

11. Literatur

1. Picano E, Lattanzi F, Orlandini A, Marini C, L'Abbate A. Stress echocardiography and the human factor: the importance of being expert. *J Am Coll Cardiol* 1991; 17: 666-669.
2. Mele D, Teoli R, Cittanti C, Pasanisi G, Guardigli G, Levine RA, Ferrari R. Assessment of left ventricular volume and function by integration of simplified 3D echocardiography, tissue harmonic imaging and automated extraction of endocardial borders. *Int J Cardiovasc Imaging* 2004; 20: 191-202.
3. Kuhl HP, Hanrath P, Franke A. M-mode echocardiography overestimates left ventricular mass in patients with normal left ventricular shape: a comparative study using three-dimensional echocardiography. *Eur J Echocardiogr* 2003; 4: 312-319.
4. Zhuang L, Wang XF, Xie MX, Chen LX, Fei HW, Yang Y, Wang J, Huang RQ, Chen OD, Wang LY. Experimental study of quantitative assessment of left ventricular mass with contrast enhanced real-time three-dimensional echocardiography. *J Cardiol* 2004; 43: 23-29.
5. Gutberlet M, Abdul-Khalil H, Grothoff M, Schroter J, Schmitt B, Rottgen R, Lange P, Vogel M, Felix R. Vergleich der transthorakalen 3D-Echokardiographie mit der MRT zur Bestimmung linksventrikulärer Volumina bei Patienten mit pathologischer Ventrikelgeometrie aufgrund angeborener Herzfehler. *Fortschr Röntgenstr* 2003; 175: 942-951.
6. Hubka M, Mantei K, Bolson E, Coady K, Sheehan F. Measurement of right ventricular mass and volume by three-dimensional echocardiography by freehand scanning. *Comput Cardiol* 2000; 27: 703-706.
7. Berninger WH, Redington RW, Doherty P, Lipton MJ, Carlsson E. Gated cardiac scanning: canine studies. *J Comput Assist Tomogr* 1979; 3: 155-163.
8. Heuschmid M, Kuttner A, Schroder S, Trebar B, Burgstahler C, Mahnken A, Niethammer M, Trabold T, Kopp AF, Claussen CD. Bestimmung linksventrikulärer Funktionsparameter mittels EKG-gesteuerter Mehrschicht-Computertomographie im Vergleich mit der invasiven Ventrikulographie. *Fortschr Röntgenstr* 2003; 175: 1349-1354.
9. Enzweiler CN, Becker CR, Felix R, Georgi M, Knollmann FD, Lehmann KJ, Lembecke A, Reiser MF, Rogalla P, Taupitz M, Weisser G, Wiese TH, Hamm B. Diagnostische Wertigkeit der Elektronenstrahl-Computertomographie (EBT). I. Kardiale Anwendungen. *Fortschr Röntgenstr* 2004; 176: 27-36.
10. Freeman AP, Giles RW, Walsh WF, Fisher R, Murray IP, Wilcken DE. Regional left ventricular wall motion assessment: comparison of two-dimensional echocardiography and radionuclide angiography with contrast angiography in healed myocardial infarction. *Am J Cardiol* 1985; 56: 8-12.
11. Little WC, Braunwald E. Assessment of cardiac function. In: Braunwald E, ed. *Heart disease*. Philadelphia, W.B. Saunders Company, 1997, 421-444.

12. Kim RJ, Wu E, Rafael A, Chen E, Parker MA, Simonetti O, Klocke FJ, Bonow RO, Judd RM. The use of contrast-enhanced magnetic resonance imaging to identify reversible myocardial dysfunction. *N Engl J Med* 2000; 343: 1445-1453.
13. Kitaoka H, Matsumura Y, Yamasaki N, Kondo F, Furuno T, Doi Y. Long-term prognosis of patients with mildly dilated cardiomyopathy. *Circ J* 2002; 66: 557-560.
14. Lee TH, Hamilton MA, Stevenson LW, Moriguchi JD, Fonarow GC, Child JS, Laks H, Walden JA. Impact of left ventricular cavity size on survival in advanced heart failure. *Am J Cardiol* 1993; 72: 672-676.
15. Laks H, Marelli D. The current role of left ventricular reduction for treatment of heart failure. *J Am Coll Cardiol* 1998; 32: 1809-1810.
16. Bolognese L, Neskovic AN, Parodi G, Cerisano G, Buonamici P, Santoro GM, Antonucci D. Left ventricular remodeling after primary coronary angioplasty: patterns of left ventricular dilation and long-term prognostic implications. *Circulation* 2002; 106: 2351-2357.
17. Hundley WG, Morgan TM, Neagle CM, Hamilton CA, Rerkpattanapipat P, Link KM. Magnetic resonance imaging determination of cardiac prognosis. *Circulation* 2002; 106: 2328-2333.
18. Bonow RO. Aortic Regurgitation. *Curr Treat Options Cardiovasc Med* 2000; 2: 125-132.
19. Zehender M, Kasper W, Kauder E, Schonthaler M, Geibel A, Olschewski M, Just H. Right ventricular infarction as an independent predictor of prognosis after acute inferior myocardial infarction. *N Engl J Med* 1993; 328: 981-988.
20. Ghio S, Gavazzi A, Campana C, Inserra C, Klersy C, Sebastiani R, Arbustini E, Recusani F, Tavazzi L. Independent and additive prognostic value of right ventricular systolic function and pulmonary artery pressure in patients with chronic heart failure. *J Am Coll Cardiol* 2001; 37: 183-188.
21. Chemla D, Castelain V, Herve P, Lecarpentier Y, Brimioule S. Haemodynamic evaluation of pulmonary hypertension. *Eur Respir J* 2002; 20: 1314-1331.
22. Grifoni S, Olivotto I, Cecchini P, Pieralli F, Camaiti A, Santoro G, Conti A, Agnelli G, Berni G. Short-term clinical outcome of patients with acute pulmonary embolism, normal blood pressure, and echocardiographic right ventricular dysfunction. *Circulation* 2000; 101: 2817-2822.
23. Helbing WA, Bosch HG, Maliepaard C, Rebergen SA, van der Geest RJ, Hansen B, Ottenkamp J, Reiber JH, de Roos A. Comparison of echocardiographic methods with magnetic resonance imaging for assessment of right ventricular function in children. *Am J Cardiol* 1995; 76: 589-594.
24. Bogaert J, Rademakers FE. Regional nonuniformity of normal adult human left ventricle. *Am J Physiol Heart Circ Physiol* 2001; 280: H610-620.
25. Johnson T, Hahn D, Sandstede J. Quantitative Analyse der linksventrikulären Wandbewegung mit MR-tagging. *Radiologe* 2004; 44: 158-163.

26. McClements BM, Weyman AE, Newell JB, Picard MH. Echocardiographic determinants of left ventricular ejection fraction after acute myocardial infarction. *Am Heart J* 2000; 140: 284-289.
27. Kjoller E, Kober L, Jorgensen S, Torp-Pedersen C. Short and long term prognostic importance of regional dyskinesia versus akinesia in acute myocardial infarction. *Heart* 2002; 87: 410-414.
28. Kjoller E, Kober L, Jorgensen S, Torp-Pedersen C. Long-term prognostic importance of hyperkinesia following acute myocardial infarction. TRACE Study Group. TRAndolapril Cardiac Evaluation. *Am J Cardiol* 1999; 83: 655-659.
29. Fauchier L, Eder V, Casset-Senon D, Marie O, Babuty D, Cosnay P, Fauchier JP. Segmental wall motion abnormalities in idiopathic dilated cardiomyopathy and their effect on prognosis. *Am J Cardiol* 2004; 93: 1504-1509.
30. Bussani R, Abbate A, Biondi-Zocca GG, Dobrina A, Leone AM, Camilot D, Di Marino MP, Baldi F, Silvestri F, Biasucci LM, Baldi A. Right ventricular dilatation after left ventricular acute myocardial infarction is predictive of extremely high peri-infarctual apoptosis at postmortem examination in humans. *J Clin Pathol* 2003; 56: 672-676.
31. Oakley C. Importance of right ventricular function in congestive heart failure. *Am J Cardiol* 1988; 62: 14A-19A.
32. Bleasdale RA, Frenneaux MP. Prognostic importance of right ventricular dysfunction. *Heart* 2002; 88: 323-324.
33. Kayser HW, van der Wall EE, Sivananthan MU, Plein S, Bloomer TN, de Roos A. Diagnosis of arrhythmogenic right ventricular dysplasia: a review. *Radiographics* 2002; 22: 639-648; discussion 649-650.
34. Davlouros PA, Kilner PJ, Hornung TS, Li W, Francis JM, Moon JC, Smith GC, Tat T, Pennell DJ, Gatzoulis MA. Right ventricular function in adults with repaired tetralogy of Fallot assessed with cardiovascular magnetic resonance imaging: detrimental role of right ventricular outflow aneurysms or akinesia and adverse right-to-left ventricular interaction. *J Am Coll Cardiol* 2002; 40: 2044-2052.
35. Lauterbur PC. Image formation by induced local interactions. Examples employing nuclear magnetic resonance. 1973. *Clin Orthop* 1989; 3-6.
36. Damadian R, Goldsmith M, Minkoff L. NMR in cancer: XVI. FONAR image of the live human body. *Physiol Chem Phys* 1977; 9: 97-100, 108.
37. Hawkes RC, Holland GN, Moore WS, Roebuck EJ, Worthington BS. Nuclear magnetic resonance (NMR) tomography of the normal heart. *J Comput Assist Tomogr* 1981; 5: 605-612.
38. Alfidi RJ, Haaga JR, El-Yousef SJ, Bryan PJ, Fletcher BD, LiPuma JP, Morrison SC, Kaufman B, Richey JB, Hinshaw WS, Kramer DM, Yeung HN, Cohen AM, Butler HE, Ament AE, Lieberman JM. Preliminary experimental results in humans and animals with a superconducting, whole-body, nuclear magnetic resonance scanner. *Radiology* 1982; 143: 175-181.
39. Byrd BF, 3rd, Schiller NB, Botvinick EH, Higgins CB. Normal cardiac dimensions by magnetic resonance imaging. *Am J Cardiol* 1985; 55: 1440-1442.

40. Kaul S, Wismer GL, Brady TJ, Johnston DL, Weyman AE, Okada RD, Dinsmore RE. Measurement of normal left heart dimensions using optimally oriented MR images. *Am J Roentgenol* 1986; 146: 75-79.
41. Matthaei D, Frahm J, Haase A, Merboldt KD, Hanicke W. FLASH-Tomographie. Ein Schnellbildverfahren für die Kernspintomographie. *Dtsch Med Wochenschr* 1986; 111: 909-914.
42. Dulce MC, Mostbeck GH, Friese KK, Caputo GR, Higgins CB. Quantification of the left ventricular volumes and function with cine MR imaging: comparison of geometric models with three-dimensional data. *Radiology* 1993; 188: 371-376.
43. Lorenz CH, Walker ES, Graham TP, Jr., Powers TA. Right ventricular performance and mass by use of cine MRI late after atrial repair of transposition of the great arteries. *Circulation* 1995; 92: II233-239.
44. Fujimoto S, Mizuno R, Nakagawa Y, Dohi K, Nakano H. Estimation of the right ventricular volume and ejection fraction by transthoracic three-dimensional echocardiography. A validation study using magnetic resonance imaging. *Int J Card Imaging* 1998; 14: 385-390.
45. Katz J, Whang J, Boxt LM, Barst RJ. Estimation of right ventricular mass in normal subjects and in patients with primary pulmonary hypertension by nuclear magnetic resonance imaging. *J Am Coll Cardiol* 1993; 21: 1475-1481.
46. Rominger MB, Bachmann GF, Geuer M, Puzik M, Boedeker RH, Ricken WW, Rau WS. Genauigkeit der rechts- und linksventrikulären Herzvolumen- und linksventrikulären Muskelmassenbestimmung mittels Cine MRT in Atemanhaltetechnik. *Fortschr Röntgenstr* 1999; 170: 54-60.
47. Sechtem U, Sommerhoff BA, Markiewicz W, White RD, Cheitlin MD, Higgins CB. Regional left ventricular wall thickening by magnetic resonance imaging: evaluation in normal persons and patients with global and regional dysfunction. *Am J Cardiol* 1987; 59: 145-151.
48. Sechtem U, Pflugfelder PW, White RD, Gould RG, Holt W, Lipton MJ, Higgins CB. Cine MR imaging: potential for the evaluation of cardiovascular function. *Am J Roentgenol* 1987; 148: 239-246.
49. Sechtem U, Pflugfelder PW, Gould RG, Cassidy MM, Higgins CB. Measurement of right and left ventricular volumes in healthy individuals with cine MR imaging. *Radiology* 1987; 163: 697-702.
50. Pattynama PM, Lamb HJ, van der Velde EA, van der Wall EE, de Roos A. Left ventricular measurements with cine and spin-echo MR imaging: a study of reproducibility with variance component analysis. *Radiology* 1993; 187: 261-268.
51. Lethimonnier F, Furber A, Balzer P, Morel O, Rouleau F, Delepine S, Pezard P, Geslin P, Jallet P, Le Jeune JJ. Global left ventricular cardiac function: comparison between magnetic resonance imaging, radionuclide angiography, and contrast angiography. *Invest Radiol* 1999; 34: 199-203.
52. Heusch A, Koch JA, Krogmann ON, Korbmacher B, Bourgeois M. Volumetric analysis of the right and left ventricle in a porcine heart model: comparison of three-dimensional echocardiography, magnetic resonance imaging and angiocardiography. *Eur J Ultrasound* 1999; 9: 245-255.

53. Sandstede J, Lipke C, Beer M, Hofmann S, Pabst T, Kenn W, Neubauer S, Hahn D. Age- and gender-specific differences in left and right ventricular cardiac function and mass determined by cine magnetic resonance imaging. *Eur Radiol* 2000; 10: 438-442.
54. Zerhouni EA, Parish DM, Rogers WJ, Yang A, Shapiro EP. Human heart: tagging with MR imaging - a method for noninvasive assessment of myocardial motion. *Radiology* 1988; 169: 59-63.
55. Axel L, Dougherty L. Heart wall motion: improved method of spatial modulation of magnetization for MR imaging. *Radiology* 1989; 172: 349-350.
56. Axel L, Dougherty L. MR imaging of motion with spatial modulation of magnetization. *Radiology* 1989; 171: 841-845.
57. Atkinson DJ, Edelman RR. Cineangiography of the heart in a single breath hold with a segmented turboFLASH sequence. *Radiology* 1991; 178: 357-360.
58. Sakuma H, Fujita N, Foo TK, Caputo GR, Nelson SJ, Hartiala J, Shimakawa A, Higgins CB. Evaluation of left ventricular volume and mass with breath-hold cine MR imaging. *Radiology* 1993; 188: 377-380.
59. Carr JC, Simonetti O, Bundy J, Li D, Pereles S, Finn JP. Cine MR angiography of the heart with segmented true fast imaging with steady-state precession. *Radiology* 2001; 219: 828-834.
60. Pereles FS, Kapoor V, Carr JC, Simonetti OP, Krupinski EA, Baskaran V, Finn JP. Usefulness of segmented trueFISP cardiac pulse sequence in evaluation of congenital and acquired adult cardiac abnormalities. *Am J Roentgenol* 2001; 177: 1155-1160.
61. Thiele H, Nagel E, Paetsch I, Schnackenburg B, Bornstedt A, Kouwenhoven M, Wahl A, Schuler G, Fleck E. Functional cardiac MR imaging with steady-state free precession (SSFP) significantly improves endocardial border delineation without contrast agents. *J Magn Reson Imaging* 2001; 14: 362-367.
62. Moon JC, Lorenz CH, Francis JM, Smith GC, Pennell DJ. Breath-hold FLASH and FISP cardiovascular MR imaging: left ventricular volume differences and reproducibility. *Radiology* 2002; 223: 789-797.
63. White HD, Norris RM, Brown MA, Brandt PW, Whitlock RM, Wild CJ. Left ventricular end-systolic volume as the major determinant of survival after recovery from myocardial infarction. *Circulation* 1987; 76: 44-51.
64. Hamer AW, Takayama M, Abraham KA, Roche AH, Kerr AR, Williams BF, Ramage MC, White HD. End-systolic volume and long-term survival after coronary artery bypass graft surgery in patients with impaired left ventricular function. *Circulation* 1994; 90: 2899-2904.
65. Borow KM, Green LH, Mann T, Sloss LJ, Braunwald E, Collins JJ, Cohn L, Grossman W. End-systolic volume as a predictor of postoperative left ventricular performance in volume overload from valvular regurgitation. *Am J Med* 1980; 68: 655-663.

66. Folland ED, Parisi AF, Moynihan PF, Jones DR, Feldman CL, Tow DE. Assessment of left ventricular ejection fraction and volumes by real-time, two-dimensional echocardiography. A comparison of cineangiographic and radionuclide techniques. *Circulation* 1979; 60: 760-766.
67. Wyatt HL, Heng MK, Meerbaum S, Gueret P, Hestenes J, Dula E, Corday E. Cross-sectional echocardiography. II. Analysis of mathematic models for quantifying volume of the formalin-fixed left ventricle. *Circulation* 1980; 61: 1119-1125.
68. Bohn J, Rienmuller R, Seiderer M, Strauer BE. Die nichtinvasive Bestimmung des enddiastolischen Volumens des linken Ventrikels. Eine vergleichende angiokardiographische, zweidimensional echokardiographische, computertomographische und radionuklidventrikulographische Untersuchung. *Z Kardiol* 1983; 72: 438-447.
69. Semelka RC, Tomei E, Wagner S, Mayo J, Caputo G, O'Sullivan M, Parmley WW, Chatterjee K, Wolfe C, Higgins CB. Interstudy reproducibility of dimensional and functional measurements between cine magnetic resonance studies in the morphologically abnormal left ventricle. *Am Heart J* 1990; 119: 1367-1373.
70. McAnulty JH, Kremkau EL, Rosch J, Hattenhauer MT, Rahimtoola SH. Spontaneous changes in left ventricular function between sequential studies. *Am J Cardiol* 1974; 34: 23-28.
71. Schiller NB. Ejection fraction by echocardiography: the full monty or just a peep show? *Am Heart J* 2003; 146: 380-382.
72. Lindvall K, Hamsten A, Landou C, Szamosi A, de Faire U. Comparative study of echo- and angiocardiographically determined regional left ventricular wall motion in recent myocardial infarction. *Eur Heart J* 1984; 5: 533-544.
73. Cranney GB, Lotan CS, Dean L, Baxley W, Bouchard A, Pohost GM. Left ventricular volume measurement using cardiac axis nuclear magnetic resonance imaging. Validation by calibrated ventricular angiography. *Circulation* 1990; 82: 154-163.
74. Kivelitz DE, Enzweiler CN, Wiese TH, Lembcke A, Borges A, Zytowski M, Taupitz M, Hamm B. Bestimmung linksventrikulärer Funktionsparameter und der Myokardmasse: Vergleich von EBT und MRT. *Fortschr Röntgenstr* 2000; 172: 244-250.
75. Dor V, Saab M, Coste P, Kornaszewska M, Montiglio F. Left ventricular aneurysm: a new surgical approach. *Thorac Cardiovasc Surg* 1989; 37: 11-19.
76. Dor V, Montiglio F, Sabatier M, Coste P, Barletta G, Di Donato M, Toso A, Baroni M, Fantini F. Left ventricular shape changes induced by aneurysmectomy with endoventricular circular patch plasty reconstruction. *Eur Heart J* 1994; 15: 1063-1069.
77. Batista RJ, Santos JL, Takeshita N, Bocchino L, Lima PN, Cunha MA. Partial left ventriculectomy to improve left ventricular function in end-stage heart disease. *J Card Surg* 1996; 11: 96-97; discussion 98.
78. Batista R, Batista RJ, Verde J, Nery P, Bocchino L, Takeshita N, Bhayana JN, Bergsland J, Graham S, Houck JP, Salerno TA, Santos JL, Lima PN, Cunha MA. Partial left ventriculectomy - the Batista procedure. *Eur J Cardiothorac Surg* 1999; 15: S12-19; discussion S39-43.

79. Kivelitz DE, Hotz H, Borges AC, Enzweiler CN, Wiese TH, Lembcke A, Konertz W, Baumann G, Hamm B. Linksventrikuläre Volumenreduktion: Prä- und postoperative Evaluierung mit der Cine MRT. *Fortschr Röntgenstr* 2001; 173: 336-340.
80. Enzweiler CN, Wiese TH, Lembcke AE, Hotz H, Kivelitz DE, Baerisch A, Taupitz M, Borges AC, Baumann G, Konertz W, Hamm B. Effect of partial left ventriculectomy on left and right ventricular volumes and function as assessed with electron beam tomography: preliminary results. *Eur Radiol* 2003; 13: 1394-1401.
81. Konertz WF, Shapland JE, Hotz H, Dushe S, Braun JP, Stantke K, Kleber FX. Passive containment and reverse remodeling by a novel textile cardiac support device. *Circulation* 2001; 104: I270-275.
82. Raman JS, Byrne MJ, Power JM, Alferness CA. Ventricular constraint in severe heart failure halts decline in cardiovascular function associated with experimental dilated cardiomyopathy. *Ann Thorac Surg* 2003; 76: 141-147.
83. Raman JS, Hata M, Storer M, Power JM, Buxton BF, Alferness C, Hare D. The mid-term results of ventricular containment (ACORN WRAP) for end-stage ischemic cardiomyopathy. *Ann Thorac Cardiovasc Surg* 2001; 7: 278-281.
84. Lembcke A, Hotz H, Dushe S, Enzweiler CN, Wiese TH, Kivelitz DE, Rogalla P, Konertz W, Hamm B. Evaluierung der passiven Kardiomyoplastie mittels links- und rechtsventrikulärer EBCT- und MRT-Volumetrie bei Patienten mit chronischer Herzinsuffizienz. *Fortschr Röntgenstr* 2003; 175: 1086-1092.
85. Kober L, Torp-Pedersen C, Carlsen J, Videbaek R, Egeblad H. An echocardiographic method for selecting high risk patients shortly after acute myocardial infarction, for inclusion in multi-centre studies (as used in the TRACE study). TRAndolapril Cardiac Evaluation. *Eur Heart J* 1994; 15: 1616-1620.
86. Wintersperger BJ, Nikolaou K, Dietrich O, Rieber J, Nittka M, Reiser MF, Schoenberg SO. Single breath-hold real-time cine MR imaging: improved temporal resolution using generalized autocalibrating partially parallel acquisition (GRAPPA) algorithm. *Eur Radiol* 2003; 13: 1931-1936.
87. Sandstede JJ, Lipke C, Kenn W, Beer M, Pabst T, Hahn D. Cine MR imaging after myocardial infarction--assessment and follow-up of regional and global left ventricular function. *Int J Card Imaging* 1999; 15: 435-440.
88. Sandstede J, Lipke C, Beer M, Harre K, Pabst T, Kenn W, Neubauer S, Hahn D. CINE-MRT zur Untersuchung der Auswirkung regionaler linksventrikulärer Wandbewegungsstörungen auf die globale Herzfunktion nach Herzinfarkt und Revaskularisierung. *Fortschr Röntgenstr* 1999; 171: 424-430.
89. Sandstede J, Machann H, Machann W, Beer M, Johnson T, Harre K, Pabst T, Kenn W, Hahn D. Interindividuelle-Variabilität der regionalen myokardialen Wandfunktionsanalyse nach Herzinfarkt und Revaskularisierung. *Fortschr Röntgenstr* 2002; 174: 1147-1153.
90. Miller S, Huppert PE, Naegele T, Helber U, Brechtel K, Hoffmeister HM, Claussen CD. MR-tomographische Untersuchung myokardialer Funktion und Perfusion nach Myokardinfarkt. *Fortschr Röntgenstr* 1997; 167: 399-405.

91. Miller S, Hahn U, Bail DM, Helber U, Nagele T, Scheule AM, Schick F, Duda SH, Claussen CD. Kardio-MR zur Bestimmung linksventrikulärer Funktionsparameter. Fortschr Röntgenstr 1999; 170: 47-53.
92. Kramer U, Fenchel M, Helber U, Kraft A, Stauder NI, Franow A, Claussen CD, Miller S. Multislice TrueFISP-MR-Bildgebung zur Erkennung stressinduzierter myokardialer Funktionsstörungen bei koronarer Herzerkrankung. Fortschr Röntgenstr 2003; 175: 1355-1362.
93. Borges AC, Kivelitz D, Walde T, Reibis RK, Grohmann A, Panda A, Wernecke KD, Rutsch W, Hamm B, Baumann G. Apical tissue tracking echocardiography for characterization of regional left ventricular function: Comparison with magnetic resonance imaging in patients after myocardial infarction. J Am Soc Echocardiogr 2003; 16: 254-262.
94. Kivelitz DE, Borges AC, Walde T, Enzweiler CN, Rutsch W, Baumann G, Hamm B. Beurteilung regionaler Wandbewegungsstörungen des Herzens -Vergleich von Gewebe-Doppler-Echokardiographie, MR-Tagging und Lävokardiographie. Fortschr Röntgenstr 2004; 176: 1237-1244.
95. Elgeti T, Lembcke A, Enzweiler CN, Breitwieser C, Hamm B, Kivelitz DE. Comparison of electron beam computed tomography with magnetic resonance imaging in assessment of right ventricular volumes and function. J Comput Assist Tomogr 2004; 28: 679-685.
96. Alfakih K, Plein S, Bloomer T, Jones T, Ridgway J, Sivananthan M, Thiele H, Ridgway JP, Sivananthan MU, Bainbridge GJ. Comparison of right ventricular volume measurements between axial and short axis orientation using steady-state free precession magnetic resonance imaging. J Magn Reson Imaging 2003; 18: 25-32.
97. Lembcke A, Dohmen PM, Dewey M, Klessen C, Elgeti T, Hermann KG, Konertz WF, Hamm B, Kivelitz DE. Multislice computed tomography for preoperative evaluation of right ventricular volumes and function: comparison with magnetic resonance imaging. Ann Thorac Surg 2005; 79: 1344-1351.
98. Mannebach H, Hamm C, Horstkotte D. 18. Bericht über die Leistungszahlen der Herzkathetere labore in der Bundesrepublik Deutschland. Ergebnisse einer gemeinsamen Umfrage der Kommission für Klinische Kardiologie und der Arbeitsgruppen Interventionelle Kardiologie (für die ESC) und Angiologie der Deutschen Gesellschaft für Kardiologie - Herz- und Kreislauftforschung über das Jahr 2001. Z Kardiol 2002; 91: 727-729.
99. Lau KW, Ding ZP, Sim LL, Sigwart U. Clinical and angiographic outcome after angiography-guided stent placement in small coronary vessels. Am Heart J 2000; 139: 830-839.
100. Moreno R, Fernandez C, Alfonso F, Hernandez R, Perez-Vizcayno MJ, Escaned J, Sabate M, Banuelos C, Angiolillo DJ, Azcona L, Macaya C. Coronary stenting versus balloon angioplasty in small vessels: a meta-analysis from 11 randomized studies. J Am Coll Cardiol 2004; 43: 1964-1972.
101. Radke PW, Kaiser A, Frost C, Sigwart U. Outcome after treatment of coronary in-stent restenosis; results from a systematic review using meta-analysis techniques. Eur Heart J 2003; 24: 266-273.

102. Lethimonnier F, Bouligand B, Thouveny F, Furber A, Jallet P, Caron Poitreau C, Le Jeune JJ. Error assessment due to coronary stents in flow-encoded phase contrast MR angiography: a phantom study. *J Magn Reson Imaging* 1999; 10: 899-902.
103. Schnall MD, Barlow C, Harihara Subramanian V, Leigh JSJ. Wireless implanted magnetic resonance probes for in vivo NMR. *J Magn Reson* 1986; 68: 161-167.
104. Hollett MD, Cofer GP, Johnson GA. In situ magnetic resonance microscopy. *Invest Radiol* 1987; 22: 965-968.
105. Kivelitz D, Wagner S, Hansel J, Schnorr J, Wetzler R, Busch M, Melzer A, Taupitz M, Hamm B. The active magnetic resonance imaging stent (AMRIS): initial experimental in vivo results with locally amplified MR angiography and flow measurements. *Invest Radiol* 2001; 36: 625-631.
106. Taupitz M, Schnorr J, Wagner S, Abramjuk C, Pilgrimm H, Kivelitz D, Schink T, Hansel J, Laub G, Hunigen H, Hamm B. Coronary MR Angiography: Experimental Results with a Monomer-stabilized Blood Pool Contrast Medium. *Radiology* 2002; 222: 120-126.
107. Taupitz M, Schnorr J, Abramiuk C, Wagner S, Pilgrimm H, Hünigen H, Hamm B. New Generation of Monomer-Stabilized Very Small Superparamagnetic Iron Oxide Particles (VSOP) as Contrast Medium for MR Angiography - Preclinical Results in Rats and Rabbits. *J Magn Reson Med* 2000; 12: 905-911.
108. Kivelitz D, Wagner S, Schnorr J, Wetzler R, Busch M, Melzer A, Taupitz M, Hamm B. A vascular stent as an active component for locally enhanced magnetic resonance imaging: initial in vivo imaging results after catheter-guided placement in rabbits. *Invest Radiol* 2003; 38: 147-152.
109. Summers RM, Hedlund LW, Cofer GP, Gottsman MB, Manibo JF, Johnson GA. MR microscopy of the rat carotid artery after balloon injury by using an implanted imaging coil. *Magn Reson Med* 1995; 33: 785-789.
110. Beer M, Hahn D, Neubauer S. Human cardiac MR spectroscopy--clinical methods and applications. *MAGMA* 1998; 6: 113-115.
111. Sandstede JJ, Pabst T, Beer M, Lipke C, Baurle K, Butter F, Harre K, Kenn W, Voelker W, Neubauer S, Hahn D. Assessment of myocardial infarction in humans with ^{(23)Na} MR imaging: comparison with cine MR imaging and delayed contrast enhancement. *Radiology* 2001; 221: 222-228.
112. Lembcke A, Wiese TH, Enzweiler CN, Kivelitz DE, Dushe S, Dohmen PM, Borges AC, Rogalla P, Hamm B. Quantification of mitral valve regurgitation by left ventricular volume and flow measurements using electron beam computed tomography: comparison with magnetic resonance imaging. *J Comput Assist Tomogr* 2003; 27: 385-391.
113. Lembcke A, Dohmen PM, Dewey M, Klessen C, Elgeti T, Geigenmueller A, Westermann Y, Hermann KG, Hamm B, Kivelitz DE. Multislice Computed Tomography for Preoperative Evaluation of Right Ventricular Volumes and Function – Comparison with Magnetic Resonance Imaging. *Ann Thorac Surg* 2005; in press.
114. Yamaoka O, Yabe T, Okada M, Endoh S, Nakamura Y, Mitsunami K, Kinoshita M, Mori M, Murata K, Morita R. Evaluation of left ventricular mass: comparison of

- ultrafast computed tomography, magnetic resonance imaging, and contrast left ventriculography. *Am Heart J* 1993; 126: 1372-1379.
115. Schmermund A, Rensing BJ, Sheedy PF, Rumberger JA. Reproducibility of right and left ventricular volume measurements by electron-beam CT in patients with congestive heart failure. *Int J Card Imaging* 1998; 14: 201-209.
116. Bottini PB, Carr AA, Prisant LM, Flickinger FW, Allison JD, Gottdiener JS. Magnetic resonance imaging compared to echocardiography to assess left ventricular mass in the hypertensive patient. *Am J Hypertens* 1995; 8: 221-228.
117. Konertz W, Hotz H, Khoynezhad A, Zytowski M, Baumann G. Results after partial left ventriculectomy in a European heart failure population. *J Card Surg* 1999; 14: 129-135.
118. Konertz W, Khoynezhad A, Sidiropoulos A, Borak V, Baumann G. Early and intermediate results of left ventricular reduction surgery. *Eur J Cardiothorac Surg* 1999; 15 Suppl 1: S26-30; discussion S39-43.
119. Shah HR, Vaynblat M, Salciccioli L, Impellizzeri P, Cunningham JN, Jr., Chiavarelli M. Composite cardiac binding in experimental heart failure. *Ann Thorac Surg* 2000; 69: 429-434.
120. Kass DA, Baughman KL, Pak PH, Cho PW, Levin HR, Gardner TJ, Halperin HR, Tsitlik JE, Acker MA. Reverse remodeling from cardiomyoplasty in human heart failure. External constraint versus active assist. *Circulation* 1995; 91: 2314-2318.
121. Katayama H, Yamaguchi K, Kozuka T, Takashima T, Seez P, Matsuura K. Adverse reactions to ionic and nonionic contrast media. A report from the Japanese Committee on the Safety of Contrast Media. *Radiology* 1990; 175: 621-628.
122. Metz-Schimmerl S, Metz V, Domanovits H, Schima W, Herold C. Intravenöse Anwendung von jodiertem, nichtionischem, nieder- bis isoosmolarem Kontrastmittel: Sicherheitsaspekte. *Fortschr Röntgenstr* 2002; 174: 23-28.
123. Castillo E, Lima JA, Bluemke DA. Regional myocardial function: advances in MR imaging and analysis. *Radiographics* 2003; 23: S127-140.
124. Gotte MJ, van Rossum AC, Twisk JWR, Kuij JP, Marcus JT, Visser CA. Quantification of regional contractile function after infarction: strain analysis superior to wall thickening analysis in discriminating infarct from remote myocardium. *J Am Coll Cardiol* 2001; 37: 808-817.
125. Kuij JP, Marcus JT, Gotte MJ, van Rossum AC, Heethaar RM. Three-dimensional myocardial strains at end-systole and during diastole in the left ventricle of normal humans. *J Cardiovasc Magn Reson* 2002; 4: 341-351.
126. Osman NF, Kerwin WS, McVeigh ER, Prince JL. Cardiac motion tracking using CINE harmonic phase (HARP) magnetic resonance imaging. *Magn Reson Med* 1999; 42: 1048-1060.
127. Constable RT, Rath KM, Sinusas AJ, Gore JC. Development and evaluation of tracking algorithms for cardiac wall motion analysis using phase velocity MR imaging. *Magn Reson Med* 1994; 32: 33-42.

128. Wedeen VJ. Magnetic resonance imaging of myocardial kinematics. Technique to detect, localize, and quantify the strain rates of the active human myocardium. *Magn Reson Med* 1992; 27: 52-67.
129. Aletras AH, Balaban RS, Wen H. High-resolution strain analysis of the human heart with fast-DENSE. *J Magn Reson* 1999; 140: 41-57.
130. Aletras AH, Ding S, Balaban RS, Wen H. DENSE: displacement encoding with stimulated echoes in cardiac functional MRI. *J Magn Reson* 1999; 137: 247-252.
131. Aletras AH, Wen H. Mixed echo train acquisition displacement encoding with stimulated echoes: an optimized DENSE method for *in vivo* functional imaging of the human heart. *Magn Reson Med* 2001; 46: 523-534.
132. Lau KW, Ding ZP, Johan A, Hung JS. Mid-term clinical and angiographic follow-up outcome after placement of a new balloon expandable stent in native coronary arteries. *Catheter Cardiovasc Interv* 2000; 49: 348-351.
133. Lau KW, Ding ZP, Johan A, Kwok V, Lim YL. Angiographic restenosis rate in patients with chronic total occlusions and subtotal stenoses after initially successful intracoronary stent placement. *Am J Cardiol* 1999; 83: 963-965, A969-910.
134. Nagel E, Lehmkuhl HB, Bocksch W, Klein C, Vogel U, Frantz E, Ellmer A, Dreyse S, Fleck E. Noninvasive diagnosis of ischemia-induced wall motion abnormalities with the use of high-dose dobutamine stress MRI: comparison with dobutamine stress echocardiography. *Circulation* 1999; 99: 763-770.