

CURRICULUM VITAE

David A. Bluemke, MD, PhD, MsB
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DEMOGRAPHIC INFORMATION

Current Appointments

Professor (CHS),
Department of Radiology
University of Wisconsin School of Medicine and Public Health
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Education and Training

1982	B.S. (Chemical Engineering)	University of Wisconsin-Madison
1987	Ph.D. (Biophysics)	University of Chicago
1989	M.D.	University of Chicago
1993	Residency (Diagnostic Radiology)	Johns Hopkins School of Medicine
1994	Fellowship (Cross-sectional)	Johns Hopkins School of Medicine
1995	Certificate (Business of Medicine)	Johns Hopkins University
1999	Master of Science in Business	Johns Hopkins University
2005	Executive Leader Program	Johns Hopkins University
2011	NIH Executive Leadership Program	National Institutes of Health

Professional Experience

1979-1982	Research Assistant	Department of Chemical Engineering University of Wisconsin – Madison
1982	Teaching Assistant	Department of Chemical Engineering University of Wisconsin – Madison

1985-1986	Teaching Assistant	Department of Biophysics University of Chicago
1986-1987	Research Assistant	Department of Biophysics University of Chicago
1989	Teaching Assistant	Department of Internal Medicine University of Chicago
1989-1993	Radiology Resident	Department of Radiology Johns Hopkins University School of Medicine
1993	Instructor	Department of Radiology Johns Hopkins University School of Medicine
1993-1997	Deputy Editor	RADIOLOGY (Journal) Radiological Society of North America
1994	Assistant Professor	Department of Radiology Johns Hopkins University School of Medicine
1996	Acting Clinical Director	MRI Division, Department of Radiology Johns Hopkins Hospital
1997	Clinical Director, MRI	Department of Radiology Johns Hopkins Hospital
1999	Associate Professor	Department of Radiology Johns Hopkins University School of Medicine
2004	Associate Professor	Division of Cardiology, Department of Medicine Johns Hopkins University School of Medicine
2006	Professor	Departments of Radiology and Medicine Johns Hopkins University School of Medicine
2008	Professor (adjunct)	Departments of Radiology and Medicine Johns Hopkins University School of Medicine
2008-2017	Tenured Senior Investigator	National Institutes of Health, NIBIB and Clinical Center
2008-2017	Adjunct Senior Investigator	National Heart, Lung and Blood Institute
2008-2017	Radiologist-in-Chief	National Institutes of Health, Clinical Center
2017	Professor (CHS)	University of Wisconsin School of Medicine and Public Health
2017-2022	Editor	<i>Radiology</i> (RSNA)
2023	Editor Emeritus	<i>Radiology</i>

RESEARCH ACTIVITIES

Publications

Peer-reviewed research articles:

1. Van Bogart JWC, **Bluemke DA**, Cooper SL. Annealing-induced morphological changes in segmented elastomers. *Polymer*. 1981; 22:1428-1438
2. Carragher B, **Bluemke DA**, Potel MJ, Josephs R. The restoration of electron micrographs obscured by drift and rotation. *Proteins*. 1986; 1:176-187
3. **Bluemke DA**, Carragher B, Potel MJ, Josephs R. The three-dimensional structure of sickle hemoglobin macrofibers. *Prog Clin Biol Res*. 1987; 240:31-46
4. **Bluemke DA**, Carragher B, Potel MJ, Josephs R. The three-dimensional structure of sickle cell macrofibers. In: Pathophysiological Aspects of Sickle Cell Disease. R. Nagel, ed. Alan Liss, New York. 1987;31-46

5. **Bluemke DA**, Carragher B, Potel MJ, Josephs R. Electron density modeling of polymers of sickle hemoglobin. *EMSA Bull.* 1987; 17(1):53-64
6. **Bluemke DA**, Carragher B, Josephs R, Potel MJ. Real space reconstructions of non-ideal helical particles. *J Elec Micro Technique.* 1987; 5(2): 141-151
7. Carragher B, **Bluemke DA**, Gabriel B, Potel MJ, Josephs R. Structural analysis of polymers of sickle cell hemoglobin: I. Sickle hemoglobin fibers. *J Mol Biol.* 1988; 199:315-331
8. **Bluemke DA**, Carragher B, Potel MJ, Josephs R. Structural analysis of polymers of sickle cell hemoglobin: II. Sickle hemoglobin macrofibers. *J Mol Biol.* 1988; 199:333-348
9. Carragher B, **Bluemke DA**, Becker M, McDade E, Potel MJ, Josephs R. Structural analysis of polymers of sickle cell hemoglobin: III. The structure of fibers within fascicles. *J Mol Biol.* 1988; 199:383-388
10. **Bluemke DA**, Carragher B, Potel MJ, Josephs R. The reconstruction of particles with variable helical twist. *Ultramicroscopy.* 1988; 26:255-270
11. **Bluemke DA**, Wang H. Primary spinal cord lymphoma: MR appearance. *JCAT.* 1990; 14:812-814
12. **Bluemke DA**, Fishman EK, Kuhlman J, Zinreich E. Complications of radiation therapy: CT evaluation. *Radiographics.* 1991; 11:581-600
13. **Bluemke DA**, Fishman EK, Kuhlman J. CT Evaluation of the patient following the whipple procedure with adjuvant radiation and chemotherapy: potential pitfalls in interpretation. *JCAT.* 1992; 16(5):704-708
14. **Bluemke DA**, Fishman EK. Spiral CT of the liver. *AJR.* 1993; 160:787-792
15. **Bluemke DA**, Fishman EK. Spiral CT with arterial portography. *Radiology.* 1993; 186:576-579
16. **Bluemke, DA**, Eng J. SCRIBE: Hypertext generation of radiology reports. *AJR.* 1993; 160:185-187
17. Fishman EK, Wyatt SH, **Bluemke DA**, Urban BA. Spiral CT of musculoskeletal pathology: preliminary observations. *Skeletal Radiol.* 1993; 22:253-256
18. Tamm EP, **Bluemke DA**, Fishman EK. Renal oncocytoma arising in an irradiated field. *Clinical Imaging.* 1994; 18(1):65-67
19. **Bluemke DA**, Fishman EK. Spiral CT: initial experience with vascular applications. *Clinical Imaging.* 1994; 18:107-112
20. **Bluemke DA**, Fishman EK, Scott WW. Musculoskeletal complications of radiation therapy. *Radiographics.* 1994; 14(1):111-122
21. **Bluemke DA**, Fishman EK, Anderson J. Dose requirements for a nonionic contrast agent for spiral computed tomography of the liver in rabbits. *Invest Radiol.* 1994; 29(2): 195-200
22. Soyer P, **Bluemke DA**, Vissuzaine C, Van Beers B, Barge J, Levesque M. CT of hepatic tumors: prevalence and specificity of retraction of the adjacent liver capsule. *AJR.* 1994; 162:1119-1122
23. Soyer P, **Bluemke DA**, Bliss DF, Woodhouse CE, Fishman EK. Surgical segmental anatomy of the liver: demonstration with spiral CT during arterial portography and multiplanar reconstruction. *AJR.* 1994; 163:99-103

24. Soyer P, **Bluemke DA**, Fishman EK. CT during arterial portography of the liver: how, when and why? *AJR*. 1994; 163:1325-1331
25. Soyer P, **Bluemke DA**, Hruban RH, Sitzman JV, Fishman EK. Primary malignant tumors of the liver: detection with spiral CT during arterial portography. *Radiology*. 1994; 192:389-392
26. Soyer P, **Bluemke DA**, Hruban RH, Sitzmann J, Fishman EK. Hepatic metastases from colorectal cancer: detection and false-positive findings with helical CT during arterial portography. *Radiology*. 1994; 193:71-74
27. Soyer P, Gottlieb L, **Bluemke DA**, Fishman EK. Sarcoidosis of the pancreas mimicking pancreatic cancer: CT features. *European J. Radiol*. 1994; 19:32-33
28. Soyer P, **Bluemke DA**, Hruban RH, Sitzmann JV, Fishman EK. Intrahepatic cholangiocarcinoma: findings on spiral CT during arterial portography. *European J Radiol*. 1994; 19:37-42
29. Soyer P, **Bluemke DA**, Zeitoun G, Marmuse JP, Levesque M. Detection of recurrent hepatic metastases after partial hepatectomy: value of CT combined with arterial portography. *AJR*. 1994; 162:1327-1330
30. Soyer P, **Bluemke DA**, Sibert A, Laissy JP. MR imaging of intrahepatic cholangiocarcinoma. *Abdominal Imaging*. 1995; 20:126-130
31. **Bluemke DA**, Soyer P, Chan B, Bliss D, Calhoun P, Fishman EK. Spiral CT during arterial portography: techniques and applications. *Radiographics*. 1995; 15:623-637
32. Scott WW, **Bluemke DA**, Reichle RL, Kelen GD, Mysko W, Weller GER, Weller JC, Gitlin JN. Interpretation of emergency department radiographs by radiologists and emergency medicine physicians - teleradiology workstation versus radiograph readings. *Radiology*. 1995; 195:223-229
33. **Bluemke DA**, Fishman EK, Anderson JH. Effect of contrast concentration on abdominal enhancement in the rabbit: spiral computed tomography evaluation. *Acad Radiol*. 1995; 2:226-231
34. Soyer P, **Bluemke DA**, Sitzmann JV, Hruban RH, Fishman EK. Hepatocellular carcinoma: findings on spiral CT during arterial portography. *Abdom Imaging*. 1995; 20:541-546
35. Fishman EK, Soyer P, Bliss DF, **Bluemke DA**, Devine N. Splenic involvement in pancreatitis: spectrum of CT findings. *AJR*. 1995;164(3):631-5
36. Soyer P, **Bluemke DA**, Hruban RH, Fishman EK. Hepatic angiomyolipoma. Magnetic resonance imaging and imaging by CT-xray. *J Radiol*. 1995;76(1):45-50. French
37. Soyer P, **Bluemke DA**, Fishman EK. La presence d'anastomoses portosystemiques spontanees a-t-elle une influence sur le degre' du ichaussement parenchymateux hepatique au cours du portoscanner effectue'en mode helicoidal? *Revue d'Imagerie Medicale*. 1995; 7: 73-77
38. Soyer P, **Bluemke DA**, Choti MA, Fishman EK. Variations of the intrahepatic portions of the hepatic and portal veins: findings on helical CT during arterial portography. *AJR*. 1995; 164:103-108
39. Soyer P, **Bluemke DA**, Sibert A, Laissy JP. Bile duct involvement in hepatocellular carcinoma: MR demonstration. *Abdominal Imaging*. 1995; 20:118-121
40. Soyer P, **Bluemke DA**, Hruban RH, Fishman EK. Angiomyolipoma of the liver: CT during arterial

portography and MR imaging features (in French). *J Radiol.* 1995; 76:47-50

41. **Bluemke DA**, Soyer P, Fishman EK. Nontumorous low-attenuation defects in the liver on helical CT during arterial portography: frequency, location and appearance. *AJR.* 1995; 164:1141-1145
42. **Bluemke DA**, Cameron JL, Pitt H, Siegelman SS, Soyer P, Fishman EK. Potentially resectable pancreatic adenocarcinoma: spiral CT evaluation. *Radiology.* 1995; 197:381-385
43. Chambers TP, Fishman EK, **Bluemke DA**, Urban B, Venbrux AC. The replaced hepatic artery: detection with spiral CT axial images. *J Vasc Interv Radiol.* 1995; 6:959-964
44. Heath DG, Soyer PA, Kuszyk BS, Bliss DF, Calhoun PS, **Bluemke DA**, Choti MA, Fishman EK. Three-dimensional spiral CTAP: comparison of three rendering techniques. *Radiographics.* 1995; 15:1001-1011
45. Soyer P, **Bluemke DA**, Riopel M, Hruban RH, Fishman EK. Hepatic leiomyosarcomas - CT features with pathologic correlation. *European J Radiology.* 1995; 19:177-182
46. **Bluemke DA**, Petri M, Zerhouni EA. Femoral head perfusion and composition: MRI and MRS evaluation in patients at risk for avascular necrosis. *Radiology.* 1995; 197:433-438
47. Buckley JA, Scott WW, Siegelman SS, Kuhlman JE, Urban BA, **Bluemke DA**, Fishman EK. Pulmonary nodules: effect of increased data sampling on detection with spiral CT and confidence in diagnosis. *Radiology.* 1995; 196:395-400
48. Kuszyk BS, Heath DG, Ney DR, **Bluemke DA**, Urban BA, Chambers TP, Fishman EK. CT angiography with volume rendering - imaging findings. *AJR.* 1995; 445-448
49. Soyer P, **Bluemke DA**, Reichle R, Calhoun PS, Bliss DF, Scherrer A, Fishman EK. Imaging of intrahepatic cholangiocarcinoma: 1. peripheral cholangiocarcinoma. *AJR.* 1995; 165:1427-1431
50. Noh HM, Fishman EK, **Bluemke DA**. Isolated common iliac artery aneurysm rupturing into small bowel: CT appearance. *Abdom Imaging.* 1995; 20:521-522
51. Soyer P, **Bluemke DA**, Reichle R, Calhoun PS, Bliss DF, Scherrer A, Fishman EK. Imaging of intrahepatic cholangiocarcinoma: 2. hilar cholangiocarcinoma. *AJR.* 1995; 165:1433-1436
52. Athas JM, **Bluemke DA**, Isacson C, Sheth S. Large cervical adenomyoma occurring in a first-trimester gravid uterus: radiological-pathologic correlation. *AJR.* 1996; 167:514-515
53. Kuszyk BS, **Bluemke DA**, Urban BA, Choti MA, Hruban RH, Sitzmann JV, Fishman EK. Portal-phase contrast-enhanced helical CT for the detection of malignant hepatic tumors: sensitivity based on comparison with intraoperative and pathologic findings. *AJR.* 1996; 166:91-95
54. Kuszyk DA, Choti MA, Urban BA, Chambers TP, **Bluemke DA**, Sitzmann JV, Fishman EK. Hepatic tumors treated by cryosurgery: normal CT appearance. *AJR.* 1996; 166:363-368
55. Hoffman L, **Bluemke DA**, Fishman EK. Thrombosis of the deep femoral vein: a potential pitfall of color flow duplex Doppler ultrasonography. *South Med J.* 1997; 90:1244
56. **Bluemke DA**, Abrams RA, Yeo CJ, Cameron JL, Fishman EK. Recurrent pancreatic adenocarcinoma: spiral CT evaluation following the Whipple procedure. *Radiographics.* 1997; 17:303-313
57. Ma L, Frassica F, McCarthy E, **Bluemke DA**, Zerhouni E. Evaluation of dynamic rim enhancement

- ratio in the evaluation of musculoskeletal tumors. *Radiology*. 1997; 202:739-745
58. **Bluemke DA**, Boxerman JL, Atalar E, McVeigh EC. Segmented K-space cardiac MRI. I. Principles and technique. *AJR*. 1997; 169:395-400. PMID: PMC2396298.
59. **Bluemke DA**, Boxerman JL, Mosher TL, Lima JAC. Segmented K-space cardiac MRI. II. Evaluation of aortic vasculopathy. *AJR*. 1997; 169:401-407
60. **Bluemke DA**, Wolf RL, Tani I, Tachiki S, McVeigh ER, Zerhouni EA. Extremity veins: evaluation with fast-spin-echo MR venography. *Radiology*. 1997; 204:562-565
61. Wenz JF, Hauser DL, Scott WW, Robertson DD, Tsapakos MJ, Kearney DK, **Bluemke DA**, Naiman DO, Brooker AF, Chao EY. Observer variation in the detection of acetabular bone deficiencies. *Skeletal Radiol*. 1997; 26:272-8
62. Kawamoto S, **Bluemke DA**, Traill TA, Zerhouni EA. MRI of the thoracoabdominal aorta in marfan syndrome: progression of vasculopathy following surgical repair. *Radiology*. 1997; 203:727-732
63. Soyer P, Riopel M, **Bluemke DA**, Scherrer A. Hepatic metastases from leiomyosarcoma: MR features with histopathologic correlation. *Abdominal Imaging*. 1997; 22:67-71
64. Soyer P, **Bluemke DA**, Fishman EK, Rymer R. Fluid-fluid levels within focal hepatic lesions: imaging appearance and etiology. *Abdominal Imaging*. 1998; 23:161-165
65. Rochitte CE, Lima JAC, **Bluemke DA**, Reeder SB, McVeigh ER, Furuta T, Becker LC, Melin JA. Magnitude and time course of microvascular obstruction and tissue injury after acute myocardial infarction. *Circulation*. 1998;98:1006-1014
66. Hoang TV, **Bluemke DA**. Biliary papillomatosis: CT and MR findings. *JCAT*. 1998; 22:671-672
67. Kawamoto S, **Bluemke DA**, Fishman EK. Aortic dissection involving an aberrant right subclavian artery: CT and MRI findings. *JCAT*. 1998; 22:918-920
68. Wu KC, Kim RJ, **Bluemke DA**, Rochitte CE, Zerhouni EA, Becker LC, Lima JAC. Quantification and time course of microvascular obstruction by contrast-enhanced echocardiography and magnetic resonance imaging following acute myocardial infarction and reperfusion. *J Am Coll Cardiol*. 1998;32(6):1756-64
69. Kawamoto S, Soyer P, Fishman EK, **Bluemke DA**. Nonneoplastic Liver Disease: Evaluation with CT and MR Imaging. *Radiographics*. 1998; 18:827-848
70. Earls J, DeSena S, **Bluemke DA**. Gadolinium-enhanced 3D MR angiography of the entire aorta and iliac arteries using dynamic manual table translation. *Radiology*. 1998; 209:844
71. Boxerman JL, Mosher TJ, McVeigh ER, Lima JAC, **Bluemke DA**. Advanced MR imaging techniques for evaluation of the heart and great vessels. *Radiographics*. 1998; 18:543-564
72. Ma LD, McCarthy EF, **Bluemke DA**, Frassica FJ. Differentiation of benign from malignant musculoskeletal lesions using MR imaging: pitfalls in MR evaluation of lesions with a cystic appearance. *AJR*. 1998; 170:1251-1258
73. Artemov D, Revelon G, Atalar E, **Bluemke DA**, Bhujwala ZM, Zerhouni EA. Switchable multicoil array for MR microimaging of breast lesions. *Magn Reson Med*. 1999; 3:569

74. Tortolani PJ, McCarthy EF, Lietman SA, **Bluemke DA**, Zerhouni EA, Frassica J. Soft-tissue tumors: distinguishing the benign from the malignant. *J. Musculoskel Med.* 1999; 16:469-476
75. Horton KM, **Bluemke DA**, Hruban H, Soyer P, Fishman EK. CT and MR imaging of benign hepatic and biliary tumors. *Radiographics.* 1999; 19:431-452
76. Rubin DL, Desser TS, Semelka R, Brown J, Nghiem HV, Stevens WR, **Bluemke DA**, Nelson R, Fultz P, Reimer P, Ho V, Kristy RM, Pierro JA. A multicenter, randomized, double - blind study to evaluate the safety, tolerability and efficacy of OptiMARK (Gadoversetamide injection) compared with Magnevist (gadopentetate dimeglumine) in patients with liver pathology: results of a phase III clinical trial. *JMRI.* 1999; 9:240-250
77. Kraitchman DL, Hillenbrand HB, Ozgur I, Lima JAC, McVeigh ER, Zerhouni EA, **Bluemke DA**. Noninvasive assessment of myocardial stunning from short term coronary occlusion using tagged MRI. *Journal of Cardiovascular Magnetic Resonance.* 2000; 2:113-126
78. Kuszyk BS, **Bluemke DA**, Choti MA, Horton KM, Magee CA, Fishman EK. Contrast-enhanced CT of small hypovascular hepatic tumors: effect of lesion enhancement on conspicuity in rabbits. *AJR.* 2000; 174(2):471-5
79. Kawamoto S, Shirai N, Strandberg JD, Boxerman JL, **Bluemke DA**. Nontraumatic osteonecrosis: MR perfusion imaging evaluation in an experimental model. *Acad Radiol.* 2000; 7:83-93
80. Garot J, **Bluemke DA**, Osman NF, Rochitte CE, McVeigh ER, Zerhouni EA, Prince JL, Lima JAC. Fast determination of regional myocardial strain fields from tagged cardiac images using harmonic phase MRI. *Circulation.* 2000;101(9):981-8
81. Gerber BL, Rochitte CE, Melin JA, McVeigh ER, **Bluemke DA**, Wu KC, Becker LC, Lima JAC. Microvascular obstruction and left ventricular remodeling early after acute myocardial infarction. *Circulation.* 2000;101(23):2734-41
82. Kraitchman DL, **Bluemke DA**, Chin BB, Heldman AW, Heldman AW. A minimally invasive method for creating coronary stenosis in a swine model for MRI and SPECT imaging. *Invest Rad.* 2000; 35:445-451
83. Pannu HK, Wang Ko-Pen, Borman TL, **Bluemke DA**. MR imaging of mediastinal lymph nodes: evaluation using a superparamagnetic contrast agent. *JMRI.* 2000; 12:899-904
84. Mont MA, Baumgarten KM, Rifai A, **Bluemke DA**, Jones LC, Hungerford DS. Atraumatic osteonecrosis of the knee. *Journal of Bone and Joint Surgery.* 2000; 82-A:1279-1290
85. Khanna AJ, Yoon TR, Mont MA, Hungerford DS, **Bluemke DA**. Femoral head osteonecrosis: detection and grading using a rapid magnetic resonance imaging protocol. *Radiology.* 2000; 217: 188-192
86. **Bluemke DA**, Breiter S. Sedation procedures in magnetic resonance imaging: safety, efficacy and nursing impact on operations. *Radiology.* 2000; 216:645-652
87. Eng J, Mysko WK, Weller GE, Renard R, Gitlin JN, **Bluemke DA**, Magid D, Kelen GD, Scott, Jr WW. Interpretation of emergency department radiographs: a comparison of emergency medicine physicians with radiologists, residents and faculty on film with digital display. *AJR.* 2000;175(5):1233-8
88. Kuszyk BS, Boitnott JK, Choti MA, **Bluemke DA**, Sheth S, Magee CA, Horton KM, Eng J, Fishman EK. Local tumor recurrence following hepatic cryoablation: radiologic-histopathologic correlation in a rabbit model. *Radiology.* 2000; 217:477-486

89. Pannu HK, Kaufman HS, Cundiff GW, Genadry R, **Bluemke DA**, Fishman EK. Dynamic MR imaging of pelvic organ prolapse: spectrum of abnormalities. *Radiographics*. 2000;20(6):1567-82
90. Garot J, **Bluemke DA**, Osman NF, Rochitte CE, Zerhouni EA, Prince JL, Lima JA. Transmural contractile reserve after reperfused myocardial infarction in the dog. *J Am Coll Cardiol*. 2000. 36:2339-2346
91. Simon I, Snow PB, Marks LS, Christens-Barry WA, Epstein JI, **Bluemke DA**, Partin W. Neural network prediction of prostate tissue composition based on magnetic resonance imaging analysis. *Analytical and Quantitative Cytology and Histology*. 2000 22:445-452
92. **Bluemke DA**, Paulson EK, Choti MA, DeSena S, Clavien PA. Detection of hepatic lesions in candidates for surgery: comparison of ferumoxides-enhanced MR imaging and dual phase CT. *AJR*. 2000 175:1653-1658
93. Hillenbrand HB, Lima JAC, **Bluemke DA**, Beache GM, McVeigh ER. Assessment of myocardial systolic function by tagged magnetic resonance imaging. *J Cardiovasc Magn Reson*. 2000;2(1):57-66
94. Braga HJV, Imam K, **Bluemke DA**. MR imaging of intrahepatic cholangiocarcinoma: use of ferumoxides for lesion localization and extension. *AJR*. 2000; 177:111-114
95. Kraitchman DL, Hillenbrand HB, Ozgur I, Lima JA, McVeigh ER, Zerhouni EA, **Bluemke DA**. Noninvasive assessment of myocardial stunning from short-term coronary occlusion using tagged magnetic resonance imaging. *J Cardiovasc Magn Reson*. 2000;2(2):123-36
96. Reeder SB, Du YP, Lima JAC, **Bluemke DA**. Advanced cardiac magnetic resonance imaging of ischemic heart disease. *RadioGraphics*. 2001; 21:1047-1074
97. **Bluemke DA**, Stillman AE, Grist TM, Baum RA, D'Agostino R, Malden ES, Pierro JA, Yucel EK. Carotid MR angiography: phase II study of safety and efficacy for MS-325. *Radiology*. 2001 (Apr) 219:114-122
98. Gerber BL, Rochitte CE, **Bluemke DA**, Melin JA, Becker LC, Lima JAC. Relation between Gd-DTPA contrast enhancement and regional inotropic response in the periphery and center of myocardial infarction. *Circulation*. 2001; 104:998-1004
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100. Kuszyk BS, Corl FM, **Bluemke DA**, Hofmann LV, Forman BJ, Fishman EK. Tumor transport physiology: implications for imaging and imaging-guided therapy. *AJR*. 2001;177(4):747-53
101. Silber HA, **Bluemke DA**, Ouyang P, Du YP, Post WS, Lima JAC. The relationship between vascular wall shear stress and flow-mediated dilation: endothelial function assessed by phase-contrast magnetic resonance angiography. *J Am Coll Cardiol*. 2001;38(7):1859-65
102. Khanna BAJ, Cosgarea AJ, Mont MA, Andres BM, Domb BG, Evans PJ, **Bluemke DA**, Frassica FJ. Magnetic resonance imaging of the knee. Current techniques and spectrum of disease. *J Bone Joint Surg Am*. 2001;83-A Suppl 2 Pt 2:128-41
103. Kaufman HS, Buller JL, Thompson JR, Pannu HK, DeMeester SL, Genadry RR, **Bluemke DA**, Jones B, Rychcik JL, Cundiff GW. Dynamic pelvic magnetic resonance imaging and cystocolpoproctography alter surgical management of pelvic floor disorders. *Dis Colon Rectum*. 2001;44(11):1575-83

104. Edvardsen T, Gerber BL, Garot J, **Bluemke DA**, Lima JA, Smiseth OA. Quantitative assessment of intrinsic regional myocardial deformation by Doppler strain rate echocardiography in humans: validation against three-dimensional tagged magnetic resonance imaging. *Circulation*. 2002;106(1):50-6
105. Ozalp E, **Bluemke DA**, Civelek AC. Tc-99m Sestaibi accumulation in the chest mimicking an ectopic parathyroid adenoma. *Semin Nucl Med*. 2002;32(3):223-7
106. Kumbasar B, Wu KC, Kamel IR, Lima JAC, **Bluemke DA**. Left ventricular true aneurysm: diagnosis by myocardial viability MR imaging. *AJR*. 2002;179(2):472-4
107. Gerber BL, **Bluemke DA**, Chin BB, Boston RC, Heldman AW, Lima JAC, Kraitchman DL. Single-vessel coronary artery stenosis: myocardial perfusion imaging with gadomer-17 first-pass MR imaging in a swine model of comparison with gadopentetate dimeglumine. *Radiology*. 2002; 225 104-112
108. Edvardsen T, Gerber BL, Garot J, **Bluemke DA**, Lima JAC, Smiseth OA. Quantitative assessment of intrinsic regional myocardial deformation by doppler strain rate echocardiography in humans. *Circulation*. 2002;106(1):50-56
109. **Bluemke DA**, Kraitchman DL, Heldman A, Chin BB. Optimal characterization of myocardial perfusion with AngioMARK. *Acad Radiol*. 2002;Suppl 1:S78
110. Braga HJ, Choti MA, Lee VS, Paulson EK, Siegelman ES, **Bluemke DA**. Liver lesions: manganese-enhanced MR and dual-phase helical CT for preoperative detection and characterization comparison with receiver operating characteristic analysis. *Radiology*. 2002 May; 223(2):525-31
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115. Shahar KH, Solaiyappan M, **Bluemke DA**. Quantitative differentiation of breast lesions based on three-dimensional morphology from magnetic resonance imaging. *JCAT*. 2002; 26(6):1047-1053
116. Kamel IR, **Bluemke DA**. Imaging evaluation of hepatocellular carcinoma. *J Vasc Interv Radiol*. 2002;13(9 Pt 2):S173-84
117. Rohlfing T, Jacobs MA, **Bluemke DA**, Maurer DR. Volume-preserving nonrigid registration of MR breast images using free-form deformation with an incompressibility constraint. *IEEE Trans Med Imaging*. 2003; 22(6):730-741
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Inventions, Patents, Copyrights

- November, 2015 Cine watermarked Magnetic resonance imaging. Beyers, Denney, Bluemke, Vigneault. Invention disclosure
- January, 2012 Whole Heart Extracellular Volume fraction/ Volume Distribution by Low Dose Computed Tomography
Patent Pending
- November 25, 2003 “Method to assess endothelial function”
Patent Number: US 6,654,628

1992, Copyright SCRIBE Radiology Reporting System Software. Bluemke, DA, Eng, J. Developed and maintained for the Department of Radiology, Johns Hopkins Hospital, for reporting radiographs, approximately 500,000 examinations reported with this system.

NIH Intramural Studies

- NIBIB Senior Tenured Investigator 8/1/08-2017
CL090019-01 (Bluemke, lab PI)
Imaging Characterization of Cardiovascular Disease
To evaluate the use of noninvasive imaging technologies in the diagnosis and treatment of cardiovascular disease.
- NIH Clinical Center Senior Tenured Investigator 8/1/08 -2017
ZIA EB000072-01 (Bluemke, lab PI)
Evaluation and development of advanced imaging techniques
To evaluate the use of noninvasive imaging techniques in the characterization and diagnosis of disease.
- Molecular Epidemiology of Postpartum Involution of the Breast: Demonstration of Tools for Understanding Influences of Pregnancy on Breast Cancer Risk
NIH Bench to Bedside Award
M Sherman, PI 1/1/12-12/31/2013
- Assessment of Sympathetic Innervation and Diffuse Myocardial Injury in Acute Stress Cardiomyopathy
NIH Bench to Bedside Award
C. Sibley, MD PI 1/1/10-12/31/2012
- NCT01212900 - Randomized Trial of Imaging Versus Risk Factor-Based Therapy for Plaque Regression
NCT01063309 - Non-Invasive Assessment of Atherosclerosis in Patients With CGD and Other Disorders of the Immune System
NCT01778569 - The Psoriasis, Atherosclerosis, and Cardiometabolic Disease Initiative (PACI)
NCT01130545 - Imaging Techniques in MRI
NCT01853592 - Gadofosveset Trisodium for Heart Imaging Studies
NCT01160471 - Noninvasive Imaging of Heart Failure: A Pilot Study
NCT00027170 – Technical Development of Cardiovascular Magnetic Resonance Imaging
NCT02055209 – Genomics, Environmental Factors and Social Determinants of Cardiovascular Disease in African-Americans Sstudy (GENE-FORECAST)

NCT02242448 – Imaging Techniques in CT: Technical Development
NCT02257866 - Studies of the Natural History, Pathogenesis, and Outcome of Idiopathic Systemic Vasculitis
NCT00744952 – Use of MRI and PET for Assessing Disease Activity in Takayasu’s Arteritis
NCT01553058 - Vascular Inflammation in Psoriasis Trial (The VIP Trial)

AI000155 Clinical Studies of Abnormal Host Defense (Gallin, PI)
CL040013 Core Research Services for Molecular Imaging and Imaging Sciences (Frank, PI)
CL040015 Intentional Oncology (Wood, PI)
CL040016 Clinical Image Processing Service (Summers, PI)
CL060078 Vast Control of Patellokinematics in Asymptomatic Volunteers (Gavelli, Chan, PIs)
CL060079 Long Term Clinical Correlates of TBI: Imaging, Biomarkers, Clinical Phenotyping (Chan, PI)
CL090017 Imaging Sciences Training Program (Frank, PI)
EB000057 Intramural Training of NIH Biomedical Imaging and Bioengineering Researchers (Leapman, PI)
HD008868 Clinical and Research Informatics (Sastry, Stratikis, PI)
HD008894 Detection and Treatment of Endocrine Abnormalities in Childhood Cancer Survivors (Lodish, PI)
HG200359 ClinSeq© - Molecular and Genetic Aspects (Biesecker, PI)
HG200359 ClinSeq© - Clinical and Behavioral Aspects (Biesecker, PI)
NS003138 Sildenafil for the treatment of Cerebrovascular Dysfunction in Chronic TBI (Diaz-Arrastia, PI)

CT000272 Biomedical Image Analysis and Informatics (McAuliffe, Trus, PI)
HG200359 ClinSeq © (Biesecker, PI)

Extramural Funding

Grants:

NIH/NHLBI OT2HL162011 (Barr, Oelsner)
03/31/25

04/01/21–

Collaborative Cohort of Cohorts for COVID-19 Recovery Research (C4R2)
C4R2 is a longitudinal cohort study of participants with post-acute sequelae of SARS-CoV-2 infection (PASC), plus infected and uninfected comparison participants, nested within the nationwide Collaborative Cohort of Cohorts for COVID-19 Research (C4R, OT2-HL156812), which provides extensive pre-pandemic phenotyping.

Combined Cardiopulmonary Failure in COPD: Spiromics HF
144-AAH9475 (11(GG015835-01))
Weber, PI
Role: Co-investigator
3.75% \$11725

Changes in coronary noncalcified volume in relation to changes in cocaine use
National Institute On Drug Abuse DA035632 (S. Lai)
Role: Co-investigator

N01HC-95168-01 (Lima) 7/31/2008-8/14/2015 0.1 calendar
NIH/NHLBI \$2,792,891

Subclinical Cardiovascular Disease Study, MRI Reading Center

The major goal of this project is to study the characteristics of subclinical cardiovascular disease that predict

progression to clinically overt cardiovascular disease.

Role: Co-investigator

M062083 (Lima) 7/01/2006-6/30/2013 0.05 calendar

NIDDK (George Washington University subcontract) \$1,390,205

Epidemiology of Diabetes Interventions and Complications: Core Center for Cardiovascular MRI

The major goal of this project is to evaluate cardiac structure and function in type 1 diabetics

Role: Co-investigator

1P50HL112349-01 (Ho) 6/1/2012-5/31/2014 0.1 calendar

NIH/NHLBI \$1,514,999

Using Genetics for Early Phenotyping & Prevention of Hypertrophic Cardiomyopathy

Using Genetics for Early Phenotyping & Prevention of Hypertrophic Cardiomyopathy

This project is a Phase II multicenter, double-blind, placebo-controlled randomized clinical trial to assess the safety and efficacy of candesartan in attenuating the progression of hypertrophic cardiomyopathy in sarcomere mutation carriers who have not yet developed a clinical diagnosis of disease.

Role: Co-investigator, PI MRI core lab

1P20HL101412-01 6/1/2012-5/31/2014 0.05 calendar

NIH/NHLBI \$1,316,500

Hypertrophy Regression with N-Acetylcysteine in Hypertrophic Cardiomyopathy

The major goal of this project is to determine the recruitment, and treatment of HCM with n-acetyl cysteine and determine its potential effects.

Role: Co-investigator, PI MRI core lab

1R01HL116906-01A1 8-23-2013-6-30-2017 0.05 calendar

NIH/NHLBI \$2,156,524

Genetics, Mechanisms and Clinical Phenotypes of Arrhythmogenic Cardiomyopathy.

1) To identify new genes causing ARVC, ALVC, and aDCM;2A) To evaluate genotype-phenotype associations in patients with arrhythmogenic right ventricular cardiomyopathy (ARVC);2B) To evaluate patients with suspected arrhythmogenic left ventricular cardiomyopathy (ALVC) and arrhythmogenic dilated cardiomyopathy (aDCM) and to evaluate genotype-phenotype associations in patients with ALVC and aDCM;and 3) To discover new biomarkers in AVCs and critically assess their value in improving the sensitivity and accuracy of diagnosis and predicting arrhythmias or other manifestations of disease.

Role: Co-investigator, PI MRI core lab

Grants

1P20HL101408-01 (Ho) 4/1/2010-3/31/2012 0.1 calendar

NIH/NHLBI \$522,213

Using Genetics for Early Phenotyping & Prevention of Hypertrophic Cardiomyopathy

The major goals of this project are to establish a HCM clinical network for comprehensive study of preclinical disease, identification of subjects, and definition of surrogate endpoints of treatment response. These efforts will culminate in a Stage 2 clinical trial to test a novel strategy of disease prediction and prevention in HCM to decrease symptoms, sudden death, and heart failure.

Role: Co-investigator, PI MRI core lab

September 1, 2006 – August 1, 2010

Endothelial dysfunction and the RV in the Multi-Ethnic Study of Atherosclerosis

R01 HL086719 (Kawut, Columbia)

MRI reference lab (Bluemke, PI) Effort: 15%

Aim: To evaluate the relationship of RV structure and function to subclinical disease measures

July 1, 2006 – June 30, 2010 Epidemiology of Diabetes Interventions and Complications: Core
 Center for Cardiovascular MRI
 M062083
 George Washington Biostatistics Center
 Total Direct Costs: \$1,390,205
 Principal Investigator: David Bluemke
 Role: Site Principal Investigator Effort: 11%
 Aim: To evaluate cardiac structure and function in type 1 diabetics.

August 1, 2005 – June 30, 2008 Coronary Atherosclerosis Evaluation by Arterial Wall MRI
 R01 HL78909-01A1
 NHLBI
 Total Direct Costs: \$1,290,912
 Principal Investigator: David Bluemke
 Role: Principal Investigator Effort: 15%
 Aim: To relate coronary wall thickness to subclinical measures of coronary heart disease.

Dec 12, 2006 – 12/31, 2011 SCCOR: Molecular Determinants of Pulmonary Arterial Hypertension:
 1P50HL084946-01 (Hassoun)
 Imaging Core Lab
 NIH/NHLBI
 Total Direct Costs: \$13,282,275; Annual Direct \$2,528,420
 Total Core lab direct Costs: \$835,665 First year cost: \$165,398
 Principal Investigator: Paul Housson
 Role: Core lab director Effort: 10%
 Aim: To characterize the imaging phenotype of patients with pulmonary arterial hypertension

July 1, 2007 – June 30, 2010 Evaluation of Etiologic Factors in Sudden Cardiac Death
 101127
 Reynolds Foundation
 Total Direct Costs: \$11,358,328
 Principal Investigator: Robert Weiss
 Role: Co-Investigator Effort: 6%
 Aim: To determine structural correlates in the heart that predict sudden cardiac death.

December 1, 2005 – November 30, 2008 IRAT Supplement Award (Imaging Response Assessment Teams)
 3P30CA006973
 NIH/NCI
 Total Direct Costs: \$740,749
 Principal Investigator: Steve Baylin
 Role: Co-Investigator Effort: 1%
 Aim: to use imaging to evaluate tumor response.

July 1, 2006 – June 30, 2009 Institutional Clinical Fellowship in Cardiovascular Imaging
 M032373
 RSNA
 Total Direct Costs: \$150,000
 Principal Investigator: David Bluemke
 Role: Fellowship Director Effort: 0%
 Aim: to establish a clinical fellowship in cardiovascular imaging.

July 1, 2004 – June 30, 2008 Multiparametric MRI in Breast Cancer Tissue (Jacobs)

RO1CA100184
 NIH NCI
 Total Direct Costs: \$205,000
 Principal Investigator: Mike Jacobs
 Role: Co-Investigator Effort: 2%
 Aim: to evaluate the role of novel MRI techniques such as proton MR, sodium, and spectroscopy in the characterization of breast cancer

Dec. 1, 2005 – Nov. 30, 2009 Regional Dysfunction by MRI in Incident Heart Failure
 NHLBI
 Total Direct Costs: \$1,854,680
 Principal Investigator: Joao Lima
 Role: Co-Investigator Effort: 10%
 Aim: To evaluate regional dysfunction by MRI.

August 10, 2003 – July 31, 2008 JHU ICMIC Program
 P50CA103175
 NCI
 Total Direct Costs: \$1,194,495
 Principal Investigator: Zaver Bhujwalla
 Role: Co-Investigator Effort: 1%
 Aim: To develop novel molecular imaging agents.

August 1, 1994 – July 31, 2008 Harmonic Phase MRI for Ultrafast Cardiac Strain Imaging
 R01 HL047405-14
 NHLBI
 Total Direct costs 251,925
 Principal Investigator: Jerry L. Prince
 Role: Co-Investigator Effort: 5%
 Aim: Develop methods for 3d and real time harmonic phase imaging of the heart.

July 1, 2006 – June 30, 2007 JHU Molecular and Functional Imaging 7T Small Animal
 MRI System
 NIH
 Total Direct Costs: \$2,000,000
 Principal Investigator: Zaver Bhujwalla
 Role: Co-Investigator Effort: 1%
 Aim: to perform molecular imaging at 7T.

August 7, 2003 – July 31, 2007 Strain-Encoded MR for Direct Imaging of Cardiac Function
 R01HL072704
 NHLBI
 Total Direct Costs: \$219,713
 Principal Investigator: Nael Osman
 Role: Co-Investigator Effort: 10%
 Aim: To develop and test novel methods for high resolution strain imaging of the cardiac ventricles.

July 1, 2003 – June 30, 2007 Evaluation of Etiologic Factors in Sudden Cardiac Death
 2172870
 Reynolds Foundation
 Total Direct Costs: \$20,906,636
 Principal Investigator: Eduardo Marban
 Role: Co-Investigator Effort: 18%

Aim: To determine structural correlates in the heart that predict sudden cardiac death.

Sept. 30, 2002 – Sep. 30, 2006 Early Clinical Trials of Imaging Agents
N01-CM-27018
NIH/NCI

Total Direct Costs: \$4,604,851
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 10%
Aim: to conduct early clinical trials of molecular imaging agents.

April 1, 2003 – June 28, 2007 HDL Increased Plaque Stabilization in the Elderly (Lima)
5R01AG021570-03
NIA

Total Direct Costs: \$1,745,991
Principal Investigator: Joao Lima
Role: Co-investigator Effort: 8%
Aim: To investigate the benefit of increased HDL on atherosclerotic plaque architecture and composition over and above those achieved by lipid lowering statin therapy.

July 1, 2003 – June 30, 2007 Evaluation of Etiologic Factors in Sudden Cardiac Death
2172870

Reynolds Foundation
Total Direct Costs: \$20,906,636
Principal Investigator: Eduardo Marban
Role: Co-Investigator Effort: 18%
Aim: To determine structural correlates in the heart that predict sudden cardiac death.

July 1, 2003 – Dec 31, 2006 MRI Evaluation of the Contralateral Breast in Women with a
Recent Diagnosis of Breast Cancer
6667

American College of Radiology
Total Direct Cost: \$22,800
Principal Investigator: David Bluemke
Role: Site Principal Investigator Effort: 1%
Aim: To evaluate MRI in breast cancer.

Sept. 27, 2004-June 30, 2007 Vasculitis Outcome Measures: Development and Validation
5R01AR051874-02
NIAMSD

Total Direct Costs: \$460,000
Principal Investigator: John Stone
Role: Co-Investigator Effort: 1%
Aim: to evaluate MRI for vasculitis evaluation.

April 1, 2002 – January 31, 2007 Investigation of Ang II/AT1 Receptors with Pet
5R01DK050183-07
NIDDK

Total Direct Costs: \$1,245,539
Principal Investigator: Zsolt Szabo
Role: Co-Investigator Effort: 10%
Aim: To assess the role of angiotensin receptor in hypertension with PET.

Sept. 15, 2003-Dec. 31, 2006 Quantitative ²³NaMRI of Breast Cancer (Ouwkerk)

5R21CA095907-02

NCI

Total Direct Cost: \$384,160

Principal Investigator: Ronald Ouwerkerk

Role: Co-Investigator Effort: 1%

Aim: to evaluate ²³NaMRI for breast cancer.

August 1, 2004 – July 31, 2006

Harmonic Phase MRI for Ultrafast Cardiac Strain Imaging

HL47405

NIH/NHLBI

Total Direct Cost: \$598,808

Principal Investigator: Jerry Prince

Role: Co-Investigator Effort: 3%

Aim: to implement 3d real time strain methods using MRI.

July 1, 2003 - June 30, 2006

Measurement of Myocardial Tissue Parameters Using Radial MRI

0355490Z

AHA Pacific-Mountain Affiliate

Total Direct Costs: \$180,000

Principal Investigator: Maria Altbach

Role: Consultant Effort: 1%

Aim: to evaluate radial MRI for heart disease evaluation.

April 1, 2003 - March 31, 2006

MR Imaging and MR Spectroscopic Imaging of Prostate Cancer

Prior To Radical Prostatectomy: A Prospective Multi-Institutional Clinicopathological Study

ACRIN 6659

Total Direct Cost: \$36,864

Principal Investigator: David Bluemke

Role: Site Principal Investigator Effort: 1%

Aim: To evaluate MRS to characterize prostate cancer.

September 1, 2001 – Dec 31, 2005

Proton MR Spectroscopic Imaging in Human Breast Cancer

5R33CA91798-04

NCI

Total Direct Cost: \$451,638

Principal Investigator: Peter Barker

Role: Co-Investigator Effort: 3%

Aim: To evaluate MRS in breast cancer.

October 1, 2003 – Sept. 30, 2005

Multiparametric MR Evaluation of Hepatocellular Carcinoma

Response to TACE

Cardiovascular and Interventional Radiology Research & Education Foundation (CIRREF)

Total Direct Costs: \$25,000

Principal Investigator: Ihab Kamel

Role: Co-Investigator Effort: 5%

September 1, 2002-August 31, 2005

Contrast Enhanced MRI for Evaluating Carotid Atheroma

R01 HL69905-01

NIH/NHLBI

Total Direct Cost: \$872,411

Principal Investigator: Bruce Wasserman

Role: Co-Investigator Effort: 10%

July 1, 2004-June 30, 2005 Imaging of Musculoskeletal Lesions: Utility of Protons
Society of Computed Body Tomography & Magnetic Resonance (SCBTMR)
Total Direct Costs: \$20,000
Principal Investigator: Laura Fayad
Role: Co-Investigator Effort: 1%

July 11, 2001-June 30, 2005 Regional Dysfunction by MRI in Incident Heart Failure
R01 HL66075
NHLBI
Total Direct Costs: \$1,458,259
Principal Investigator: Joao Lima
Role: Co-Investigator Effort: 10%

July 1, 2001-June 30, 2005 Evaluation of Myocardial Systolic and Diastolic Function in MESA
R01 HL66075
NHLBI
Total Direct Costs: \$1,463,336
Principal Investigator: Joao Lima
Role: Co-Investigator Effort: 10%

July 1, 2003 – May 1, 2005 Role of MR Imaging in the Assessment of Urethral Sphincter
Morphology and Function in Continent and Incontinent Women
Society of Computed Body Tomography & Magnetic Resonance
Total Direct Costs: \$10,531
Principal Investigator: Katarzyna J. Macura
Role: Co-Investigator Effort 1%

Sept. 30, 1995-August 29,2004 Longitudinal Evaluation of Prostate Growth and Disease in Male
BLSA Subjects; MRI Studies
NO1 AG-5-2113
NIH
Total Direct Cost: \$882,922
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 5%

Dec. 1, 2002-November 30, 2004 Intra-biliary MRI: Assessment of Malignant Biliary Strictures Using
Endoluminal Catheter Coils
Cardiovascular and Interventional Radiology Research & Education Foundation (CIRREF)
Total Direct Costs: \$25,000
Principal Investigator: Aravind Arepally
Role: Co-Investigator Effort: 1%

January 1, 1998 – September 30, 2002 MRI in the Diagnosis and Local Staging of Breast Cancer
RFA CA-96-012
NIH
Total Direct Cost: \$290,991
Principal Investigator: Mitchell Schnall
Role: Site Principal Investigator. Effort: 5%

July 1, 2000 - December 30, 2001 Assessment of MR Perfusion and Function in an Animal Model of
Ischemia (Bluemke)
Society of Computed Body Tomography & Magnetic Resonance
Total Direct Costs: \$7,500

Principal Investigator: David Bluemke
Role: Principal Investigator Effort 10%

Nov. 1, 2000 – Oct. 31,2001 Preoperative Chemoembolization in the Treatment of Patients
With Liver Cancer: Assessment of Tumor Response With Diffusion MRI and Correlation With
Histopathology
Radiological Society of North America
Total Direct Costs: \$25,000
Principal Investigator: Jeff Geschwind
Role: Co-Investigator Effort 5%

August 1, 1997 - July 31,2001 Investigation of ANG II /AT1 Receptor With PET
R01 DK5018303
NIDDK
Total Direct Costs: \$937,524
Principal Investigator: Zsolt Szabo
Role: Co-Investigator Effort 5%

July 1, 1997-June 30, 1998 Progression of Microvascular Obstruction Following Coronary
Occlusion and Reflow After Acute Myocardial Infarction
Society of Computed Body Tomography & Magnetic Resonance
Total Direct Costs: \$3,000
Principal Investigator: David Bluemke
Role: Principal Investigator Effort 1%

Oct.1, 1995 - September 31, 1998 3-D Liver Imaging for Oncologic Surgery Planning
R01 CA55641-01A1
NIH
Total Direct Costs: \$1,876,487
Principal Investigator: Elliot Fishman
Role: Co-investigator Effort: 10%

October 1, 1992 – Sept. 30, 1997 Dynamic 3D Tagged MRI of the Cardiac Cycle in Ischemia
NIH
Total Direct Costs: \$1,410,000
Principal Investigator: Elias Zerhouni
Role: Co-investigator Effort: 15%

Nov. 1, 1997 – June 30, 1996 Prevention of Avascular Necrosis of the Femoral Head Using MR
Imaging and Spectroscopy
Radiological Society of North America
Total Direct Costs: \$20,000
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 10%

Nov. 1, 1994 – Oct. 31, 1995 Avascular Necrosis of the Hip: Evaluation with MR Imaging and
Spectroscopy
RSNA Seed Grant
Total Direct Costs: \$20,000
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 10%

January 1, 1995 – Dec. 31, 1995 Evaluation of Avascular Necrosis Using MRI and MRS

Willam Gatewood Fellowship
Total Direct Costs: \$10,000
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 5%

Contracts

Collaborative Research and Development Agreement: CC-03-01864 3/27/13 – 12/16/17
Philips Medical Systems
Role: co-Principal Investigator
Aim: to evaluate new MRI pulse sequences and evaluate new technologies on Philips MR scanners.

January 15, 1999 – Jan. 14, 2009 Subclinical Cardiovascular Disease Study, MRI Reading Center
N01HC-95168-01
NIH/NHLBI
Total Direct Costs: \$1,091,117
Principal Investigator: David Bluemke
Role: Principal Investigator Effort 8%
Aim: To study the characteristics of subclinical cardiovascular disease that predict progression to clinically overt cardiovascular disease.

Dec 1, 2006 – Nov 30, 2010 Endothelial Dysfunction and the Right Ventricle in the Multi-Ethnic Study of Atherosclerosis (“MESA-RV”) (Bluemke, subcontract)
NHLBI
Total Direct Costs: \$487,350
Site Principal Investigator: David Bluemke Effort: 10%
Aim: To evaluate right ventricle size and function in the MESA study.

September 27, 2001-July 31, 2008 Multidisciplinary Study of Right Ventricular Dysplasia
Subcontract to University of Arizona
5 U01 HL 65594-02
NIH/NHLBI
Total Direct Costs: \$157,331
Principal Investigator: Site Principal Investigator
Role: Principal Investigator Effort: 1%
Aim: to analyze MR scans of patients suspected of having right ventricular dysplasia.

July 1, 2005 – June 30, 2007 Coronary Evaluation Using Multi-Detector Spiral Computed Tomography Angiography Using 64 Detectors
Toshiba Medical Systems Corporation
Total Direct Costs: \$1,304,058
Principal Investigator: Joao Lima
Role: Co-Investigator Effort: 1%
Aim: To evaluate 64 slice MDCT for coronary heart disease.

April 1, 2005 – Sept. 30, 2006 A Phase II Feasibility Study to Evaluate the Safety and Efficacy of EP-2104R for Magnetic Resonance Imaging of Thrombi in the Detection of Venous Thromboembolism
Epix Pharmaceuticals, Inc
Total Direct Costs: \$33,890
Principal Investigator: David Bluemke

Role: Principal Investigator Effort: 1%
Aim: To study EP-2104R in a phase II trial.

April 1, 2005 – Sept. 30, 2006 A Phase II Feasibility Study to Evaluate the Safety and Efficacy of
EP-2104R for Magnetic Resonance Imaging of Thrombi in the Arterial Vasculature and Cardiac Chambers
Epix Pharmaceuticals, Inc.
Total Direct Costs: \$33,890
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 1%
Aim: To study EP-2104R in a phase II trial.

August 31, 2004 – Aug. 31, 2005 A Phase II Study for the Sequence Optimization of MS-325
(Gadofosveset) for Imaging the Arterial Wall
Epix Pharmaceuticals, Inc MS-325-19
Total Direct Costs: \$86,000
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 10%

July 20, 2004 – July 20, 2005 A Phase III, Multinational, Multicenter Study Evaluating the Safety
and Efficacy of MultiHance in Contrast-Enhanced Magnetic Resonance Angiography (MRA) in the
Assessment of Carotid Arteries Using Digital Subtraction Angiography (DSA) as the Gold Standard
B19036-062
Bracco Diagnostics, Inc
Total Direct Costs: \$28,658
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 5%

July 1, 2002 – December 31, 2004 A Phase III, Multicenter Study to Evaluate the Safety and Efficacy
of MultiHance-Enhanced Magnetic Resonance Angiography (MRA) in the Assessment of Renal/ Abdominal
Arteries as compared to Unenhanced MRA Using Digital Subtraction Angiography (DSA) as the Gold
Standard
Bracco Diagnostics, Inc
Total Direct Costs: \$86,823
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 10%

Sept. 30, 1995 – Sept. 29, 2004 Longitudinal Evaluation of Prostate Growth and Disease in Male
BLSA Subjects: MRI Studies
N01 AG52113
National Institute on Aging
Total Direct Costs: \$868,641
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 10%

June 1, 2003 – Dec. 31, 2003 MRI Evaluation of the Contralateral Breast in Women With a
Recent Diagnosis of Breast Cancer
ACRIN 6667
Total Direct Costs: \$97,770
Principal Investigator: David Bluemke
Role: Site Principal Investigator Effort: 5%

Sept. 30, 2002 - December 31, 2003 Phase III Study of Multi-Hance in Renal Artery Disease
 Bracco
 Total Direct Costs: \$106,013
 Principal Investigator: David Bluemke
 Role: Principal Investigator Effort: 5%

Sept. 30, 1997 – July 31, 2003 MRI in the Diagnosis and Local Staging of Breast Cancer
 534850
 University of Pennsylvania
 Total Direct Costs: \$346,068
 Principal Investigator: David Bluemke
 Role: Principal Investigator Effort: 5%

August 15, 2000 – Aug. 18, 2002 A Phase II Feasibility Study of the Safety and Efficacy of Perfusion
 Magnetic Resonance Imaging (MRI) with MS-325 in the Detection of Myocardial Perfusion
 MS325-10
 Epix Medical, Inc.
 Total Direct Costs: \$74,380
 Principal Investigator: David Bluemke
 Role: Principal Investigator Effort: 10%

August 8, 2000 – July 31, 2002 High Resolution MR Imaging of the Urethra
 Surgivision, Inc.
 Total Direct Costs: \$107,397
 Principal Investigator: David Bluemke
 Role: Principal Investigator Effort: 2%

August 1, 1998 – July 31, 2002 Multicenter, Open-Label Study of Gd-EOB-Dtpa With a Single-IV
 Injection in Patients With Known Focal Liver Lesions Who Are Scheduled For Liver Surgery
 Berlex Laboratories, Inc.
 Total Direct Costs: \$82,673
 Principal Investigator: David Bluemke
 Role: Principal Investigator Effort: 10%

June 1, 1999 – May 31, 2002 Safety and Efficacy of Angiomark-Enhanced MRA For Evaluation of
 Aortoiliac Occlusive Disease
 Mallinckrodt Medical, Inc.
 Total Direct Costs: \$86,776
 Principal Investigator: David Bluemke
 Role: Principal Investigator Effort: 20%

May 23, 2000 – May 22, 2002 Multicenter, Open-Label Study of Gd-EOB-Dtpa With a Single IV
 Injection (25 Mmol/kg) in Patients With Known or Suspected Focal Liver Lesions
 Berlex Laboratories, Inc.
 Total Direct Costs: \$104,919
 Principal Investigator: David Bluemke
 Role: Principal Investigator Effort: 5%

Sept. 7, 2001 – May 14, 2002 High Resolution MR Imaging of Blood Vessels
 Surgi-Vision, Inc.
 Total Direct Costs: \$171,378
 Principal Investigator: David Bluemke
 Role: Principal Investigator Effort: 15%

February 1, 2001 – April 30, 2002 Intravascular MR Imaging of Atherosclerosis
Surgi-Vision, Inc.
Total Direct Costs: \$132,521
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 10%

May 1, 2001 – April 30, 2002 High Resolution MR Imaging of the Prostate
Surgi-Vision, Inc.
Total Direct Costs: \$47,389
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 10%

Sept. 1, 1997 – March 31, 2000 Comparative Evaluation of Feridex I.V.[®] Enhanced Magnetic
Resonance Imaging (EMRI) and Contrast Enhanced (Spiral or Helical) Computed Tomography (CECT) in
the Identification of Liver Lesions
Berlex Laboratories
Total Direct Costs: \$53,312
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 10%

June 1 1998 – Dec. 31, 1999 Evaluation of Myocardial Perfusion in an Animal Model Using an
Intravascular Contrast Agent for MRI
Epix Medical
Total Direct Costs: \$56,514
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 20%

May 1, 1998 – March 15, 1999 A Clinical Study of Feridex I.V. When Administered as a Direct
Injection in Patients
Advanced Magnetics, Inc.
Total Direct Costs: \$101,244
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 15%

February 1, 1998 – Jan. 31, 1999 MRI of the Liver Using Teslascan in Pre-Operative Patients
Nycomed Amersham
Total Direct Costs: \$115,000
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 20%

October 1, 1996 – Dec. 31, 1998 A Phase III Safety and Efficacy Study of Combidex Code 7227 as a
Magnetic Resonance Imaging Agent for the Evaluation of Lymph Node Disease
Advanced Magnetics, Inc
Total Direct Costs: \$61,316
Principal Investigator: David Bluemke
Role: Principal Investigator Effort: 5%

May 27, 1997 – Nov. 27, 1998 A Phase II Study of the Safety and Preliminary Efficacy of MS-325
Enhanced Magnetic Resonance Angiography in Carotid and Peripheral Arteries (Bluemke)
Epix Medical, Inc
Total Direct Costs: \$56,164
Principal Investigator: David Bluemke

Role: Principal Investigator Effort: 20%

July 16, 1996 – July 15, 1997 A Multicenter, Randomized, Double-Blind Study to Evaluate the Safety, Tolerability, and Efficacy of OptiMARK (Gadoversetamide Injection) Compared to Magnevist (Gadopentetate Dimeglumine Injection) in Patients with Liver Pathology

Mallinckrodt Medical, Inc.

Total Direct Costs: \$72,000

Principal Investigator: David Bluemke

Role: Principal Investigator Effort: 5%

Jan 1, 1995 – July 1, 1996 Bone Marrow Perfusion and Composition of the Hip in SLE Patients during Corticosteroid Therapy

Berlex Laboratories

Total Direct Costs: \$20,160

Principal Investigator: David Bluemke

Role: Principal Investigator Effort: 5%

EDUCATIONAL ACTIVITIES

Educational Publications

Peer Reviewed Publications, Invited Review articles, Statements:

1. Olin JW, Kaufman JA, **Bluemke DA**, Bonow RO, Gerhard MD, Jaff MR, Rubin GD, Hall W; American Heart Association. Atherosclerotic vascular disease conference: writing group IV: imaging. *Circulation*. 2004 Jun 1;109(21):2626-33
2. Szarf G, **Bluemke DA**. Case 83: multifocal fibrosclerosis with mediastinal-retroperitoneal involvement. *Radiology*. 2005 Jun;235(3):829-32
3. Weinreb JC, Larson PA, Woodard PK, Stanford W, Rubin GD, Stillman AE, **Bluemke DA**, Duerinckx AJ, Dunnick NR, Smith GG. American college of radiology clinical statement on noninvasive cardiac imaging. *Radiology*. 2005 Jun;235(3):723-727
4. **Bluemke, DA**, Achenbach, S, Budoff, M, Gerber, TC, Gersh, B, Hillis, LD, Hundley, WG, Manning, WJ, Printz, BF, Stuber, M, Woodard, P. Statement on Noninvasive Coronary Artery Imaging: Coronary MR Angiography and Multi-detector CT Angiography. American Heart Association, Subcommittee on Cardiovascular Imaging and Intervention, Council on Cardiovascular Radiology and Imaging, and the Councils on Clinical Cardiology and Cardiovascular Disease in the Young. Submitted.
5. Levine, GN, Arai, A, **Bluemke, DA**, Flamm, SD, Gomes, A, Kanal, E, Manning, W, Martin, ET, Smith, JM, Wilke, N, Shellock, FS. Safety of MRI/MRA in Patients with Cardiovascular Devices. A Statement from the American Heart Association. Submitted.
6. Woodard PK, **Bluemke DA**, Cascade PN, Finn JP, Stillman AE, Higgins CB, White RD, Yucel EK. ACR Practice Guideline for the Performance and Interpretation of Cardiac Magnetic Resonance Imaging (MRI). *J Am Coll Radiol*. 2006 Sep;3(9):665-76. PMID: 17412147
7. Weinreb JC, Larson PA, Woodard PK, Stanford W, Rubin GD, Stillman AE, **Bluemke DA**, Duerinckx AJ, Dunnick NR, Smith GG. ACR Clinical Statement on Noninvasive Cardiac Imaging. *J Am Coll Radiol*. 2005 Jun;2(6):471-7. PMID: 17411862
8. **Bluemke, DA**. Spiral CT of the upper abdomen. *Applied Radiology*. March 1992, suppl, 35-42
9. **Bluemke, DA**, Fishman, EK. Spiral CT of the abdomen. *Diagnostic Radiology*. July, 1992
10. **Bluemke, DA**, Fishman, EK. Spiral CT of the abdomen: clinical applications. *Crit. Rev in Radiology*. 1993; 34(1/2):103-158
11. Fishman, EK, **Bluemke, DA**. Spiral CT of the liver: current applications and Future Directions. *Administrative Radiology* 1993; 12(8):48-52
12. Wyatt, SH, Urban, B.A, **Bluemke, DA**, Fishman, EK. Improving detection of abdominal disease. *Spiral CT Supplement*. November 1993, Miller Freeman, Inc
13. **Bluemke, DA**, Urban, B, Fishman, EK. Spiral CT of the liver: current applications. *Semin in Ultrasound, CT, and MRI*. 1994; 15(2):107-121
14. **Bluemke, DA**, Soyer, P, Fishman, EK. Spiral CT of the abdomen: clinical applications. *Applied Radiology*, November, 1995

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44. Alvin MD, Moshiri M, **Bluemke DA.** Prospective Clinical Trials: 10-year Trends in Radiology. *Radiology* 2020;295(1):1-2. doi: 10.1148/radiol.2020204003
45. **Bluemke DA.** Top Publications in Radiology, 2020. *Radiology* 2020;297(1):1-2. doi: 10.1148/radiol.2020209016
46. **Bluemke DA,** Sosna J. Writing a Great Review for Radiology. *Radiology* 2020;295(3):496-498. doi: 10.1148/radiol.2020204007

47. **Bluemke DA**, Sosna J. Peer-reviewed Publications in 2020: Still Needed? *Radiology* 2020;295(3):495. doi: 10.1148/radiol.2020204006
48. Borgstede JP, **Bluemke DA**. 2020 Manuscript Reviewers: A Note of Thanks. *Radiology* 2020;204026. doi: 10.1148/radiol.2020204026
49. Eng J, **Bluemke DA**. Imaging Publications in the COVID-19 Pandemic: Applying New Research Results to Clinical Practice. *Radiology* 2020;297(1):E228-e231. doi: 10.1148/radiol.2020201724
50. Lee SI, **Bluemke DA**. Radiology In Training: An Investment for Our Future. *Radiology* 2020;296(2):245. doi: 10.1148/radiol.2020204009
51. Moy L, **Bluemke D**. The Radiology Scientific Expert Panel. *Radiology* 2020;296(2):E105. doi: 10.1148/radiol.2020204005
52. Nishino M, **Bluemke DA**. Diagnosis Please Certificates of Recognition Awarded to Five Individuals and to International and North American Radiology Resident Groups. *Radiology* 2020;297(2):247-250. doi: 10.1148/radiol.2020203721
53. **Bluemke DA**. COVID-19 Vaccines and Myocardial Injury. *Radiology*. 2023 Sep;308(3):e232244. doi: 10.1148/radiol.232244. PMID: 37724965.

Books, Book Chapters:

1. **Bluemke, DA**, Goelzer, CL, Nilles, AJ. (1985) In: *Electronic devices for rehabilitation*. Webster, J.G, Cook, A.M, Tomkins, W.J, and Vanderheiden, G.C, eds. Chapman Hall, London, England
2. **Bluemke, DA**, Lund, JT, Lipton, MJ (1991) NMR Assessment of Pericardial Disease. In: *Cardiac Imaging - Principles and Practice*. Marcus, M.L, Schelbert, H.R, Skorton, D.J. and Wolf, G.L, eds. Saunders, New York. 936-947
3. **Bluemke, DA**, Soyer, P. Fishman, EK. (1994) Spiral CT of Liver Tumors. In: *Spiral CT: Principles, Techniques and Clinical Application*. Fishman, EK, Jeffrey, B. eds. Raven Press. 25-43
4. Soyer, P, Van Beers, B, **Bluemke, DA**, Levesque, M. Imaging of Malignant Tumors of the Liver. In: *Diagnostic and Interventional Imaging of the Liver and Biliary Tract*. Soyer, P, Breittmayer, F, De Baere, T, Roche, A (eds). Masson, Paris, 1995; 19-40
5. **Bluemke, DA**, Soyer, P, Fishman, EK. Helical (Spiral) CT of the Liver. *Radiological Clinics of North America*, 1995; 33(5): 863-886
6. Fishman, EK, **Bluemke, DA**. Vascular and Inflammatory Diseases of the Liver. *ARRS 1996 Categorical Course Syllabus*
7. **Bluemke, DA**. MR of the Pancreas. *Computer teaching module, for MR the Game*. EK. Fishman, Editor
8. **Bluemke, DA**, Soyer, P. Abdominal Computed Tomography: Helical CT Techniques. In: Taveras, J.M.Ferruci, J.T, eds. *Radiology: Diagnosis, Imaging, Intervention*. 1997; 4; Ch 57B:1-14
9. **Bluemke, DA**, Fishman, EK. Spiral CT of the Liver. In: Fishman, EK, Jeffrey, B, eds. *Spiral CT: Principles, Techniques and Clinical Application*. Raven Press, 2nd Edition
10. Soyer, P, **Bluemke, DA**, Rymer, R. MR Imaging of the Liver: Technique. *MRI Clinics of North America*, 1997, May 5:205-221
11. **Bluemke, DA**, Willman, J. Bladder Cancer Imaging. In: Schoenberg, M. *Guide to Living with Bladder Cancer*
12. **Bluemke, DA**, Boxerman, JL. MRI of Acquired Cardiac Disease. In: Stark, D.D, Bradey, W.G, Jr, *Magnetic Resonance Imaging, 3rd Edition*. Mosby 409-438
13. **Bluemke, DA**, Soyer, P. CT of Endocrine and Cystic Tumors of the Pancreas. In: Terrier, F, Grossholz, M, and Becker, C.D. *Spiral CT of the Abdomen*. Springer. 1999
14. Soyer, P, **Bluemke, DA**. CT of Hepatic tumors. In: Terrier, F, Grossholz, M., and Becker, C.D. *Spiral CT of the Abdomen*. Springer. 1999
15. **Bluemke, DA**, Chin, B, Lima, JAC. Noninvasive Myocardial Imaging. In.: Kelen G, Stapczynski, J.S, eds. *Emergency Medicine: A Comprehensive Study Guide, 5th Edition*. McGraw-Hill, NY 1999, 428-441
16. Kaushik, S, **Bluemke, DA**. MR Imaging of Muscle Pathology. In: Preedy, V.R, Peters, T.J, eds. *Skeletal Muscle, pathology, diagnosis and management in disease*
17. **Bluemke, DA**, Ed. Oncologic MR Imaging. *MRI Clinics*. Saunders, 2000 (November); 8:4
18. Li, AE, **Bluemke, DA**. Magnetic Resonance Imaging. In: Devita, Hellman, Rosenberg, *Cancer: Principles and Practice of Oncology*. 6/e. Lippincott Williams and Wilkins. 2001 (January)
19. **Bluemke, DA**, Ed. Cardiac Applications of MRI. *Topics in Clinical Magnetic Resonance Imaging*. 2000 (Dec) 11:6

20. Gerber, L, **Bluemke, DA**, Rumberger, JA, Horton, K, Lima, JAC. Cardiac Imaging of Masses, Tumors and Thrombi: Assessment with Echocardiography, Computed Tomography and Magnetic Resonance Imaging. *Cardiac Imaging: Companion to Braunwald's Heart disease*
21. **Bluemke, DA**, Ed. Body MRI Imaging. *Radiological Clinics of North America*. W.B. Saunders, 2002 Vol 4(1)
22. Castillo, E, **Bluemke, DA**. Cardiac MR Imaging. In. Bluemke, DA, Ed. *Radiological Clinics of North America*. W.B. Saunders, 2002 Vol 4(1):17-28
23. Kamel, I, **Bluemke, DA**. MR Imaging of Liver Tumors. In. Bluemke, DA, Ed. *Radiological Clinics of North America*. W.B. Saunders, 2002 Vol 4(1):51-66
24. Rohlfing, T, Maurer, Jr, C.R, Jacobs, MA, **Bluemke, DA**, Shahidi, R. An Alternating-constraints Algorithm for Volume-Preserving Non-Rigid Registration of Contrast-Enhanced MR Mammography Images. In Heinz U. Lemke, Michael W. Vannier, Kyonari Inamura, Allan G. Farman, Kunio Doi, and Johan H. C. Reiber, editors, *CARS 2002 Computer Assisted Radiology and Surgery - Proceedings of the 16th International Congress and Exhibition*, Paris, 2002, 439-444, Berlin, 2002. Springer-Verlag
25. Rohlfing, T, Maurer, Jr, CR., **Bluemke, DA**, Jacobs, MA. "Volumenerhaltende Elastische Registrierung: Validierung Mit Klinischen MR-Mammographien," in *Bildverarbeitung für die Medizin 2003* (T. Wittenberg, P. Hastreiter, U. Hoppe, H. Handels, A. Horsch, and H.-P. Meinzer, eds.), Informatik Aktuell, (Berlin Heidelberg), pp. 91-95, Springer-Verlag, 2003
26. Desai, M.Y, Lima, JA, **Bluemke, DA**. Cardiovascular Magnetic Resonance Imaging: Current Applications and Future Directions. In: *Imaging in Biological Research*. Conn, P.M. Ed. 2004
27. **Bluemke, DA**, Chin, B, Lima, JAC, Tebache, M. Noninvasive Myocardial Imaging. In: Tintinalli, JE, Kelen, GD, Stapczynski, JS, eds. *Emergency Medicine: A Comprehensive Study Guide, 6th Edition*. McGraw-Hill, NY 2004, 424-436
28. Desai, MY, White, RD, **Bluemke, DA**, Lima, JAC. Cardiovascular Magnetic Resonance Imaging. In: Topol, EJ., ed. *Textbook of Cardiovascular Medicine, 3rd Ed*. Lippincott Williams & Wilkins, Philadelphia, PA, 2006, 949-963
29. Vogel-Claussen, J, **Bluemke, DA**. Cardiac Magnetic Resonance Imaging. In: Yuh, DD, Vricella, LA, Baumgartner, WA. *The Johns Hopkins Manual of Cardiothoracic Surgery*. McGraw Hill Medical, New York, NY, 2007, 969-986.
30. Desai, MY, **Bluemk, DA**. Applications of Magnetic Resonance Imaging in Cardiac Disease. In: Hodler, J, von Schulthess, GK, Zollikofer, CL. Diseases of the Heart, Chest & Breast. Diagnostic Imaging and Interventional Techniques. Springer, New York, NY. 2007, 142-148.
31. Tandri, H, Calkins, H, **Bluemke, DA**.. MRI and CT Imaging. In: Marcus, FI, Nava, A, Thiene, G., eds Arrhythmogenic RV Cardiomyopathy/ Dysplasia. Recent Advances. Springer. 2007 Milan pp 135-146
32. Nazarian, S, **Bluemke, DA**, Halperin, H. MR imaging of ventricular tachycardia substrate. Harrison's Online In press.
33. Nazarian, S, Halperin, H, **Bluemke, DA**. Safety and Monitoring for Cardiac Magnetic Resonance Imaging. In: Kwong, R, Ed. Cardiovascular Magnetic Resonance Imaging. Humana Press, Inc. 2007 pp 255-268.
34. Tandri, H, **Bluemke, DA**. Arrhythmogenic Right Ventricular Dysplasia. In: Manning, WJ. Atlas of Cardiovascular Magnetic Resonance. Springer, Philadelphia, 2009, pp 153-162.
35. Grand, D., **Bluemke, DA**. Pulmonary Artery Cardiovascular Magnetic Resonance. In: Manning and Pennell: Cardiovascular Magnetic Resonance, 2nd Edition. Saunders Elsevier, Inc, Philadelphia, 2010. Pp. 480-487.
36. Jain A, Tandri H, Calkins H, **Bluemke DA**: Arrhythmogenic Right Ventricular Dysplasia.

In: Ho V and Reddy, G. Ed. Book of Imaging of the Cardiovascular System: Expert Radiology Series. Elsevier 2010.

37. Vogel-Claussen, J, **Bluemke, DA**. Cardiac Magnetic Resonance Imaging. In: Yuh, DD, Vricella, LA, Yang, SC, Doty, JR.. *The Johns Hopkins Manual of Cardiothoracic Surgery, 2nd edition*. McGraw Hill Medical, New York, NY, 2014, 921-939.

38. Pattanayak, P, **Bluemke, DA**. Tissue Characterization of the myocardium: state of the art characterization by magnetic resonance and computed tomographic imaging. In: Schoepf, UJ, Carr, JC. *Coronary artery disease and the myocardial ischemic cascade*. Radiologica Clinics of North America. Elsevier, New York, NY, 2015, 413-424.

39. **Bluemke DA**, Teague SD. IDKD Springer Series. Imaging of Nonischemic Cardiomyopathy. In: Hodler J, Kubik-Huch RA, von Schulthess GK, eds. Diseases of the Chest, Breast, Heart and Vessels 2019-2022: Diagnostic and Interventional Imaging. Cham (CH): Springer. Copyright 2019, The Author(s). 2019; p. 189-197.

Teaching

Classroom instruction

1993-date	Medical Student Lectures, Intro. to Radiology, 8 lectures/year, Johns Hopkins Hospital
1993-date	Cross-sectional Fellow Lectures, Body MRI topics, 4 lectures/year, Johns Hopkins Hospital
2003 (April)	International Diagnostic Course in Radiology, Instructor, Davos, Switzerland
1997-date	Introduction to Clinical MRI, Instructor, Johns Hopkins Hospital
2007 (April)	International Diagnostic Course in Radiology, Instructor, Davos, Switzerland
2007-2011	Armed Forces Institute of Pathology, Bethesda, Maryland, Instructor.
2012-2017	American Institute for Radiologic Pathology

Clinical instruction

1993-1994	Body CT service, Instructor, Johns Hopkins Hospital
1994-1996	Body CT service, Attending Physician, Assistant Professor, Johns Hopkins Hospital
1995-1999	Body MRI service, Attending Physician, Assistant Professor, Johns Hopkins Hospital
1999-2008	Body MRI service, Attending Physician, Associate Professor, Johns Hopkins Hospital
2008-2017	Attending Physician, National Institutes of Health Clinical Center, Bethesda, MD
2017-date	Attending Physician, University of Wisconsin School of Medicine and Public Health, Madison WI

CME instruction

1. 1992 (August) Spiral CT of the Liver: Spiral CT Conference
Baltimore, Maryland
2. 1993 (February) Spiral CT Workshop
Computed Body Tomography, The Cutting Edge
Orlando, FL
3. 1993 (June) Spiral CT of the Liver
American Society of Radiologic Technologists Annual Meeting
Baltimore, Maryland
4. 1993 (July) Spiral CT: Evaluation of liver tumors. Advanced Topics in Computed
Tomography with Emphasis on Spiral CT
Johns Hopkins, Department of Radiology
Santa Fe, New Mexico
5. 1993 (November) CT of the liver
Spiral CT: Applications and Techniques
Computed Body Tomography for the Technologist: State of the art.
Orlando, FL
6. 1994 (February) Techniques in Spiral CT Scanning
Computed Body Tomography, The Cutting Edge
Johns Hopkins Department of Radiology
Orlando, FL
7. 1994 (July) Spiral CT of the Liver
Advanced Topics in CT with Emphasis on Spiral CT
Johns Hopkins, Department of Radiology
Santa Fe, New Mexico
8. 1994 (November) CT of Hepatic Tumors
Vascular Applications of CT Scanning
Spiral CT Techniques and Protocols
Spiral CT: Applications. Computed Body Tomography for the
Technologist: State of the art
Orlando, FL
9. 1995 (June) MRI of the Liver
MRI of Avascular Necrosis
Principles & Practice of Clinical Magnetic Resonance Imaging
Johns Hopkins Department of Radiology
Washington, D.C.
10. 1995 (July) Spiral CT of Parenchymal Liver Disease
Spiral CT of Liver Tumors
Advanced Topics in CT, with Emphasis on Spiral CT
Johns Hopkins Department of Radiology
Santa Fe, NM

11. 1996 (February) MRI of the Liver
MRI of Avascular Necrosis of Bone
MRI of Extrahepatic Intra-abdominal Disease
MRI of the Abdomen
Principles & Practice of Clinical Magnetic Resonance Imaging
Johns Hopkins Department of Radiology
Amelia Island, FL
12. 1996 (February) CT of Parenchymal Liver Disease
Spiral CT of Pancreatic Cancer
Computed Body Tomography, The Cutting Edge
Johns Hopkins Department of Radiology
Orlando, FL
13. 1996 (June) Spiral CT: Overview
CT of Liver Tumors
CT of Parenchymal Liver Disease
CT of Pancreatic Cancer
Computed Body Tomography for the Technologist: State of the art.
Johns Hopkins Department of Radiology, Las Vegas, NV
14. 1996 (June) MRI of the Pelvis
MRI of the Abdominal Vasculature
Radiology Today
Eberhard-Karls-Universitat Tubingen, Salzburg, Austria
15. 1996 (July) Spiral CT of Pancreatic Cancer
Spiral CT of Liver Tumors
Spiral CT of Parenchymal Liver Disease
Advanced Topics in CT, with Emphasis on Spiral CT
Johns Hopkins Department of Radiology, Santa Fe, NM
16. 1996 (October) CT of Liver Tumors
CT of Parenchymal Liver Disease
CT of Pancreatic Cancer
Spiral CT: An Overview
Computed Body Tomography for the Technologist: State of the art.
Johns Hopkins Department of Radiology, Orlando, FL
17. 1997 (February) Spiral CT: Optimization of Imaging Parameters
CT of Complications of Radiotherapy
CT of Parenchymal Liver Disease
CT of the Pancreas
Computed Body Tomography, The Cutting Edge
Johns Hopkins Department of Radiology
Orlando, FL

18. 1997 (March)
 - MRI of the Liver
 - MRI of Avascular Necrosis of Bone
 - MRI of Extrahepatic Intra-abdominal Disease
 - MRI of Cardiac Disease
 - Principles & Practice of Clinical Magnetic Resonance Imaging
 - Johns Hopkins Department of Radiology
 - Marco Island, FL

19. 1997 (May)
 - Spiral CT: Overview
 - CT of Liver Tumors
 - CT of Parenchymal Liver Disease
 - CT of Pancreatic Cancer
 - Computed Body Tomography for the Technologist: State of the art.
 - Johns Hopkins Department of Radiology, Las Vegas, NV

20. 1997 (July)
 - Spiral CT of Pancreatic Masses
 - Spiral CT of Parenchymal Liver Disease
 - Advanced Topics in CT, with Emphasis on Spiral CT
 - Johns Hopkins Department of Radiology, Santa Fe, NM

21. 1997 (October)
 - CT of Liver Tumors
 - CT of Parenchymal Liver Disease
 - CT of Pancreatic Cancer
 - Spiral CT: An Overview
 - Computed Body Tomography for the Technologist: State of the art.
 - Johns Hopkins Department of Radiology, Orlando, FL

22. 1998 (February)
 - Spiral CT: Basic Principles
 - Helical CT of Parenchymal Liver Disease
 - CT/MRI of the Liver
 - Helical CT of Liver Tumors
 - Johns Hopkins Department of Radiology
 - Orlando, FL

23. 1998 (February)
 - Cardiac Applications of MRI
 - Basic and Clinical Topics in Cardiovascular Disease,
 - Johns Hopkins Medical Institutions, Baltimore, MD

24. 1998 (March)
 - MRI of the Liver
 - MRI of the Painful Hip
 - MR cholangiopancreatography
 - MRI of Aorta
 - MR Angiography of the Body
 - Principles & Practice of Clinical Magnetic Resonance Imaging
 - Johns Hopkins Department of Radiology
 - Marco Island, FL

25. 1998 (June)
 - Basic Principles of Spiral CT
 - Spiral CT of Liver Tumors
 - CT of Parenchymal Liver Disease
 - Spiral CT of Pancreatic Masses
 - Computed Body Tomography for the Technologist: State of the art
 - Johns Hopkins Department of Radiology, Las Vegas, NV

26. 1999 (February) Spiral CT of Parenchymal Liver Disease
Helical CT of Liver Tumors
Johns Hopkins Department of Radiology
Orlando, FL

27. 1999 (March) MRI: GU applications
MRI of the Painful Hip
MR cholangiopancreatography
MRI of the breast
Principles & Practice of Clinical Magnetic Resonance Imaging
Johns Hopkins Department of Radiology
Marco Island, FL

28. 1999 (March) Role of MRI in Oncology
Diagnosis and Treatment of Neoplastic Disorders Course
Johns Hopkins Oncology Center, Baltimore, MD

29. 1999 (June) Basic Principles of Spiral CT
Spiral CT of Liver Tumors
CT of Parenchymal Liver Disease
Spiral CT of Pancreatic Masses
Computed Body Tomography for the Technologist: State of the art
Johns Hopkins Department of Radiology, Las Vegas, NV

30. 2000 (March) MRI of the Shoulder
MRI of the Painful Hip
MR of Liver disease
MRI of the Breast
Principles & Practice of Clinical Magnetic Resonance Imaging
Johns Hopkins Department of Radiology
Marco Island, FL

31. 2000 (April) MRI of the Painful Hip
Applications of Cardiac MRI
Society of Computed Body Tomography and Magnetic Resonance
Twenty-third Annual Course, San Diego, CA

32. 2000 (June) MR Angiography of the Renal Arteries
Cardiac MR: Quantitative Techniques
New Contrast Agents for Cardiovascular MR
Cardiac MR: Advanced Techniques
American College of Radiology: Cardiovascular Imaging
Chicago, IL

33. 2000 (August) MR Angiography: techniques and applications
Educational Symposia
Charlotte, NC

34. 2000 (Sept.) MR Angiography: techniques and applications
Educational Symposia
Tamp, FL

35. 2000 (November) Refresher Course: Practical Cardiac MR Imaging
Radiologic Society of North America, 85th Scientific Assembly
Chicago, IL
36. 2000 (December) Body MR Angiography
Nycomed Symposia
Atlanta, GA
37. 2001 (February) Cardiovascular MR applications
Cardiovascular Topics at Johns Hopkins
Baltimore, MD
38. 2001 (February) Abdominal and renal MR angiography
MRCP techniques and applications
Hot Topics in MR imaging, Baltimore, MD
39. 2001 (March) MRI of the Shoulder
MR of Liver disease
Cardiac MR: principles
Cardiac MR: applications
Principles & Practice of Clinical Magnetic Resonance Imaging
Johns Hopkins Department of Radiology
Marco Island, FL
40. 2001 (March) MRI of the Hip
Functional Cardiac MRI
Advanced applications in hepatic MRI
Society of Computed Body Tomography and Magnetic Resonance
Twenty-fourth Annual Course, San Diego, CA
41. 2000 (May) Advances in Magnetic Resonance Imaging
Topics in Internal Medicine Course, Johns Hopkins
Baltimore, MD
42. 2001 (June) MR Angiography of the Renal Arteries
Cardiac MR: Quantitative Techniques
New Contrast Agents for Cardiovascular MR
Cardiac MR: Advanced Techniques
American College of Radiology: Cardiovascular Imaging
Miami, FL
43. 2001 (July) Abdominal MR Angiography
MRCP: Applications and Techniques
Radiology Today
Salzburg, Austria
44. 2001 (August) MRI of the Liver
MRI of the Hip
Cardiovascular MRI: current status
Society of Computed Body Tomography and MR Imaging
Keystone, CO
45. 2001 (Sept.) Breast MRI

- MRCP techniques and applications
Hot Topics in MR imaging, Baltimore, MD
46. 2001 (October) MR Angiography of the abdomen
MRCP of the abdomen
Applications of Cardiac MRI
New York University
NY, NY
47. 2001 (October) Cardiac MR: clinical applications
MRI of ventricular function
Cardiac MRI techniques
Basic cardiac MRI
Society of Computed Body Tomography and Magnetic Resonance
Chicago, IL
48. 2001 (Nov.) Morphologic Evaluation of the Heart
Cardiovascular MR symposium
Dallas, TX
49. 2001 (Nov.) RSNA refresher course: Principles of Cardiac MRI
Radiological Society of North America
87th Scientific Assembly and Annual Meeting
Chicago, IL
50. 2002 (February) MR Angiography of the Renal Arteries
Cardiovascular MRI: status
MRCP: technique and application
Harvard MRI Annual Update
Kauai, Honolulu
51. 2002 (February) MRI Safety
MRI of the knee
MRI of the shoulder
MRCP Techniques
Breast MRI
Cardiac MRI techniques
Hot Topics in MR Imaging: Update
Baltimore, MD
52. 2002 (March) MRI of the Breast
MR Cholangiopancreatography
Cardiac MR: principles
Cardiac MR: applications
Principles & Practice of Clinical Magnetic Resonance Imaging
Johns Hopkins Department of Radiology
Marco Island, FL
53. 2002 (April) MRI: New contrast agents
MRI of myocardial viability
MRI of left ventricular disease
Applications in Cardiovascular Imaging
American College of Radiology

Boston, MA

54. 2002 (April) Contrast Techniques in Cardiac MRI
Contrast MR Seminar
Palm Springs CA
Amersham Health
55. 2002 (May) MRI of the non cirrhotic liver
Advanced course in Body MRI
Interventional cardiovascular MRI
Course in cardiovascular MRI
ISMRM Tenth Scientific Meeting
Honolulu Hawaii
56. 2002 (June) MRI of Musculoskeletal Tumors
MRI of the Hip
Musculoskeletal Imaging and Intervention 2002, Radiology Today
Salzburg, Austria
57. 2002 (June) MRI of ARVD
MRI of Cardiac Tumors and Pericardium
Interventional MR Techniques
Quantitative Evaluation of the Left Ventricle
Johns Hopkins Cardiovascular MRI: Annual Update
Baltimore, MD
58. 2002 (July) Basic Principles of MR Angiography
MR Angiography applications
New Techniques in CT and MR Imaging
Educational Symposia, Miami, FL
59. 2002 (August) Liver MRI: current status
MRI of the painful hip
MRI of musculoskeletal tumors
Society of Computed Body Tomography and MR Imaging
Napa Valley, CA
60. 2002 (August) Interventional MRI
Oklahoma Heart Institute Annual Meeting
Tulsa, OK
61. 2002 (August) MR angiography of the abdomen and renal arteries
Virginia Society Radiologic Technologists
Falls Church, VA
62. 2002 (October) Hepatobiliary MRI: update
28th Topics in Gastroenterology and Liver Disease: Medical and Surgical Aspects
Johns Hopkins Department of Medicine, Division of Gastroenterology
Baltimore, MD
63. 2002 (October) Techniques and Applications of Cardiac MRI
MRA of the abdominal aorta and renal arteries
MRI Contrast agents

MRI and CT Update 2002
Harvard Medical School and Brigham and Women's Hospital Department of
Radiology, Boston, MA

64. 2002 (October) Cardiac MR: clinical applications
MRI of ventricular function
MRI of ARVD
Society of Computed Body Tomography and Magnetic Resonance
Chicago, IL
65. 2002 (October) Cardiovascular MR Imaging Update
American College of Occupational and Environmental Medicine State of
the Art
Baltimore, MD
66. 2003 (February) MRI of the Breast
MR Angiography Applications
Cardiac MRI Techniques and Applications
Hot Topics in MR imaging
Baltimore, MD
67. 2003 (February) MRI of Cardiac Arrhythmogenic Disease
Society of Cardiovascular Magnetic Resonance Annual Meeting
Orlando, FL
68. 2003 (April) Cardiac MRI Applications
Cardiac MRI Techniques
MRI of the Hip
MRA of the Chest
MRA of the renal arteries and abdomen
New Orleans Radiologic Society
New Orleans, LA
69. 2003 (June) MRA of the abdomen and renal arteries
MRI of cardiac arrhythmias
MRI of LV function
Johns Hopkins Cardiovascular MRI: Annual Update
Baltimore, MD
70. 2003 (September) Surgical Ventricular Restoration for Ischemic Cardiomyopathy:
Status 2003
Cardiopulmonary Research Science and Technology Institute
MRI for SVR planning and Evaluation
Las Vegas, NV
71. 2003 (September) Cardiovascular MR 2003: National Symposium
Invited Speaker
MRI of Cardiac Arrhythmias
Techniques in MR Angiography
New York, NY
72. 2003 (October) Coronary MR Angiography
MR of ischemic cardiomyopathy

- Society of Computed Body Tomography and Magnetic Resonance
Boston, MA
73. 2004 (February) Cardiac MRI: Overview
Musculoskeletal tumors
Magnetic resonance cholangiopancreatography
MRI of the Chest
MR angiography of the abdomen and renal arteries
University of Pennsylvania Winter meeting
St. Kitts, Federation of St Kitts and Nevis
 74. 2004 (March) MRI of myocardial viability
Society of Computed Body Tomography/ Magnetic Resonance
Henderson, Nevada
 75. 2004 (April) MRI of the pelvis
Invited speaker
American Radiology Services
Baltimore, MD
 76. 2004 (May) MRI of myocardial viability
Practical applications of cardiac MRI
Magnetic Resonance Imaging 2004: National Symposium
Educational Symposia
Las Vegas, NC
 77. 2004 (May) MRI of the aorta and carotid artery
Cases in MR angiography
Cardiovascular Magnetic Resonance Imaging: State of the Art
Including an Update on Computed Tomography
American College of Cardiology
Williamsburg, VA
 78. 2004 (May) Cardiac MRI: update and applications
Categorical Course, Invited Speaker
American College of Radiology, Annual Meeting
Washington, D.C.
 79. 2004 (July) Cardiac MRI: assessment of myocardial viability
Cardiac MRI: evaluation of cardiac masses
Oklahoma Heart Institute
Chicago, IL
 80. 2004 (August) Evaluation of dynamic MRI of the breast
Interpretation options for breast MRI
Options in Breast MRI, Mayo Clinic Meeting
Asheville, North Carolina
 81. 2004 (August) Practical Applications in Cardiac MRI
New Advances in Non-Invasive Vascular Imaging 2004
Philadelphia, PA

82. 2004 (August) Breast MRI
Interventional procedures in Breast MRI
Brains and Breast 1st Annual Meeting
Johns Hopkins University Department of Radiology
Tahoe, NV
83. 2004 (August) Practical Applications in Cardiac MRI
New Advances in Non-Invasive Vascular Imaging 2004
Dearborn, MI
84. 2004 (September) Cardiovascular MR 2004: National Symposium-MRI/MRA
MRI of cardiac masses
MRI of cardiomyopathy and ARVD
Renal and abdominal MRA
85. 2004 (September) Comprehensive Cardiovascular Evaluation using MRI
American Radiology
Baltimore, MD
86. 2004 (October) MRI of the Chest
MRI of myocardial viability
Cardiac MRI: techniques
AOCR National Meeting
New Orleans, LA
87. 2005 (January) Hot Topics for MRI Technologists
Cardiac MRI Applications
MRI of Myocardial Viability
MRI of the Breast
MRA of the Chest
Renal MR angiography
88. 2005 (March) Cardiac MRI: Applications
Protocols in Cardiac MRI
Society of Computed Body Tomography-Magnetic Resonance
28th Annual Course
Miami, FL
89. 2005 (April) Cardiac MRI techniques and applications
MRI evaluation of myocardial viability
American College of Radiology Annual Meeting
Washington, DC
90. 2005 (June) MRCP Techniques and Applications
MRA of the Abdomen and Renal Arteries
Hepatic MRI: Current Update
Radiology Today
Salzburg, Austria
91. 2005 (June) MRA of the Chest
MRI of Arrhythmogenic RV Dysplasia
MRI: Case Reviews

- American College of Cardiology,
Cardiovascular MR and CT: State of the Art
Washington, DC
92. 2005 (July) Contrast enhanced MRI of the heart
MRA of the chest and abdomen
Breast MRI
Noninvasive-Cardiovascular CT and MR Imaging and Breast MRI
Society of Computed Body Tomography/ MR
Philadelphia, PA
93. 2005 (September) Dynamic Breast Imaging
Interpretation options for breast MRI
2nd Annual Updating Breast MR Interpretation and Intervention Skills
Mayo Clinic, Jacksonville, FL
94. 2005 (September) Cardiac MRI: Overview and Applications
Coronary MR angiography
MR Angiography
Practical Cardiovascular Imaging: MRI, CT, Echo
Institute of Advanced Medical Education
Las Vegas, NV
95. 2005 (November) Refresher Course: Essentials of Cardiovascular Imaging
Cardiac Imaging: What You Need to Know
Radiological Society of North America 2005
Chicago, IL
96. 2005 (November) Minicourse: Optimize Your Body MR Practice – From Safety to
Protocol Design: Optimize Your Body MR Imaging Protocols
With the Experts
Cardiovascular MRI: Essentials
Radiological Society of North America 2005
Chicago, IL
97. 2005 (November) Cardiovascular MRI: Protocols, Refresher Course
Essentials of Cardiovascular MRI: Cardiac MRI
Radiological Society of North America
Chicago, IL
98. 2006 (January) MRI: Techniques and Applications
MRI of myocardial viability
Evaluation of arrhythmogenic right ventricular dysplasia
MRI of cardiac masses and pericardial disease
MRI of cardiomyopathy and arrhythmogenic conditions of the heart
Los Angeles Radiological Society
58th Annual Midwinter Radiology Conference
Los Angeles, CA
99. 2006 (February) 6th Annual Hot Topics for MRI Technologists
Cardiac MRI Update
MRI of the Breast
MRI/MRA of the Chest

- MRI of the renal arteries and aorta
Baltimore, MD
100. 2006 (February) MRA/MRI of the chest
MR angiography of the aorta and renal arteries
MRI of the heart: Techniques and protocols
Contrast Enhanced cardiac MRI: current applications
Invited Lecturer, University of Michigan Radiology in the Desert
Phoenix, AZ
101. 2006 (March) MDCT of LV and RV Function
Third Annual Cardiac CT: Today and the Future
Johns Hopkins University
Invited Lecturer
Atlanta GA
102. 2006 (March) MRI of Cardiac Masses
MRI of Cardiomyopathy and ARVD
Summit at the Arch: 8th Annual course
Washington University, Mallinckrodt School of Medicine
Invited Lecturer
St Louis, MO
103. 2006 (April) MRI of the Abdomen at 3T: Comparison to 1.5T
MRA of the Chest and abdomen: Advantages over CTA
MRI of myocardial viability
Society of Computed Body Tomography/ Magnetic Resonance
29th Annual Course
Phoenix, AZ
104. 2006 (April) MRA of the Abdominal Aorta and Renal Arteries
MRI of the Liver: Update
23rd Annual Magnetic Resonance Imaging 2006: National Symposium
Las Vegas, NV
105. 2006 (May) MRCP Techniques and Applications
MRI of the Breast
Essentials of Cardiac MRI
CT & MR Imaging 2006
Las Vegas, NV
106. 2006 (June) Advances in Imaging in Vasculitis
Advances in the Diagnosis and Treatment of Rheumatic Diseases
Johns Hopkins Department of Medicine, Rheumatology Division
Baltimore, MD
107. 2006 (June) Noncoronary MR angiography
Cardiovascular MR and CT: State of the Art
American College of Cardiology
Washington, DC
108. 2006 (August) MRI of the Coronary Arteries

- Noncoronary Cardiac CT Angiography
 CT of Ventricular Function
 MRI of Nonischemic Cardiomyopathy
 The Teton Symposium: Cardiovascular Imaging
 Jackson Hole, WY
109. 2006 (September) MDCT of the Coronary Arteries: What You Need to Know
 VIVA Visions Into the Future of Endovascular Medicine
 Las Vegas, NV
110. 2006 (November) Minicourse: Optimize Your Body MR Practice – From Safety to
 Protocol Design: Optimize Your Body MR Imaging Protocols
 With the Experts
 Multi-detector coronary CT: noncoronary applications
 Cardiac MRI: Case based review
 Radiological Society of North America 2006
 Chicago, IL
111. 2007 (February) MRI of the shoulder
 MRA/ MRI of the chest
 MRI: Safety issues
 MRI of the Breast
 Hot Topics in MRI 7th Annual Course
 Baltimore, MD
112. 2007 (February) Cardiac MRI: From Physics to Protocols
 Multi-detector coronary CT: noncoronary applications
 Radiological Society of North America 2007 Highlights
 Phoenix, AZ
113. 2007 (March) MDCT: Beyond the coronary arteries
 Cardiovascular protocols for MRI
 MRI/ MRA of the Chest
 Society of Body CT/MR
 Orlando, FL
114. 2007 (March) Noncoronary MDCT
 MRI of Cardiomyopathy and ARVD
 Summit at the Arch: 9th Annual course
 Washington University, Mallinckrodt School of Medicine
 Invited Lecturer
 St Louis, MO
115. 2007 (April) Cardiac MRI: Practical Applications
 MRCP Techniques and Applications
 MRI of Myocardial Viability
 MRI/ MRA of the Chest
 MRI: A National Symposium
 Las Vegas, NV
116. 2007 (May) MRI for the Assessment and Management of the Arrhythmogenic Patient
 Coronary MRI 2007: Status
 Cardiac MRI for the Cardiologist, Scripps Institute

La Jolla, CA

117. 2007 (June) MRI of cardiac masses and pericardium
How to protocol and diagnose ARVD
Case Reviews in MRI
ACR: Cardiac CT & MR with Supervised Case Review
Chicago, IL
118. 2007 (June) Noncoronary MR angiography
Cardiovascular MR and CT: State of the Art
American College of Cardiology
Washington, DC
119. 2007 (October) MRI of the Breast: Current Concepts
Concepts in Gadolinium Use
Baltimore, MD
120. 2007 (October) NSF Issues and Impact on Gadolinium MRA
MRA of the Chest and Thoracic Aorta
Coronary MRA: Current Status
MRI of the Vulnerable Plaque
MRA: Current Techniques and Applications
American Roentgen Ray Society
St. Louis, MO
121. 2007 (November) Cardiac CT Mentored Case Review: Valves and Cardiac Function
Case-based Review of Magnetic Resonance
Coronary Artery CT and CT Angiography
Radiological Society of North America 2007
Chicago, IL
122. 2008 (January) Hot Topics in MRI
MRI of the Breast
Safety Issues in MRI
MRI of the Shoulder
MRI of Musculoskeletal Tumors
Baltimore, MD
123. 2008 (February) MDCT: Noncoronary Applications
MRI of Myocardial Viability
MRI of the Chest
MRI of the Abdomen and Renal Arteries
MRI: Cardiovascular Essentials
University of Pennsylvania Cross-Sectional Imaging
Invited Lecturer
Mayakoba, Mexico
124. 2008 (March) MRI and MDCT: Which One to Choose
MRI of Cardiomyopathy and ARVD
Summit at the Arch: 10th Annual course
Washington University, Mallinckrodt School of Medicine
Invited Lecturer
St Louis, MO

125. 2008 (April) Myocardial Viability for MRI/ CT
MDCT evaluation of cardiac function and valves
31st Annual Course, Society of Body CT/MR
Orlando, FL
126. 2008 (April) Function, Perfusion, Viability with MRI
2008 Annual Meeting, ARRS
Washington, DC
126. 2008 (May) Nonischemic Cardiomyopathy
ISMRM annual meeting
Toronto, Canada
127. 2008 (June) Noncoronary MR angiography
Perfusion/ Viability with MDCR
6th Annual Cardiovascular MR and CT Conference
American College of Cardiology
Washington, DC
128. 2008 (November) Cardiac CT Mentored Case Review: Valves and Cardiac Function
MRI of ischemia: perfusion, viability, function
94th Scientific Assembly and Annual Meeting
Radiological Society of North America 2007
Chicago, IL
129. 2009 (January) MRI Safety and NSF
MRI of the Breast
Ninth Annual Hot Topics in MRI
Baltimore, MD
130. 2009 (March) Cardiac MRI, When, How, Why
Making the case for Cardiac MRI
Cardiac Case Review
Society for Computed Body Tomography/ Magnetic Resonance
Miami, FL
131. 2009 (June) Cardiac MRI Safety and Nephrogenic Systemic Fibrosis
Cardiac MRI of Masses and Pericardium
7th Annual Cardiovascular Magnetic Resonance
Washington, DC
132. 2009 (November) Cardiac CT Mentored Case Review: Valves and Cardiac Function
MRI of ischemia: perfusion, viability, function
95th Scientific Assembly and Annual Meeting
Radiological Society of North America 2007
Chicago, IL
133. 2010 (January) MR Angiography Techniques
Cardiac MRI
Tenth Annual Hot Topics in MRI
Baltimore, MD

134. 2011 (January) NSF update
MRI of the Breast
11th Annual Hot Topics in MRI
Baltimore, MD
135. 2012 (January) NSF update
MRI of the Breast
12th Annual Hot Topics in MRI
Baltimore, MD
136. 2012 (September) MRI of the coronary arteries
MRA of the carotids and aorta
Cardiovascular MRI: evaluation of incidental abnormalities
Society for Computed Body Tomography/ Magnetic Resonance
Bethesda, MD
137. 2013(January) NSF update
MRI-PET: Introduction and applications
13th Annual Hot Topics in MRI
Baltimore, MD
138. 2014(January) MRI safety update
MR Angiography: Introduction and applications
14th Annual Hot Topics in MRI
Baltimore, MD
139. 2015 (March) MRI and NSF
MRI-PET: current applications
15th Annual Hot Topics in MRI
Baltimore, MD

Mentoring (pre- and post-doctoral)

1995 – 1996	Timothy Mosher, M.D.	Associate Professor, Penn State
1996 – 1997	Jerald Boxerman, M.D., Ph.D.	Assistant Professor, Brown Univ
1996 – 1997	Tuyen Hoang, M.D.	Private Practice
1996 – 1997	Satomi Kawamoto, M.D.	Assistant Professor, Johns Hopkins
1996 – 1997	Geraldine Revelon, M.D.	Private Practice
1997 – 1998	Salvatore DeSena, M.D.	Private Practice
1997 – 1998	A. Jay Khanna, M.D.	Assistant Professor, Johns Hopkins
1997 – 1998	Brian Kuszyk, M.D.	Private Practice
1998 – 1999	Ahmet Halefoglul, M.D.	Turkey
1998 – 1999	Azuma Hashimoto, M.D.	N/A
1998 – 1999	Athena Lantz, M.D.	Private Practice
1998 – 1999	Harry Silber, M.D.	Assistant Professor, Johns Hopkins
1999 – 2000	Bernard Gerber, M.D.	Assistant Professor
1999 – 2000	Khursheed Imam, M.D.	Private Practice
1999 – 2000	Injae Kim, M.D.	N/A
1999 – 2000	Karen Shahar, M.D.	Medical School, Texas

2000 – 2001	Helio Braga, M.D.	Universidade Federal Da Bahia (Brazil)
2000 – 2003	Ernesto Castillo, M.D.	Private Practice
2000 – 2001	Mohammad Khabiry, M.D.	Private Practice
2000 – 2001	Sandeep Rao, M.D.	Private Practice
2001 – 2002	Lawrence Sanders, M.D.	Private Practice
2002 – 2003	Malek Tebache, M.D.	Private Practice
2001 – 2003	Aylin Tekes, M.D.	Johns Hopkins University, Instructor
2002 – 2004	Shunsuke Natori, M.D.	Private Practice
2002 – 2003	M. Robert Peters, M.D.	Private Practice
2002 – 2003	Gilberto Szarf, M.D.	Private Practice
2003 – 2004	Stephen Eagles, M.D.	Private Practice
2003 – 2004	Tuncay Hazirolan, M.D.	Private Practice
2004 – 2005	Jason Shonk, M.D.	Private Practice
2005 – 2006	David Grand, M.D.	Assistant Professor, Brown University
2005 – 2007	Robson Macedo, M.D.	Johns Hopkins Hospital
2005 – 2008	Ashkan Malayeri, M.D.	Johns Hopkins Hospital
2006 – 2011	Riham El-Khoury, M.D.	Johns Hopkins Hospital, NIH
2006 – 2008	Jens Vogel-Claussen, M.D.	Assist Prof, Johns Hopkins Univ.
2006 – 2009	Seth Berkowitz	Johns Hopkins Univ. School of Medicine
2006 --2007	Krishan Juluru, M.D.	Assist. Prof, Cornell Univ.
2007—2008	Qian Oliver, MD	Instructor, Johns Hopkins Univ.
2005 – 2013	Evrin Bengi Turkbey, M.D.	Johns Hopkins Hospital, NIH
2007 – 2011	Harjit Chahal	Johns Hopkins Hospital
2007 – 2011	Aditja Jain, MD	Johns Hopkins Hospital
2007 – 2010	Cuilian Miao, MD	Johns Hopkins Hospital
2007 – 2011	Monda Shehata, MD	Johns Hopkins Hospital
2008 – 2009	David Dombroski, MD	University of Rochester (Visiting Prof)
2007 – 2008	Roi Lotan, MD	Johns Hopkins Hospital
2008	Andrew Chi, BS	Johns Hopkins Hospital
2009	Alex Small, BS	National Institutes of Health
2009	Khurram Zakaria, MD	National Institutes of Health
2009-2010	Radwa A. Noureldin, M.D.	National Institutes of Health
2010-2012	Marcelo Nacif, MD	National Institutes of Health
2010	Justin Huang	National Institutes of Health
2010	Nadine Kawel, MD	University of Basal, Switzerland
2010	Justin Lee, BS	National Institutes of Health
2010-2011	Anna Zavodni, MD	Assist Prof, SunnyBrook
2011	Eunice Yang, BS	Johns Hopkins University SOM
2011	George Cater, BS	National Institutes of Health
2011-	Michael Tee, D. Phil, MD	Lerner School of Medicine
2011-2013	Jose Vargas, MD, PhD	Georgetown University/ NIH
2011-2013	Sam Won, BA	Seoul National University
2011-2012	Alan Kwan, BS	Johns Hopkins University SOM
2011-2014	Cynthia Venn-Davies, PhD	National Institutes of Health
2011-2014	Mark Ahlman, MD	Staff Clinician,NIH
2012	Colin Yi, BS	National Institutes of Health
2012	Fabio Raman, BS	University of Alabama
2013	Filip Zemrak, MD	Oxford University
2013	Gabriella Captur, PhD	Staff, Kings College, London
2013	John McManigle, D. Phil, MD	Duke University
2014	Karen Rodriguez, BA	National Institutes of Health
2014	Davis Vigneault, BS	National Institutes of Health
2014	Puskar Pattanayak, MD	National Institutes of Health

2014	Veit Sandfort, MD	Staff Clinician, NIH
2014	Mariana Selwaness, PhD	Rotterdam University
2015	Rolf Symons, MD	University Hospitals Leuven
2015	Srikanth Palanisamy, BA	National Institutes of Health
2015	Comfort Elumogo, BA	National Institutes of Health
2015	Justin Morris, BA	National Institutes of Health
2015	Amir Pourmorteza, PhD	National Institutes of Health
2016	Ashley Chorath, BA	National Institutes of Health

CLINICAL ACTIVITIES

Certification, Boards

1990	National Board of Medical Examiners	
1991	State of Maryland	D41691, Medical License
1993	American Board of Radiology	Board Certification, Diagnostic Radiology
2003	State of Delaware	C1-0006960, Medical License
2009	American College of Radiology	Certificate of Advanced Proficiency Cardiac Computed Tomography (ID 03478252)

Clinical Service Responsibilities

1993-1994	Body CT service, Johns Hopkins Hospital, Attending Physician, Instructor, 5 days per week
1994-1996	Body CT service, Johns Hopkins Hospital, Attending Physician, Asst. Professor, 4 days per week
1995-1999	Body MRI service, Johns Hopkins Hospital, Attending Physician, Asst. Professor, 4 days per week
1999-2004	Body MRI service, Johns Hopkins Hospital, Attending Physician, Associate Professor, 3 days per week
2005-	Body MRI service, Johns Hopkins Hospital Attending Physician, Associate Professor, 2 days per week
2008-2017	Body Imaging service, National Institutes of Health Clinical Center, 1 day per week
2017-	Cardiovascular Imaging service, University of Wisconsin, Department of Radiology, 1 day per week

Clinical Program Building/ Leadership

1996	Acting Clinical Director	MRI Division, Department of Radiology Johns Hopkins Hospital
1997	Clinical Director, MRI	Department of Radiology Johns Hopkins Hospital
2008	Director, Radiology and Imaging Sciences,	National Institutes of Health Clinical Center, Bethesda, MD

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

1991	ER Radiology Renovation Committee	Radiology, Johns Hopkins Hospital
1992	Committee on Computers	Radiology, Johns Hopkins Hospital
1994	Subcommittee on Housestaff Training	Johns Hopkins University School of Medicine
1994	Postdoctoral Association,	Johns Hopkins University School of Medicine
1994-97	Clinical Data & Documentation Committee	Johns Hopkins Hospital
1994-97	Medical School Council	Johns Hopkins University School of Medicine
1995-	Quality Assurance Committee, MRI Division	Johns Hopkins Hospital
1996-	Fellowship Selection Committee	Radiology, Johns Hopkins Hospital
1996-00	MRI Search Committee	Radiology, Johns Hopkins Hospital
1996-99	Cardiovascular Steering Committee	Johns Hopkins University School of Medicine
1996-01	Faculty Steering Committee	Radiology, Johns Hopkins Hospital
1996	Chair, Faculty and Academic Affairs Comm.	Radiology, Johns Hopkins Hospital
1996	Johns Hopkins Medicine Care Management Team: Clinical Practice	Johns Hopkins Hospital
1996	Dept. of Radiology Compensation Committee	Johns Hopkins Hospital
1997	Research Award Committee	Radiology, Johns Hopkins Hospital
1997	Biennial Program Organzier	Radiology, Johns Hopkins Hospital
1997	CVDL Director Search Committee	Radiology, Johns Hopkins Hospital
1997	Mammography Director Search Committee	Radiology, Johns Hopkins Hospital
1997	Health Care Financing Adminstration Site Visit Host	Johns Hopkins Hospital
2000-	Executive Committee	Radiology, Johns Hopkins Hospital
2002	Advisory Committee, Division Director	Cardiology Division, Johns Hopkins Hospital
2002	CVDL Director Search Committee	Radiology, Johns Hopkins Hospital
2002	Leadership Development Program	Johns Hopkins Hospital
2004	Radiology Research Administration Task Force	Johns Hopkins Hospital
2004	IT Search Committee	Radiology, Johns Hopkins Hospital
2004	Information Systems Task Force	Johns Hopkins Hospital
2005	Pediatrics Director Search Committee	Radiology, Johns Hopkins Hospital
2005	Faculty IT Steering Committee	Radiology, Johns Hopkins Hospital
2006	Research Award Committee	Radiology, Johns Hopkins Hospital
2004-7	Radiology Research Administration Task Force	Johns Hopkins Hospital
2006-08	Medical School Council	Johns Hopkins University School of Medicine
2008	Steering Committee	Radiology and Imaging Sciences, NIH
2008	Clinical Center Executive Committee	National Institutes of Health
2009	National Center for Image Guided Therapy	Reviewer, NCI
2009	Director's Challenge Awards	Reviewer, National Insitutes of Health
2009	Co-Director, Search Committee	National Institutes of Neurologic Diseases
2009	PET Executive Steering Committee	National Institutes of Health
2011	NCI Clinical Imaging Steering Committee	National Institutes of Health
2012	Director's Committee, 3 rd Party Billing	National Institutes of Health
2012	Chair, Imaging Probe Development Committee Search	NIH
2016	Interview committee for Clincial Center CEO	National Institutes of Health
2020-	CV protocol committee	University of Wisconsin Madison
2020-	Radiology Research and Development Committee	University of Wisconsin Madison
2020-	Radiology Awards Committee	University of Wisconsin Madison
2022-	UW Institute for Clinical and Translational Research	Unveristy of Wisconsin Madison

Editorial Activities

- **Editorial Board appointments**

Editorial Board	Journal of Computer Assisted Tomography (JCAT) (1998-)
Deputy Editor	Radiology (1992-1995)
Case Study RX.com	Editor (2002-2003)
Editorial Board	Radiology (2003-6)
Editorial Board	Applied Radiology (2003-)
Editorial Board	International Journal of Cardiovascular Imaging (2005-)
Editorial Board	Topics in Magnetic Resonance Imaging (2005-)
Editorial Board	Journal of Magnetic Resonance in Medicine (2007-)
Editorial Board	Journal of Cardiovascular Magnetic Resonance (2008-1010)
Consultant to the Editor	Radiology (2006-8)
Senior Guest Editor	Circulation Imaging (2010-)
Editorial Board	Journal of the American College of Cardiology (2011-13)
Nature Reviews, Cardiology	Advisory Board (2012-)
Advisory Panel	Expert Review of Cardiovascular Therapy (2012-)
Editorial Board	International Board of Diagnostic & Interventional Imaging
Guest Editor	Journal of the American College of Cardiology (2014-)
Member	Journal of Cardiovascular Magnetic Resonance Senior Advisory Board (2017-)

- **Journal peer review activities**

Journal Reviewer	Radiology (1993-)
Journal Reviewer	RadioGraphics (1994-)
Journal Reviewer	AJR (1994-)
Journal Reviewer	Journal of Computer Assisted Tomography (1995-)
Journal Reviewer	Journal of Magnetic Resonance Imaging (1996-)
Journal Reviewer	Magnetic Resonance in Medicine (1996-)
Journal Reviewer	Investigative Radiology (1997-)
Journal Reviewer	Urology (1999-)
Journal Reviewer	Applied Signal Processing (1999)
Journal Reviewer	Maryland Medical Journal (1999)
Journal Reviewer	IEEE Transactions in Biomedical Engineering (2000)
Journal Reviewer	New England Journal of Medicine (2001-)
Journal Reviewer	Lancet (2001-)
Journal Reviewer	International Medical Image Registry (2002)
Journal Reviewer	JAMA (2002-)
Journal Reviewer	Circulation (2002-)
Journal Reviewer	Journal of the American College of Cardiology (2003-)
Journal Reviewer	International Journal of Cardiovascular Imaging (2003-)
Journal Reviewer	Journal of Cardiovascular Electrophysiology (2004-)
Journal Reviewer	Journal of Electrophysiology (2004-)
Journal Reviewer	Pediatric Blood and Cancer (2004-)
Journal Reviewer	Journal of Family Practice (2005-)
Journal Reivewer	Journal of Echocardiography (2006-)
Journal Reviewer	Anesthesiology (2006-)
Journal Reviewer	Future Cardiology (2006-)
Journal Reviewer	Oncology (2007-)
Journal Reviewer	International Journal of Cardiology (2007-)
Journal Reviewer	Cardiology (2007-)
Journal Reviewer	International Journal of Cancer (2007-)

Journal Reviewer	European Heart Journal (2008-)
Journal Reviewer	Nature Reviews, Cardiology (2010)
Journal Reviewer	JACC Imaging (2010-)
Journal Reviewer	Circulation Imaging (2010-)
Journal Reviewer	PLOSone (2010-)
Journal Reviewer	Journal of the American Heart Association (2014-)
Journal Reviewer	JAMA – Cardiology (2015-)

Advisory Committees, Review Groups

2004	National Academy of Science	Review Panel
2005	Belgium Science Foundation	Grant Reviewer
2005	Israel Science Foundation	Grant Reviewer
2005	NIDDK/ NIH	Study Section
2005-date	Wellcome Trust, British Heart Foundation	Reviewer
2005	U.S. Civilian Research and Development Foundation	Grant Reviewer
2006-date	NIDDK/ NIH, CRISP II External Advisory Panel	Advisory Panel
2006	Technology Foundation STW, The Netherlands	Grand Reviewer
2006-date	NHLBI/ NIH	External Advisory Committee
2006-7	NIH study section, Bioengineering and Imaging Fellowships	Reviewer
2007	NHLBI study section, R01 Ancillary studies	Reviewer
2007	Canada Foundation for Innovation, Research Hospital Fund: Large-Scale Institutional Endeavours Competition (RHF-LSIE)	Reviewer
2008, 2011-2	Israel Science Foundation	Grant Reviewer
2011	NIDDK/ NIH, CRISP III U01 External Review Panel	Advisory Panel
2012	CVON Cardiovascular Onderzoek Nederland	Grant Reviewer
2011-2014	The Netherlands Organisation for Scientific Research	Grant Reviewer
2013	Swiss National Science Foundation	Grant Reviewer
2013	Medical Research Council, United Kingdom	Grant Reviewer
2014-	RSNA Alexander R. Margulis Award for Scientific Excellence	Selection Committee
2015-16	NHLBI Study Section, Special Studies PPG	Member
2016	AHA Collaborative Science Research Award committee	Reviewer
2016	RSNA Research and Education Grant Program committee	Member
2016	RSNA Scholar Mentor program	Member
2017-date	RSNA Publications Council	Member
2017	NIH Shared Instrumental Grant Panel	Member
2017-date	NIH Study Section, Emerging Imaging Technologies and Applications Study Section	Member
2018-date	RSNA Science Council	Member
2018-date	RSNA Education Award Work Group	Member
2020-date	RSNA Publications Policy Committee	Chair
2018-date	RSNA Margulis Award Nomination Committee	Chair
2018-2022	RSNA Olmsted/ Eyer Fellowship Committee	Chair

Professional Societies

Membership

Society of Cardiovascular Magnetic Resonance Member

Society of Computed Body Tomography and Magnetic Resonance	Fellow
The Johns Hopkins Medical and Surgical Association	Member
International Society of Magnetic Resonance in Medicine	Member
Radiological Society of North America (RSNA)	Member
American College of Radiology	Member
American Roentgen Ray Society	Member
Association of University Radiologists	Member
American Heart Association	Premium Professional Member
American Heart Association	Fellow
Society of Atherosclerosis, Imaging and Prevention	Council member
American College of Radiology	Fellow
North American Society of Cardiovascular Imaging	Fellow
International Society of Magnetic Resonance Imaging	Fellow
ISSR International Society for Strategic Studies in Radiology	Member

Committees, Positions held

1999-2003	Radiological Society of North America	Scientific Awards Committee
1999-2003	Radiological Society of North America	Research and Education Seed Grant Review Panel
2000-2004	American College of Radiology	Committee on Standards, Body MRI
2001, 2005-2011	American College of Radiology	Accreditation Committee, Cardiac MRI, Chair
2002-2006	American College of Radiology	MRI Accreditation Committee of the Quality and Safety
Commission		
2001-2003	American Heart Association	Grant Review Panel, Surgery and Imaging
2001-date	American Heart Association	Abstract Reviewer
2003-	American College of Cardiology	Abstract Reviewer
2003-	American Heart Association	Council on Cardiovascular Radiology and Intervention
2003-	International Society of Magnetic Resonance in Medicine	Abstract reviewer
2003	International Society of Magnetic Resonance in Medicine	Publications Committee
2003-	Society of Cardiovascular Magnetic Resonance	Abstract Reviewer
2004-2009	American Heart Association	Program Committee on Cardiovascular Radiology and Intervention
2004-2008	International Society of Magnetic Resonance in Medicine	Board of Trustees
2004-2007	International Society of Magnetic Resonance in Medicine	Annual Meeting Program Committee
2004-2006	Society of Cardiovascular Magnetic Resonance	Publications Committee
2004-	Society of Cardiovascular Magnetic Resonance	Program Committee
2005-2006	Society of Cardiovascular Magnetic Resonance	Education Committee
2005-7	International Society of Magnetic Resonance in Medicine	Director, Annual Program Committee, Cardiovascular Meeting Coord. Committee
2006-	International Society of Magnetic Resonance in Medicine	Education Committee
2006-	International Society of Magnetic Resonance in Medicine	Chair, Audit Committee
2007-	International Society of Magnetic Resonance in Medicine	Meetings Coordination

Committee 2007-2010	Radiological Society of North America	Cardiac Subcommittee, Scientific Program Committee
2007-2009	American Heart Association	Member at Large, Leadership Committee, Cardiovascular Radiology and Intervention
2007-2009 Imaging Committee	American Heart Association	Vice Chair, Cardiovascular & Intervention (CVII)
2007-2011	American College of Radiology	Committee on Research & Technology Assessment – Body
2007-	American College of Cardiology	CMR Function/ Morphology Working Group
2008- 2008- Committee	American Heart Association ACRIN	Chair, AHA grant review panel Cardiovascular Imaging
2008-9	American College of Radiology	Chair, ACR Appropriateness, Cardiac
2008-2010	North American Society of Cardiovascular Imaging	Board Member, Secretary
2009	American Roentgen Ray Society	CME Review/ Approval Subcommittee- Cardiopulmonary
2009-date	ACRIN-PA	Chair, DSMB
2009-2013	American Heart Association	Nominating Committee, CVRI
2008-9	American Heart Association	Council on Clinical Cardiology
2010-	International Society of Magnetic Resonance in Medicine	Governance Committee
2010-	Framingham Heart Study External Advisory Committee	
2010-	Society of Computed Body Tomography/ MR	Scientific Committee
2010-	Society of Cardiovascular Magnetic Resonance	Board of Trustees
2011-	Radiological Society of North America	Task Force on Quantitative Imaging and Imaging Biomarkers
2011-	International Society of Magnetic Resonance in Medicine	Finance Committee
2011-	International Society of Magnetic Resonance in Medicine	Meeting Support Committee
2011-2014	International Society of Magnetic Resonance in medicine	Treasurer
2009-2015	American Heart Association	CVRI Program Committee
2010-2017	University of Michigan Cardiovascular Center	Advisory Board
2011-2012	North American Society of Cardiovascular Imaging	President Elect
2011-2016	American Heart Association CSSP Program Committee	Member
2013-2015	American Heart Association, Cardiac Imaging Committee	Member
2012-2013	North American Society of Cardiovascular Imaging	President
2015	Outside Federal Expert, Nuclear Regulatory Committee	Member
	On the Advisory Committee on the Medical Use of Isotopes	
2014-15	Swiss National Science Foundation	Grant Reviewer
2013-15	Medical Research Council, Imperial College London	Program Reviewer
2014-	Cornell Univ, Dalio Institute of Cardiovascular Imaging	External Advisory Board
2017-	Publications Committee, RSNA	Member
2017-	Committee for Scientific Affairs	RSNA
2017-	Education Committee, RSNA	Member
2018-	Editorial Board, RSNA, Radiology	Editor in Chief
2019-	IS3R	Publications Committee

Conference Organizer, Session Chair

1996	International Society for Magnetic Resonance in Medicine Fourth Scientific Meeting and Exhibition, NY	Moderator
2000-date	Radiological Society of North America (RSNA)	Moderator
2000-date	American Heart Association, Cardiovascular MRI	Moderator
1997	Principles and Practice of Clinical Magnetic Resonance Imaging	Director
1998	Principles and Practice of Clinical Magnetic Resonance Imaging	Director
1999	Principles and Practice of Clinical Magnetic Resonance Imaging	Director
2000	Principles and Practice of Clinical Magnetic Resonance Imaging	Director
2001	Principles and Practice of Clinical Magnetic Resonance Imaging	Director
2002	Principles and Practice of Clinical Magnetic Resonance Imaging	Director
2003	Principles and Practice of Clinical Magnetic Resonance Imaging	Director
1999	International Society for Magnetic Resonance in Medicine, GI categorical Course	Co-Director
2002-date	International Society for Magnetic Resonance in Medicine	Moderator
2001	Department of Radiology, MRI, Hot Topics in MRI, Annual Mtg	Director
2002	Department of Radiology, MRI, Hot Topics in MRI, Annual Mtg	Director
2003	Department of Radiology, MRI, Hot Topics in MRI, Annual Mtg	Director
2004	Department of Radiology, MRI, Hot Topics in MRI, Annual Mtg	Director
2005	Department of Radiology, MRI, Hot Topics in MRI, Annual Mtg	Director
2006	Department of Radiology, MRI, Hot Topics in MRI, Annual Mtg	Director
2007	Department of Radiology, MRI, Hot Topics in MRI, Annual Mtg	Director
2008	Department of Radiology, MRI, Hot Topics in MRI, Annual Mtg	Director
2002	Johns Hopkins Cardiovascular MRI: Annual Update	Co-Director
2003	Johns Hopkins Cardiovascular MRI: Annual Update	Co-Director
2003	North American Society of Cardiovascular imaging Educational course	Co-Director
2003	International Society for Magnetic Resonance in Medicine, Cardiovascular Categorical Course	Co-Director
2004-2005	International Society for Magnetic Resonance in Medicine, Cardiac MR Study Group Course	Director
2005	Institute for Advanced Medical Education, Practical Cardiovascular Imaging: CT, MR, Echo, Nuclear	Co-Director
2003-date	Society of Cardiovascular Magnetic Resonance Annual Meeting	Moderator
2006-7	International Society for Magnetic Resonance in Medicine, Education Committee	Course Coordinator
2008	North American Society of Cardiovascular Imaging	Program Chair

2006-2019, 2023	North American Society of Cardiovascular Imaging	Moderator
2008	Transcatheter Therapeutics Annual Meeting	Moderator
2010-date	Society of Cardiovascular Magnetic Resonance Annual Meeting	Program Committee
2010, 2012	Society of Cardiovascular Magnetic Resonance Mid year Meeting	Organizer
2017	International Society for Strategic Studies in Radiology (IS3R)	Moderator
2018	Editors Forum	Program Committee
2018	Society of Cardiovascular Magnetic Resonance Annual Meeting	Moderator
2019	Editors Forum	Program Committee
2021	Editors Forum	Program Committee
2021	Society of Cardiovascular CT	Moderator
2021	American Heart Association Scientific Sessions	Moderator
2022	Editors Forum	Program Committee

Consultantships

1994	Winthrop Pharmaceuticals	Advisory board
1995, 2004	Bracco Diagnostics	Advisory board
1996-2000	Nycomed Amersham	Advisory board
1997	Berlex Laboratories	Panel member
1997-1999	Per Diem	Consultant
1997-1999	Merlin Dataworks, Inc,	Consultant
1999	GE Medical Systems	Advisory board
1999	Confirma	Consultant
1999-2004	U.S Counseling Services, Inc	Board of Directors
2003-6	Berlex Laboratories	Consultant
2004	Advanced Magnetics	Consultant
2006	General Electric Health Care	Consultant

RECOGNITION

Awards, Honors

- 1978 National Merit Finalist
- Honorary Societies:
- 1980 Tau Beta Pi Engineering Honor Society
1980 Mortar Board
1980 Phi Kappa Phi
1980 Phi Eta Sigma
1982 Iron Shield Society, Univ of Wisconsin
- 1982 University of Wisconsin-Madison
Graduation with Honors
- 1982 University of Wisconsin Foundation
Awarded Lifetime Membership
- 1982 College of Engineering
Meritorious Service Award
- 1978-1982 University of Wisconsin-Madison:
Dean's List all semesters
- 1982 Consulting Engineering Council Finalist
- 1982 Colbeck Scholarship
1982 ARCO Scholarship
1982 UOP Scholarship
- 1982 University of Wisconsin-Madison
Outstanding Senior Engineering Student
- 1983 Tau Beta Pi Fellow
- 1982-1989 National Institutes of Health
Medical Scientist Training Program (MSTP)
- 1989 University of Chicago
Senior Scientific Session, Outstanding Research Presentation
- 1990 American Roentgen Ray Society
Certificate of Merit, Poster Presentation
- 1993 Radiological Society of North America
Certificate of Merit, Poster Presentation
- 1993 The Johns Hopkins Hospital
Department of Radiology, Outstanding Research Paper
- 1993 American Roentgen Ray Society
Executive Council Award

- Requirements for a Nonionic Contrast Agent for Spiral
Computed Tomography of the Liver in an
Animal Model
- 1993 American Roentgen Ray Society
Certificate of Merit, Poster Presentation
- 1994 William Gatewood Fellowship Award
Johns Hopkins Hospital
- 1994 Radiological Society of North America
Certificate of Merit, poster presentations
- 1994 Picker-AUR Faculty Development Program
Association of University Radiologists
- 1995 American Roentgen Ray Society
Certificate of Merit, poster presentations
- 1995 Named in Who's Who in Medicine and Healthcare
- 1996 Named in Who's Who in Science and Engineering
- 1996 Editor's Recognition Award, RadioGraphics
- 1997 American Roentgen Ray Society
- 1997 Society of Computed Body Tomography and Magnetic Resonance
Twentieth Annual Course
Progression of microvascular obstruction following coronary
occlusion and reflow after acute myocardial infarction
Cum Laude Award
- 1999 American Roentgen Ray Society
Executive Council Award
Contrast Enhanced CT of Small Hypovascular Hepatic Tumors:
Effect of Lesion Enhancement on Conspicuity in an Animal Model
- 1999 Society of Computed Body Tomography and Magnetic Resonance
Twenty Second Annual Course
Ferumoxide enhanced MRI comparison to Dual Phase
Helical CT in the Detection of Hepatic Lesions; Cum Laude Award
- 1999 Radiological Society of North America
Cum Laude Award, Poster presentations (2)
- 1999 Radiological Society of North America
Certificate of Merit Award
- 2000 Society of Computed Body Tomography and Magnetic Resonance
Twenty Third Annual Course
MR perfusion in a swine model of coronary stenosis using
intravascular contrast agents; Contrast Award

- 2001 Herbert M. Stauffer Award for the Best Laboratory Paper
Association of University Radiologists
Nontraumatic Osteonecrosis: MR perfusion imaging Evaluation
in an Experimental Model
- 2001 American Roentgen Ray Society, 101st Annual Meeting
Silver Medal, Poster Presentation
- 2001 American Roentgen Ray Society, 101st Annual Meeting
Certificate of Merit, poster presentation
- 1998-2001 *Radiology* Editor's Recognition Award with Distinction
- 2001 Radiological Society of North America
Cum Laude Award, Poster Presentation
- 2001 Radiological Society of North America
Certificate of Merit, Poster Presentation
- 2002 American Roentgen Ray Society, 102nd Annual Meeting
Certificate of Merit, Poster Presentation
- 2002 *Radiology* Editor's Recognition Award with Special Distinction
- 2003 American Roentgen Ray Society
Certificate of Merit, Poster Presentation
- 2003 American Roentgen Ray Society
Executive Council Award
MRI assessment of aortic wall thickness in the MESA study:
distribution by race, gender, and age
- 2003 Radiological Society of North America
Summa Cum Laude Award, Poster presentation
- 2004 Society of Computed Body Tomography/ Magnetic Resonance
Cum Laude Award
Diffusion-weighted MR imaging after Transarterial
Chemoembolization for HCC: multiparametric assessment
of tumor response
- 2004 Radiological Society of North America
Certificate of Merit, Poster presentation
- 2005 Society of Computed Body Tomography/ Magnetic Resonance
Cum Laude Award
High resolution endourethral imaging using MRI
- 2005 Radiological Society of North America
Cum Laude Award, Poster Presentation
- 2006 Outstanding Teacher Award

ISMRM, Cardiovascular Imaging Course

2006 Journal of the American College of Cardiology Elite Reviewer

2007 America's Top Doctors (Castle Connolly)

2007 Medical Imaging: Top 10 Radiologists award

2007 Outstanding Teacher Award
ISMRM, Cardiovascular Imaging

2008 America's Top Doctors (Castle Connolly)

2008 RSNA, Certificate of Merit, Poster Presentation

2009 America's Top Doctors (Castle Connolly)

2009 RSNA, Cum Laude and Certificate of Merit Awards, Poster presentation

2009 NIH Clinical Center Director's Award

2010 America's Top Doctors (Castle Connolly)

2010 NIH Director's Award

2011 NIH Director's Award

2011 America's Top Doctors (Castle Connolly)

2011 Fellow, North American Society of Cardiovascular Imaging

2011 Radiological Society of North America, Cum Laude Award, Poster Presentation

2012 America's Top Doctors (Castle Connolly)

2012 Aunt Minnie.com: Most Influential Radiology Researcher, Semifinalist

2012 Center for Neurosciences and Regenerative Medicine: Certificate of Recognition

2013 Journal of Magnetic Resonance Imaging, Distinguished Reviewer

2013 Fellow, International Society of Magnetic Resonance in Medicine

2013 1st place Scientific Abstract, North American Society of Cardiovascular Imaging meeting

2013 America's Top Doctors (Castle Connolly)

2014 Aunt Minnie.com: Most Influential Radiology Researcher, Semifinalist

2014 Magna Cum Laude abstract award, ISMRM 2014

2014 RSNA Alexander R. Margulis Award, Best Scientific Paper, RADIOLOGY

2014 America's Top Doctors (Castle Connolly)

2015 Marquis Who's Who in American 2015

2015 University of Michigan, Token of Appreciation from Medical Students

2015 Aunt Minnie.com: Most Influential Radiology Researcher

2015 America's Top Doctors (Castle Connolly)

2016 Editor's Recognition Award with Distinction, Radiographics

2016 America's Top Doctors for 10 years (Castle Connolly)

2017 America's Top Doctors for 10 years (Castle Connolly)

2020 Council of Distinguished Investigators (The Academy for Radiology & Biomedical Imaging Research) <http://www.acadrad.org/award-description>

2021 Wisconsin Magazine Top Doctors – Radiologist

2021 RSNA Honored Educator Award

2022 RSNA Honored Educator Award

2023 RSNA Honored Educator Award

2023 Auntminnie.com Most Influential Radiology Researcher Semi-finalist

Invited Talks, Panels, Lectures

1. 1988 (February) 3D Analysis of Polymers of Sickle Cell Hemoglobin
University of Ohio
2. 1989 (May) Structural Analysis of Polymers of Sickle Cell Hemoglobin
Senior Scientific Session
University of Chicago
3. 1991 (November) CT Evaluation of the Patient following the Whipple Procedure with
Adjuvant
Radiation and Chemotherapy: Potential Pitfalls in Interpretation
Radiological Society of North America
Chicago, IL
4. 1992 (January) Patient evaluation following the Whipple Procedure: Potential Pitfalls in
Interpretation
Radiology Grand Rounds
Department of Radiology
Johns Hopkins Hospital
5. 1992 (September) Spiral CT: Applications in the Liver
Johns Hopkins Hospital
6. 1992 (November) Dose Optimization of a Nonionic Intravenous Contrast Medium for Spiral
CT of the Abdomen
Radiological Society of North America
Chicago, IL
7. 1993 (January) Spiral CT with Multiplanar Reconstruction: Role in Imaging GI Pathology
Scottsdale, AZ
Society of Gastrointestinal Radiologists
8. 1993 (April) Dose Optimization of a Nonionic Intravenous Contrast Medium for
Spiral CT of the Abdomen
American Roentgen Ray Society
San Francisco, CA
9. 1993 (June) Spiral CT: Applications in Body Imaging
Johns Hopkins Hospital
Bicentennial Meeting
10. 1993 (June) CT Evaluation of Complications Following Radiation Therapy
American Society of Radiologic Technologists Annual Meeting
Baltimore, Maryland
11. 1993 (July) Evaluation of Liver Tumors using Spiral CT
Siemens Medical Corp.
Iselin, New Jersey

12. 1993 (November) Spiral CT during Arterial Portography: Potential Pitfalls in Interpretation
Bluemke, DA, Fishman, EK
Radiological Society of North America
Chicago, IL
13. 1994 (February) Spiral CT: Applications and Techniques
Clinical Pathological Conference (CPC)
St. Lukes Hospital
Newburgh, NY
14. 1994 (April) Emergency Department Radiograph Evaluation by Radiologists and
Emergency Medicine Physicians: Teleradiology Workstations Versus
Film Interpretation
American Roentgen Ray Society
New Orleans, LA
15. 1994(November) MR Evaluation of Enhancement of the Femoral Head: Implications for
Early Detection of Avascular Necrosis
Radiological Society of North America
Chicago, IL
16. 1994 (November) Potentially Curable Pancreatic Adenocarcinoma: Spiral CT Assessment with
Pathologic Correlation
Radiological Society of North America
Chicago, IL
17. 1994 (December) Spiral CT of the Liver
Spiral CT during Arterial Portography: Techniques and Applications
Buffalo Radiologic Society
Buffalo, NY
18. 1995 (February) CT of Parenchymal Liver Disease
CT Evaluation of Complications of Radiation Therapy
Computed Body Tomography, The Cutting Edge
Johns Hopkins Department of Radiology
Orlando, FL
19. 1995 (May) Evaluating the Clinical Significance of Preliminary Reports in the
Emergency Radiology Department
American Roentgen Ray Society, 95th Annual Meeting, Washington D.C.
20. 1995 (August) MRI/ MRS evaluation of patients at risk for Avascular Necrosis
Society of Magnetic Resonance, Third Scientific Meeting and Exhibition,
Nice, France
21. 1995 (September) MRI of Avascular Necrosis: Potential for Early Diagnosis
Department of Radiology, Clinical/ Basic Science Research Colloquia
The Johns Hopkins Hospital
22. 1995 (November) CT of Liver Tumors
CT of Parenchymal Liver Disease
CT of Pancreatic Cancer
Computed Body Tomography for the Technologist: State of the art.
Johns Hopkins Department of Radiology, Orlando, FL

23. 1995 (November) MR imaging and MR spectroscopy of femoral head perfusion and composition in patients at risk for avascular necrosis
Radiologic Society of North America, 81st Scientific Assembly
Chicago, IL
24. 1996 (January) Cardiovascular MRI: Techniques and Applications
Division of Pediatric Cardiology
The Johns Hopkins Hospital
25. 1996 (September) MRI of the Endometrium
MRI of the Cervix
Invited Speaker, Çapa Hospital, Istanbul University
5th National Congress of Gynecologic Oncology, Istanbul, Turkey
26. 1996 (September) MRI: Advanced Body Imaging Applications
Invited Speaker,
Intermed Medical Center, Istanbul, Turkey
27. 1996 (October) MRI of the Female Pelvis
Gynecology and Obstetric Grand Rounds
Franklin Square Hospital, Baltimore, MD
28. 1996 (November) Avascular Necrosis versus Osteomyelitis in High-Risk Patients: MR Imaging Differentiation
Comparison of Radiograph versus High-Resolution Teleradiology Workstation Image Interpretation:” Multi-Institutional Comparison
Radiologic Society of North America, 82nd Scientific Assembly
Chicago, IL
29. 1997 (May) MRI Liver Experts Meeting: Hepatic MRI
Chicago, IL
30. 1997 (May) New Horizons in Liver Imaging with MRI: Ferumoxides
Cleveland, OH.
Center for Biomedical Communications
31. 1997 (June) Ultrafast MRI: New Applications
The Johns Hopkins Medical Surgical Association
Biennial Meeting, Johns Hopkins Hospital, Baltimore
32. 1997 (June) Use of Ferumoxides for Hepatic Imaging
Detroit, MI
Center for Biomedical Communications
33. 1997 (June) MR Imaging of the liver: applications with Ferumoxides
Houston, TX.
Center for Biomedical Communications
34. 1997 (July) Cardiac and Coronary Magnetic Resonance Imaging and its Prospects in Interventional Guidance
2nd International Meeting on Interventional Cardiology

Jerusalem, Israel

35. 1997 (August) MR Imaging of the Female Pelvis: Current Applications
Grand Rounds, Mercy Medical Center
Department of Obstetrics and Gynecology
36. 1997 (August) MR Evaluation of Avascular Necrosis
Grand Rounds, Department of Orthopedic Surgery
Johns Hopkins Hospital
37. 1997 (September) Magnetic Resonance Cholangiogram - Indication, Sensitivity, Utility
Third Annual Johns Hopkins Hepato-biliary Update, Washington DC
Division of Gastroenterology, Johns Hopkins Hospital
38. 1997 (September) MRI Liver Evaluation using Feridex
Miami, Fl
Ithaca Center
39. 1997 (September) Fundamentals of Spiral CT
CT Contrast Physiology
Siemens Users Meeting, Arlington, VA
40. 1997 (September) MRI Liver Evaluation using Feridex
Orlando, Fl
Ithaca Center
41. 1997 (September) Female Pelvis: Evaluation using MR Imaging
Grand Rounds, Department of Obstetrics and Gynecology
Sinai Hospital, Baltimore, MD
42. 1997 (October) MRI evaluation of the Liver: Current status
MRI of the Liver: Oncologic Applications
Visiting Professorship, Desert Hospital, Palm Springs CA
43. 1997 (November) MR Evaluation of the Aorta
American Heart Association Meeting, Orlando, Fl
44. 1997 (November) MRI of the Liver: Use of Ferumoxides in Tumor Detection
MRI of the Liver: Oncologic Applications
Methodist Hospital, Indiana
45. 1997 (November) Effectiveness of a Limited Screening MR Imaging Examination for
Diagnosis
Radiologic Society of North America, 83rd Scientific Assembly
Chicago, IL
46. 1998 (February) Imaging of hepatic disease using MRI
New approaches in Oncologic imaging in MRI
University of Colorado, Dept of Radiology
47. 1998 (March) A Receptor Specific Contrast Agent for MRI: Vascular Applications
Department of Radiology Grand Rounds
Johns Hopkins University

48. 1998 (April) MR Angiography of the Carotid Arteries: Preliminary Results using an Intravascular Contrast Agent (MS-325)
Fast Spin Echo T2-weighted Imaging of Hip Osteonecrosis
Invited lecture: MRI of the liver: The Role of Teslascan
International Society of Magnetic Resonance in Medicine, Sixth Scientific Meeting
and Exhibition, Sydney, Australia
49. 1998 (September) MRI of the Liver: Current Concepts:
Oregon Radiological Society Invited Speaker
Hepatic Imaging using New Contrast Agents:
Legacy Emmanuelle Hospital, Portland Oregon
Visiting Professor
50. 1998 (September) Cardiovascular MRI: Application of intravascular contrast agents
Department of Radiology
Brigham and Women's Hospital, Boston, MA
51. 1998 (September) MRA of the Carotid Arteries: Use of an Intravascular contrast Agent
MR Angiography Club, annual meeting
Park City, Utah
52. 1998 (October) Coronary and cardiac MRI: prospects for interventional guidance
Fourth International Meeting on Cardiovascular Disease
Ravenna, Italy
53. 1998 (November) Hot Topics Presentation: Bolus Injection of Feridex IV (Ferumoxides injectable solution): A Clinical Study of Safety and MR Imaging Efficacy
3D MR Angiography of the Carotid Arteries: Preliminary Results using a Novel Intravascular Contrast Agent (MS-325)
MR lymph node contrast agent (Combidex®): Use in directing bronchoscopic fine needle aspiration of mediastinal nodes
Radiologic Society of North America, 84th Scientific Assembly
Chicago, IL
54. 1998 (December) MRI of the Liver: Current Concepts
Baylor University
Dallas, Texas
55. 1998 (November) 3D MR Angiography of the Carotid Arteries: Preliminary Results using a Novel Intravascular Contrast Agent (MS-325)
MR Lymph Node Contrast Agent (Combidex): Use in Directing Bronchoscopic Fine Needle Aspiration of Mediastinal Nodes
Direct Injection of Ferumoxides: Comparison to Slow Infusion for the detection of Liver Metastases.
Radiologic Society of North America, 84th Scientific Assembly
Chicago, IL
56. 1999 (January) MRI of the Liver: Oncologic Applications
Spiral CT of the Liver
Body MR Angiography: Technique and Applications
Distinguished Speaker Series, Visiting Professorship

University of Toronto

57. 1999 (January) Cardiovascular MRI: Status
Grand Rounds, Cardiology Division
Johns Hopkins University
58. 1999 (February) Cardiovascular MRI: Update
Grand Rounds, Department of Radiology
Johns Hopkins University
59. 1999 (April) MRI of Avascular Necrosis
Cardiac MRI: Applications
CT of Liver Tumors
Society of Computed Body Tomography and Magnetic Resonance
Twenty Second Annual Course, New Orleans, LA
60. 1999 (April) Ferumoxide enhanced MRI comparison to Dual Phase Helical CT
in the Detection of Hepatic Lesions
Scientific Session, Society of Computed Body Tomography and Magnetic
Resonance
Twenty Second Annual Course, New Orleans, LA
61. 1999 (May) Cardiovascular Applications of MRI
Abdominal MRI: Current Status
Visiting Professorship, The University of Connecticut Health Center
Department of Radiology
62. 1999 (May) Clinical Categorical Course: MRI of the Pancreas
International Society of Magnetic Resonance in Medicine, Seventh Scientific
Meeting and Exhibition, Philadelphia
63. 1999 (September) Optimal Characterization of Myocardial Ischemia using an Intravascular
Contrast Agent, AngioMark
Contrast Media Research Meeting, Woodstock, Vermont
64. 1999 (November) New Contrast Agents in MRI
SMRT Regional Meeting, Bethlehem, PN
65. 1999 (November) Body MRI: Current Applications
Medical Grand Rounds, Washington Adventist Hospital
Washington, D.C.
66. 1999 (November) Practical Cardiac MR Imaging
Phase II Study of AngioMARK (MS-325): Safety and Efficacy of an
Intravascular Contrast Agent for Carotid MR Angiography
Radiologic Society of North America, 85th Scientific Assembly
Chicago, IL
67. 1999 (November) MRI of Breast Cancer
Tenet Health Care
Chicago, IL
68. 1999 (December) Body MR Angiography

- New Contrast Agents in MRI
Visiting Professor, Dartmouth - Hitchcock Medical Center
New Hampshire
69. 2000 (May) MR Angiography and Venography of the Abdomen
American Roentgen Ray Society, 100th Annual Meeting, Washington, DC
 70. 2000 (May) MR Angiography of the Renal Arteries
Cardiac MR Imaging
Liver MRI: Current Contrast Agents
Shanghai, Beijing, Guangzhou
Visiting Lecturer, China
 71. 2000 (October) MRI of Osteonecrosis: Current Techniques and Paradigms for the Future
Invited Lecture, Association Research Circulation Osseous (ARCO)
Baltimore, MD
 72. 2000 (November) MR Angiography of the Renal Arteries
Cardiac MR: New applications
MRI of the Breast
Spiral CT of the Liver
New Contrast Agents in MR Imaging
MRCP Techniques and applications
Invited Lecturer, Brazilian Congress of Radiology
Salvador, Brazil
 73. 2000 (November) MR Angiography: techniques and applications
Educational Symposia
Orlando, FL
 74. 2001 (January) The MESA study
Society of Cardiovascular Magnetic Resonance, Fourth Annual Meeting
Atlanta, GA
 75. 2001 (April) MRI of the Heart: current applications
Greater Kansas City Radiologic Society, Kansas City, MO
 76. 2001 (April) MR Angiography of the abdominal aorta
Scott and White Hospital
Austin, TX
 77. 2001 (April) MRI of the liver: new contrast agents
MRCP: current applications
Visiting Professorship, University of Kansas, Kansas City MO
 78. 2001 (April) MR heart and great vessels
Austin Radiologic Society, Austin, TX
 79. 2001 (April) Body MR Angiography
Visiting Professor, Memorial Medical Center, Springfield, IL
 80. 2001 (June) Imaging of Tumor Response
Society of Vascular and Interventional Radiology, Boston, MA

81. 2001 (October) Renal MR Angiography
Grand Rounds presentation, The Community Hospital
Munster, Indiana
82. 2001 (Dec.) Body MRI: Overview of Clinical Research
MR Research Division
Johns Hopkins Hospital
Baltimore, MD
83. 2002 (January) Cardiovascular MRI: Update
Radiology Grand Rounds
Department of Radiology
Johns Hopkins Hospital
Baltimore, MD
84. 2002 (January) Hepatic MRI: update
University of Virginia – Norfolk
Visiting Professorship
85. 2002 (February) MR abdominal angiography
Liver MRI: current status
Temple University, Philadelphia
Visiting Professorship
86. 2002 (July) Advances in MR Angiography
American Heart Association: Consensus Meeting on Peripheral Vascular
Disease
Boston, MA
87. 2002 (Sept.) MRI of Arrhythmogenic Right Ventricular Dysplasia
North American Society of Cardiovascular Imaging
Dallas, TX
88. 2002 (Sept.) Radiology Grand Rounds: Cardiovascular MR imaging Update
Current concepts of liver MRI
Visiting Professor, Penn State School of Medicine
Hershey, PA
89. 2002 (October) National Diabetes Education Initiative
MRI in Cardiovascular Disease Evaluation
Boston, MA
90. 2002 (November) Advances in Cardiovascular MRI
Tenet Health Care Symposia
Chicago, IL
91. 2002 (November) MR Imaging of Myocardial Viability
Radiological Society of North America
88th Scientific Assembly and Annual Meeting
92. 2003 (January) Advances in Cardiovascular Magnetic Resonance Imaging
Visiting Professor, Boston University

Cardiology Grand Rounds
Boston, MA

93. 2003 (April) Hepatobiliary MRI
Surgical Grand Rounds
George Washington University Hospital
Washington, D.C.
94. 2003 (April) Cardiovascular MR: New applications
Richmond Angiography Club
Richmond, VA
95. 2003 (April) Advances in Cardiovascular MRI
Radiology Grand Rounds
Johns Hopkins Hospital
Baltimore, MD
96. 2003 (May) MRI of Arrhythmogenic Right Ventricular Dysplasia
North American Society of Electrophysiology
Invited Speaker
Washington, DC
97. 2003 (May) Cardiovascular MRI: Novel techniques and applications
Invited Speaker
Delaware Radiological Society
Christiana, DE
98. 2003 (July) MR Imaging of Arrhythmogenic right ventricular dysplasia
Invited Speaker
ISMRM Annual Meeting
Toronto, Canada
99. 2003 (July) Breast MR imaging
Invited speaker
American Radiology
Howard County Hospital, MD
100. 2003 (August) Interventional MRI
Invited Speaker
Oklahoma Heart Institute 5th Annual Course
Tulsa, OK
101. 2003 (August) Breast MR imaging
Invited Speaker
American Radiology
Owings Mills, MD
102. 2003 (September) Transcatheter Cardiovascular Therapeutics (TCT) 2003
Invited Speaker
MRI of Myocarditis, Cardiomyopathy and ARVD
Washington DC

103. 2003 (September) Medical College of Virginia
Visiting Professor, Department of Radiology
MRI of the Urologic Disorders of the Pelvis
Richmond, VA
104. 2003 (September) Richmond Radiologic Society
Invited Speaker
New Applications in Cardiovascular MRI
Richmond, VA
105. 2003 (October) Cardiac MRI applications and techniques
Visiting Professor
Michigan State University
Department of Radiology
Lansing, MI
106. 2003 (October) MR imaging of high risk breast cancer patient
Multi Disciplinary Rounds
Johns Hopkins Hospital
107. 2003 (December) MR Imaging of Ischemic Heart Disease: Wall Motion, Perfusion, and
Viability
Radiological Society of North America
Chicago, IL
108. 2003 (December) New applications in Cardiac MRI
Visiting Professor
Brown University
Department of Radiology
Providence RI
109. 2004 (January) Developments in Cardiac MRI
Visiting Professor
Thomas Jefferson University School of Medicine
Department of Radiology
Philadelphia, PA
110. 2004 (February) MRI of Arrhythmogenic right ventricular dysplasia
Society of Cardiovascular Magnetic Resonance Annual Meeting
Barcelona, Spain
111. 2004 (March) New methods in breast MRI
Medical Staff Grand Rounds
Mercy Hospital, Baltimore, MD
112. 2004 (March) MRI/ CT of Aortic Disease
MRI of the Right Ventricle
Invited speaker, spotlight session
American College of Cardiology
New Orleans, LA
113. 2004 (April) Advances in Cardiac MRI
Visiting Professor, Grand Rounds

University of Maryland, Department of Radiology
Baltimore, MD

114. 2004 (September) Advances in Cardiovascular MRI
Houston Radiologic Society
Houston, TX
115. 2004 (September) Cardiac MRI of masses and ARVD
Faculty Member
Transcatheter Cardiovascular Therapies 2004
Washington, D.C.
116. 2004 (October) Read with the Experts Session: Cardiac MRI
North American Society for Cardiovascular Imaging Annual Meeting
Jacksonville, FL
117. 2004 (October) Advances in Cardiovascular MRI
Grand Rounds lecture
University of Arizona, Department of Radiology
Tucson, NV
118. 2004 (November) Plenary lecture: Cardiac MRI in the 21st Century
Radiological Society of North America 2004
Chicago, IL
119. 2004 (November) MR Imaging of Myocardial Viability
Radiological Society of North America 2004 Refresher Course:
Chicago, IL
120. 2005 (January) SCMR 2005 Annual Meeting
Cardiac MRI of Arrhythmogenic Right Ventricular Dysplasia
121. 2005 (February) Cardiovascular MRI: Evaluation of Myocardial Viability
Grand Rounds lecture
Visiting Professor, Medical College of Wisconsin
Milwaukee, Wisconsin
122. 2005 (February) Cardiovascular MRI: New Horizons
Radiologic Society of Wisconsin
Milwaukee, Wisconsin
123. 2005 (May) Morrison Memorial Lecture: Cardiac MRI: 21st century
Beth Israel Deaconess Medical Center, Department of Radiology
Boston, MA
124. 2005 (May) Cardiac MRI evaluation of arrhythmia and cardiomyopathy
MRI of Breast Cancer: the IBMC Study
Cardiac MRI in the MESA Study
ISMRM Annual Meeting
Miami, FL
125. 2005 (May) Developing a Cardiac Imaging Service: Issues to consider

- ARRS Annual Meeting
New Orleans, LA
126. 2005 (May) Using MRI to Assess Myocardial Viability
Cardiology Grand Rounds
Hahnemann University
Philadelphia, PA
 127. 2005 (August) Cardiac MRI Prior to Sugical Ventricular Restoration
Department of Cardiothoracic Surgery
Johns Hopkins Hospital
Baltiomre, MD
 128. 2005 (September) Advances in Cardiovascular MRI
Visting Professorship, Grand Rounds
Department of Medicine, Division of Cardiology
University of Minnesota
Minneapolis MN
 129. 2005 (September) MRI for the high risk breast cancer patient
Oncology Rounds, Johns Hopkins University
Baltimore, MD
 130. 2005 (October) MRI in the evaluation of cardiac structure and function
MRI of myocardial viability
Cardiomyopathy evaluation with MRI
Breast evaluation with MRI
Sociedad Mexicana de Radiologia e Imagen and
International Society of Magnetic Resonance in Medicine
Mexico City, Mexico
 131. 2005 (November) Cardiovascular MRI Cases
University of Kansas Medical Center
Kansas City KS
 132. 2005 (November) Contrast enhanced Cardiac MRI
Cardiovascular MRI applications
Truman Medical Center, Kansas City MO
 133. 2005 (November) Advances in Cardiovascular MRI
Greater Kansas City Radiological Society
Kansas City MO
 134. 2006 (February) Advances in Cardiovascular MRI
Philadelphia Radiological Society
Philadelphia, PA
 135. 2006 (March) MRI of ARVD/C: What is the Value?
American College of Cardiology, 55th Annual Scientific Session
Atlanta GA
 136. 2006 (April) Essentials of Cardiac MRI
Cardiac MRI: Board Review

Radiology Grand Rounds: Cardiovascular MRI: Present and Future Directions
Visiting Professor, Radiology, Columbia University Medical Center
New York Presbyterian Hospital
New York, NY

137. 2006 (May) Coronary MRI/ MRA
MRI of Arrhythmogenic Conditions of the Heart
ISMRM 14th Annual Meeting and Exhibition
Seattle, WA
138. 2006 (June) Carotid Imaging Techniques
American Society of Echocardiography
Baltimore, MD
139. 2006 (October) MRI of ARVD: How Does it Help?
North American Society of Cardiac Imaging
35th Annual Meeting and Scientific Sessions
Las Vegas, NV
140. 2006 (October) MRI to Evaluate Subclinical Cardiovascular Disease
Department of Epidemiology
Northwestern University
Chicago, IL
141. 2006 (October) Cardiovascular Cases
Department of Radiology
Northwestern University School of Medicine
Chicago, IL
142. 2006 (October) Cardiac CT and MRI: Competing or Complimentary?
Chicago Radiological Society
Chicago, IL
143. 2006 (October) MRI is More Sensitive, Accurate and Less Technique Dependent
for Myocardial Viability
Cardiac MRI: Assessing Anatomy and Function in Heart Failure
MRI Assessment of Viability – The New Reference Standard
MRI Assessment of Nonischemic Adult Structural Heart Disease
Transcatheter Cardiovascular Therapeutics
Washington, DC
144. 2006 (November) Myocardial Viability: Overview and Assessment by MRI
Cardiac Keynote Speaker
Radiological Society of North America
Chicago, IL
145. 2007 (February) Nonischemic Cardiomyopathy: MRI evaluation
Society of Cardiovascular MR
Rome, Italy
146. 2007 (February) Introduction to Body MRI
Department of Medicine, Bayview Campus

Baltimore, MD

147. 2007 (April) Breast MRI: Current Status
ICMIC Seminar
Johns Hopkins Hospital
148. 2007 (May) Nephrogenic Systemic Fibrosis: Hopkins Experience
American Roentgen Ray Society Meeting
Orlando, FL
149. 2007 (May) Cardiac MRI: Perfusion, Function Viability
American Roentgen Ray Society Meeting
Orlando, FL
150. 2007 (May) MRI of Arrhythmogenic Right Ventricular Dysplasia
NIH Panel, Task Force
Denver, CO
151. 2007 (May) Cardiomyopathies: Added Information with Cardiac MRI
International Society of Magnetic Resonance in Medicine
Berlin, Germany
152. 2007 (October) Cardiac MRI 2008: Radiologist's Perspective
CT/ MRI of Arrhythmogenic Right Ventricular Dysplasia
MRI of Plaque Composition and Changes during Treatment
North American Society of Cardiovascular Imaging, 35th Annual Meeting
Washington, DC
153. 2007 (November) Cardiovascular Imaging: Past, Present, Future
Rigler Grand Rounds lecture
Visiting Professor, University of Minnesota, Dept of Radiology
Minneapolis, MN
154. 2007 (November) Noninvasive Cardiovascular Imaging:
Grand Rounds lecture
Visiting Professor, University of Minnesota, Dept of Radiology
Minneapolis, MN
155. 2008 (April) MRI/ CT of ARVD/C
American College of Cardiology, 57th Annual Scientific Session
Chicago, IL
156. 2008 (May) Advances in Noninvasive Cardiovascular Imaging
Radiology Grand Rounds
Massachusetts General Hospital
Boston, MA
157. 2008 (May) Future of Noninvasive Cardiovascular Imaging
Radiology Grand Rounds
Brigham and Womens Hospital
Boston, MA
158. 2008 (June) Noninvasive Cardiovascular Imaging Using CT and MRI

- Radiology Grand Rounds
University of Virginia
Charlotte, VA
159. 2008 (September) Cardiovascular Imaging: Past, Present, Future
Radiology Grand Rounds lecture
Visiting Professor, New York University, Dept of Radiology
New York, NY
 160. 2008 (September) MRI of the Myocardium
Visions for MRI: Bayer Symposium on Contrast Agents
Berlin, Germany
 161. 2008 (October) MR Imaging of the Body
Howard Hughes Medical Institute Scholars Lecture
Bethesda, MD
 162. 2008 (October) CT Perfusion Imaging of the Heart
Coronary Plaque MRI
North American Society of Cardiovascular Imaging Annual Meeting
Phoenix AZ
 163. 2008 (October) MRI of the Renal Arteries
Insights from the MESA Study
Transcatheter Therapeutics
Washington DCF
 164. 2008 (November) CT and MRI of the cardiovascular system
Clinical Investigator Student Trainee Forum
National Institutes of Health
Bethesda, MD
 165. 2008 (November) MDCT of the myocardium and pericardium
American Heart Association
New Orleans, LA
 166. 2008 (November) MRI in Ischemic Cardiac Disease
Radiologic Society of North America
94th Scientific Assembly and Annual Meeting
Chicago, IL
 167. 2009 (January) MRI and CT of Cardiovascular Disease: Competing or Complimentary?
MDCT of Noncoronary Artery disease
Visiting Professor/ Grand Rounds, Radiology,
Columbia University Medical Center
New York Presbyterian Hospital
New York, NY
 168. 2009 (March) MRI and CT Evaluation of Cardiovascular Disease
Cardiology Grand Rounds
University of Rochester
Rochester, NY
 169. 2009 (April) MRI and CT: Present and Future Potential for Cardiovascular Disease

- MRI of Ischemic Cardiomyopathy
 MRI of Nonischemic Cardiomyopathy
 MRI of the Chest
 2nd Annual Pan Arab Congress of Radiology
 Alexandria, Egypt
168. 2009 (April) Ischemia evaluation with MRI
 Cardiac MRI cases
 Valvular and cardiac function by MDCT
 Nonischemic cardiomyopathy: MRI evaluation
 Ain Shams Hospital
 Cairo, Egypt
169. 2009 (June) Cardiac MRI
 Cardiovascular MRI
 ISMRM Case-Based Clinical Education Program
 New York, NY
170. 2009 (October) Results of Ischemia Trials with Cardiac MRI
 North American Society of Cardiovascular Imaging
 37th Annual Meeting
 Orlando, FL
180. 2009 (November) The Vulnerable Plaque: Lessons learned from the Coronary Arteries
 Hypertrophic Cardiomyopathy
 American Heart Association Scientific Sessions 2009
 Orlando, FL
181. 2009 (November) MRI in Ischemic Cardiac Disease
 Radiologic Society of North America
 95th Scientific Assembly and Annual Meeting
 Chicago, IL
182. 2010 (January) MRI of rare cardiomyopathy
 Society of Cardiovascular Magnetic Resonance
 13th Annual Meeting
 Phoenix, AZ
183. 2010 (March) Cardiovascular MRI of Atherosclerosis
 Nonischemic Cardiomyopathy evaluation by MRI
 Asian Society of Cardiovascular Imaging
 Taipei, Taiwan
184. 2010 (May) Use of Audience Response Systems I
 International Society of Magnetic Resonance in Medicine
 Stockholm, Sweden
185. 2010 (May) Tissue Composition Using MRI
 University of Pennsylvania
 Philadelphia, PA
186. 2010 (September) 3T versus 1.5T Cardiac Imaging
 MRI of Arrhythmogenic Right Ventricular Dysplasia

- North American Society of Cardiovascular Imaging
38th Annual Meeting
Seattle, WA
187. 2010 (October) Cardiovascular Imaging: from Patients to Populations
Grand Rounds
Michigan State University
Lansing, MI
 188. 2010 (October) Clinical Cardiovascular Molecular Imaging
National Institutes of Health Research Festival
Bethesda, MD
 189. 2010 (October) The MESA study: from patients to populations
Nonischemic Cardiomyopathy evaluation by MRI/ CT
T1 mapping in Cardiomyopathy
Advances in Molecular Imaging
2010 Brazilian Congress of Radiology 39th Annual Meeting, Invited Speaker
Rio De Janeiro, Brazil
 190. 2011 (May) Innovations in Cardiac Imaging: New Windows to the Heart 2011
Johns Hopkins University School of Medicine
Cardiovascular imaging using CT and MRI, Invited speaker
Baltimore, MD
 191. 2011 (June) Cardiac MRI: Safety and NSF
MRI of the Carotid arteries and chest
MRI of the peripheral vasculature
Society of Cardiovascular Magnetic Resonance: State of the Art
Bethesda, MD
 192. 2011 (August) Body MR Angiography
AMEDD 2011: "Current Concepts in Diagnostic Imaging
Uniformed Services University
Bethesda, MD
 193. 2011 (September) Integrated MRI-PET: Potential Applications
ACRIN 2011 Meeting
Pentagon City, VA
 194. 2011 (September) New Developments in Cardiovascular MRI
Cardiovascular MRI evaluation of ischemic cardiomyopathy
NASCI 2011
Baltimore, MD
 195. 2011 (November) Vascular imaging: which test?
Plenary Session
American Heart Association Annual Meeting
Orlando, FL
 196. 2011 (November) Careers at the intersection of radiology and cardiology
Early Career session
American Heart Association Annual Meeting

Orlando, FL

197. 2011 (December) Progress in myocardial tissue characterization using MRI
Advanced cardiovascular imaging: from patients to populations
Distinguished Cardiovascular Lecturer Series
Vanderbilt University
Nashville, TN
198. 2012 (February) Cardiovascular MRI/ CT: from patients to populations
Visiting professor
University of Texas-Southwestern
Dallas, TX
199. 2012 (May) Prognostic Value of CMR Versus Traditional Risk Factors
ISMRM 20th Annual Meeting and Exhibition
Melbourne, Australia.
199. 2012 (May) Evaluation of the Right Ventricle
ISMRM 20th Annual Meeting and Exhibition
Melbourne, Australia.
200. 2012 (June) Advanced Cardiovascular Imaging in Translational Medicine
3rd Sino-American Symposium on Clinical and Translational
Medicine
Shanghai, China
201. 2012 (August) Development of an NIH Diversity Policy
Brookings Institution, Washington DC
NIH Executive Leadership program
202. 2012 (October) Cardiovascular Disease Imaging in Patients and Populations
Distinguished Lecturer Series
Orlando, FL
203. 2012 (November) Differentiation of Nonischemic Cardiomyopathy by MRI
Invited Speaker
American Heart Association Scientific Sessions
Los Angeles, CA
204. 2012 (November) MRI of Evaluation of Pacemakers/ ICDs: Future Directions
Invited Speaker
American Heart Association Scientific Sessions
Los Angeles, CA
205. 2012 (November) Differentiation of Nonischemic Cardiomyopathy by MRI
American Heart Association Scientific Sessions
Los Angeles, CA
206. 2012 (November) How to establish research collaborations
American Heart Association Scientific Sessions
Los Angeles, CA
207. 2012 (November) Cardiovascular Disease Risk: Improving Prediction: Role of MRI

- Cardiac MRI for evaluation of myocardial ischemia
Radiological Society of North American, 98th Annual Meeting
Chicago, IL
208. 2013 (January) The Role of MRI in ARVC/D
Inherited Cardiomyopathies by CMR
Society of Cardiovascular Magnetic Resonance
SCMR 16th Annual Scientific Sessions
San Francisco, CA
209. 2013 (February) Advances in Cardiovascular Imaging
Demystifying Medicine Lecture Series
Bethesda, MD
210. 2013 (April) Stress Perfusion Cardiac MRI
MRI Contrast Agents – Beyond NSF
ARRS 2013 Annual Meeting
Washington, DC
211. 2013 (April) Cardiovascular CMR for risk prediction
ISMRM 21st Annual Meeting
Salt Lake City, Utah
212. 2013 (May) Advanced MRI/ CT: applications to population studies
Visiting Professor, Grand Rounds
University of Wisconsin-Madison Radiology
213. 2013 (September) Cardiovascular MRI in large population trials
Advanced imaging of the right ventricle
CMR advances in T1 mapping
VI National Cardiac Meeting
Sao Paulo, Brazil
214. 2013 (September) Cardiovascular MRI of heart failure
Chest pain evaluation with MRI
Radiology Head to Toe
Vancouver, Canada
215. 2013 (September) MRI advances in the MESA study
North American Society of Cardiovascular Imaging 41st Annual Meeting
Atlanta, GA
216. 2013 (October) Cardiovascular Imaging for Patients to Populations
Sven Paulin Annual Lecture
Beth Israel Deaconess Medical Center
Boston, MA
217. 2013 (November) Cardiovascular MRI in the MESA study
T1 mapping: new applications
European Society of Cardiovascular Radiology
London, UK

218. 2013 (November) Advances with MRI in Big Data: The MESA study
University College London
Heart Hospital
London, UK
219. 2013 (November) Arrhythmogenic Right Ventricular Cardiomyopathy: Task force update
American Heart Association Scientific Sessions
Los Angeles, CA
220. 2013 (November) Cardiovascular Disease Risk: Improving Prediction: Role of MRI
PET/MR—Should You Add One To Your Practice
Radiological Society of North American, 99th Annual Meeting
Chicago, IL
221. 2014 (January) Update on Clinical Trials: MESA and CMR
Society of Cardiovascular Magnetic Resonance, 17th Annual Meeting
New Orleans, LA
222. 2014 (March) Ischemic Cardiomyopathy: Developments in CMR
ACC.14, 63rd Annual Scientific Session & Expo
Washington, DC
223. 2014 (April) Right heart evaluation by CMR
Clinical applications and challenges of PET-MRI in the USA
Joint Annual Meeting ISMRM-ESMRMB 2014
Milan, Italy
224. 2014 (May) The hypertrophic left ventricle: Is it Hypertrophic Cardiomyopathy
American Roentgen Ray Society
San Diego, CA
225. 2014 (May) Clinical applications of MRI-PET in the U.S.
Evaluation of the right heart
ISMRM 22nd Annual Meeting
Milan, Italy
226. 2014 (June) Evaluation of atherosclerosis using imaging
NIH Clinical Center Grand Rounds
Bethesda, MD
227. 2014 (September) Cardiovascular biomarkers using imaging
Building an academic career
North American Society of Cardiovascular Imaging
New Orleans, LA
228. 2014 (October) Value of cardiac MRI in asymptomatic population: The MESA study
Lecture title: Cardiac imaging in patients with T1 diabetes: The EDIC study
European Society of Cardiovascular Radiology
Paris, France
229. 2014 (October) Cardiovascular imaging in population studies
Erasmus Medical Center

Rotterdam, The Netherlands

230. 2014 (October) Radiology and an academic medicine career
Johns Hopkins Hospital
Baltimore, MD
231. 2014 (November) Coronary Calcium Score and Subclinical Heart Damage: the Multi-Ethnic
Study of Atherosclerosis (MESA)
American Heart Association Scientific Sessions
Chicago, IL
232. 2014 (November) Data from MRI in the MESA study
Kronmal Symposium
Seattle, WA
233. 2014 (November) Radiology Preparedness in Ebola Virus Disease
Radiological Society of North American, 99th Annual Meeting
Chicago, IL
234. 2015 (February) MRI of the Arrhythmic Substrate
Society of Cardiovascular Magnetic Resonance, 18th Annual Meeting
Nice France
235. 2015 (February) Cardiac MRI in patients and populations
NHLBI Division of Cardiovascular Diseases
Bethesda, MD
236. 2015 (February) Advances in cardiovascular imaging
NIH OxCam program
Bethesda, MD
237. 2015 (February) Arrhythmogenic right ventricular cardiomyopathy: case and discussion
Use of CMR in Unexplained cardiomyopathy
CMR Evaluation of the Unique Function and Structure of the Right
Ventricle
American College of Cardiology 64th Annual Scientific Session
San Diego, CA
238. 2015 (March) MRI evaluation of cardiovascular disease
47th Annual International Diagnostic Course Davos
Davos, Switzerland
239. 2015 (April) CMR in ischemia
American Roentgen Ray Society, 115th Annual meeting
San Diego, CA
240. 2015 (May) CMR of the myocardium in ischemia
Lund University
Lund, Sweden
241. 2015 (June) MRI of right and left ventricular function
ISMRM 23rd Annual Meeting
Toronto, Canada

242. 2015 (September) Late gadolinium enhancement MRI for assessment of risk
Starting an Academic career
North American Society of Cardiovascular Imaging
San Diego, CA
243. 2015 (November) Cardiovascular MRI and risk prediction
American Heart Association Scientific Sessions
Chicago, IL
244. 2015 (November) MRI of Coronary Artery Disease: Coronary and Stress Perfusion
Radiological Society of North American, 100th Annual Meeting
Chicago, IL
245. 2016 (January) CMR in big data: The MESA study
Society of Cardiovascular Magnetic Resonance, 19th Annual Meeting
Orlando, FL
245. 2016 (January) CT evaluation of plaque progress
Developments in CT technology
Netherlands Heart Days
Curacao
246. 2016 (February) Progress in CMR evaluation of Arrhythmogenic RV Dysplasia
University of Utrecht
Utrecht, The Netherlands
247. 2015 (February) Imaging the Right Ventricle in Arrhythmogenic RV Cardiomyopathy
American College of Cardiology 65th Annual Scientific Session
Chicago, IL
248. 2016 (June) Photon CT applications to cardiovascular disease
Extracellular volume fraction for CT imaging of the heart
1th Annual Scientific Meeting of the Society of Cardiovascular Computed
Tomography
Orlando, FL
249. 2016 (September) International Symposium on Clinical Translational Medicine
Advanced CT imaging in Clinical and Translational Medicine
Shanghai, China
250. 2016 (October) Symposium in Photon Counting CT Technology
Photon Counting CT: NIH experience
Mayo Clinic, Rochester, MN
251. 2016 (October) Imaging Unstable Plaque
Starting an academic research career
North American Society of Cardiovascular Imaging
Baltimore, MD
252. 2016 (November) MRI Evaluation of ARVC
American Heart Association Scientific Sessions
New Orleans, LA

253. 2016 (November) MRI of Coronary Artery Disease: Coronary and Stress Perfusion
Cardiovascular applications of Spectral CT
Radiological Society of North American 2016, Annual Meeting
Chicago, IL
254. 2016 (January) Multi-spectral CT using dual source CT
Risk Stratification using LGE CMR
Netherlands Heart Days
Curacao
255. 2017 (February) Standardization of CMR: Lessons from MESA and Cohort Studies
Society of Cardiovascular Magnetic Resonance, 29th Annual Meeting
Orlando, FL
256. 2017 (May) Photon Counting CT: Initial human results
4th workshop on Medical Applications of Spectroscopic X-ray Detectors
CERN, Switzerland
257. 2017 (June) Developments in Photon Counting CT
Somatom World meeting
Singapore
258. 2017 (November) Imaging to Enhance Risk Stratification: CMR
American Heart Association
Anaheim, CA
259. 2017 (November) Quantitative Imaging: photon CT
North American Society for Cardiovascular Imaging
San Antonio, TX
260. 2017 (November) Use of CMR for arrhythmia evaluation
University of Pennsylvania Ventricular Arrhythmia Symposia
Philadelphia, PA
261. 2017 (December) Applications of photon counting CT
Grand Rounds, visiting professor
Stanford University
262. 2018 (January) Gadolinium contrast physics and safety
CMR 2018 annual meeting
Barclona, Spain
263. 2018 (February) CMR evaluation of normal values and application
Institute for Experimental and Translational Cardiovascular Imaging,
DZHK Centre for Cardiovascular Imaging
University Hospital Frankfurt / Main
Frankfurt, Germany
264. 2019 (November) Publishing a manuscript in Radiology
Visiting Editor Program:
Dule University

- Wake Forest University
University of North Carolina
264. 2019 (November) Publishing a manuscript in Radiology
Visiting Editor Program:
Mallinckrodt Institute of Radiology
Washington University
St Louis MO
264. 2019 (November) Publishing a manuscript in Radiology
Visiting Editor Program:
LSU Medical Center
Tulane University
Oschner Medical Center
New Orleans, LA
264. 2019 (November) Publishing a manuscript in Radiology
Ethics in Publishing
Visiting Editor Program:
University of British Columbia
Vancouver, Canada
265. 2019 (November) Publishing in RSNA Journals: tips from the Editors
RSNA 2020
Chicago, IL
266. 2019 (November) Review of 2019: New research that should impact your practice
RSNA 2019
Chicago, IL
267. 2019 (November) From patients to populations: Imaging studies in MESA
Grand Rounds, Cardiology, University of British Columbia
Vancouver, Canada
268. 2020 (February) Updated ARVC Criteria
Society of Cardiovascular Magnetic Resonance
Orlando, FL
269. 2020 (September) Advances in Cardiovascular Imaging
Imaging Elevated Conference, Keynote Speaker
University of Utah
270. 2020 (October) How to publish in Radiology
Ethics of Scientific Publishing
Grand Rounds, University of Kentucky (virtual)
271. 2020 (November) Update on ARVC evaluation by MRI
Course of Cardiovascular Imaging, Technology and Intervention
Online, Virtual <https://citicmx.com/Home/About>

272. 2020 (December) Review of 2020: New research that should impact your practice
RSNA 2020
Online, Virtual <https://rsna2020.rsna.org/>
273. 2020 (December) What's in the pipeline for neuroradiology? photon counting CT
RSNA 2020
Online, Virtual <https://rsna2020.rsna.org/>
274. 2021 (January) Cardiac MRI evaluation of COVID19
Virtual, Society of Cardiac Magnetic Resonance Annual Meeting
275. 2021 (May) Grand Rounds, University of Texas Southwestern, Radiology
Cardiomyopathy evaluation by Imaging.
Interesting cases
276. 2021 (August) Update on cardiovascular impact of COVID19
Simpósio Internacional de Cardiologia Rede D'Or,
Virtual, São Paulo, Brazil on August 26, 2021.
277. 2021 (November) RSNA 2021 Annual Meeting
Keynote address: Clinical Trials in Cardiac Imaging
278. 2022 (January) Society of Cardiovascular Magnetic Resonance Annual Meeting
Assessment of Arrhythmogenic Cardiomyopathy
Cardiomyopathy with Excess Trabeculation vs LV noncompaction
279. 2022 (May) American Society of Neuroradiology 22nd annual meeting
Developments in Photon Counting CT
280. 2022 (July) Emerging Technology: Photon Counting CT
Gambhir Symposium
Stanford University
281. 2022 (August) ANCAM (Asociación Nacional de Cardiólogos de México) Regional
Meeting in Monterrey, Mexico
MRI of Arrhythmogenic Right Ventricular Cardiomyopathy
282. 2022 (November) Editor's Forum, Oak Brook IL
Assesement of Editorials
Resources for Publication Ethics Evaluation
Top Tips from the Editors
Best New Journal Features
283. 2022 (November) Chinese Society of Ultrasound in Medicine
Publishing your Research in Radiology
284. 2022 (November) RSNA 2022 Annual Meeting
pending
Professionalism and Ethics in Research
New Reserach That Should Impact Your Practice

OTHER PROFESSIONAL ACCOMPLISHMENTS

Abstracts:

1. Vallance MA, **Bluemke DA**, Cooper SL. Segmented copolymer morphology study using laplace transform dielectric spectroscopy. Conference proceedings, ACS meeting, August 1981, N.Y
2. Cooper SL, Van Bogart JWC, **Bluemke DA**. Noncrystalline ordering induced by annealing of segmented copolymers. Conference proceedings, APS meeting, March, 1981, Phoenix, AZ
3. Carragher B, **Bluemke DA**, Potel MJ. Cross-sectional reconstructions of sickle cell macrofibers. Proc. 43rd Ann. Meeting of the Electron Microscopy Society of America. GW, Bailey, ed. San Francisco Press, San Francisco. 1985; 310-311
4. **Bluemke DA**, Carragher B, Potel MJ. Real-space reconstructions of non-ideal helical models. Proc. 43rd Ann. Meeting of the Electron Microscopy Society of America. G.W. Bailey, ed. San Francisco Press, San Francisco. 1985; 308-309
5. **Bluemke DA**, Carragher B, Potel MJ, Josephs R. The structure of sickle cell macrofibers. Sickle Cell Painful Crisis Meeting, Tarrytown, New York. 1986
6. Carragher B, **Bluemke DA**, Potel MJ, Josephs R. The restoration of blurred electron micrographs. Proc. 44th Ann. Meeting of the Electron Microscopy Society of America. GW, Bailey, ed. San Francisco Press, San Francisco. 1986; 180-181
7. Carragher B, **Bluemke DA**, Josephs R, Potel MJ. The restoration of electron micrographs degraded by drift and rotational blurring. AAAS Annual Meeting, Philadelphia, P.A. 1986
8. **Bluemke DA**, Carragher B, Josephs R, Potel MJ. Computer-simulated density models of polymers of sickle hemoglobin. Proc. 44th Ann. Meeting of the Electron Microscopy Society of America. GW, Bailey, ed. San Francisco Press, San Francisco. 1986; 178-179
9. Carragher B, **Bluemke DA**, Potel MJ, Josephs R. The structure of helical polymers of sickle hemoglobin. *Biophysical J.* 1987; 51(2), 554a
10. Carragher B, **Bluemke DA**, Becker L, McDade W, Potel MJ, Josephs R. The structure of sickle hemoglobin fibers within fascicles. Proc. 45th Ann. Meeting of the Electron Microscopy Society of America. GW, Bailey, ed. San Francisco Press, San Francisco. 1987
11. **Bluemke DA**, Carragher B, Potel MJ, Josephs R. Computer-simulated density modeling of sickle hemoglobin polymers. *Biophysical J.* 1987; 51(2). 554a
12. **Bluemke DA**, Carragher B, Josephs R, Potel MJ. The structure of sickle hemoglobin fibers. Proc. 45th Ann. Meeting of the Electron Microscopy Society of America. GW, Bailey, ed. San Francisco, Press, San Francisco. 1987
13. **Bluemke DA**, Fishman EK Kuhlman, J. CT Evaluation of the patient following the Whipple procedure with adjuvant radiation and chemotherapy: Potential Pitfalls in Interpretation. *Radiology* 1991; 181(p): 261
14. **Bluemke DA**, Fishman EK, Kuhlman J. CT of patients following Whipple procedure with adjuvant radiation and chemotherapy. American Roentgen Ray Society, May, 1991, Boston
15. Fishman EK, **Bluemke DA**, Wyatt SH, Kawashima A, Rabushka LS. Complications of pancreatitis:

evaluation with spiral CT. *Radiology* 1992; 185(p): 285

16. Fishman EK, **Bluemke DA**, Urban BA, Wyatt SH. Spiral CT: applications in the evaluation of abdominal pathology. *Radiology* 1992; 185(p): 385

17. **Bluemke DA**, Fishman EK, Scott WW. Skeletal complications of radiation therapy: CT-MR evaluation. *Radiology* 1992; 185(p): 374

18. **Bluemke DA**, Fishman EK, Anderson JH, Brown P. Dose optimization of a nonionic intravenous contrast medium for spiral CT of the abdomen. *Radiology* 1992; 185(p):114

19. Weller GER, **Bluemke DA**, Gitlin JN, Kelen GD, Mysko W, Reichle RL, Scott WW Jr. A comparison of film and screen interpretations of radiographic examinations performed in the emergency department. SCAR 1994

20. Soyer P, **Bluemke DA**, Fishman EK. Détection des métastases hépatiques des cancers colorectaux au cours du portoscaner spiralé: corrélation avec les résultats anatomo-pathologiques. French Radiological Society Meeting, 1994

21. Soyer P, **Bluemke DA**, Fishman EK. Aspects des carcinomes hépatocellulaires au cours du portoscaner spiralé. French Radiological Society Meeting, 1994.

22. Soyer P, **Bluemke DA**, Fishman EK. Détection des tumeurs hépatiques malignes primitives au cours du portoscaner spiralé. French Radiological Society Meeting, 1994

23. **Bluemke DA**, Scott WW Jr., Reichle RL, Kelen GD, Mysko W, Weller GER, Weller JC, Gitlin JN. Emergency department radiograph evaluation by radiologists and emergency medicine physicians: teleradiology workstation versus film interpretation. *AJR*. 1997; 162(3):146 (suppl).

24. Eng,J, **Bluemke DA**. Design and performance of a hypertext workstation for improving the turnaround of radiology reports. *AJR*. 1994; 162(3):146 (suppl).

25. **Bluemke DA**, McVeigh ER, Zerhouni EA. MR evaluation of enhancement of the femoral head: implications for early detection of avascular necrosis. *Radiology*. 1994; 193(P):150.

26. **Bluemke DA**, Soyer PA, Fishman EK. Potentially curable pancreatic adenocarcinoma: spiral CT assessment with pathologic correlation. *Radiology*. 1994;193(P):219.

27. Soyer P, **Bluemke DA**, Choti MA, Fishman EK. Intrahepatic venous anatomy: variations demonstrated by spiral CT during arterial portography. *Radiology*. 1994; 193(P): 274.

28. Soyer PA, **Bluemke DA**, Hruban RH, Sitzmann JV, Fishman EK. Detection of hepatic metastases from colorectal cancer by using spiral CT during arterial portography: Correlation with Surgical and Pathologic Findings. *Radiology*. 1994; 193(P): 273.

29. Soyer PA, **Bluemke DA**, Fishman EK. Detection of metastases from colorectal cancer with spiral CT during arterial portography. 41st Congress of the French Radiological Society. Rev. Im Med 1994

30. Soyer PA, **Bluemke DA**, Fishman EK. Hepatocellular carcinoma: findings on spiral CT during arterial portography. 41st Congress of the French Radiological Society. Rev. Im. Med. 1994

31. Soyer PA, **Bluemke DA**, Fishman EK. Detection of primary hepatic tumors with spiral CT during arterial portography. 41st Congress of the French Radiological Society. Rev. Im. Med. 1994

32. Eng J, **Bluemke DA**, Mysko W, Scott WW, Jr. Evaluating the clinical significance of preliminary reports in the emergency radiology department. *AJR* (supplement). 1996; 164 (3):64.
33. **Bluemke DA**, Petri M, Zerhouni EA. Femoral head bone marrow: perfusion and composition in patients at risk for avascular necrosis. Society of Magnetic Resonance, Third Scientific Meeting. 1995; 1:200
34. Ma LD, Frassica FJ, McCarthy EA, **Bluemke DA**, Zerhouni EA. MRI assessment of musculoskeletal tumors: role of dynamic Gd-DTPA enhancement. Society of Magnetic Resonance, Third Scientific Meeting, 1995
35. **Bluemke DA**, Petri MA, Zerhouni EA. MR imaging and MR spectroscopy of femoral head perfusion and composition in patients at risk for avascular necrosis. *Radiology*. 1995; 197(P):157
36. Scott WW, Gitlin JN, **Bluemke DA**, Magid D, Mysko WK, Weller GE. Teleradiology workstation: interpretation of emergency department radiographs by radiologists and emergency medicine physicians. *Radiology*. 1995; 197(P):377
37. **Bluemke DA**, Tani I, Tachiki S, Zerhouni EA. MR venography of the extremities: small vessel evaluation using fast-spin echo imaging. Proceedings of the International Society for Magnetic Resonance in Medicine, Fourth Scientific Meeting and Exhibition. 1996; 2:734
38. **Bluemke DA**, Petri M, Zerhouni EA. Femoral bone marrow composition: assessment using localized proton NMR spectroscopy. Proceedings of the International Society for Magnetic Resonance in Medicine, Fourth Scientific Meeting and Exhibition. 1996; 2:1095
39. Ma LD, Frassica FJ, McCarthy EA, **Bluemke DA**, Zerhouni EA. MRI differentiation of benign and malignant musculoskeletal tumors using differential intratumoral Gd-DTPA enhancement ratios. Proceedings of the International Society for Magnetic Resonance in Medicine, Fourth Scientific Meeting and Exhibition. 1996; 2:865
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42. Rochitte CE, **Bluemke DA**, McVeigh ER, Reeder SB, Guttman MA, Zerhouni EA, Lima JAC. Recrutable myocardial deformation during dobutamine stimulation by magnetic resonance imaging with tagging. *J Am Coll Cardiol*. 1997;29:335A
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48. **Bluemke DA**, Soyer PA, Fishman EK. Infectious and inflammatory disease of the liver: CT and MR evaluation. *Radiology*. 1996; 201(P):502
49. Bluemke DA, Zerhouni EA, McVeigh ER, Wolf RL. Fast SE MR venography: development and applications. *Radiology*. 1996; 201(P):474
50. **Bluemke DA**, Zerhouni EA., Mosher TJ, Atalar E. Aortic vasculopathy: evaluation with breath-hold segmented k-space acquisition. *Radiology*. 1996; 201(P):487
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52. Ma LD, Frassica FJ, McCarthy EF, **Bluemke DA**, Zerhouni EA. MR imaging of musculoskeletal tumors: pitfalls in the evaluation of "cystic"- appearing lesions. *Radiology*. 1996; 201(P):535
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54. Rochitte CE, Lima JAC, Reeder SB, **Bluemke DA**, Ruruta T, Becker LC, Melin JA, Zerhouni EA. Progression of microvascular obstruction following coronary occlusion and reflow after acute myocardial infarction. Society of Computed Body Tomography and Magnetic Resonance, Twentieth Annual Course, Washington D.C. 1997
55. Guttman MA, Hillenbrand HB, **Bluemke DA**. Left ventricular function: automated computer evaluation using myocardial tagging. *Radiology*. 1997; 205 P(671)
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434. 3.0-T Whole-Heart Coronary Magnetic Resonance Angiography: Comparison between Gadobenate Dimeglumine and Gadofosveset Trisodium. Marcelo Souto Nacif MD, PhD, Fabio Raman BS, Atul Chug MD, George Cater MEng, Songtao Liu MD, Christopher Sibley, Joao A. C. Lima MD, **David A. Bluemke MD, PhD**. Radiological Society of North America, 98th Scientific Assembly and Annual Meeting, November 2012

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436. T1 Mapping and ECV Measurements: Assessment of Accuracy and Reproducibility between MRI Scanners. Songtao Liu MD, Fabio Raman BS, Nadine Kawel MD, Melanie Freed PhD, Neville Gai PhD, Jing Han, Peter Kellman, **David A. Bluemke MD, PhD**. Radiological Society of North America, 98th Scientific Assembly and Annual Meeting, November 2012

437. Coronary MRA at 3T: Breakthroughs in a State-of-the-Art Imaging Modality. Fabio Raman BS, Marcelo Souto Nacif MD, PhD, George Cater MEng, Songtao Liu MD, Debiao Li, **David A. Bluemke MD, PhD**. Radiological Society of North America, 98th Scientific Assembly and Annual Meeting, November 2012

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439. Assessing Tumor Velocity with a PACS-RIS Integrated Cumulative Reporting System. Jiaxin Huang BA, **David A. Bluemke MD, PhD**, Xiao Zhang PhD, Ronald M. Summers MD, PhD, Les Roger Folio DO, MPH, Jianhua Yao PhD. Radiological Society of North America, 98th Scientific Assembly and Annual Meeting, November 2012

440. Myocardial T1 Mapping: Evaluation in Patients with Arrhythmogenic Right Ventricular Cardiomyopathy. Jeremy R. Burt MD, Stefan L. Zimmerman MD, Neda Rastegar MD, Ihab R. Kamel MD, PhD, Cynthia James PhD, Brittney Murray MS, Harikrishna Tandri, **David A. Bluemke MD, PhD**. Radiological Society of North America, 98th Scientific Assembly and Annual Meeting, November 2012

441. Myocardial T1 Mapping and the Extracellular Volume Fraction (ECV) at 3 Tesla: Differences Between Gadobenate Dimeglumine and Gadofosveset Trisodium. Marcelo Souto Nacif MD, PhD, Fabio Raman BS, Neville Gai PhD, Jacquin Jones, Janna Stephens, Christopher Sibley, Songtao Liu MD, **David A. Bluemke MD, PhD**. Radiological Society of North America, 98th Scientific Assembly and Annual Meeting, November 2012

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443. Total Coronary Plaque Measurement in Diabetics: The FACTOR-64 Trial. George Cater MEng,

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444. Intra-individual Assessment of the Effect of Field Strength, Cardiac Cycle and Variation by Myocardial Region on T1 Mapping of the Myocardium. Nadine Kawel MD, Marcelo Souto Nacif MD, PhD, Anna Elizabeth Helen Zavodni MD, Jacquin Jones, Songtao Liu MD, Christopher Sibley, **David A. Bluemke MD, PhD**. Radiological Society of North America, 98th Scientific Assembly and Annual Meeting, November 2012

445. Novel Multimodality Imaging Techniques in Hypertrophic Cardiomyopathy. Celia Pamela Corona-Villalobos MD, Neda Rastegar MD, Linda Chi Hang Chu MD, Lars Sorensen, Paco Eduardo Bravo MD, Theodore Abraham MD, **David A. Bluemke MD, PhD**, Ihab R. Kamel MD, PhD, Stefan L. Zimmerman MD. Radiological Society of North America, 98th Scientific Assembly and Annual Meeting, November 2012

446. Association between left atrial function using multimodality tissue tracking from cine MRI and myocardial scar in the multi-ethnic study of atherosclerosis (MESA) Masamichi Imai, Bharath Venkatesh, Sanaz Samiei, Mohammadali Habibi, Anderson C Armstrong, Susan Heckbert, Sirisha Donekal, **David A Bluemke**, Colin O Wu, Joao A Lima Journal of Cardiovascular Magnetic Resonance 2013, 15(Suppl 1):P266 (30 January 2013)

447. Poster presentation Modified look-locker inversion recovery T1 mapping indices: assessment of accuracy and reproducibility between MRI scanners Fabio S Raman, Nadine Kawel, Neville Gai, Melanie Freed, Jing Han, Peter Kellman, Chia-Ying Liu, Joao A Lima, **David A Bluemke**, Songtao Liu Journal of Cardiovascular Magnetic Resonance 2013, 15(Suppl 1):P134 (30 January 2013)

448. Oral presentation Relationship of diffuse myocardial fibrosis to body composition: the Multi-Ethnic Study of Atherosclerosis (MESA) Songtao Liu, Chia-Ying Liu, Jing Han, Evrim B Turkbey, Yuan Liu, Diane Bild, Andrew E Arai, Robyn McClelland, W Hundley, Antoinette S Gomes, Russell Tracy, Richard Kronmal, Joao A Lima, **David A Bluemke** Journal of Cardiovascular Magnetic Resonance 2013, 15(Suppl 1):O109 (30 January 2013)

449. Optimal patient classification via statistical decomposition of a 3D left-ventricular atlas Pau Medrano-Gracia, Brett R Cowan, **David A Bluemke**, J Finn, Daniel C Lee, Joao A Lima, Avan Suinesiaputra, Alistair A Young Journal of Cardiovascular Magnetic Resonance 2013, 15(Suppl 1):P89 (30 January 2013)

450. Diastolic function from tagged MRI and myocardial fibrosis: the Multi-Ethnic study of Atherosclerosis (MESA) Bharath Venkatesh, Anderson C Armstrong, Sirisha Donekal, Yuan Liu, Chia-Ying Liu, Kihei Yoneyama, Colin O Wu, Marcelo Nacif, Antoinette S Gomes, W Hundley, **David A Bluemke**, Joao A Lima Journal of Cardiovascular Magnetic Resonance 2013, 15(Suppl 1):O82 (30 January 2013)

451. The effect of septal basal segments in the assessment of systolic dyssynchrony index Avan Suinesiaputra, **David A Bluemke**, Brett R Cowan, Pau Medrano-Gracia, Joao A Lima, Perry E Radau, Alistair A Young Journal of Cardiovascular Magnetic Resonance 2013, 15(Suppl 1):P77 (30 January 2013)

452. Strain relaxation index and diastolic function from echocardiography: the multi-ethnic study of atherosclerosis Bharath Venkatesh, Anderson C Armstrong, Chia-Ying Liu, Andre Almeida, Eui-Young Choi, Boaz D Rosen, Marcelo Nacif, Colin O Wu, **David A Bluemke**, Joao A Lima Journal of Cardiovascular Magnetic Resonance 2013, 15(Suppl 1):E75 (30 January 2013)

453. Chronic Obstructive Pulmonary Disease (COPD) is associated with pulmonary artery stiffness - the MESA COPD study Chia-Ying Liu, Megha Parikh, Antoinette S Gomes, Jens Vogel-Claussen, **David A Bluemke**, Joao A Lima, Martin R Prince, Graham Barr Journal of Cardiovascular Magnetic Resonance 2013, 15(Suppl 1):O62 (30 January 2013)

454. Quantification of myocardial scar assessed by late gadolinium enhancement CMR in the multi-ethnics study of atherosclerosis: comparisons of 7 different methods Patricia B Rizzi, Marcelo Nacif, Gustavo J Volpe, Evrim B Turkbey, Bharath Venkatesh, Rob J van der Geest, **David A Bluemke**, Joao A Lima Journal of Cardiovascular Magnetic Resonance 2013, 15(Suppl 1):O49 (30 January 2013)
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Aged >80 Years. *Stroke* 2020;51(8):2322-2331. doi: doi:10.1161/STROKEAHA.119.028396

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607. Irwin JM, Binney G, Gauvreau K, Emani S, Blume E, BROWN DW. Abstract 14744: Native Bicuspid Pulmonary Valve in D-loop Transposition of the Great Arteries: Outcomes of the Neo-aortic Valve Function and Root Dilation After Arterial Switch Operation. *Circulation* 2020;142(Suppl_3):A14744-A14744. doi: doi:10.1161/circ.142.suppl_3.14744

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Circulation 2020;142(Suppl_3):A13595-A13595. doi: doi:10.1161/circ.142.suppl_3.13595

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614. Teixeira RB, Pfeiffer M, Karbasiafshar C, Corssac GB, Ahsan N, Sellke FW, Abid R. Abstract 17169: Endothelium-Specific Reduction in Mitochondrial ROS Induces Coronary Angiogenesis in Ischemic Myocardium via Activation of PI3k/Akt/ERK, ERK1/2, and Jag-1 Signaling. Circulation 2020;142(Suppl_3):A17169-A17169. doi: doi:10.1161/circ.142.suppl_3.17169

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616. Vasquez N, Castro-Diehl C, Lee UJ, Burke G, Bertoni AG, Wagenknecht LE, Lima JA, Bluemke DA, Rodriguez CJ. Abstract 16191: Association of Left Ventricular Mass Progression With Heart Failure Events: Implications for Understanding the Hispanic Paradox. Circulation 2020;142(Suppl_3):A16191-A16191. doi: doi:10.1161/circ.142.suppl_3.16191

617. Xie E, Kalu N, Ambale-Venkatesh B, Barr G, Wu C, Chamera E, Bluemke DA, Heckbert SR, Yeboah J, Kutty S, Lima JA. Abstract 13738: Longitudinal Changes and Remodeling in the Right Atrium: The Multi-ethnic Study of Atherosclerosis. Circulation 2020;142(Suppl_3):A13738-A13738. doi: doi:10.1161/circ.142.suppl_3.13738

618.

SCIENTIFIC EXHIBITS

- 1986 (July) Gordon Research Conference: Macromolecular Analysis
1. The structure of sickle hemoglobin macrofibers
 2. Evaluation of artifacts in real-space reconstruction of helical particles.
- 1986 (November) Sickle Cell Painful Crisis Meeting, Tarrytown, New York
The structure of sickle cell macrofibers.
- 1990 (December) Radiologic Society of North America, 77th Scientific Assembly and Annual Meeting of the RSNA
CT evaluation of complications of radiation therapy.
- 1991 (April) American Roentgen Ray Society, 92th Annual Meeting
Radiation therapy: complications detected with computed tomography.
- 1992 (December) Radiologic Society of North America, 78th Scientific Assembly and Annual Meeting of the RSNA
1. Musculoskeletal complications of radiation therapy: radiographic evaluation.
 2. Spiral CT: techniques and applications
- 1993 (April) American Roentgen Ray Society, 93th Annual Meeting
1. Spiral CT: Clinical Applications in the Evaluation of Abdominal Pathology
 2. Skeletal Complications of Radiation Therapy: CT/MR Evaluation.
- 1993 (December) Radiologic Society of North America, 79th Scientific Assembly and Annual Meeting of the RSNA
1. Spiral CT with arterial portography: techniques and applications.
 2. Spiral CT Teaching Module.
- 1994 (April) American Roentgen Ray Society, 94th Annual Meeting
1. Spiral CT: Technique and Applications
 2. The Radiology Reporting Workstation as a Teaching Tool: a Hypertext Approach
 3. Spiral Computed Tomographic Portography: Techniques and Applications
- 1994 (November) Radiologic Society of North America, 80th Scientific Assembly and Annual Meeting of the RSNA
1. Spiral CT Evaluation and Staging of Pancreatic Adenocarcinoma
 2. Intrahepatic venous anatomy: variations demonstrated by Spiral CT during Arterial Portography
 3. Imaging of intrahepatic cholangiocarcinoma

4. Three-dimensional Spiral CT during Arterial Portography: comparison of three rendering techniques
 5. Segmental anatomy of the liver: a teaching tool (computer exhibit)
 6. Radiology Reporting Workstation: Hypertext Implementation
- 1995 (May)
- American Roentgen Ray Society, 95th Annual Meeting, Washington, D.C.
1. Surgical Subsegmental anatomy of the liver: an interactive teaching tool.
 2. Imaging of intrahepatic cholangiocarcinoma.
 3. Spiral CT evaluation and staging of pancreatic adenocarcinoma.
 4. Intrahepatic venous anatomy: normal findings and variations demonstrated by spiral CT during arterial portography
 5. Three-dimensional spiral CT during arterial portography: comparison of three rendering techniques
- 1995 (September)
- Society of Magnetic Resonance, Third Scientific Meeting and Exhibition, Nice, France
- MRI Assessment of Musculoskeletal Tumors: Role of Dynamic Gd-DTPA Enhancement.
- 1995 (November)
- Radiologic Society of North America, 81st Scientific Assembly and Annual Meeting of the RSNA
1. Pancreatic Adenocarcinoma: Spiral CT Evaluation following the Whipple Procedure.
 2. Spiral CT Demonstration of Collateral Venous Drainage Pathways in Portal and Retroperitoneal Venous Obstruction
 3. Cryosurgery of Primary and Metastatic Hepatic Tumors: Principles, Techniques and Radiologic Imaging
- 1996 (April)
- International Society of Magnetic Resonance in Medicine, Fourth Scientific Meeting and Exhibition, New York, NY
1. MR venography of the extremities: small vessel evaluation using fast-spin echo Imaging
 2. Femoral Bone Marrow Composition: Assessment using localized proton NMR spectroscopy
 3. MRI of the Thoracoabdominal Aorta in Marfan Syndrome: Progression of Vasculopathy Following Surgical Repair
 4. MRI Differentiation of Benign and Malignant Musculoskeletal Tumors Using Differential Intratumoral Gd-DTPA Enhancement Ratios
- 1996 (May)
- American Roentgen Ray Society, 96th Annual Meeting, Washington, D.C.
1. Spiral CT demonstration of collateral venous drainage pathways in portal and retroperitoneal obstruction
 2. Spiral CT of the abdomen following the Whipple procedure for pancreatic adenocarcinoma
 3. Cryosurgery of primary and metastatic hepatic tumors: principles, techniques and radiologic imaging
- 1996 (November)
- Radiologic Society of North America, 82nd Scientific Assembly and Annual Meeting of the RSNA
1. Infectious and Inflammatory Disease of the Liver: Bluemke, D.A, Zerhouni, E. A., McVeigh, E.R., Wolf, R.L. Fast SE 2. MR Venography: Development and Applications.
- Aortic Vasculopathy: Evaluation with Breath-Hold Segmented k-Space

Acquisition.

3. Importance of Rim-to-Center Differential Enhancement Ratios in the MR Imaging Differentiation of Benign and Malignant Lesions.
4. MR Imaging of Musculoskeletal Tumors: Pitfalls in the Evaluation of "Cystic" - appearing Lesions.
5. Bladder Carcinoma: MR Imaging and CT in Multimodality Treatment Planning.

1997 (April)

International Society of Magnetic Resonance in Medicine, Fifth Scientific Meeting and Exhibition, Vancouver, BC

1. Dynamic contrast-enhanced MR with fat suppression: effect of tissue composition on perfusion parameters
2. Avascular necrosis of the hip: appearance on Fast Spin Echo sequence with and without fat suppression
3. Meniscal evaluation: use of tailored RF pulses with fast spin echo imaging

1997 (May)

American Roentgen Ray Society, 97th Annual Meeting, Boston, MA.

1. Cine segmented K-space acquisition: technique and application to evaluation of aortic disease
2. Rapid radiographic interpretation services from remote sites: solution using a computer assisted reporting system.
3. CT and MRI evaluation of infectious and inflammatory hepatic disease.
4. "Cystic" musculoskeletal tumors: MRI evaluation and potential pitfalls.
5. Multi-modality treatment planning for bladder cancer: MR and CT evaluation

1997 (November)

Radiologic Society of North America, 83rd Scientific Assembly and Annual Meeting of the RSNA

1. Functional Analysis of Cardiac MR images
2. CT/MR of abdominal tuberculosis
3. CT/MR of perfusion abnormalities of the liver
4. Spiral CT of benign hepatic lesions

1997 (November)

Breast Cancer Research Program: An Era of Hope, Department of Defense, US Army Medical Research and Material Command

1. In Vivo Microscopic Imaging of Breast Lesions
E. Zerhouni, E. Atalar, D. Artemov, T. Hoang, R. Brem, Z. Bhujwalla and D. Bluemke

1998 (April)

International Society of Magnetic Resonance in Medicine, Sixth Scientific Meeting and Exhibition, Sydney, Australia

1. Two-dimensional Contrast Enhanced Coronary MR Angiography
2. MR Staging of Mediastinal Lymph Nodes: Evaluation using a Superparamagnetic Contrast Agent
3. Intravenous Vascular Access Planning: Evaluation of the Entire Body using MR Venography
4. Switchable 12 Element Coil Array for MR Microimaging of Breast Lesions

1998 (November)

Radiologic Society of North America, 84th Scientific Assembly and Annual Meeting of the RSNA

1. MR Angiography using MS-325 (AngioMARK): preliminary experience

2. MR angiography using dynamic table motion technique
 3. 3D MR angiography of congenital cardiac disease
- 1999 (May) International Society of Magnetic Resonance in Medicine, Seventh Scientific Meeting and Exhibition, Philadelphia
1. 3D contrast enhanced phase contrast MR angiography
2. A Comparison of Prospective and Retrospective Respiratory Navigator Gating in 3D MR Coronary Angiography
- 1999 (May) American Roentgen Ray Society, 99th Annual Meeting, Boston, MA.
1. MR Angiography using AngioMARK (MS325): Preliminary experience
- 1999 (November) Radiologic Society of North America, 85th Scientific Assembly and Annual Meeting of the RSNA
1. Imaging the Thoracic Aorta: State-of-the-Art Evaluation with CTA and MRA
 2. Dynamic MR Imaging of Pelvic Organ Prolapse: Spectrum of Abnormalities.
 3. Tumor Biology and Physiology for Radiologists: Implications for Imaging and Image-guided Therapy
 4. Advanced Cardiac MRI: Techniques and Applications.
- 2000 (May) International Society of Magnetic Resonance in Medicine, Eight Scientific Meeting and Exhibition, Denver
1. CT and Ferumoxide MR for the Evaluation of Hepatic Lesions
- 2000 (November) Radiologic Society of North America, 86th Scientific Assembly and Annual Meeting of the RSNA
1. Myocardial infarction: evaluation using contrast enhanced MR imaging.
 2. Cardiac MR: New methods and applications for quantitative analysis
 3. New liver specific MR contrast agents: utility in preoperative planning
- 2001 (May) American Roentgen Ray Society, 101st Annual Meeting, Seattle, WA
1. Evaluation of Myocardial Infarction using Viability MRI
 2. Methods and Applications for Quantitative Analysis Using Harmonic Phase Imaging
 3. Spectrum of Liver Nodules with New Contrast Agents
- 2001 (November) Radiologic Society of North America, 87th Scientific Assembly and Annual Meeting of the RSNA
1. MRI of the Female Urethra Using an Endourethral MR Coil: Preliminary Experience.
 2. Acute Aortic Syndromes: Focus on Pathogenesis
 3. In Vivo Intravascular MR Imaging: State-of-the-Art
- 2002 (May) American Roentgen Ray Society, 102nd Annual Meeting, Seattle, WA
1. Accuracy and Reproducibility of Dual Phase Helical CT in the Detection and Characterization of Surgically Staged Focal Liver Lesions
 2. Detection and Characterization of Surgically Staged Focal Liver Lesions: Accuracy, Limitations and Pitfalls of Dual Phase Helical CT
 3. The Review of the Methods of Assessment of the Anterior, Middle, and Posterior Compartments of the Female Pelvic Floor when Evaluated with Dynamic Magnetic Resonance Imaging

4. MR Imaging of Urinary Bladder Cancer: Staging Accuracy, Limitations and Pitfalls
- 2002 (November)
- Radiologic Society of North America, 87th Scientific Assembly and Annual Meeting of the RSNA
1. 3D Gadolinium-enhanced MR Angiography of Central Chest Arteries and Veins
 2. Cardiac MRI: Contrast-enhancing Lesions Revisited
 3. Regional Myocardial Function: Advances in MR Imaging and Analysis Techniques
 4. Female Urinary Incontinence: Pathophysiology and Current Methods of Evaluation
 5. MR Imaging of Urinary Bladder Cancer: Staging, Accuracy, and Pitfalls
- 2003 (December)
- Radiological Society of North America, 89th Scientific Assembly and Annual Meeting of the RSNA
1. MR Imaging Using a Liver Specific Contrast Agent (Gadolinium-EOB-DTPA): US Multi-center Phase III Study of Efficacy and Safety
 2. Stress Fracture or Pathologic Fracture? Distinction with Cross-sectional Imaging
 3. Distinguishing Stress Fractures from Pathologic Fractures: A Multimodality Approach
 4. Functional Magnetic Resonance Cholangiography (f-MRC): Diagnosis of Functional Abnormalities of the Gallbladder and Biliary Tree
 5. Vascular Malformations in the Extremities: Emphasis on MR Imaging Features that Guide Treatment Options
 6. Diffusion-weighted MR Imaging in the Characterization of Incidental Hyper-vascular Liver Lesions: Preliminary Data
 7. Assessment of Response of Uterine Fibroids to Embolization Using Diffusion-weighted Echoplanar MR Imaging
 8. Non-Invasive MRI-guided Focused Ultrasound Surgery in the Treatment of Uterine Fibroids: Johns Hopkins Experience
 9. Predictors of Occurrence of Skin Burns (SBs) after Alcohol Embolization Procedures for Venous Malformations (VMs)
- 2004 (November)
- Radiological Society of North America, 90th Scientific Assembly and Annual Meeting of RSNA
1. Role of MR Imaging in Assessment of Urinary Incontinence in Women
 2. MR Imaging in Bladder Exstrophy
 3. Characterization of Musculoskeletal Tumors with Proton MR Spectroscopy
 4. Delayed Enhancement MRI: Utility in Myocardial Imaging
 5. Cardiovascular MRI in Preoperative Planning and Postoperative Assessment for Patients with Ischemic Cardiomyopathy
 6. Pediatric Musculoskeletal Tumors and Pseudotumors: Specific Cross-sectional Diagnostic Clues and Pitfalls of Imaging
- 2005 (December)
- Radiological Society of North America, 91st Scientific Assembly and Annual Meeting of RSNA
1. Unusual Masses and 'Mimickers' on Imaging of Female Pelvis
 2. Evaluation with Cardiac MRI and 64 Slice MDCT
 3. Characterization of Musculoskeletal Tumors with Proton MR Spectroscopy
 4. Sequential Changes after Radiofrequency Ablation and Cryoablation of

Renal Neoplasm: Interpretation of CT and MRI

- 2006 (December) Radiological Society of North America, 92nd Scientific Assembly and Annual Meeting of RSNA
1. Coronary Magnetic Resonance Angiography: Current Techniques and Tips
 2. What You Need to Know about Cardiac MR Imaging at 3T: New Developments and Technical
 3. Cardiac MRI: Fundamentals and Physics for the Clinical Radiologist
 4. Three-Tesla MRI of the Abdomen: Comparison to 1.5T
 5. Female Urinary Incontinence: Pathophysiology, Methods of Evaluation, and Role of MR Imaging
- 2007 (December) Radiological Society of North America, 93rd Scientific Assembly and Annual Meeting of RSNA
1. Magnetic Resonance Imaging in Patients at Risk for Developing Nephrogenic Systemic Fibrosis: Contrast and Noncontrast Techniques for Producing Diagnostic Quality Images Safely
 2. Magnetic Resonance Imaging in Detection of Prostate Cancer Arising in the Transition Zone
 3. Dynamic Contrast-enhanced MRI of the Breast – Lessons Learned from Imaging Interpretation with Computer-aided Detection Software CAD
- 2008 (December) Radiological Society of North America, 94rd Scientific Assembly and Annual Meeting of RSNA
1. Magnetic resonance imaging findings in arrhythmogenic right ventricular dysplasia (ARVD)
- 2009 (December) Radiological Society of North America, 95rd Scientific Assembly and Annual Meeting of RSNA
1. The right ventricle under pressure: cardiac MRI in pulmonary hypertension
 2. Cardiac MR Tagging: Insights into Regional Myocardial Function
 3. Myocardial Scar in Patients with Pulmonary Hypertension: Relationship to Regional function Evaluated by Cardiac MRI
 4. Regional Myocardial Deformation Patterns in Left Ventricular Hypertrophy Patients Characterized by MR Tagging: The Multi-Ethnic Study of Atherosclerosis
 5. Advancements in MR Imaging of the Prostate: From Diagnosis to Interventions