



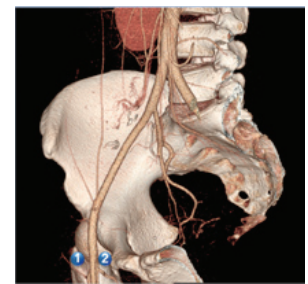
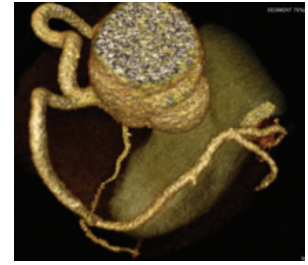
Beth Israel Deaconess
Medical Center



HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL

Radiology Fellowship Programs

Body MRI



Abdominal Imaging • Body MRI • Breast Imaging • Cardiothoracic Imaging • MSK • Neuroradiology • Vascular & Interventional

Department of Radiology
Beth Israel Deaconess Medical Center
330 Brookline Ave., TCC-4
Boston, MA 02215
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Program Overview

Our Department prides itself on being supportive of its fellows and places strong emphasis on the quality of teaching on a person-to-person basis. Please see our website:

<http://www.bidmc.org/MedicalEducation/Departments/Radiology/Fellowships.aspx>

Departmental

Daily didactic morning conferences are held for the residents. The fellows are welcomed to attend these conferences as their schedule permits. Department faculty, residents and fellows provide most didactic lectures, with frequent lectures from outside HMS faculty, past residents, as well as guest lecturers from around the world. Visiting professors from other major teaching centers in the United States and abroad spend varying periods of time in the Department. Some have taken sabbatical leave at the Beth Israel Deaconess Medical Center.

Medical Center

Radiology also has a close working relationship with a number of clinical services outside our department, which allows Radiology to participate in a number of management conferences, including Medical Management, Melanoma Management and Urology Management, as well as Chest, Pancreaticobiliary, and Liver conferences; Medical Grand Rounds, Surgical Grand Rounds, and others.

Boston

As befits a great medical city, there are many great medical conferences sponsored not only by Harvard-affiliated programs, but also by a number of other medical centers. The monthly New England Roentgen Ray Society meeting is one of the more popular Radiology meetings that also includes a special program for residents and fellows. Seminars and lectures in radiology are also held at adjacent Harvard-affiliated hospitals which include the Brigham and Women's Hospital and Boston Children's Hospital.

Current Radiology Fellowships:

- Abdominal Imaging
- Body MRI
- Breast Imaging
- Cardiothoracic Imaging
- Musculoskeletal
- Neuroradiology
- Vascular & Interventional



Body MRI

Positions available:	2 per year
Length of fellowship:	One year
Forms:	Application
*Application accepted:	Starting July 1, annually

**Applications for 2017-2018 Academic Year are being accepted as of July 1, 2015*

Overview

This one year fellowship has intensive involvement in clinical and research MRI activities and is equally suited to prepare for a career in academic radiology and private practice. The strong academic component represents a key opportunity within this fellowship. The fellows will be involved in all aspects of clinical body MRI under the supervision of the program director and the MRI faculty. The body MRI fellowship focuses on achieving a deep understanding of the basic principles of MRI and protocol development with a hands-on approach. The fellows also have a 1 month elective period during which there is an opportunity to spend time on other radiology services including musculoskeletal radiology, Women's imaging, cardiothoracic imaging, abdominal CT/ultrasound and abdominal interventions. Close involvement with the dedicated MR scientists in our world-renown Research MRI division enhances the experience. In addition to clinical activities, the fellow will be trained in basic MR principles, research methodology, manuscript preparation, and other activities essential both to an academic career and to objective interpretation of current literature and clinical guidelines.

Clinical facilities consist of a 1.5 Tesla 8 channel Siemens Symphony MRI system with Quantum gradients, one 1.5 Tesla Siemens Espree system, two 1.5 Tesla 15.0 GE HDX systems with EXCITE 8 channel subsystems, two 3.0 Tesla 15.0 EXCITE systems, and one 1.5 Tesla 15.0 HDX mobile GE system. One of the 1.5T GE systems is dedicated to clinical and basic research and one of the 3.0 Tesla GE systems is dedicated entirely to research. Operated in conjunction with the Cardiology department there is also a 1.5 Tesla whole body Philips MRI system, dedicated to cardiac imaging.

Particular research emphasis is placed on fast cardiovascular imaging, abdominal imaging, lung imaging, MR angiography, perfusion, diffusion, MR spectroscopy and functional brain imaging. Other facilities within the institution include an 8.5 Tesla vertical bore magnet equipped with a self-shielded gradient set of 40 mm diameter ID and 75 G/cm maximum gradient strength, as well as a 4.7 Tesla, 40 cm bore actively shielded Bruker Biospec Magnet System.

Applying

Please send (3) letters of recommendation, CV, personal statement, transcript of medical school record, and application form to the fellowship coordinator, Diana Moran.

Diana Moran
Department of Radiology
Beth Israel Deaconess Medical Center
One Deaconess Rd., WCC-3
Boston, MA 02215
617-754-2506
617-754-2525 (fax)
dmoran@bidmc.harvard.edu



Karen Lee, MD

Staff Radiologist, Emergency Radiology/Body MRI
Director of Radiology Fellowship Training Programs
Director, Body MRI Fellowship Program, BIDMC
Assistant Professor of Radiology, Harvard Medical School

Fellowship:

Body MRI, BIDMC

Residency:

Diagnostic Radiology, BIDMC

Internship:

Internal Medicine, BIDMC

Medical School:

Harvard Medical School, Boston, MA

Research interests:

- MRI for the diagnosis of acute appendicitis in pregnancy
- MRI prevalence of incidental pancreatic cysts
- Gadofosveset-enhanced MRA for the evaluation of pulmonary embolus
- MRI of tracheobronchomalacia with CT correlation
- Non-contrast MR techniques for detecting abdominal and pelvic neoplasms

Academic Activities/Achievements:

- Chief Resident (2006)
- Faculty Award for Excellence in Teaching (2010)

Contact: kslee@bidmc.harvard.edu



Koenraad J. Morteale, MD

Director, Clinical MRI
Staff Radiologist, Abdominal Imaging and Body MRI, BIDMC
Associate Professor of Radiology, Harvard Medical School

Dr. Morteale received his MD degree and completed his radiology training at Ghent University in Ghent, Belgium. In 2000, he completed a fellowship in Radiology Management at Brigham and Women's Hospital after which he joined the Faculty in the Division of Abdominal Imaging and Intervention. At BWH, Dr. Morteale served as Associate Director of the Division of Abdominal Imaging and Intervention, as Director of Abdominal and Pelvic MRI, as Director of Continuing Medical Education in the Department of Radiology, as Director of the BWH Contrast Agent Safety Committee, and as Assistant Fellowship Director in the Division of Abdominal Imaging and Intervention. Currently, Dr. Morteale is Director of the Division of Clinical MRI at BIDMC and Associate Professor of Radiology at Harvard Medical School.

A prolific lecturer and author of over 150 scientific manuscripts, Dr. Morteale has a particular interest in imaging of the pancreas, the hepatobiliary system and the GI tract. Dr. Morteale has received numerous awards, including the Society of Gastrointestinal Radiology Visiting Professorship Award in 2009 and 2 BWH Radiology George Marina Teaching Awards. Dr. Morteale has edited a textbook on CT and MRI of the Abdomen and Pelvis, authored 15 book chapters, and is frequently invited to lecture and present workshops nationally and internationally.

Contact: kmorteale@bidmc.harvard.edu



Marty P. Smith, MD

Staff Radiologist, Abdominal Imaging and Body MRI,
Director, MR Operations and
Director, Clinical Community MRI, BIDMC
Instructor in Radiology, Harvard Medical School

Fellowship:
Body MRI, BIDMC

Residency:
Diagnostic Radiology, University of Washington,
Seattle, WA

Internship:
Internal Medicine, Lahey Clinic Medical Center,
Burlington, MA

Medical School:
Harvard Medical School, Boston, MA

Research interests:

- MR Enterography, particularly in Crohn's disease
- 3D T2-weighted water-silicone separated techniques for evaluating breast implants
- 3D T2-weighted water-fat separated techniques in breast and body applications
- Multiparametric MRI of the prostate at 3T for diagnosis and staging of prostate cancer
- Incidence of nephrogenic systemic fibrosis in patients with chronic kidney disease undergoing MRI with Prohance or Multihance

Academic Activities:

- Liason for medical student and resident education in abdominal imaging
- Cum Laude Award for outstanding scientific paper, SCBT-MR (2008)

Contact: msmith13@bidmc.harvard.edu



Maryellen Sun, MD

Staff Radiologist, MRI/Abdominal Imaging, and
Director, GU Imaging, BIDMC
Assistant Professor of Radiology, Harvard Medical School

Fellowship:
Abdominal Imaging, BIDMC 2008

Residency:
Diagnostic Radiology, BIDMC 2007

Internship:
Internal Medicine, Lahey Clinic, Burlington, MA

Medical School:
Harvard Medical School, Boston, MA

Research Interests:

- Dynamic contrast enhanced MRI in diagnosis and post treatment follow up of renal cancer
- Multiparametric MRI of the prostate at 3T for diagnosis and staging of prostate cancer
- Contrast enhanced US of the liver
- Intraoperative US of the pancreas and kidney
- Value of preoperative imaging classification schemes for performance of laparoscopic partial nephrectomy
- Novel methods for teaching US-guided liver biopsy

Academic Activities/Accomplishments:

- Executive Council Award, ARRS, Chicago, IL (2005)
- Morrison Research Award, BIDMC (2005)
- Certificate of Merit, RSNA, Chicago, IL (2005)
- Cum Laude Award, BIDMC – Resident / Fellow Multidisciplinary Research Conference (2008)
- Fellow of the Year, BIDMC Radiology (2008)

Contact: msun@bidmc.harvard.edu



Jesse L. Wei, MD

Staff Radiologist, Abdominal Imaging and Body MRI and
Clinical Director, Radiology Informatics, BIDMC
Instructor in Radiology, Harvard Medical School

Fellowship:

Body MRI, BIDMC

Residency:

Diagnostic Radiology, BIDMC

Internship:

Medicine, Newton-Wellesley Hospital,
Newton, MA

Medical School:

Harvard Medical School, Division of Health
Sciences and Technology, Boston, MA

Research interests:

- Hepatic imaging
- Vascular Imaging
- Novel and emerging-use MRI contrast agents
- Novel and emerging-use MRI hardware
imaging techniques

Contact: jlwei@bidmc.harvard.edu



Leo L. Tsai, MD PhD MSc

Staff Radiologist, Abdominal Imaging and Body MRI, BIDMC
Assistant Professor of Radiology, Harvard Medical School

Fellowship:

Body MRI, BIDMC

Residency:

Diagnostic Radiology, BIDMC

Internship:

General Surgery, Brigham and Women's Hospital,
Boston, MA

Medical School and Graduate Education:

MD, PhD –Harvard Medical School-MIT Division
of Health Sciences and Technology

MSc –Cambridge University, United Kingdom

Research interests:

- Cancer imaging biomarkers
- MR pulse sequence development
- Medical device development

Academic Activities/Accomplishments:

- BIDMC Academy of Medical Educators
- Winner, Life Sciences Track, for Agile Devices
MIT 100K Launch Competition
- Co-Founder and Chief Technology Officer,
Agile Devices Inc. Cambridge, MA

Contact: itsai1@bidmc.harvard.edu



David Alsop, PhD

Vice Chair of Research
Director, MRI Research, BIDMC
Professor of Radiology, Harvard Medical School

Dr. David Alsop, currently Staff Scientist within the Center for Advanced Imaging and Professor of Radiology at Harvard Medical School, came to Beth Israel Deaconess Medical Center from the University of Pennsylvania Medical Center (Department of Radiology). Dr. Alsop received his Ph.D. in Physics from the University of California (Berkeley, CA).

Dr. Alsop's research interests include techniques for rapid Magnetic Resonance Imaging (MRI), high field MRI, perfusion imaging, neuroimaging, aging and dementia, and stroke. He serves as Deputy Editor and member of the Editorial Board of *Magnetic Resonance in Medicine* and on the Governing committee of the Diffusion and Perfusion Study Group of the International Society for Magnetic Resonance in Medicine.

Labs & Centers: Division of MR Research

Contact: dalsop@bimd.harvard.edu



Weiying Dai, PhD

Research Associate, MRI Research, BIDMC
Instructor in Radiology, Harvard Medical School

Fellowship:

MRI Research, BIDMC

Education:

BS, MS - Computational Mathematics,
Peking University, Beijing, China

MS, Mathematics

MS, Computer Science

PhD, Computer Science

University of Pittsburgh, Pittsburgh, PA

Research interests:

- Seizure-like Hippocampal Activity in Alzheimer's Disease Neurodegeneration
- Delirium and its Long-term Outcomes/ Neuroimaging of Delirium
- Technical Development and Evaluation of MRI Techniques for Perfusion and Body MRI
- Improving MRI Cerebral Perfusion Imaging for Studies of the Elderly
- Retinal Perfusion in Age Related Macular Degeneration using Arterial Spin Labeling
- Interaction of Resting State Perfusion Networks with Transcranial direct-current stimulation (TDCS)
- Perfusion MRI for Multisite Studies of Brain Function

Academic Activities:

- Training in neuroimaging analysis methods/ Neurology collaborators
- Training in perfusion and neuroimaging methods/New Lab students and fellows

Contact: wdai@bidmc.harvard.edu



Aaron Grant, PhD

Research Associate, Body MRI
Director, Hyperpolarization Lab, MR Research, BIDMC
Assistant Professor of Radiology, Harvard Medical School

Fellowship:

Theoretical Physics, University of California, LA
Theoretical Physics, Harvard University,
Cambridge

Education:

BA, Physics, University of Colorado, Boulder
PhD, Physics, University of Chicago, Chicago

Research interests:

- Development of radio frequency impedance mapping (RFIM) imaging systems
- Development of hyperpolarized contrast agents using parahydrogen-induced polarization
- Parallel magnetic resonance imaging

Academic Activities:

- Supervisor of graduate students and fellows in MR research

Contact: akgrant@bidmc.harvard.edu