* 2005;46:1270-5.
119. Davidavicius G, Van Praet F, Mansour S, Casselman F, Bartunek J, Degrieck I, Wellens F, De Geest R, Vanermen H, Wijns W, De Bruyne B. Hybrid revascularization strategy: a pilot study on the association of robotically enhanced minimally invasive direct coronary artery bypass surgery and fractional flow reserve-guided

percutaneous coronary intervention. Circulation. 2005;112:I317-22.

120. Bartunek J, Vanderheyden M, Vandekerckhove B, Mansour S, De Bruyne B, De Bondt P, Van Haute I, Lootens N, Heyndrickx GR, Wijns W. Intracoronary injection of CD133-positive enriched bone marrow progenitor cells promotes cardiac recovery after recent myocardial infarction: feasibility and safety. Circulation. 2005;112:I178-83.
121. Aarnoudse W, Geven M, Barbato E, Botman KJ, De Bruyne B, Pijls NH. Effect of phentolamine on the hyperemic response to adenosine in patients with microvascular disease. Am J Cardiol. 2005; 96(12):1627-30.
122. Manoharan G, Pijls NH, Lameire N, Verhamme K, Heyndrickx GR, Barbato E, Wijns W, Madaric J, Tielbeele X, Bartunek J, De Bruyne B. Assessment of renal flow and flow reserve in humans. J Am Coll Cardiol. 2006; 47(3):620-5.
123. De Bruyne B. What are the long-term of using FFR findings to determine treatment strategy? Nat Clin Pract Cardiovasc Med. 2006; 3(2):70-1.
124. Mansour S, Vanderheyden M, De Bruyne B, Vandekerckhove B, Delrue L, Van Haute I, Heyndrickx G, Carlier S, Granillo G, Wijns W, Bartunek J. Intracoronary Delivery of Hematopoietic Bone Marrow Stem Cells and Luminal Loss of the Infarct-related Artery in Patients with Recent Myocardial Infarction. J Am Coll Cardiol 2006; 47:1727-1730.
125. Barbato E, Berger A, Delrue L, Van Durme F, Manoharan G, Boussy T, Heyndrickx GR, De Bruyne B, Ciampi Q, Vanderheyden M, Wijns W, Bartunek J. GLU-27 variant of beta2-adrenergic receptor polymorphisms is an independent risk factor for coronary atherosclerotic disease. Atherosclerosis. 2006 Nov 7; [Epub ahead of print]
126. De Bruyne B, Manoharan G, Pijls NH, Verhamme K, Madaric J, Bartunek J, Vanderheyden M, Heyndrickx GR. Assessment of renal artery stenosis severity by pressure gradient measurements. J Am Coll Cardiol. 2006;48(9):1851-5.
127. Bax JJ, De Bruyne B, Gitt AK, Kristensen S, Linde C, Poldermans D, Pinto FJ, Ponikowski P, Prendergast BD, Abagiti-Rosei E, Smith SC Jr, Sipido KR, van der Wall EE, Tendera M, Komajda M; European Society of Cardiology. Highlights of the 2006 scientific sessions of the European Society of Cardiology: Barcelona, Spain, September 2-5, 2006. J Am Coll Cardiol. 2006;48(12):2564-74.
128. Kern MJ, Lerman A, Bech JW, De Bruyne B, Eeckhout E, Fearon WF, Higano ST, Lim MJ, Meuwissen M, Piek JJ, Pijls NH, Siebes M, Spaan JA; American Heart Association Committee on Diagnostic and Interventional Cardiac Catheterization, Council on Clinical Cardiology. Physiological assessment of coronary artery disease in the cardiac catheterization laboratory: a scientific statement from the American Heart Association Committee on Diagnostic and Interventional Cardiac Catheterization, Council on Clinical Cardiology. Circulation. 2006 Sep 19;114(12):1321-41.
129. Ferrero V, Ribichini F, Piessens M, Heyndrickx GR, Verbeke L, de Bruyne B, Feola M, Vassanelli C, Wijns W. Intracoronary beta-irradiation for the treatment of de novo lesions: 5-year clinical follow-up of the BetAce randomized trial. Am Heart J. 2007 Mar;153(3):398-402.
130. Vercauteren S, Drieghe B, De Bruyne B. Renal V-stenting. J Invasive Cardiol. 2007 Feb;19(2):90. No abstract available.

131. Valgimigli M, Dawkins K, Macaya C, de Bruyne B, Teiger E, Fajadet J, Gert R, De Servi S, Ramondo A, Wittebols K, Stoll HP, Rademaker TA, Serruys PW. Impact of stable versus unstable coronary artery disease on 1-year outcome in elective patients undergoing multivessel revascularization with sirolimus-eluting stents: a subanalysis of the ARTS II trial. *J Am Coll Cardiol.* 2007; 30;49(4):431-41.
132. Dupont M, Mullens W, De Bruyne B, Vanermen H. Myotomy through heart-port access for myocardial bridging. *Int J Cardiol.* 2007 Feb 23;
133. Barbato E, Berger A, Delrue L, Van Durme F, Manoharan G, Boussy T, Heyndrickx GR, De Bruyne B, Ciampi Q, Vanderheyden M, Wijns W, Bartunek J. GLU-27 variant of beta2-adrenergic receptor polymorphisms is an independent risk factor for coronary atherosclerotic disease. *Atherosclerosis.* 2007 Oct;194(2):e80-6.
134. Jozef Bartunek, Jeffrey D Croissant, William Wijns, Stephanie Gofflot, Aurore de Lavareille, Marc Vanderheyden, Yulia Kaluzhny, Naïma Mazouz, Philippe Willemse, Martin Penicka, Myrielle Mathieu, Christian Homsy, Bernard De Bruyne, Kathleen McEntee, Ike W Lee, Guy R Heyndrickx. Pretreatment of adult bone marrow mesenchymal stem cells with cardiomyogenic growth factors and repair of the chronically infarcted myocardium. *Am J Physiol Heart Circ Physiol.* 2007;292(2):H1095-104.
135. Penicka M, Tousek P, De Bruyne B, Wijns W, Lang O, Madaric J, Vanderheyden M, Tintera J, Maly M, Widimsky P, Bartunek J. Myocardial positive pre-ejection velocity accurately detects presence of viable myocardium, predicts recovery of left ventricular function and bears a prognostic value after surgical revascularization. *Eur Heart J.* 2007;28(11):1366-73.
136. Bernard De Bruyne, Guy R. Heyndrickx. Changes in Infarct Size and Left Ventricular Ejection Fraction: New Prognostic Factors after Acute Myocardial Infarction? *J Am Coll Cardiol.* 2007; 10;50(2):157-8.
137. Melikian N, Kearney MT, Thomas MR, De Bruyne B, Shah AM, MacCarthy PA.A simple thermodilution technique to assess coronary endothelium-dependent microvascular function in humans: validation and comparison with coronary flow reserve. *Eur Heart J.* 2007;28(18):2188-94.
138. Fearon WF, Tonino PA, De Bruyne B, Siebert U, Pijls NH; FAME Study Investigators.Rationale and design of the fractional flow reserve versus angiography for multivessel evaluation (FAME) study. *Am Heart J.* 2007;154(4):632-6.
139. Emanuele Barbato, Martin Penicka, Leen Delrue, Frederic Van Durme, Bernard De Bruyne, Marc Goethals, William Wijns, Marc Vanderheyden, Jozef Bartunek. Thr164I/e polymorphism of β2-adrenergic receptor negatively modulates cardiac contractility: implications for prognosis in patients with idiopathic cardiomyopathy. *Heart.* 2007;93(7):856-61.
140. Madaric J, Watripont P, Bartunek J, Casselman F, Vanderheyden M, Van Praet F, Wijns W, Feys A, Vanermen H, De Bruyne B. Effect of mitral valve repair on exercise tolerance in asymptomatic patients with organic mitral regurgitation. *Am Heart J.* 2007;154(1):180-5
141. Juraj Madaric, Marc Vanderheyden, Christophe Van Laethem, Katia Verhamme, Ann Feys, Marc Goethals, Sofie Verstreken, Peter Geelen, Martin Penicka, Bernard De Bruyne and Jozef Bartunek. Early and late effects of cardiac resynchronization

therapy on exercise-induced mitral regurgitation: relationship with left ventricular dyssynchrony, remodelling and cardiopulmonary performance, Eur Heart J. 2007;28(17):2134-41.

142. Pijls NH, van Schaardenburgh P, Manoharan G, Boersma E, Bech JW, van't Veer M, Bär F, Hoornjtje J, Koolen J, Wijns W, de Bruyne B. Percutaneous coronary intervention of functionally nonsignificant stenosis: 5-year follow-up of the DEFER Study. J Am Coll Cardiol. 2007;49(21):2105-11.
143. Penicka M, Bartunek J, Lang O, Medilek K, Tousek P, Vanderheyden M, De Bruyne B, Maruska M, Widimsky P. Severe left ventricular dyssynchrony is associated with poor prognosis in patients with moderate systolic heart failure undergoing coronary artery bypass grafting. J Am Coll Cardiol. 2007; 50(14):1315-23.
144. Erbel R, Di Mario C, Bartunek J, Bonnier J, de Bruyne B, Eberli FR, Erne P, Haude M, Heublein B, Horrigan M, Ilsley C, Böse D, Koolen J, Lüscher TF, Weissman N, Waksman R; PROGRESS-AMS (Clinical Performance and Angiographic Results of Coronary Stenting with Absorbable Metal Stents) Investigators. Temporary scaffolding of coronary arteries with bioabsorbable magnesium stents: a prospective, non-randomised multicentre trial. Lancet. 2007;369(9576):1869-75
145. Penicka M, Vanderheyden M, Geelen P, Mortier L, Goethals M, Verstreken S, Karasek J, De Bruyne B, Bartunek J. Tissue Doppler predicts long-term clinical outcome after cardiac resynchronization therapy. Int J Cardiol. 2007 Mar 23
146. Madaric J, Mistrik A, Rieckensky I, Vulev I, Pacak J, Verhamme K, De Bruyne B, Fridrich V, Bartunek J. Left internal mammary artery bypass dysfunction after revascularization of moderately narrowed coronary lesions. Colour-duplex ultrasound versus angiography study. Eur J Echocardiogr. 2007 Jun 20;
147. Valgimigli M, Serruys PW, Tsuchida K, Vaina S, Morel MA, van den Brand MJ, Colombo A, Morice MC, Dawkins K, de Bruyne B, Kornowski R, de Servi S, Guagliumi G, Jukema JW, Mohr FW, Kappetein AP, Wittebolts K, Stoll HP, Boersma E, Parrinello G. ARTS II. Cyphering the complexity of coronary artery disease using the syntax score to predict clinical outcome in patients with three-vessel lumen obstruction undergoing percutaneous coronary intervention. Am J Cardiol. 2007;99(8):1072-81.
148. Wijns W, De Bruyne B, Vanhoenacker PK. What does the clinical cardiologist need from noninvasive cardiac imaging: is it time to adjust practices to meet evolving demands. J Nucl Cardiol. 2007;14(3):366-70.
149. Tanimoto S, Serruys PW, Thuesen L, Dudek D, de Bruyne B, Chevalier B, Ormiston JA. Comparison of in vivo acute stent recoil between the bioabsorbable everolimus-eluting coronary stent and the everolimus-eluting cobalt chromium coronary stent: Insights from the ABSORB and SPIRIT trials. Catheter Cardiovasc Interv. 2007;70(4):515-23
150. Aarnoudse W, Van't Veer M, Pijls NH, Ter Woorst J, Vercauteren S, Tonino P, Geven M, Rutten M, van Hagen E, de Bruyne B, van de Vosse F. Direct volumetric blood flow measurement in coronary arteries by thermodilution. J Am Coll Cardiol. 2007 Dec 11;50(24):2294-304.
151. Melikian N, Cuisset T, Hamilos M, De Bruyne B. Fractional flow reserve - The influence of the collateral circulation. Int J Cardiol. 2007 Dec 3

152. Valgimigli M, Dawkins K, Macaya C, de Bruyne B, Teiger E, Fajadet J, Gert R, De Servi S, Ramondo A, Wittebolts K, Stoll HP, Rademaker TA, Serruys PW. Impact of stable versus unstable coronary artery disease on 1-year outcome in elective patients undergoing multivessel revascularization with sirolimus-eluting stents: a subanalysis of the ARTS II trial. *J Am Coll Cardiol.* 2007 Jan 30;49(4):431-41.

C/ Chapters of Books or Invited Articles

1. De Bruyne B, Meier B. Collaterals and coronary wedge pressure. In : Transluminal coronary angioplasty - an investigational tool and a non-operative treatment of acute myocardial ischemia. Serruys PW, Simon R, Beatt K, Eds., Kluwer Academic Publishers,1990; pp 75-89
2. De Bruyne B. Coronary Angioplasty in multivessel disease. How to identify the culprit lesion? Everyday Problems in Clinical Cardiology. 1992; 3:n°1
3. Paulus WJ, Bronzwaer JGF, De Bruyne B, Grossman W. Different effects of "supply" and "demand" ischemia on left ventricular diastolic function in humans. In: Left ventricular dysfunction and heart failure. Gaash WK and Le Winter MM, Eds. Lea and Febinger 1994; pp 286-305
4. De Bruyne B, Vantrimpont PJ, Paulus WJ, Sys SU, Heyndrickx GR. Intracoronary pressure measurements with a 0.015" fluid-filled angioplasty guide wire. In : QCA in clinical practice 1994, Serruys PW, Foley DP, de Feyter PJ, Eds. Kluwer Publishers 1994; pp 147-165
5. De Bruyne B, Pijls NHJ, Heyndrickx GR. Comparison between fractional flow reserve calculation and quantitative coronary arteriography in a non-selected patient population. In: QCA in clinical practice 1994; Serruys PW, Foley DP, de Feyter PJ, Eds. Kluwer Academic Publishers 1994; pp 271-281
6. Pijls NHJ, Gould KL, De Bruyne B, Bonnier HJRM, Beck GJW, Wijns W, Heyndrickx GR, Kirkeeide RL, El Gamal MI. Calculation of maximum coronary myocardial and collateral blood flow by pressure measurements in the coronary circulation. In : QCA in clinical practice 1994; Serruys PW, Foley DP, de Feyter PJ, Eds Kluwer Academic Publishers 1994; pp 243-269
7. Pijls NHJ, De Bruyne B, El Gamal MI, Bonnier HJRM, Heyndrickx GR, Beck GJW, Koolen JJ, Michels HR, Bracke FAL, Wijns W. Fractional flow reserve : the ideal parameter for evaluation of coronary, myocardial, and collateral blood flow by pressure measurements at PTCA. *Journal of Interventional Cardiology* 1996
8. Pijls NHJ, De Bruyne B, El Gamal MI. Revival of pressure gradient measurements. In: Yearbook of Interventional Cardiology (1994), Eds Topol EJ, Serruys PW. 5.1-15.19
9. De Bruyne B, Heyndrickx GR, Pijls NHJ. Intracoronary pressure recordings through fluid-filled catheters. In: *Handbook of Cardiovascular Interventions.* Bertrand M, Serruys PW, Sigwart U, Eds. Churchill Livingstone, 1996
10. Pijls NHJ, De Bruyne B. Practice and interpretation of intracoronary pressure recordings and calculation of flow reserve. In: *Handbook of Cardiovascular Interventions.* Bertrand M, Serruys PW, Sigwart U. Churchill Livingstone 1996

11. Pijls NHJ, De Bruyne B. Principles of intracoronary pressure measurements. In: Manual of coronary diagnostic techniques. Geschwind H. and Kern MJ. Eds 1996
12. De Bruyne B, Bartunek J, Pijls NHJ. Coronary pressure measurements for the evaluation of coronary stenoses. In: Cardiac Stress Testing and Imaging. T. Marwick ed. Churchill Livingstone International 1996
13. De Bruyne B, Bartunek J, Heyndrickx GR, Pijls NHJ. Fluid-Filled Catheters for Intracoronary Pressure Measurements. Ed. U. Sigwart, M. Bertrand, PW Serruys. Churchill Livingstone 1996
14. Nico H.J. Pijls, Bernard De Bruyne. Principles of intracoronary pressure measurements and the concept of fractional flow reserve. In: Geschwind HJ, Kern MJ, eds. Guidebook to Endovascular Coronary Diagnostic Techniques. ©Futura Publishing Company, Inc. Armonk, NY, 1997.

D/ Abstracts

1. De Bruyne B, Delaunois L, Marchandise B. Intérêt de l'examen echo-Doppler pulmonaire dans l'insuffisance respiratoire chronique. Schweiz Med Wschr 1986; 116,20:53
2. Melchior JP, Chevigne M, Righetti A, De Bruyne B, Bopp P, Marchandise B. Quantification des régurgitations valvulaires par ventriculographies isotopiques. Schweiz Med Wschr 1986; 116,20:67
3. De Bruyne B, Meier B, Finci L, Urban P, Divernois J, Rutishauser W. Protection de la fonction ventriculaire gauche par les collatérales après occlusion coronaire (abstract). Schweiz Med Wschr 1987; 117:32
4. De Bruyne B. Digital image treatment and PTCA. Abstract booklet of the fourth PTCA course, Geneva, April 6-8, 1987
5. Finci L, Meier B, Urban P, De Bruyne B, Steffenino G, Rutishauser W. La pression coronaire occlusive : Un facteur prédictif de la resténose après angioplastie (abstract). Schweiz Med Wschr 1987; 117:5
6. Finci L, Meier B, Steffenino G, Urban P, Divernois J, De Bruyne B, Rutishauser W. L'angioplastie coronaire percutanée : résultats cliniques à long terme (abstract). Schweiz Med Wschr 1987; 117:32
7. Finci L, Meier B, De Bruyne B, Urban R, Steffenino G, Fournet PC, Bopp P, Rutishauser W. Changement des indications à la coronarographie au cours d'une décennie (abstract). Schweiz Med Wschr 1987; 117:31
8. De Bruyne B, Melchior JP, Meier B, Dorsaz PA, Doriot PA, Rutishauser W. Etude de la réserve coronaire régionale par analyse de Fourier des coronarographies digitalisées. Proceedings of the 14th "Congrès de Cardiologie de Langue Française" Brussel, 27-29 avril 1987
9. De Bruyne B, Meier B, Finci L, Urban P, Divernois J, Rutishauser W. Protection de la fonction systolique ventriculaire gauche par les collatérales après occlusion coronaire : intérêt de la mesure de la pression coronaire occlusive. Proceedings of the 14th "Congrès de Cardiologie de Langue Française" Brussel 27-
10. Melchior JP, De Bruyne B, Doriot PA, Urban P, Noble J, Rutishauser W. Nitrates and coronary stenoses : relative and absolute measurements by densitometry (abstract). Eur Heart J 1987; 8:21
11. Finci L, Meier B, Steffenino G, Keltai M, Divernois J, De Bruyne B, Rutishauser W. Evaluation after multivessel coronary angioplasty by invasive vs noninvasive testing (abstract). Eur Heart J 1987; 8:244
12. Finci L, Meier B, Steffenino G, De Bruyne B, Gross J, Rutishauser W. Improvement of left ventricular function immediately after successful coronary angioplasty of chronic total occlusion (abstract). Giornale Italiano di Cardiologia 1987; 17:79
13. Rutishauser W, De Bruyne B, Meier B, Doriot PA. Assessment of critical stenoses in multivessel disease in view of balloon dilatation (abstract). Eur Heart J 1987; 8 (suppl.2):226
14. De Bruyne B, Gabathuler J, Lerch R, Meier B, Finci L, Schlaepfer H, Rutishauser W.

Doppler assessment of changes in left ventricular filling during percutaneous angioplasty (abstract). Eur Heart J 1987; 8 (suppl.2):236

15. De Bruyne B, Meier B, Urban P, Finci L, Rutishauser W. Influence of coronary collaterals assessed by coronary wedge pressure on left ventricular function in total occlusions (abstract). Circulation 1987; 76(suppl.IV):401
16. De Bruyne B, Heyndrickx GR, De Vriese J, Paulus WJ. Pacing angina and balloon coronary occlusion: Divergent effects on LV wall motion and wash-out of tissue metabolites in man (abstract). Eur Heart J 1990; 11(Suppl):8
17. De Bruyne B, Heyndrickx GR, De Vriese J, Bronzwaer JGF, Paulus WJ. Pacing angina and balloon coronary occlusion : Divergent effects on LV wall motion and wash-out of tissue metabolites in man. Circulation 1990; 4:122
18. De Bruyne B, Heyndrickx GR. Révascularisation par voie transluminal percutanée des occlusions coronariennes chroniques. Proceedings of the "Journées de cardiologie", UCL, Sept. 1990; 21-23
19. De Bruyne B, G.R. Heyndrickx GR, De Vriese J, Paulus WJ. Saline perfusion distal to balloon coronary occlusion reduces diastolic distensibility of the ischemic left ventricle (abstract). Eur Heart J 1991; 12 (Suppl):59
20. J. G. F. Bronzwaer, B. de Bruyne and W. J. Paulus. Lusitropic and diastolic effects of different types of brief myocardial ischemia. Journal of Molecular and Cellular Cardiology, Volume 23, Supplement 5, July 1991, Page S32
21. Natty Vrolix, Bernard de Bruyne, Pierre Naterne, Ivan De Scheerder, William Wijns, Jean Renkin, Jacques Boland and Guy Heyndrickx. Directional coronary atherectomy: Histopathological data. Journal of Molecular and Cellular Cardiology, Volume 23, Supplement 5, July 1991, Page S116
22. De Bruyne B, Paulus WJ, Heyndrickx GR. Dynamic changes in transstenotic P gradient with intra coronary papaverine : a new index of coronary stenosis severity ? Eur Heart J 1991; 12 (Suppl):206
23. De Bruyne B, Wijns W, Materne P, Renkin J, Vrolix M, Boland J, De Scheerder Y, Heyndrickx GR. Directional coronary atherectomy : results of the Belgian multicenter registry. Eur Heart J 1991; 12 (Suppl):292
24. Gürsoy S, De Bruyne B, Atié J, Steuren G, Wellens F, Giraudon J, Brugada P. Inter atrial dissociation following the corridor operation role of atrial contraction in thrombogenesis. Eur Heart J 1991; 12 (Suppl):337
25. De Bruyne B, Pijls NHJ, Paulus WJ, Van Trimpont PJ, Stockbroeckx J, De Moor D, Nelis O, Heyndrickx GR. In vitro and in vivo evaluation of a new 0.015" fluid filled guide wire for distal pressure monitoring during PTCA. Eur Heart J 1991; 12 (Suppl):342
26. De Bruyne B, Vantrimpont P, Heyndrickx GR, Stockbroeckx J, Demoor D, Paulus WJ. Is a guide-wire through a coronary stenosis an innocent bystander? Eur Heart J 1992; 13:34
27. Pijls NHJ, De Bruyne B, Kirkeeide RL, Gould KL. A rapid and accurate method to calculate maximal coronary, myocardial, and collateral blood flow by pressure measurements at PTCA. Eur Heart J 1992; 13:337

28. De Bruyne B, Sys SU, Baudhuin T, Paulus WJ, Wijns W, Heyndrickx G.R. On line calculation of absolute coronary blood flow from pressure gradient during PTCA: validation with O-15 water PET. *Circulation* 1992; 86:I-489
29. De Bruyne B, Pijls NHJ, Paulus WJ, Heyndrickx GR. Comparison between quantitative coronary angiography and pressure gradients for the evaluation of coronary flow reserve pre- and post PTCA. *Circulation* 1992; 86:I-322
30. Serruys PW, De Jaegere P, Kiemenij F, Macaya C, Emanuelsson H, Heyndrickx GR, De Bruyne B, Rutsch W, Legrand V et al. Clinical events and angiographic results of the first 120 patients randomized in the Benestent study. *Circulation* 1992; 86:I-373
31. De Bruyne B, Vantrimpont PJ, Goethals M, Stockbroeckx J, Paulus WJ. Can coronary angioplasty serve as a model of myocardial preconditioning ? *Circulation* 1992; 86:I-378
32. De Bruyne B, Heyndrickx GR, Wijns W. Determination of the relative coronary flow reserve by pressure measurements : Validation in man by O-15 water PET. *Circulation* 1992; 86:I-709
33. Bartunek J, Vantrimpont PJ, De Meester M, Van Schuerbeeck E, Steuer G, De Bruyne B. Echocardiographic assessment of left atrial volume in the setting of mitral balloon valvuloplasty : Validation by biplane angiography. Booklet of the 10th European conference of the International Society of Non Invasive Cardiology 1992, p37
34. Bartunek J, Willems H, Goethals M, Vantrimpont PJ, Van Schuerbeeck E, De Meester M, De Bruyne B. Factors influencing the accuracy of the assessment of aortic stenosis severity by Doppler Echo cardiography. Booklet of the 10th European conference of the International Society of Non Invasive Cardiology 1992; p56
35. Strauss BH, van Suylen RJ, Umans VA, MacLeod DC, Marco J, Robertson GC, De Bruyne B, Renkin J, de Feyter PJ, Serruys PW. Directional atherectomy for treatment of restenosis within coronary stents : Angiographic and histologic results. *J Am Coll Cardiol* 1993; 21:32A
36. De Jaegere P, Serruys PW, Kiemenij F, Morel MA, Legrand V, Heyndrickx GR, De Bruyne B, Van Den Heuvel P, Van Den Brande F, Matterne P, Boland J, Bonnier H, Doucet S, Fajadet J, Marco J, for the Benestent study group. Clinical and angiographic results of the pilot phase of the Benestent Study. *J Am Coll Cardiol* 1993; 21:30A
37. De Bruyne B, Paulus WJ. Does preserved vascular turgor contribute to maintenance of left ventricular function distal to occluded coronary vessels in man ? *Circulation* 1993; 88:I-59
38. De Bruyne B, Heyndrickx GR, Uren NG, Vanoverschelde JL, Bol A. Coronary Resistive vessel function in normals and in patients with coronary artery disease. *Circulation* 1993; 88:I-171
39. Uren NG, Melin A, De Bruyne B, Wijs W, Bol A, Baudhuin TH, Camici P. Maximal myocardial flow as a function of stenosis severity in man. *Circulation* 1993; 88:I-274
40. Pijls NHJ, Beck JW, De Bruyne B, Bonnier HJRM, Van Gelder B, Koolen JJ, Bracke, Michels hr, El Gamal M. Quantitative assessment of recruitable collateral blood flow by intracoronary pressure measurements at PTCA. *Circulation* 1993; 88:I-650

41. de Jaegere P, Macaya C, Kimeneij K, Rutsch W, De Bruyne B, Emanuelsson H, Legrand V, Morel MA. Critical evaluation of the immediate angiographic result after implantation angiographic randomized in the Benestent Study. *Circulation* 1993; 88:I-1993
42. Bartunek J, Pijls NHJ, De Bruyne B. Dobutamine echocardiography in single vessel disease : Comparison with fractional myocardial flow reserve and quantitative coronary angiography. *Eur Heart Journal* 1993; 14(Suppl):193
43. Pijls NHJ, Beck GJW, De Bruyne B, Bonnier HJRM, Van Gelder B, Koolen JJ, Bracke FALE, Michels HR, El Gamal MIH. Quantitative assessment of recruitable collateral blood flow by intracoronary pressure measurements at PTCA. *Eur Heart Journal* 1993; 14(Suppl):99
44. Bartunek J, Rodrigues AC, Pijls NHJ, De Bruyne B. Functional and morphological correlates of dobutamine echocardiography in patients with isolated single vessel disease.
J Am Coll Cardiol 1994.
45. Bernard De Bruyne, Jozef Bartunek, Stanislas U. Sys, Guy R. Heyndrickx, Nico H.J. Pijls, William Wijns. Feasibility and Hemodynamic Dependency of Invasive Indexes of Coronary Stenosis. *Circulation* 1995; 92:I-324
46. Jozef Bartunek, Marc Vincent, Eddy Van Schuerbeeck, Linda Mortier, Marcel De Meester, Ann Clara T. Rodrigues, Bernard De Bruyne. Dobutamine echocardiography and exercise electrocardiogram: side-by-side comparison with invasively assessed myocardial fractional flow reserve. *Eur Heart J* 1995; 16:324 (suppl)
47. Jozef Bartunek, Stanislas U. Sys, Guy R. Heyndrickx, Nico H.J. Pijls, William Wijns, Bernard De Bruyne. Quantitative coronary angiography in predicting functional significance of coronary stenoses in unselected patients. *Eur Heart J* 1995; 16:1432 (suppl)
48. Nico H.J. Pijls, P. van der Voort, C.H. Peels, B. De Bruyne, B. van Gelder, J.J.R.M. Bonnier, J.J. Koolen. Myocardial Fractional Flow Reserve Compared to Thallium Scintigraphy and Stress Echo for Clinical Decision making in Patients With Intermediate Coronary Stenosis. *Circulation* 1994; 90:I-450
49. Jozef Bartunek, Marc Vincent, Ana Clara T. Rodrigues, Eddy Van Schuerbeeck, Bernard De Bruyne. Dobutamine-induced wall motion abnormalities: comparisons with physiologic and morphologic assessment of coronary stenosis. *Eur Heart J* 1995; 16:464 (suppl)
50. Marc Vincent, Jozef Bartunek, Ann Clara Rodrigues, B. De Bruyne. Utility and accuracy of transoesophageal doppler echocardiographic assessment of the left main stem: comparison with quantitative coronary angiography. *Eur Heart J*, 1995; 16:450 (suppl)
51. Chris Vrints, Peter Probst, Bernard De Bruyne, Erwin Schroeder, Claude Hanet, Vasilis Voudris, Hans Otto Peels, Cado di Mario, Patrick W. Serruys on behalf of the D.E.B.A.T.E. Study Group. *Eur Heart J* 1995; 16:296 (suppl)
52. Nico H. Pijls, Istvan Herzfeld, B. De Bruyne, Hans J. Bonnier, Mamdouh I, El Gamal, Elsbeth Rasmussen, Mohamed El Setiha, Jozef Bartunek, Jacques J. Koolen. Evaluation of adequate Stent Deployment by Measuring Myocardial Fractional Flow Reserve. *Circulation* 1995; 92:I-536

53. Pijls N.H.J, van de Voort P, Peels CH, De Bruyne B, van Gelder B, Bonnier JJRM, Koolen JJ. Myocardial fractional flow reserve compared to thallium scintigraphy and stress echo for clinical decision making in patients with intermediate coronary stenosis. *Eur Heart J* 1995; 16:494 (suppl)
54. Jozef Bartunek, Marc Vincent, Eddy Van Schuerbeeck, Linda Mortier, Marcel De Meester, Ana Clara Rodrigues, Bernard De Bruyne. Dobutamine Echocardiography and Exercise Electrocardiography: Side by Side Comparison with Invasively Assessed Myocardial Fractional Flow Reserve. *Circulation* 1995; 92:I-413
55. Jozef Bartunek, Thomas Marwick, Marc Vincent, Ana Clara Rodrigues, Eddy Van Schuerbeeck, Bernard De Bruyne. Dobutamine-induced Wall Motion Abnormalities: Comparison with Physiologic and Morphologic Assessment of Coronary Stenosis. *Circulation* 1995; 92:I-89
56. William Wijns, Jean L. Vanoverschelde, Bernhard Gerber, Jozef Bartunek, Bernard De Bruyne, Guy R. Heyndrickx, Jacques A. Melin. Evidence that Myocardial Stunning Occurs in Humans Following Unstable Angina. *Journal Am Coll Cardiol* 1995; 427A
57. Stefan Verheyen, William Wijns, Bernard De Bruyne, Christophe Bauloye, Guy R Heyndrickx. Quantitative angiographic evaluation of the new micro stent. *J Am Coll Cardiol* 1995; 27:110A
58. J. Piek, E. Schröder, O. Gurné, C. Vrints, P. Probst, G. Porenta, B. De Bruyne, W. Wijns, C. Hanet, E. Fleck, E. Welinhofer, M. Haude, D. Baumgart, C. Voudris, E. Verna, H.J. Geschwind, H. Emanuelsson, L. Campolo, G. Danzi, V. Mühlberger, H.O. Peels, R. Gil, L. Sunamura, E. Montauban van Swijndregt, C. di Mario, P.W. Serruys. Doppler endpoints balloon angioplastie trial Europe: final results of the debate trial. *Eur Heart Journal* 1996; 17:86 (suppl).
59. N.H.J. Pijls, J.J.R.M. Bonnier, B. De Bruyne, H. Droste, H.R. Michels, J.J. Koolen. Myocardial fractional flow reserve for clinical decision making in patients with equivocal left main or proximal left anterior descending artery stenosis. *Eur Heart Journal* 1996; 17:86 (suppl)
60. S. Verheyen, O. Wittenberg, E. Eeckhout, W. Wijns, A. Menafoglio, B. De Bruyne, G. R. Heyndrickx, J.J. Goy. Early and late clinical and angiographic results of the coronary micro stent I: a multicentre experience. *Eur Heart Journal* 1996; 17:179 (suppl)
61. N.H.J. Pijls, I. Herzfeld, B. De Bruyne, J.J.R.M. Bonnier, M.I.H. El Gamal, E. Rasmussen, M. El Setiha, J. Bartunek, J.J. Koolen, Evaluation of adequate stent deployment by measuring myocardial fractional flow reserve. *Eur Heart Journal* 1996; 17:518 (suppl)
62. Patrick W. Serruys, A.J. Azar, U. Sigwart, W Rutsch, P. de Jaegere, F. Kimeney, P.J. de Feyter, P. van den Heuvel, B. De Bruyne, V. Legrand, M-A. Morel on behalf of the Benestent group. Long-term follow-up of "stent-like" (<30%diameter stenosis post) angioplasty: a case for provisional stenting. *J Am Coll Cardiol* 1996; 27:15A
63. Stefan Verheyen, Antongiulio Maione, Bernard De Bruyne, Guy R Heyndrickx. Stent implantation for treatment of refractory variant angina. *Circulation* 1997; 96:I-275
64. Nico H.J. Pijls, G. Jan Willem Bech, Bernard De Bruyne, Hans J.R.M. Bonnier, Kathinki H. Peels, Rolf H. Michels, Jacques J. Koolen. Prognostic value of pressure-derived fractional flow reserve to predict restenosis after regular balloon angioplasty. *Circulation* 1997; 96:I-3631

65. Bernard De Bruyne, Jozef Bartunek, Guy R. Heyndrickx, William Wijns. Effects of intravenous dobutamine on coronary stenosis morphology and transstenotic hemodynamics. *Circulation* 1997; 96:I-4214
66. G. Jan Willem Bech, Bernard De Bruyne, Jozef Bartunek, Hans J.R.M. Bonnier, William Wijns, Guy R. Heyndrickx, Jacques J. Koolen, Nico H. Pijls. Long term follow-up after deferral of PTCA of intermediate stenoses based on coronary pressure measurements. *Circulation* 1997; 96:I-4239
67. Bernard De Bruyne, Jozef Bartunek, Guy R. Heyndrickx, William Wijns. Effects of intravenous dobutamine on coronary stenosis morphology and transstenotic haemodynamics. *Eur Heart J* 1997; 18:214 (Suppl)
68. G. Jan Willem Bech, Bernard De Bruyne, Jozef Bartunek, Hans J.R.M. Bonnier, William Wijns, Guy R. Heyndrickx, Jacques J. Koolen, Nico H.J. Pijls. Long-term follow-up after deferral of PTCA based on coronary pressure measurements. *Eur Heart J* 1997; 18:238 (Suppl)
69. H.T. Droste, B. De Bruyne, G.J.W. Bech, H.R. Michels, J.J. Koolen, N.H.J. Pijls. Deferral of bypass surgery in equivocal left main disease, based upon coronary pressure measurements. *Eur Heart J* 1997; 18:239 (Suppl)
70. P. Geelen, M. Goethals, B. De Bruyne, P. Brugada. A prospective haemodynamic and symptomatic evaluation of patients with chronic atrial fibrillation undergoing radiofrequency ablation of the atrioventricular conduction system. *Eur Heart J* 1997; 18:321 (Suppl)
71. Legrand V, Vrolix M, De Bruyne B, Wijns W, Heyndrickx GR, De Scheerder I, Taeymans Y, Vrints C, Materne P, Benit E, Col J, Boland J, De Keyser JL, Lafontaine P, Renkin J. BWGIC guidelines for training and quality control in adult interventional cardiology. Belgian Working Group of Invasive Cardiology. *Acta Cardiol* 1997; 52:507-14
72. Marc Vanderheyden, Marc Goethals, Linda Mortier, Eddy Van Schuerbeeck, Bernard De Bruyne, Guy R. Heyndrickx. Non-invasive assessment of coronary flow dynamics in idiopathic dilated cardiomyopathy by transoesophageal echocardiography. *Eur Heart J* 1997; 18:379 (Suppl)
73. A. Maione, S. Verheyen, B. De Bruyne, G. R. Heyndrickx, W. Wijns. Coronary stent implantation for treatment of refractory variant angina. *Eur Heart J* 1997; 18:387 (Suppl)
74. G.J.W. Bech, N.H.J. Pijls, B. De Bruyne, K. Peels, H.R. Michels, H.J.R.M. Bonnier, J.J. Koolen. Usefulness of pressure-derived fractional flow reserve to predict long-term clinical outcome after regular balloon angioplasty. *Eur Heart J* 1998; 19:277 (Suppl)
75. K. Erard, J. Leeman, E. Van Schuerbeeck, L. Mortier, M. De Meester, W. Wijns, B. De Bruyne. Patients with angina and angiographically normal coronary arteries exhibit a hyperdynamic response to intravenous dobutamine. *Eur Heart J* 1998; 19:289 (Suppl)
76. E. Wyffels, W. Wijns, G.R. Heyndrickx, B. De Bruyne. Does high-dose dobutamine induce a "paradoxical" coronary vasoconstriction of atherosclerotic coronary arteries? *Eur Heart J* 1998; 19:334 (Suppl)

77. Pijls NH, De Bruyne B. Coronary pressure measurement and fractional flow reserve. *Heart* 1998; 539-42
78. P.W. Serruys, B. de Bruyne, J.E. de Sousa, R. Seabra-Gomes, C. Vrints, J. Piek, P. Probst, O. Gurné, V. Voudris, W. Groothuis. Debate II: A randomized study to evaluate the need for additional stenting after guided balloon angioplasty (provisional stenting) *Eur Heart J* 1998; 19:567B (Suppl)
79. Bernard de Bruyne, Willemijn Groothuis, Eduardo Sousa, Ricardo Seabra- Gomes, Chris Vrints, Jan J. Piek, Peter Probst, Toshiya Muramatsu, Oliver Gurné, Patrick W. Serruys. Debate II: A randomized study to evaluate provisional stenting after guided balloon angioplasty. *Circulation* 1998;98:I-2622.
80. B De Bruyne, NHJ Pijls, D Hodeige, GR Heyndrickx. Fractional flow reserve of serial coronary stenoses: theoretical model and animal validation. *Eur Heart J* 1999;20:475 (Suppl)
81. GJW Bech, NHJ Pijls, B De Bruyne, ED de Muinck, JCR. On behalf of the DEFER investigators. Deferral versus performance of PTCA based on coronary pressure derived fractional flow reserve: the DEFER study. *Eur Heart J* 1999; 20:371 (Suppl)
82. PW Serruys, B De Bruyne, E Sousa, JJ Piek, T Muramatsu; C Vrints, P Probst, R. Seabra-Gomes, I. Simpson, V. Voudris. DEBATE: Final results of the 6-month follow up. *Eur Heart J* 1999; 20:371 (Suppl)
83. M Schalij, S Doucet, B De Bruyne, M Vrolinx, D Hilton, P Chenu, W Udayachalerm Stenting of small coronary arteries: interim report from a randomized multicenter trial in patients with a vessel reference diameter of 2.3-2.9 mm. The SISA study. *Eur Heart J* 1999; 20:386 (Suppl)
84. S Verheye, B De Bruyne, P Nellens, GR Heyndrickx, W Wijns. Quantitative coronary angiography and myocardial fractional flow reserve for evaluation of in-stent restenosis. *Eur Heart J* 1999; 20:508 (Suppl)
85. Clara EE Hanekamp, Nico HJ Pijls, Jacques J Koolen, Rolf H Michels, Bernard De Bruyne, Hans JRM Bonnier. Pressure-derived fractional flow reserve post stent implantation: no difference in epicardial conductance between coil and slotted tube stents. *Eur Heart J* 1999; 20:648 (Suppl)
86. PW Serruys, B De Bruyne, O Gurné, NHJ Pijls, J Belardi, G.-A van Es, E Boersma, B van Hout, J-M van Sonsbeek, G Steenvoorden. DEBATEII:"DESTINI-sation" of the DEBATE II trial data. *Eur Heart J* 1999; 20:650 (Suppl)
87. Serge Doucet, Martin J. Schalij, Mathy Vrolinx, BernOard De Bruyne, Patrick Chenu, David Hilton, Wasan Udaychalerm, Ashok Seth. Stenting of small coronary arteries: interim report from a randomized multicenter trial in patients with a vesel reference diameter of 2.3-2.9 mm. *JACC* 1999;33:2 (suppl A)1037-90,28A.
88. Bech GJ, Pijls NH, De Bruyne B, Peels KH, Michels HR, Bonnier HJ, Koolen JJ. Usefulness of fractional flow reserve to predict outcome after balloon angioplasty. *Circulation* 1999; 99:883-8
89. G Jan Willem Bech, Bernard De Bruyne, Nico HJ Pijls. Comparison of deferral versus performance of PTCA based upon fractional flow reserve: the DEFER study. *JACC* 1999;33:2 (suppl A)864-1,89A.

90. Bernard De Bruyne, Jan W Bech, Nico HJ Pijls, Harry Suryapranata, Peter PT de Jaegere, Ebo de Muinck, Javier Escaned, Won Ro Lee, Victor Legrand. Defer: a randomized comparison of performance versus deferral of angioplasty based upon coronary pressure-derived fractional flow reserve. *Circulation* 1999;100:I-375.
91. Bernard De Bruyne, Nico HJ Pijls, Dominique Hodeige, Guy R. Heyndrickx. Theoretical model and animal validation of pressure-derived flor reserve of serial coronary stenoses. *Circulation* 1999;100:I-375.
92. Bernard De Bruyne, Nico HJ Pijls, William Wijns, Jan W Bech, Guy R Heyndrickx. Intracoronary and intravenous (Central vs Peripheral) administration of ATP and adenosine to induce maximal coronary vasodilation. *Circulation* 1999;100:I-376.
93. Mariano Albertal, Jorge A Belardi, Jose Eduardo Sousa, Jan J Piek, Charles Efferman, Jacques Puel, Sumio Mizuno, Lervyn Gotsman, Victor A Umans, Edoardo Verna, Claude Hanet, Bernard De Bruyne. Debate II: analysis of the flow velocity profile. *Circulation* 1999;100:I-454.
94. Nico HJ Pijls, Bernard De Bruyne, Jan Willem Bech, Hans JRM Bonnier, Guy R Heyndrickx, Jacques J Koolen. Coronary pressure measurement to assess the individual hemodynamic significance of multiple, sequential stenoses within one coronary artery. *Circulation* 1999;100:I-455.
95. Gerber BL, Wijns W, Vanoverschelde JL, Heyndrickx GR, De Bruyne B, Bartunek J, Melin JA. Myocardial perfusion and oxygen consumption in reperfused noninfarcted dysfunctional myocardium after unstable angina: direct evidence for myocardial stunning in humans. *J Am Coll Cardiol* 1999; 1939-46
96. Bartunek J, Wijns W, Heyndrickx GR, De Bruyne B. Effects of dobutamine on coronary stenosis physiology and morphology: comparison with intracoronary adenosine. *Circulation* 1999; 100;243-9
97. Bernard De Bruyne, Patrick W Serruys, Stefan Carlier, Ben van Hout, Jan-Maarten van Sonsbeeck, Olivier Gurne, Nico HJ Pijls, Jorge A Belardi, Jean-Louis Germonprez,Peter M Schofield, Charles DJ Ilsley , Geert-Jan Laarman. Debate II: A randomized of cost-effectiveness of primary versus provisional stenting. *Circulation* 1999;100:I-790.
98. Bartunek J, Vanderheyden M, De Bruyne B. Dynamic left ventricular outflow tract obstruction as a potential mechanism of myocardial rupture after acute myocardial infarction. *J Am Coll Cardiol* 1999; 2150-1
99. Serge Doucet, Martin J. Schalig, David Hilton, Mathy Vrolix, Bernard De Bruyne, Patrick Chenu, Luc Bilodeau Wasan Udaychaler. The SISA study: a randomized comparison of balloon angioplasty and stent to prevent restenosis in small arteries. *J Am Coll Cardiol* 2000;35 (2)8A (suppl)
100. Nico H.J. Pijls, Bernard De Bruyne, Jan-Willem Bech, Frans Vosse, F. Billet, Henk Kusters, Barry Gelder, Olivier Nelis, Jozef Bartunek, Hans Bonnier, Jacques Koolen. Coronary Flow Reserve Measurement by Guide Wire Based Thermodilution: Comparison to the Doppler Wire. *Circulation* 2000; 102-II-410.
101. Nico H.J. Pijls, Bernard De Bruyne, Frans Vosse, F. Billet, Jan-Willem Bech, Olivier Nelis, Jozef Bartunek, Eduard Hagen, Emile Aben. Simultaneous Measurement of Fractional and Coronary Flow Reserve by a single 0.014" Dual Sensor Pressure/Temperature Guidewire. *Circulation* 2000; 102-II-411.

102. Benedicte Heyndrickx, Jozef Bartunek, Hans De Beenhouwer, Eddy Van Schuerbeeck, Linda Mortier, Marc Vanderheyden, William Wijns, Guy R. Heyndrickx, Bernard De Bruyne. ACE Polymorphism Modifies LV Remodeling and Function in Patients with Persistent Severe Pressure Overload due to Aortic Stenosis. *Circulation* 2000;102:II-473.
103. Bernard De Bruyne, Nico H. J. Pijls, Jozef Bartunek, Frank Staelens, Jan-Willem Bech, Guido Van de Casseye, Paul Van Crombrugge, Hugo De Winter, Guy R. Heyndrickx, William Wijns. Fractional Flow Reserve in Patients with Prior Myocardial Infarction. *Circulation* 2000; 102-II-477.
104. Bernard De Bruyne, Ferry Hersbach, Nico H. J. Pijls, Jozef Bartunek, Ilse De Wolf, William Wijns. Abnormal Resistance in Mildly Atherosclerotic Coronary Arteries. *Circulation* 2000; 102-II-478.
105. Neil J Weissman, Remo Albiero, Carlo Dimario, Willem J Van der Giessen, Adrienne Tinana, Samantha Greene, Paul Wexberg, Bernard De Bruyne, Patrick W Serruys, Antonio Colombo. Final IVUS Results from the IsoStent BXI Multicenter Dose Response Study. *Circulation* 2000; 102-II-567
106. Neil J Weissman, Remo Albiero, Bernard De Bruyne, Willem J Van der Giessen, Adrienne Tinana, Chrysoula Pappas, Samantha Green, Daniel A. Canos, Taya Mc Millan, Gary S. Mintz, Antonio Colombo. Final IVUS Results from the Multicenter "Cold Ends" IsoStent Study. *Circulation* 2000; 102-II-568.
107. Bernard De Bruyne, Nico H J Pijls, Jan-Willem Bech, Jozef Bartunek, Ferry Hersbach, Marie-Jose Sanders, Boudewijn Steerneman, Cees-Joost Botman, Rolf Michiels. Increased of myocardial perfusion after PTCA, assessed by single guide wire based measurement of pressure-derived fractional flow reserve and thermodilution based coronary flow reserve. *Circulation* 2000; 102-II-644.
108. Jan-Willem Bech, Herman Droste, Nico H J Pijls, Bernard De Bruyne, Hans Bonnier. Fractional flow reserve for decision making in equivocal left main coronary artery disease. *Circulation* 2000; 102-II-645.
109. Pijls NH, Kern MJ, Yock PG, De Bruyne B. Practice and potential pitfalls of coronary pressure measurement. *Catheter Cardiovasc Interv* 2000;49:1-16
110. Martin J. Schalij, Serge Doucet, David Hilton, Mathy Vrolinx, Bernard De Bruyne, Luc Bilodeau, Wasan Udaychaler, Patrick Chenu. The Sisa study: a randomized comparison of balloon angioplasty and stent to prevent restenosis in small arteries: 6 month angiographic and 12 month clinical outcome. *Circulation* 2000; 102-II-663.
111. Piek JJ, Albertal M, Boersma E, De Bruyne B, Carlier S, Sousa JE, Muramatsu T, Vrints C, Meuwissen M, Serruys PW. Intracoronary blood flow velocity analysis of optimal balloon angioplasty versus stent implantation: A subanalysis of the DEBATE-II trial. *Eur Heart J* 2000; 21:366 (suppl).
112. Vandekerckhove H, Bartunek J, Van Schuerbeeck E, Mortier L, Heyndrickx B, Erard K, Verleyen D, Becker F, De Bruyne B. Abnormal intraventricular flow velocities in patients with angina-like symptoms and angiographically normal coronary arteries. *Eur Heart J* 2000; 21:P687 (suppl)
113. De Bruyne P, Ferrero V, De Bruyne B, Heyndrickx GR, Wijns W, Matullo G, Uslenghi E, Ribichini F. The insertion/deletion polymorphism of the angiotensin I converting enzyme is not associated with in-stent restenosis in diabetec patients. *Eur Heart J* 2000; 21:P2146 (suppl)

114. Heyndrickx B, Bartunek J, Van Schuerbeeck E, Mortier L, Verleyen D, Roelandt B, Vandekerckhove H, De Bruyne B. Conventional Doppler estimation of left ventricular filling pressures from transmural flow is superior to analysis of the mitral annular velocity in patients with aortic stenosis. *Eur Heart J* 2000; 21:P3719 (suppl)
115. Shivalkar B, Van Crombrugge P, Nobles F, Bartunek J, De Bruyne B. Efficacy of tissue Doppler imaging in the early detection of diabetic cardiomyopathy. *Eur Heart J* 2000; 21:P3750 (suppl)
116. N.H.J. Pijls, B. De Bruyne, G.J.W. Bech, F. van de Vosse, F. Billet, H. Kusters, L.M. van Gelder, O. Nelis, J. Bartunek, J.J.R.M. Bonnier, J.J. Koolen. Coronary flow reserve measurement by guide wire-based thermodilution: comparison to the Doppler wire. *Eur Heart J* 2000; 21:362 (suppl)
117. M. Schalij, S. Doucet, D. Hilton, M. Vrolix, B. De Bruyne, P. Chenu, L. Bilodeau, W. Udaychaler. The SISA study: a randomized comparison of balloon angioplasty and stent to prevent restenosis in small arteries. *Eur Heart J* 2000; 21:P1618 (suppl)
118. B. De Bruyne, N.H.J. Pijls, G.J.W. Bech, J. Bartunek, F. Hersbach, M.J. Sanders, B. Steerneman, C.J. Botman, H.R. Michels. Increase of myocardial perfusion after PTCA, assessed by single guide wire based measurement of pressure-derived fractional flow reserve and thermodilution based coronary flow reserve. *Eur Heart J* 2000; 21:P1620 (suppl)
119. G.J.W. Bech, N.H.J. Pijls, B. De Bruyne, J.J.R.M. Bonnier, Fractional flow reserve for decision making in equivocal left main coronary artery disease. *Eur Heart J* 2000; 21:P2802 (suppl)
120. B. De Bruyne, N.H.J. Pijls, J. Bartunek, F. Staelens, J.W. Bech, G. Van de Casseye, G.R. Heyndrickx, W. Wijns. Fractional flow reserve in patients with prior myocardial infarction. *Eur Heart J* 2000; 21:P2803 (suppl)
121. N.H.J. Pijls, B. De Bruyne, F. Van de Vosse, F. Billet, G.J.W. Bech, O. Nelis, J. Bartunek, E. van Hagen, E. Aben. Simultaneous measurement of fractional and coronary flow reserve by a single 0.014' dual sensor pressure/temperature guidewire. *Eur Heart J* 2000; 21:P2816 (suppl)
122. Valeria Ferrero, Flavio Ribichini, Guy R. Heyndrickx, Bernard De Bruyne, Stéphane Carlier, Giuseppe Matullo, Sonja Carturan, Antonio Dellavalle, Simonetta Guerrera, William Wijns. Intracoronary Beta Radiation and Self-Expanding Stent Implantation in De-Novo Lesions:Six-Month Angiographic and Three-Dimensional Intravascular Ultrasound Follow-Up.
Circulation 2001; 104-II-349
123. Philippe De Bruyne, William Wijns, Flavio Ribichini, Nester Mercado, Marleen Piessens, Emanuele Barbato, Valeria Ferrero, Guy R. Heyndrickx, Luc Verbeke, Bernard De Bruyne. Vascular Brachytherapy with "De Novo" Stenting Predisposes to Side Branch Occlusion.
Circulation 2001; 104-II-545
124. Marc Vanderheyden, Sofie Verstreken, Marc Goethals, K. Muller, Eddy van Schuerbeeck, Bernard De Bruyne, Jozef Bartunek. Plasma BNP is Related to Diastolic Rather than Systolic Load in Heart Failure.
Circulation 2001; 104-II-561

125. Valeria Ferrero, William Wijns, Philippe Debruyne, Guy R. Heyndrickx, Bernard De Bruyne, Jozef, Bartunek, Emanuele Barbato, Marleen Piessens, Giuseppe Matullo, Flavio Ribichini. Stenosis Recurrence after Brachytherapy for In-Stent Restenosis:Role of Genetic Factors. Circulation 2001; 104-II-625
126. Emanuele Barbato, Jozef Bartunek, Eric Wyffels, Valeria Ferrero, Philippe De Bruyne, Guy R. Heyndrickx, Bernard De Bruyne. Effects of Intravenous Dobutamine on Epicardial Vasomotion. Circulation 2001; 104-II-374
127. Hans Vandekerckhove, Jozef Bartunek, Eddy van Schuerbeeck, Linda Mortier, Benedict Heyndrickx, Briand Roelandt, Koen Erard, Bernard De Bruyne. Abnormal Intraventricular Flow Velocities in Patients with Angina-Like Chest Pain and Angiographically Normal Coronary Disease. JACC 2001; 37:433A.
128. Cees-Joost Botman, G. Jan-Willem Bech, Bernard De Bruyne, Hans Bonnier, Jozef Bartunek, Jacques Koolen, Rolf Michels, Nico Pijls. PTCA Versus Bypass Surgery in Patients With Multivessel Disease:A Tailored Approach Based on Coronary Pressure Measurement. JACC 2001; 37:55A.
129. Bech GJ, Droste H, Pijls NH, De Bruyne B, Bonnier JJ, Michels HR, Peels KH, Koolen JJ. Value of fractional flow reserve in making decisions about bypass surgery for equivocal left main coronary artery disease. Heart 2001 Nov;86(5):547-52
130. Piek JJ, Boersma E, Voskuil M, di Mario C, Schroeder E, Vrints C, Probst P, de Bruyne B, Hanet C, Fleck E, Haude M, Verna E, Voudris V, Geschwind H, Emanuelsson H, Muhlberger V, Peels HO, Serruys PW; DEBATE study group. The immediate and long-term effect of optimal balloon angioplasty on the absolute coronary blood flow velocity reserve. A subanalysis of the DEBATE study. Doppler Endpoints Balloon Angioplasty Trial Europe. Eur Heart J 2001 Sep;22(18):1725-32
131. G. Jan Willem Bech, Bernard De Bruyne, Nico H. J. Pijls, Ebo de Muinck, Jan C. A. Hoornntje, Javier Escaned, Pieter R. Stella, Eric Boersma, Jozef Bartunek, Jacques J. Koolen, William Wijns. Fractional flow reserve (FFR) for the appropriateness of percutaneous transluminal coronary angioplasty (PTCA) in patients with a coronary stenosis but without proof of ischemia. Two-year follow-up of the prospective randomized DEFER study : • ABSTRACT Journal of the American College of Cardiology, Volume 37, Issue 2, Supplement 1, February 2001, Pages A56-A57
132. Carlo Di Mario, Stefan Verheyen, William Wijns, Alexandra Lansky, Remo Albiero, Giorgio Gimelli, Eric Eeckhout, Bernard De Bruyne, Guy Heyndrickx, Maurice Buchbinder, Antonio Colombo. The BETTER trial: 6 Months Restenosis After Brachytherapy With a P32 Balloon Source. JACC 2001; 37:28A.
133. Jan J. Piek, Michiel Voskuil, Mariano Albertal, Eric Boersma, Bernard De Bruyne, Stephane Carlier, Jose Eduardo Soussa, Toshiya Muramatsu, Chris Vrints, Martijn Meuwissen, Steven Chamuleau, Patrick W. Serruys. Intracoronary Blood Flow Velocity Analysis of Suboptimal Balloon Angioplasty Versus Stent Implantation:A Subanalysis of the DEBATE-II trial. JACC 2001; 37:21A.

134. W. Wijns, C. Di Mario, B. De Bruyne, S. Verheyen, A. Colombo, A. Lansky. Six month clinical and angiographic follow-up with the radiance™ P-32 intracoronary brachytherapy system.
Eur Heart J 2001; 22,109 (suppl).
135. J. Bartunek, B. Heyndrickx, H. De Beenhouwer, E. van Schuerbeeck, L. Mortier, B. Roelandt, M. Vanderheyden, W. Wijns, G.R. Heyndrickx, B. De Bruyne. ACE I/D polymorphism modifies LV remodelling in persistent severe pressure overload due to aortic stenosis.
Eur Heart J 2001; 22,119 (suppl).
136. G.J.W. Bech, B. De Bruyne, N.H.J. Pijls, E. de Muinck, J.C.A. Hoornje, J. Escaned, P.R. Stella, E. Boersma, J. Bartunek, J.J. Koolen. Fractional flow reserve to decide upon the appropriateness of angioplasty in moderate coronary stenosis: a randomized trial.
Eur Heart J 2001; 22, 1261 (suppl).
137. B. De Bruyne, M. Vanderheyden, S. Verstreken, M. Goethals, K. Muller, E. Van Schuerbeeck, J. Bartunek. Plasma BNP is related to diastolic rather than systolic load in the heart failure.
Eur Heart J 2001; 22, P1659 (suppl).
138. V. Ferrero, F. Ribichini, S. Guerrera, G. Matullo, B. De Bruyne, J. Bartunek, G.R. Heyndrickx, A. Piazza, E. Uslenghi, W. Wijns. Prediction of restenosis in post-menopausal women undergoing stented angioplasty: value of alfa estrogen receptor and ACE gene polymorphisms.
Eur Heart J 2001; 22, 2054 (suppl).
139. A. Vado, F. Ribichini, V. Ferrero, G. R. Heyndrickx, B. De Bruyne, M. Piessens, S. Guerrera, G. Matullo, A. Piazza, W. Wijns. One-Year results of the BETACESTENT trial: a randomized study on the effects of combined brachytherapy and stent implantation vs. stenting alone in patients carrying the D allele of the ACE gene.
Eur Heart J 2001; 22, P2130 (suppl).
140. B. De Bruyne, N.H. J. Pijls, M. Wieegg, L. Smith, D. De Moor, G.R. Heyndrickx. In vitro and in vivo validation of thermodilution-derived coronary flow reserve measurements by a single pressure/temperature guidewire. Eur Heart J 2001; 22, 3282 (suppl).
141. B. De Bruyne, F. Hersbach, N.H.J. Pijls, J.W. Bech, K.L. Gould, G.R. Heyndrickx, J. Bartunek, W. Wijns. Abnormal epicardial resistance in patients with diffuse atherosclerosis but no focal stenosis at coronary angiography. Eur Heart J 2001; 22, 3287 (suppl).
142. Bech GJ, De Bruyne B, Akasaka T, Liistro F, Bonnier HJ, Koolen JJ, Pijls NH. Coronary pressure and FFR predict long-term outcome after PTCA. Int J Cardiovasc Intervent 2001 Jun;4(2):67-76
143. J. Bartunek, M. Penicka, L. Mortier, E. Van Schuerbeeck, B. De Bruyne. Abnormal intraventricular flow velocities after aortic valve replacement for aortic stenosis are associated with higher in-hospital morbidity but good long-term survival: 8 years clinical follow-up.
Eur Heart J 2001; 22, 3353 (suppl).
144. Albertal M, Van Langenhove G, Regar E, Kay IP, Foley D, Sianos G, Kozuma K, Beijsterveldt T, Carlier SG, Belardi JA, Boersma E, Sousa JE, de Bruyne B, Serruys

- PW; DEBATE II Study Group. Uncomplicated moderate coronary artery dissections after balloon angioplasty: good outcome without stenting. *Heart*. 2001 Aug;86(2):193-8.
145. Albertal M, Regar E, Piek JJ, Van Langenhove G, Carlier SG, Thury A, Sianos G, Boersma E, de Bruyne B, di Mario C, Serruys PW; Doppler Endpoints Balloon Angioplasty Trial Europe (DEBATE) Study Group. Value of coronary stenotic flow velocity acceleration on the prediction of long-term improvement in functional status after angioplasty. *Am Heart J* 2001 Jul;142(1):81-6
 146. Tack W, Bartunek J, Van Schuerbeeck E, Wellens F, De Bruyne B, Goethals M. Humoral and echo-Doppler parameters in predicting the benefits of betablockers in patients with dilated cardiomyopathy. *J Heart Lung Transplant* 2001 Feb;20(2):233
 149. W. Tack, M. Vanderheyden, J. Bartunek, S. Verstreken, K. Muller, E. Van Schuerbeeck, B. De Bruyne and M. Goethals. Plasma BNP levels are related to diastolic rather than systolic load in patients with LV dysfunction. *The Journal of Heart and Lung Transplantation*, Volume 21, Issue 1, January 2002, Pages 157-158
 150. Jozef Bartunek, Sek Won Kong, Marc Vanderheyden, Jeffrey Brown, Lauren Riggi, Iuan-Bor Chen, Ashish Nimgaonkar, Atul Butte, Wouter Tack, Bernard De Bruyne, Marc Goethals, Seigo Izumo, Martina Schinke. Tissue expression profilling in human pressure overload hypertrophy due to aortic stenosis. *Circulation* 2002; 106(19)II-5 (suppl)
 151. Emanuele Barbato, Martin Penicka, Leen Delrue, Marc Vanderheyden, William Wijns, Guy R. Heyndrickx, Marc Goethals, Bernard De Bruyne, Jozef Bartunek. Genetic modulation of human cardiac performance by Ile-164 polymorphism if Beta-2 adrenergic receptor. *Circulation* 2002; 106(19)II-327 (suppl)
 152. Emanuele Barbato, Martin Penicka, Marc Vanderheyden, Frank Staelens, Bernard De Bruyne. Effect of Phentolamine on coronary vasomotion during dobutamine stress testing in patients with coronary artery disease. *Circulation* 2002; 106(19)II-347 (suppl)
 153. Martin Penicka, Jozef Bartunek, Ilse De Wolf, Emanuele Barbato, Herbert De Raedt, Lieven van Hoe, William Wijns, Bernard De Bruyne. The resting pattern of myocardial pre-ejection and postsystolic velocities predicts recovery of contractile function in humans; usefulness of tissue Doppler imaging in clinical practice. *Circulation* 2002; 106(19)II-556 (suppl)
 154. Martin Penicka, Jozef Bartunek, Bernard De Bruyne, Emanuele Barbato, Marc Vanderheyden, Marc Goethals, Marc De Zutter, Peter Geelen. Tissue Doppler assessment of asynchrony predicts positive left ventricular remodelling after biventricular pacing in heart failure. *Circulation* 2002; 106(19)II-646 (suppl)
 155. Leen Delrue, Peter Van Hauwe, Emanuele Barbato, Marc Vanderheyden, Wouter Tack, Marc Goethals, Hans De Beenhouwer, Bernard De Bruyne, Jozef Bartunek. A gain-of-function polymorphism of the Beta1- adrenergic receptor and LV function in a cohort of European patients. *Circulation* 2002; 106(19)II-707 (suppl)
 156. M. Penicka, J. Bartunek, B. De Bruyne, E. Barbato, M. Goethals, P. Goemaere, M. De Zutter, P. Geelen. Correction of intraventricular asynchrony is the main mechanism by which cardiac efficiency improves by biventricular pacing in heart failure. *Eur Heart J* 2002; 23:47 (suppl)

157. M. Penicka, J. Bartunek, W. Wijns, I. De Wolf, E. Barbato, J. De Raedt, G.R. Heyndrickx, B. De Bruyne. Prediction of contractile function recovery by tissue Doppler Imaging: a usefulness of myocardial pre-ejection and postsystolic velocities. *Eur Heart J* 2002; 23:61 (suppl)
158. M. Penicka, J. Bartunek, E. Barbato, I. De Wolf, H. De Raedt, G.R. Heyndrickx, W. Wijns, B. De Bruyne. Myocardial pre-ejection velocities assessment by tissue Doppler imaging: a new predictor of recovery of contractile function in humans. *Eur Heart J* 2002; 23:61 (suppl)
159. E. Barbato, J. Bartunek, P. Penicka, W. Wijns, G.R. Heyndrickx, M. Vanderheyden, F. Staelens, B. De Bruyne. Favorable effect of phentolamine on coronary vasomotion during dobutamine stress testing in patients with coronary artery disease. *Eur Heart J* 2002; 23:64 (suppl)
160. J. Bartunek, E. van Schuerbeeck, B. Heyndrickx, L. Mortier, B. Roelandt, M. Vanderheyden, G. R. Heyndrickx, B. De Bruyne. ACE I/D polymorphism modifies left ventricular remodelling in pressure overload due to aortic stenosis in men but not in woman. *Eur Heart J* 2002; 23:178 (suppl)
161. E. Barbato, W. Aarnoudse, J. Bartunek, M. Penicka, W. Wijns, G.R. Heyndrickx, N.H.J. Pijls, B. De Bruyne. Does alpha-blockade unmask residuel myocardial resistance during adenosine in patients with coronary artery disease? *Eur Heart J* 2002; 23:250 (suppl)
162. M. Penicka, P. Geelen, B. De Bruyne, E. Barbato, M. Goethals, P. Goemaere, M. De Zutter, J. Bartunek. Tissue Doppler imaging assessment of asynchrony predicts positive left ventricular remodelling after biventricular pacing in heart failure. *Eur Heart J* 2002; 23:652 (suppl)
163. Albertal M, Regar E, Van Langenhove G, Carlier SG, Serrano P, Boersma E, Bruyne B, Di Mario C, Piek J, Serruys PW. Flow velocity and predictors of a suboptimal coronary flow velocity reserve after coronary balloon angioplasty. *Eur Heart J* 2002 Jan 15;23(2):133-8
164. M. Penicka, J. Bartunek, Van Hoe L, E. Barbato, B. De Bruyne. Myocardial velocity pattern during isovolumic contraction predicts recovery of contractile function after revascularization in patients with segmental dysfunction. *J Am Coll Cardiol* 2003 Mar 19;41(6)545A (suppl)
165. Johannes Rieber, Nico H. Pijls, Bernard De Bruyne, Petra Erdin, Uwe Siebert and Volker Klauss. Fractional flow reserve measurement after coronary stenting in patients with hypertension and diabetes: Insights from a large multicenter registry. *J Am Coll Cardiol* 2003 Mar 19;41(6)29A (suppl)
166. Emanuele Barbato, Wilbert Aarnoudse, Jozef Bartunek, Stefan Carlier, Marc Vanderheyden, William Wijns, Guy R. Heyndrickx, Nico H. Pijls and Bernard De Bruyne. Alpha-blockade in patients with coronary artery disease: Implications for fractional flow reserve measurements. *J Am Coll Cardiol.* 2003 Mar 19;41(6)17A (suppl)
167. Jozef Bartunek, Jeffrey D. Croissant, Jeannie G. Liu, Ike W. Lee, Bernard De Bruyne, William Wijns, Martin Penicka, Marc Vanderheyden, Bernard Gerber, Jean-Louis J. Vanoverschelde and Guy R. Heyndrickx. Biologic ex-vivo pre differentiation of adult bone marrow-derived mesenchymal stem cells for cardiac repair in a chronic dog model of myocardial infarction. *J Am Coll Cardiol.* 2003 Mar 19;41(6)171A (suppl)

168. E. Barbato, M. Penicka, M. Vanderheyden, W. Wijns, G. R. Heyndrickx, M. Goethals, B. De Bruyne and J. Bartunek. Human cardiac performance is genetically modulated by ile-164 polymorphism of beta-2 adrenergic receptor. *Eur Heart J* 2003 (24) p16 (suppl)
169. E. Barbato, J. Bartunek, E. Wyffels, M. Penicka, M. Vanderheyden, W. Wijns, G. R. Heyndrickx and B. De Bruyne. Coronary vasomotion during dobutamine stress testing in patients with coronary artery disease. *Eur Heart J* 2003 (24) p134 (suppl)
170. P. MacCarthy, A. Berger, J. Bartunek, E. Barbato, W. Wijns, G. R. Heyndrickx and B. De Bruyne. Measurement of coronary flow reserve with the intracoronary pressure wire. *Eur Heart J* 2003 (24) p265 (suppl)
171. E. Barbato, A. Berger, P. Van Hauwe, L. Delrue, E. Van Schuerbeeck, B. De Bruyne, H. De Beenhouwer and J. Bartunek. Beta 2 adrenergic GIn27Glu polymorphism is a protective factor for left-ventricular dysfunction. *Eur Heart J* 2003 (24) p288 (suppl)
172. M. Penicka, J. Bartunek, B. De Bruyne, M. Vanderheyden, M. De Zutter and P. Geelen
Improvement of left-ventricular function after cardiac resynchronization therapy is predicted by tissue Doppler imaging. *Eur Heart J* 2003 (24) p410 (suppl)
173. E. Barbato, W. Aarnoudse, N. H. J. Pijls, W. Aengevaeren, G. Werner, V. Klauss, W. Bojara and B. De Bruyne. Real world validation of coronary thermodilution: the week 25. *Eur Heart J* 2003 (24) p423 (suppl)
174. W. Aarnoudse, M. Geven, P. Van den Berg, M. Rutlen, F. Van de Vosse, B. De Bruyne, W. Fearon and N. Pijls. Index of myocardial resistance: a simple way to quantify microvascular disease invasively. *Eur Heart J* 2003 (24) p423 (suppl)
175. A. Berger, C. Botman, P. A. McCarthy, W. Wijns, G. R. Heyndrickx, N. H. J. Pijls and B. De Bruyne Outcomes of multivessel patients with one vessel deferred on the basis of fractional flow reserve measurements. *Eur Heart J* 2003 (24) p425 (suppl)
176. M. Penicka, J. Bartunek, L. Van Hoe, E. Barbato, I. De Wolf and B. De Bruyne. Tissue doppler imaging predicts recovery of left-ventricular function after recanalization of an occluded coronary artery. *Eur Heart J* 2003 (24) p552 (suppl)
177. A. Berger, P. A. MacCarthy, S. Carlier, W. Wijns, G. R. Heyndrickx and B. De Bruyne
Relationship between the pre-operative severity of the native coronary artery stenosis and the long-term patency of arterial bypass grafts. *Eur Heart J* 2003 (24) p643 (suppl)
178. M. Vanderheyden, P. Geelen, M. De Zulter, M. Goethals, B. De Bruyne and J. Bartunek
Myocardial production of brain natriuretic peptide in patients with advanced heart failure.
Eur Heart J 2003 (24) p657 (suppl)
179. V. Klauss, N. H. Pijls, U. Siebert, B. De Bruyne and Post-Stent-Registry Investigators
Coronary pressure measurements for prediction of adverse events in diabetic patients: a sub-analysis of the FFR post-stent registry. *Eur Heart J* 2003 (24) p674 (suppl)

180. M. Penicka, J. Bartunek, M. Vanderheyden, B. De Bruyne, M. De Zutter, P. Geelen, E. Barbato and M. Goethals. Tissue doppler echocardiography predicts positive left ventricular remodeling after biventricular pacing in severe heart failure. *The Journal of Heart and Lung Transplantation*, Volume 22, Issue 1, Supplement 1, January 2003, Page S159
181. Martin Penicka, Bernard De Bruyne, Lieven Van Hoe, Frederic De Winter, William Wijns, Guy R. Heyndrickx, Jozef Bartunek. Tissue Doppler-derived myocardial preejection velocities can distinguish hibernating and nonviable myocardium in patients with chronic myocardial infarction. *Circulation* 2003; vol 108, No 17, suppl IV-367.
182. Leen Delrue, Marc Vanderheyden, Bernard De Bruyne, Peter Van Hauwe, Marc Goethals, Hans De Beenhouwer, Francis Wellens, Wouter Tack, Eddy Van Schuerbeeck, Jozef Bartunek. Downregulation of ErbB2 and ErbB4 receptors in patients with congestive cardiomyopathy and with pressure overload hypertrophy due to aortic stenosis is related to diastolic load. *Circulation* 2003; vol 108, No 17, suppl IV-369.
183. Jozef Bartunek, Sek W. Kong, Marc Vanderheyden, Jeffrey Brown, Lauren Riggy, Wouter Tack, Marc Goethals, Filip Casselman, Francis Wellens, Bernard De Bruyne, Seigo Izumo, Martina Schinke. Microarray gene expression profiling in patients with congestive cardiomyopathy and pressure overload hypertrophy due to aortic stenosis. *Circulation* 2003; vol 108, No 17, suppl IV-369.
184. Emanuele Barbato, Alexandre Berger, Leen Delrue, Peter Van Hauwe, Eddy Van Schuerbeeck, Hans De Beenhouwer, William Wijns, Guy R. Heyndrickx, Paul Nellens, Jozef Bartunek. Beta 2 adrenergic GLN27GLU polymorphism is a protective factor for left ventricular dysfunction. *Circulation* 2003; vol 108, No 17, suppl IV-559.
185. M. Penicka, J. Bartunek, M. Vanderheyden, B. De Bruyne, M. De Zutter, P. Geelen, E. Barbato and M. Goethals. Tissue doppler echocardiography predicts positive left ventricular remodeling after biventricular pacing in severe heart failure. *The Journal of Heart and Lung Transplantation*, Volume 22, Issue 1, Supplement 1, January 2003, Page S159
186. MacCarthy P, Berger A, de Bruyne B. Low output, low gradient aortic stenosis. *Heart*. 2003 May;89(5):474. No abstract available.
187. De Bruyne B, Pijls NH, Barbato E, Bartunek J, Bech JW, Wijns W, Heyndrickx GR. Intracoronary and intravenous adenosine 5'-triphosphate, adenosine, papaverine, and contrast medium to assess fractional flow reserve in humans. *Circulation*. 2003 Apr 15;107(14):1877-83. Epub 2003 Mar 31.
188. L. Delrue, J. Bartunek, M. Goethals, B. De Bruyne, H. De Beenhouwer and M. Vanderheyden
Downregulation Erb2 and Erb4 receptors in patients with congestive cardiomyopathy and in patients with pressure overload hypertrophy due to aortic stenosis is related to diastolic load. *European Journal of Heart Failure Supplements*, Volume 3, Issue 1, June 2004, Page 12
189. L. Delrue, J. Bartunek, B. De Bruyne, M. Goethals, M. De Proft, H. Vandekerckhove and M. Vanderheyden. Loss of function interleukin 6 and toll-like receptor 4

polymorphisms and LV function in a cohort of European patients. European Journal of Heart Failure Supplements, Volume 3, Issue 1, June 2004, Page 123.

190. S. Mansour, M. Vanderheyden, B. Vandekerckhove, O. Nelis, B. De Bruyne, E. De Bondt, W. Wijns and J. Bartunek. Selected intracoronary ACC133+ bone marrow cells after acute myocardial infarction: safety, feasibility, and functional myocardial effects. International Journal of Cardiology, Volume 95, Supplement 1, June 2004, Pages S61-S62
191. Wilbert Aarnoudse, Bernard De Bruyne, William Fearon, Philip MacCarthy, Frans van de Vosse, Jacques Koolen, Maartje Geven and Nico Pijls. Epicardial stenosis severity does not affect minimal microcirculatory resistance. Journal of the American College of Cardiology, Volume 43, Issue 5, Supplement 1, 3 March 2004, Page A75
192. Ganesh Manoharan, NHJ Pijls, GR Heyndrickx, E. Barbato, V. Anckaer, B. De Bruyne. Intrarenal bolus Dopamine induces maximum increase in renal blood flow following varying hyperemic stimuli in humans. Circulation 2004 Oct 26;110(17):III-614
193. Jozef Bartunek, Jeffrey D. Croissant, Bernard De Bruyne, William Wijns, Martin Penicka, Marc Vanderheyden, Ike W. Lee, Guy R. Heyndrickx. Ex vivo cardiac specification of adult bone marrow-derived mesenchymal stem cells is feasible using biological growth factors and facilitates cardiac repair of the chronically infarcted myocardium. Circulation 2004 Oct 26;110(17):III-69
194. Marc Vanderheyden, Samer Mansour, Bart Vandekerckhove, Pieter De Bondt, Inge Van Haute, Nele Lootens, Bernard De Bruyne, Guy R. Heyndrickx, William Wijns, Jozef Bartunek. Selected intracoronary CD133⁺ bone marrow cells promote cardiac regeneration after acute myocardial infarctions. Circulation 2004 Oct 26;110:III-324
195. Juraj Madaric, Jozef Bartunek, Eddy van Schuerbeeck, Hans Vandekerckhove, Linda Mortier, Brian Roelandt, Ilse De Wolf, Bernard De Bruyne. Hyperdynamic response to β-adrenergic stimulation in patients with angina-like chest pain and normal coronary arteries. Circulation 2004 Oct 26;110:III-512.
196. Berger A, MacCarthy PA, Siebert U, Carlier S, Wijns W, Heyndrickx G, Bartunek J, Vanermen H, De Bruyne B. Long-term patency of internal mammary artery bypass grafts: relationship with preoperative severity of the native coronary artery stenosis. Circulation. 2004 Sep 14;110(11 Suppl 1):II36-40.
197. Giedrius Davidavicius, Frank Van Praet, Filip Casselman, Ivan Degrieck, Francis Wellens, Raphael De Geest, Hugo Vanermen, Bernard De Bruyne. Closed-chest hybrid revascularization: the association of robotically enhanced MIDCAB and PCI. Circulation 2004 Oct 26;110:III-586
198. Samer Mansour, Marc Vanderheyden, William Wijns, Bernard De Bruyne, Guy R. Heyndrickx, Olivier Nelis, Frank Staelens, Jozef Bartunek. Intracoronary hematopoietic CD 133⁺ bone marrow and in-stent restenosis and coronary atherosclerosis progression in patients with recent anterior myocardial infarction. Circulation 2004 Oct 26;110:III-743
199. Juraj Madaric, Marc Vanderheyden, Christophe Van Laethem, William Wijns, Marc Goethals, Sofie Verstreken, Peter Geelen, Bernard De Bruyne, Jozef Bartunek. Contractile Reserve and Exercise-induced left ventricular asynchrony predict acute

effects of cardiac resynchronization therapy on mitral regurgitation. Circulation 2005; 112(17):II-340

200. Juraj Madaric, Ganesh Manoharan, Benny Drieghe, Guy R. Heyndrickx, Nico H.J. Pijls, Bernard De Bruyne. Assessment of renal artery stenosis severity by invasive pressure gradient, quantitative angiography and color duplex ultrasound – comparative study. Circulation 2005; 112(17):II-363
201. Juraj Madaric, Marc Vanderheyden, Christophe Van Laethem, William Wijns, Sofie Verstreken, Marc Goethals, Bernard De Bruyne, Jozef Bartunek. Cardiopulmonary performance, dynamic mitral regurgitation and left ventricular remodeling, early and late after cardiac resynchronization therapy. An exercise echocardiography study. Circulation 2005; 112:II-405
202. David J Cohen, Brian Dulisse, Jun Zhang, Jason W Ryan, Bernard De Bruyne, Ben A Van Hout, Patrick W Serruys. Cost-effectiveness of PCI with or without drug-eluting stents vs bypass surgery for treatment of multivessel disease: 1-year results from the ARTS I and ARTS II trials. Circulation 2005; 112:II-550
203. Emanuele Barbato, Alexandre Berger, Leen Delrue, Eddy Van Schuerbeeck, Ganesh Manoharan, Guy R Heyndrickx, Bernard De Bruyne, William W Wijns, Jozef Bartunek. *GLU27* Variant of $\beta 2$ -adrenergic receptor polymorphism is a risk factor for coronary artery disease. Circulation 2005; 112:II-627
204. Jozef Bartunek, Samer Mansour, Bernard De Bruyne, Bart Vandekerckhove, Inge Van Haute, Guy R Heyndrickx, Stephane Carlier, William Wijns, Marc Vanderheyden. Intracoronary enriched hematopoietic bone marrow stem cells; effects on in-stent restenosis and progression of coronary atherosclerosis in patients with recent myocardial infarction. Circulation 2005; 112:II-750
205. Penicka M, Vanderheyden M, Geelen P, Mortier L, Linkova H, Hermand D, De Bruyne B, Bartunek J. Tissue Doppler imaging predicts long-term clinical outcome after cardiac resynchronization therapy. Eur Heart J 2005; 26:P503 (suppl)
206. Madaric J, Watripont P, Bartunek J, De Clerck J, Van Praet F, Casselman F, Vanermen H, De Bruyne B. Early mitral valve repair in asymptomatic or little symptomatic patients with organic mitral regurgitation; effect on exercise tolerance. Eur Heart J 2005; 26:P1251 (suppl)
207. Manoharan G, Madaric J, Heyndrickx GR, Wijns W, Lameire N, Bartunek J, Pijls NHJ, De Bruyne B. What is a significant renal artery stenosis? Eur Heart J 2005; 26:P3985 (suppl)
208. Barbato E, Delrue L, Manoharan G, Wijns W, Heyndrickx GR, De Bruyne B, Ciampo Q, Bartunek J. *GLU27* variant of beta 2 adrenergic receptor polymorphism is a risk factor for coronary artery disease. Eur Heart J 2005; 26:P1031 (suppl)
209. Vanderheyden M, Mansour S, Vandekerckhove B, De Bruyne B, De Bondt P, Van Haute I, Wijns W, Bartunek J. Intracoronary injection of enriched CD133+ bone marrow cells promotes cardiac recovery after recent myocardial infarction. Eur Heart J 2005; 26:P3937 (suppl)
210. Manoharan G, Madaric J, Bartunek J, Heyndrickx GR, Pijls NHJ, De Bruyne B. Assessment of renal artery stenosis severity: comparison of invasive pressure gradient, quantitative angiography and Doppler ultrasound. Eur Heart J 2005; 26:P3989 (suppl)

211. Mansour S, Vanderheyden M, Wijns W, De Bruyne B, Heyndrickx GR, Nelis O, Staelens F, Bartunek J. Effects of intracoronary administration of enriched haematopoietic bone marrow stem cells on in-stent restenosis & progression of
212. coronary atherosclerosis in patients with recent myocardial infarction. Eur Heart J 2005; 26(suppl)870.
213. Van Schaardenburgh P, Bech GJW, De Bruyne B, Hoornsteijn J, Michels HR, Koolen JJ, Bartunek J, Pijls NHJ. It is necessary to stent non-ischaemic stenoses? Five year follow-up of the DEFER study. Eur Heart J 2005; 26(suppl)3747.
214. Wilfried Mullens, Jozef Bartunek, Leen Delrue, Lieven Herbots, Bernard De Bruyne, Peter Geelen, Marc Goethals, Sofie Verstreken, Herbert De Raedt, Rik Willems, Marc Vanderheyden. Early and late effects of cardiac resynchronization therapy upon force-frequency relation and calcium regulatory gene expression in heart failure patients. Circulation 2006;18, II-402
215. Wilfried Mullens, Jozef Bartunek, Leen Delrue, Marc Goethals, Peter Geelen, Sofie Verstreken, Bernard De Bruyne, Olivier Nelis, Marc Vanderheyden. Endomyocardial upregulation of β 1-Adrenoreceptor gene expression and myocardial contractile reserve following cardiac resynchronization therapy. Circulation 2006;18, II-405
216. Habib Samady, Michael C McDaniel, Emir Veledar, Bernard De Bruyne, Nico H Pijls, Tarek A Helmy, Kreton Mavromatis, Ziyad M Ghazzal, Viola Vaccarino. Pre-stent fractional flow reserve and stent diameter predict optimal post stent fractional flow reserve: implications for selection of drug eluting stents. Circulation 2006;18, II-784
217. J Madaric, M Vanderheyden, A Feys, Ch Van Laethem, M Goethals, S Verstreken, B De Bruyne, J Bartunek. Functional mitral regurgitation, left ventricular remodeling, cardiopulmonary performance early and late after cardiac resynchronization therapy: an exercise echocardiography study. European Heart Journal, Volume 27, Sept 2006, P1222
218. TJR De Potter, J Bartunek, S Vercauteran, S Verstreken, M Goethals, F Wellens, B De Bruyne, M Vanderheyden. Functional evaluation using intracoronary pressure-flow derived analysis to detect transplant coronary vasculopathy. European Heart Journal, Volume 27, Sept 2006, P3062.
219. W Mullens, J Bartunek, M Goethals, S Verstreken, P Geelen, B De Bruyne, M Vanderheyden. Acute recruitment of myocardial contractile reserve in heart failure patients after cardiac resynchronization therapy. European Heart Journal, Volume 27, Sept 2006, P3762.
220. W Mullens, J Bartunek, M Goethals, S Verstreken, P Geelen, B De Bruyne, M Vanderheyden. Effects of cardiac resynchronization therapy upon left ventricular force frequency relationship in heart failure patients. European Heart Journal, Volume 27, Sept 2006, P3764.
221. M Penicka , P Gregor, P Widimsky, M Havlikova, K Medilek, D Herman, B De Bruyne, J Bartunek. Prevalence of significant cardiac dyssynchrony in patients with severe ischemic dysfunction undergoing surgical myocardial revascularization: impact on functional outcomes. European Heart Journal, Volume 27, Sept 2006, P539
222. N Melikian, MR Thomas, MT Kearny, B De Bruyne, AM Shah, PA MacCarthy. Coronary flow reserve (CFR) does not adequately interrogate coronary

microvascular function. European Heart Journal, Volume 27, Sept 2006, P3068

223. W Aarnoudse, NHJ Pijs, S Vercauteran, M Van 'T Veer, M Geven, F Van De Vosse, B De Bruyne. Absolute blood flow measurement in coronary arteries in humans by continuous thermodilution. European Heart Journal, Volume 27, Sept 2006, P3061
225. NHJ Pijs, W Aarnoudse, S Vercauteran, M Geven, M Van 'T Veer , F De Vosse, B De Bruyne. A novel technique for measuring absolute coronary blood flow by continuous infusion of saline: reproducibility in humans. European Heart Journal, Volume 27, Sept 2006, P3067
226. N. Melikian, P. De Bondt, T. Cuisset, E. Wyffels, J. Bartunek, G. Heyndrickx, W. Wijns, B. De Bruyne. Fractional flow reserve (FFR) and MIBI SPECT: a comparison in patient with multivessel coronary disease. Circulation 2007; 116:II720-3332.
227. J. Madaric, M. Vanderheyden, C. Van Laethem, A. Feys, S. Verstreken, M. Goethals, B. De Bruyne, J. Bartunek. Factors and Mechanisms Associated with Improved Cardiopulmonary performance after cardiac resynchronization therapy. An exercise echocardiography study. Circulation 2007; 116:II335-1603.
226. Ferrero V, Ribichini F, Piessens M, Heyndrickx GR, Verbeke L, de Bruyne B, Feola M, Vassanelli C, Wijns W. Intracoronary beta-irradiation for the treatment of de novo lesions: 5-year clinical follow-up of the BetAce randomized trial. Am Heart J. 2007.
227. Valgimigli M, Dawkins K, Macaya C, de Bruyne B, Teiger E, Fajadet J, Gert R, De Servi S, Ramondo A, Wittebol K, Stoll HP, Rademaker TA, Serruys PW. Impact of stable versus unstable coronary artery disease on 1-year outcome in elective patients undergoing multivessel revascularization with sirolimus-eluting stents: a subanalysis of the ARTS II trial. J Am Coll Cardiol. 2007.
228. Dupont M, Mullens W, De Bruyne B, Vanermen H. Myotomy through heart-port access for myocardial bridging. Int J Cardiol. 2007 Feb 23;
229. Barbato E, Berger A, Delrue L, Van Durme F, Manoharan G, Boussy T, Heyndrickx GR, De Bruyne B, Ciampi Q, Vanderheyden M, Wijns W, Bartunek J. GLU-27 variant of beta2-adrenergic receptor polymorphisms is an independent risk factor for coronary atherosclerotic disease. Atherosclerosis. 2007 Oct.
230. Jozef Bartunek, Jeffrey D Croissant, William Wijns, Stephanie Gofflot, Aurore de Lavareille, Marc Vanderheyden, Yulia Kaluzhny, Naïma Mazouz, Philippe Willemens, Martin Penicka, Myrielle Mathieu, Christian Homsy, Bernard De Bruyne, Kathleen McEntee, Ike W Lee, Guy R Heyndrickx. Pretreatment of adult bone marrow mesenchymal stem cells with cardiomyogenic growth factors and repair of the chronically infarcted myocardium. Am J Physiol Heart Circ Physiol. 2007.
231. Penicka M, Tousek P, De Bruyne B, Wijns W, Lang O, Madaric J, Vanderheyden M, Tintera J, Maly M, Widimsky P, Bartunek J. Myocardial positive pre-ejection velocity accurately detects presence of viable myocardium, predicts recovery of left ventricular function and bears a prognostic value after surgical revascularization. Eur Heart J. 2007;28(11):1366-73.
232. Melikian N, Kearney MT, Thomas MR, De Bruyne B, Shah AM, MacCarthy PA.A simple thermodilution technique to assess coronary endothelium-dependent microvascular function in humans: validation and comparison with coronary flow reserve. Eur Heart J. 2007

233. Fearon WF, Tonino PA, De Bruyne B, Siebert U, Pijls NH; FAME Study Investigators.Rationale and design of the fractional flow reserve versus angiography for multivessel evaluation (FAME) study. Am Heart J. 2007
234. Emanuele Barbato, Martin Penicka, Leen Delrue, Frederic Van Durme, Bernard De Bruyne, Marc Goethals, William Wijns, Marc Vanderheyden, Jozef Bartunek. Thr164I/e polymorphism of β 2-adrenergic receptor negatively modulates cardiac contractility: implications for prognosis in patients with idiopathic cardiomyopathy. Heart. 2007;93(7):856-61.
235. Madaric J, Watripont P, Bartunek J, Casselman F, Vanderheyden M, Van Praet F, Wijns W, Feys A, Vanermen H, De Bruyne B. Effect of mitral valve repair on exercise tolerance in asymptomatic patients with organic mitral regurgitation. Am Heart J. 2007.
236. Juraj Madaric, Marc Vanderheyden, Christophe Van Laethem, Katia Verhamme, Ann Feys, Marc Goethals, Sofie Verstreken, Peter Geelen, Martin Penicka, Bernard De Bruyne and Jozef Bartunek. Early and late effects of cardiac resynchronization therapy on exercise-induced mitral regurgitation: relationship with left ventricular dyssynchrony, remodelling and cardiopulmonary performance, Eur Heart J. 2007.
237. Pijls NH, van Schaardenburgh P, Manoharan G, Boersma E, Bech JW, van't Veer M, Bär F, Hoornje J, Koolen J, Wijns W, de Bruyne B. Percutaneous coronary intervention of functionally nonsignificant stenosis: 5-year follow-up of the DEFER Study. J Am Coll Cardiol. 2007.
238. Penicka M, Bartunek J, Lang O, Medilek K, Tousek P, Vanderheyden M, De Bruyne B, Maruska M, Widimsky P. Severe left ventricular dyssynchrony is associated with poor prognosis in patients with moderate systolic heart failure undergoing coronary artery bypass grafting. J Am Coll Cardiol. 2007.
239. Erbel R, Di Mario C, Bartunek J, Bonnier J, de Bruyne B, Eberli FR, Erne P, Haude M, Heublein B, Horrigan M, Ilsley C, Böse D, Koolen J, Lüscher TF, Weissman N, Waksman R; PROGRESS-AMS (Clinical Performance and Angiographic Results of Coronary Stenting with Absorbable Metal Stents) Investigators.Temporary scaffolding of coronary arteries with bioabsorbable magnesium stents: a prospective, non-randomised multicentre trial. Lancet. 2007.
240. Penicka M, Vanderheyden M, Geelen P, Mortier L, Goethals M, Verstreken S, Karasek J, De Bruyne B, Bartunek J. Tissue Doppler predicts long-term clinical outcome after cardiac resynchronization therapy. Int J Cardiol. 2007 Mar 23
241. Madaric J, Mistrik A, Rieckensky I, Vulev I, Pacak J, Verhamme K, De Bruyne B, Fridrich V, Bartunek J. Left internal mammary artery bypass dysfunction after revascularization of moderately narrowed coronary lesions. Colour-duplex ultrasound versus angiography study. Eur J Echocardiogr. 2007 Jun 20;
242. Valgimigli M, Serruys PW, Tsuchida K, Vaina S, Morel MA, van den Brand MJ, Colombo A, Morice MC, Dawkins K, de Bruyne B, Kornowski R, de Servi S, Guagliumi G, Jukema JW, Mohr FW, Kappetein AP, Wittebolts K, Stoll HP, Boersma E, Parrinello G. ARTS II. Cyphering the complexity of coronary artery disease using the syntax score to predict clinical outcome in patients with three-vessel lumen obstruction undergoing percutaneous coronary intervention. Am J Cardiol. 2007.
243. Wijns W, De Bruyne B, Vanhoenacker PK.What does the clinical cardiologist need from noninvasive cardiac imaging: is it time to adjust practices to meet evolving demands. J Nucl Cardiol. 2007.

244. Tanimoto S, Serruys PW, Thuesen L, Dudek D, de Bruyne B, Chevalier B, Ormiston JA. Comparison of in vivo acute stent recoil between the bioabsorbable everolimus-eluting coronary stent and the everolimus-eluting cobalt chromium coronary stent: Insights from the ABSORB and SPIRIT trials. *Catheter Cardiovasc Interv*. 2007.
245. Aarnoudse W, Van't Veer M, Pijls NH, Ter Woorst J, Vercauteren S, Tonino P, Geven M, Rutten M, van Hagen E, de Bruyne B, van de Vosse F. Direct volumetric blood flow measurement in coronary arteries by thermodilution. *J Am Coll Cardiol*. 2007.
246. Melikian N, Cuisset T, Hamilos M, De Bruyne B. Fractional flow reserve - The influence of the collateral circulation. *Int J Cardiol*. 2007 Dec 3