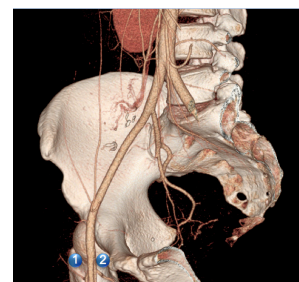


Beth Israel Deaconess
Medical Center



HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL

Department of Radiology: Neuroradiology Fellowship Program



Abdominal Imaging • Body MRI • Breast Imaging • Cardiothoracic Imaging • Musculoskeletal Imaging • Neuroradiology

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

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

*Interventional Radiology:

Due to the creation of the integrated and independent IR residency programs, the vascular and interventional radiology fellowship program is no longer accepting applications for matriculation.

For more information:

<https://www.bidmc.org/medical-education/medical-education-by-department/radiology/residencies-in-radiology/interventional-radiology-integrated-pathway-residency>



Neuroradiology

Match Programs	Timeline	Important Dates
*Interview Embargo Dates	Interviews may begin	December 1
NRMP Dates	Interviews completed	March 31
	Match Day	June 13 (as determined by the NRMP)

***Exception:** Internal candidates, international candidates, military candidates, and spouses are excluded from the embargo date timeline

OVERVIEW

The Diagnostic Neuroradiology Fellowship at Beth Israel Deaconess Medical Center (BIDMC) and Tufts Medical Center (TMC) is a Harvard Medical School affiliated, one-year ACGME accredited program consisting of 4 fellows. Fellows rotate through neuroradiological subspecialties, with progressive independence as they gain experience over the year. During training, fellows develop clinical expertise in all aspects of neuroradiology, teach medical students, residents and peers, complete quality improvement projects, lead in multidisciplinary conferences and tumor boards, as well as pursue research and other scholarly activities. Fellows also are provided the opportunity to develop skills in medical education, health policy and quality improvement.

Graduates of this program will be:

1. Clinically exceptional radiologists with solid diagnostic and interventional skills;
2. Compassionate and empathetic professionals with strong interpersonal skills and an ability to excel as members of healthcare teams;
3. Valuable contributors to patient care through a broad understanding of the complexities of the US healthcare system and mastery of essential non-interpretative skills.

The Fellowship includes rotations at Tufts Medical Center (TMC) totaling 3 months and a two week elective rotation at Massachusetts Eye and Ear infirmary.

BIDMC, an affiliate of Harvard Medical School, is a 672-bed, tertiary academic center serving a diverse patient population from the Boston area and beyond. BIDMC-Needham, staffed by the same BIDMC physicians and covered by BIDMC Radiology via PACS, has an additional 58 beds.

In addition to consistently ranking as one of the top independent hospitals in grants from the National Institute of Health, the hospital has its own Academy of Medical Educators and Simulation Center. The radiology department is a national leader in quality improvement. See here for more information about BIDMC and its family of hospitals. <https://www.bidmc.org/medical-education/medical-education-by-department/radiology>

BIDMC has major strengths in clinical neuroscience, orthopedics, cardiology, hematology/oncology, and gastroenterology. TMC is a 415-bed world-class academic medical institution affiliated to Tufts Medical School which includes Floating Hospital for Children with major strengths in neurosurgery (including pediatric neurosurgery), pediatrics, and otolaryngology.

The fellowship provides training in the performance and interpretation of all aspects of diagnostic neuroradiology, including hands-on experience in advanced CNS imaging techniques such as quantitative MR spectroscopy, Arterial Spin Labeling perfusion, Dynamic Susceptibility Contrast MR perfusion, task and resting state fMRI, diffusion tensor imaging tractography, phase-contrast CSF flow imaging and CT perfusion and angiography. Fellows perform myelography and lumbar punctures, rotate through the Anesthesia Pain Clinic to learn facet injections and related procedures and scrub in on diagnostic and interventional angiography.

There are close collaborative relationships between the Neuroradiology Service and the Departments of Neurology and Neurosurgery in clinical and academic activities at both institutions.

Additionally, correlative brain cutting sessions are held monthly at BIDMC.

Weekly multidisciplinary conferences at both institutions provide a valuable learning experience for our neuroradiology fellows, in which comprehensive care of patient is discussed in conjunction with imaging findings.

OUR SERVICES & FACILITIES

Our Clinical Service - The neuroradiology section at BIDMC performs approximately 60,000 RVUs per year with slightly more MR than CT. Neuroradiologic services (CT and MRI) are also provided at Beth Israel Deaconess Hospital-Needham, by PACS.

Our Facilities at BIDMC

- 11 helical multidetector CT instruments across the sites, including in the Emergency Departments.
- 10 human MR systems, eight 1.5T, two 3T.
- 2 small bore high field MR systems.
- 1 PET/CT, 1 SPECT/CT.
- 1 biplane angiography suite dedicated for diagnostic and interventional neuroangiography and spinal procedures.
- State-of-the-art 3D laboratory with dedicated workstations: GE AW, Vitrea and Tera Recon.

Neurology at BIDMC

- Attending staff: 44
- PhD Faculty: 11
- Residents : 21
- ACGME fellows: 6
- Non-ACGME fellows: 4
- NIH funding: \$13 million
- Inpatient admissions/year: 1,600
- Outpatient visits/year: 25,000

Neurosurgery Service – BIDMC

7 neurosurgeons with expertise in all major areas:

- 1100-1200 open surgical cases per year
- 200 tumors
- 250 open vascular
- 500 spine
- 800 diagnostic and interventional angiography cases per year
- Average neurosurgery inpatient census is approximately 25-30 patients.
- 4 fellows
- Neurosurgical residency program. 1 resident per year

There is an active stereotactic radiosurgery program at BIDMC with approximately 200 cases annually.

Collaborating Services

A multidisciplinary approach to neuroradiology training is emphasized. There is a close interrelationship of the clinical and academic activities of the Neuroradiology Service with the Departments of Neurology, Neurosurgery, and Neuropathology. Correlative brain cutting sessions are held monthly.

Neurology at Tufts

- Attending staff: 17
- Residents : 15

Neurosurgery Service – TUFTS

7 neurosurgeons with expertise in all major areas:

- 1700 surgical cases per year
- 1 Vascular fellow
- Neurosurgery residency program (1 per year)

The training at Tufts Medical Center complements the educational experience at BIDMC with strong clinical expertise in:

- Pediatric neurological diseases
- Neurosurgery (including surgery of Brain Tumors and the Spine)
- Endovascular Surgery Neurology
- ENT (7 ENT surgeons)
- Ophthalmology. (51 ophthalmologists)
- The weekly multidisciplinary head and neck cancer center is a valuable learning experience for the neuroradiology trainee, in which comprehensive care of the head and cancer patient is discussed including discussion of imaging findings.

Spine Service – BIDMC

- Multidisciplinary team
- Co-directed by a neurosurgeon, orthopaedic surgeon and pain medicine specialist, reflecting true integration of these specialties.

Otolaryngology Service – BIDMC

- 7 ENT surgeons.

Ophthalmology Service – BIDMC

- 22 Ophthalmologists.

OUR CURRICULUM

Program Aims

1. To provide comprehensive educational experiences in the selection, performance and interpretation of diagnostic neuroradiological studies of brain, spine and otolaryngology, enabling fellow graduates to independently function as high quality consultants in academic or private practice settings.
2. To provide comprehensive educational experiences in the selection, performance and interpretation of invasive neuroradiological procedures such as cerebral angiography, spinal angiography, myelography, spinal canal access for spinal fluid analysis, chemotherapeutic injections and, image guided biopsies, including some exposure to interventional techniques such as thrombolysis and cerebral aneurysm and AVM embolization.
3. To provide teaching opportunities and skills to the fellows such as instruction and lectures for medical students and radiology residents.
4. To provide opportunities and skills to the fellows for Quality Assurance (QA) activities in neuroradiology.
5. To provide opportunities and skills to the fellows in scholarly projects in neuroradiology.

ROTATIONS

BIDMC Boston :

Rotation 1 (Inpatient/ED) - The fellow reads advanced CT (CTA, CT perfusion) and MRI imaging of emergency and inpatient cases as well as outpatient studies, which are primarily MR.

Rotation 2 (Procedures and fMRI) – The fellow participates in Diagnostic and Interventional neuroangiographic studies, and diagnostic spinal procedures. Fellow is also responsible for supervising, processing and interpretation of functional MRI studies. The fellow will be expected to read outpatient studies when time permits.

Rotation 3 (Outpatient Imaging and Conferences) – The fellow reads outpatient studies and presents the radiology components of the weekly interdisciplinary Neuro-oncology conference (Mondays) and the Neurology conference (Thursdays).

Rotation 4 (BIDMC Pain Clinic) - Fluoro-guided spine procedures such as facet and epidural steroid injections -1 week with Anesthesiology.

Massachusetts Eye and Ear: 2 week rotation

TUFTS Medical Center – In addition to reading adult and pediatric cases, the fellow presents the radiological components of weekly Neuro-oncology, Neurosurgery and ENT case conferences and participates in procedures including lumbar puncture, myelography, diagnostic and interventional angiography and biopsies.

Routine Conferences / Lectures

- Neuro-oncology (BIDMC, Mondays; Tufts, Mondays)
- Neurosurgical Rounds (Tufts, Thursdays)
- ENT (Tufts, Wednesdays)
- Childrens' neuroradiology (Boston Children's Hospital, Mondays)
- Fellow teaching conference (combined at BIDMC and TMC, Tuesdays)
- Neuroradiology Case Conference (BIDMC, Wednesdays)
- Neurology (BIDMC, Thursdays)
- Stroke (BIDMC, Thursdays *optional)
- Neurology Morbidity and Mortality (BIDMC, Wednesdays, *optional)
- Seizure Clinic Conference (BIDMC, Tuesdays, *optional)
- Grand Rounds (BIDMC, Fridays, *optional)
- Journal Club (BIDMC, monthly on Wednesdays)
- Neuroendocrinology (BIDMC, monthly, *optional)

Call Responsibility

- Weekday and Weekend evening home call/ Resident Backup (no overnight in-house call) –
- Coverage of urgent fluoroscopic guided lumbar punctures or myelograms for BIDMC Boston and TUFTS (infrequent).
- Weekend and Holiday Day Call – readout of BIDMC Boston and BIMC Needham Inpatient and Emergency Department MRI, and CT 7:30AM – 3 pm (later as needed).
- No angiography responsibilities.
- No overnight in-house call
- Assigned for 1 week, Monday 5pm through following Monday 8AM, with additional day when covering holidays; Q4 rotation

Trainee / Program Evaluation

1. Quarterly, the fellows complete anonymous evaluations of the program and its rotations at both training sites, as well as of each member of the teaching faculty.
2. In the spring, fellows also complete a separate Annual Program Evaluation survey, which is standardized across all training programs in the Department of Radiology and are asked about their experience thus far to help identify areas of improvement.
3. At the end of the year, all data – including results from the quarterly evaluations, the APE survey, annual ACGME resident and faculty surveys, feedback obtained during the annual internal review process with the institution's GME Office as well as direct feedback from the fellows obtained during bi-annual meetings with the program director – is reviewed by the program leadership and the Program Evaluation Committee to develop an action plan for the upcoming academic year. We analyze this data in comparison with recent years to identify trends and areas for improvement. Progress on action plans each academic year is tracked regularly through bi-annual meetings with the fellows and faculty, as well as quarterly meetings of the Radiology Educational Operations Committee (which is comprised of education leaders across our department).

HOW TO APPLY

Please note that we will be participating in the NRMP Neuroradiology Fellowship match. Please visit <http://www.nrmp.org/> for more information.

Applicants should send the following items to the Neuroradiology Fellowship Program Coordinator:

- CV
- Personal statement
- 3 letters of recommendation
- Dean's Letter
- Board Scores (NBME)
- Transcript of medical school record
- ECFMG certificates (if applicable)
- BIDMC fellowship application form

Please note that we will be participating in the NRMP Neuroradiology Fellowship match. Please visit <http://www.nrmp.org/> for more information.

Prerequisite training for entry into this fellowship program includes satisfactory completion of a diagnostic radiology residency program accredited by the ACGME or the Royal College of Physicians and Surgeons of Canada (RCPSC).

Contact Information

Samantha Sarblah

Fellowship Program Coordinator
Department of Radiology
330 Brookline Avenue, Sherman 231
Boston, MA 02215
P 617-667-3524
F 617-667-3513
Email: ssarblah@bidmc.harvard.edu

NEURORADIOLOGY FACULTY

Our Faculty

The neuroradiology section at BIDMC is made up of clinicians dedicated to providing our patients the cutting edge in neuroimaging to care for their health, while training future leaders in neuroimaging and developing neuroimaging techniques to further the management of neurological disorders. In collaboration with our colleagues in neurology, neuro-oncology and neurosurgery, our physicians strive to provide the best care, while advancing the practice of clinical neuroimaging.



David B. Hackney, MD

Chief of Neuroradiology, BIDMC
Assistant Dean for Faculty Development, Harvard Medical School
Professor of Radiology, Harvard Medical School

Dr. Hackney graduated cum laude from Harvard College in Biomedical Sciences and earned his medical degree from Cornell University Medical College. He completed a residency in Diagnostic Radiology at the University of California, San Diego, in 1983 and a fellowship in Neuroradiology at Massachusetts General Hospital, Boston, in 1985. He is certified in Diagnostic Radiology and in Neuroradiology. He joined the faculty in Neuroradiology at the University of Pennsylvania, rising to Professor of Radiology in 1996. In 2001, he became Acting Section Chief of Neuroradiology and chaired of the Department of Radiology Committee on Appointments and Promotions. While at Penn, he served in numerous capacities in faculty governance, including Chair of the Faculty Senate.

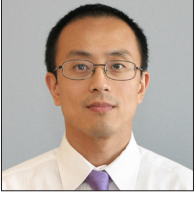
He joined BIDMC in 2003, as Professor of Radiology, Director of Faculty Development for the Radiology Department and Chief of Neuroradiology at BIDMC, as well as Assistant Dean for Faculty Development at Harvard Medical School. He has served HMS co-chairing the Faculty Development Working Group for the Medical Education Reform process, and chairing the Faculty Diversity Committee.

Dr. Hackney has published over 100 original manuscripts, as well as editorials, reviews and chapters, and hundreds of abstracts. He has served on numerous NIH federal advisory boards including the Trauma Task Force, the Diagnostic Radiology Study Section (DMG), the Training Grant and Career Development Committee (NST) for the National Institutes of Neurological Disorders and Stroke, as well as special emphasis panels for the NCI. He has also served as a Consultant at the federal Food and Drug Administration, Radiological Devices Panel and the Medical Devices Advisory Committee, and for the Veteran's Administration State of the Art Conference on Traumatic Brain injury. He is a fellow of the American College of Radiology and the International Society of Magnetic Resonance in Medicine. He has been named one of "America's Top Doctors" by Castle Connolly Medical Ltd., "Best Doctors in America" by Best Doctors, and "Best Doctors" by Boston Magazine.

Dr. Hackney's research interests include MR imaging of spinal cord injury and image processing approaches to brain tumor volume measurement and characterization.

Contact: dhackney@bidmc.harvard.edu

NEURORADIOLOGY FACULTY



Yu-Ming Chang, MD, PhD

Staff Neuroradiologist, BIDMC
Director, Neuroradiology Fellowship Program
Instructor in Radiology, Harvard Medical School

Dr. Chang earned his M.D. and Ph.D. in Anatomy and Neurobiology at Boston University School of Medicine and completed his residency training in Diagnostic Radiology at Boston Medical Center. Following the completion of his fellowship in Neuroradiology at BIDMC in June 2015, Dr. Chang joins our Neuroradiology attending staff.

Fellowship:
Neuroradiology, Beth Israel Deaconess Medical Center, Boston, MA

Residency:
Diagnostic Radiology, Boston Medical Center
Boston, Massachusetts

Internship:
Medicine, Caritas Carney Hospital
Dorchester, MA

Medical School:
Boston University School of Medicine,
Boston, MA

Contact: ychang2@bidmc.harvard.org



Rafeeqe A. Bhadelia, MD

Staff Neuroradiologist, BIDMC
Director of Clinical Operations in Neuroradiology, BIDMC

Dr. Bhadelia has extensive experience as a clinician and an educator both overseas and in the US. He came to BIDMC from Tufts-New England Medical Center (Tufts-NEMC) where he was Associate Professor of Radiology and Chief of Neuroradiology and MRI. Dr. Bhadelia has done original research work in cerebrospinal fluid flow imaging with MR, and served as an investigator in population based studies like the Cardiovascular Health Study (CHS) and Nutrition in Aging and Memory in Elderly (NAME) Study.

BIDMC residents recognized his contributions with the "Resident Appreciation Award" for the year 2007.

Medical Education:

Fellowship:
Neuroradiology, Tufts-New England Medical Center, Boston, MA

Residency:
Diagnostic Radiology - S.S.G. Hospital, Baroda, India and Tufts-New England Medical Center, Boston, MA

Internship:
Diagnostic Radiology, M.P. Shah Medical College Hospitals, India

Medical School:
M.S. University, India

Board Certification:

- ABR (Diagnostic Radiology)
- CAQ-Neuroradiology, ABR
- ABR (Neuroradiology)
- Swedish Board of Radiology
- MD in Diagnostic Radiology, India

Contact: rbhadeli@bidmc.harvard.edu

NEURORADIOLOGY FACULTY



Daniel D. Do-Dai, MD

Chief of Neuroradiology, Tufts Medical Center
Associate Director, Neuroradiology Fellowship Director for
Tufts Medical Center
Assistant Professor of Radiology
Tufts University School of Medicine

Dr. Do-Dai completed a residency in Diagnostic Radiology at Madigan Army Medical Center and fellowships in Body Imaging and Neuroradiology at Tufts-New England Medical Center. After five successful years in private practice, he returns to academic environment and becomes Chief of Neuroradiology at Tufts Medical Center in 2007. He has a special interest in brain, skull-base and spinal tumors and MR Spectroscopy.

Fellowship

Neuroradiology, Tufts-New England Medical Center, Boston, MA; CAQ-Neuroradiology, ABR Body Imaging, Tufts-New England Medical Center, Boston, MA

Residency

Diagnostic Radiology, Madigan Army Medical Center, Tacoma, WA

Internship

Medicine, Letterman Army Medical Center, Presidio of San Francisco, CA

Medical School

Tufts University School of Medicine, Boston, MA

Contact: DDoDai@tuftsmedicalcenter.org



Alice Fisher, MD

Staff Neuroradiologist, BIDMC
Community Radiology, BID-Needham
Instructor in Radiology, Harvard Medical School

Dr. Fisher received her M.D. degree from Harvard Medical School in 2002. She completed a radiology residency at BIDMC in 2007 and a neuroradiology fellowship in the joint BIDMC-Tufts program in 2008. Currently, she divides her time between neuroradiology at BIDMC in Boston and general radiology at BID-Needham, an affiliated community hospital.

Fellowship:

Neuroradiology, BIDMC/Tufts, Boston, MA

Residency:

Diagnostic Radiology, BIDMC, Boston, MA

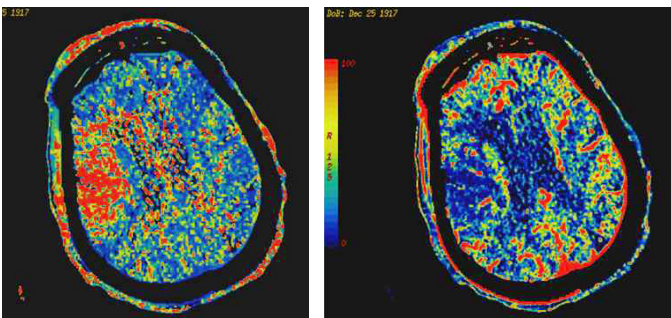
Internship:

Internal Medicine, Mount Auburn Hospital, Cambridge, MA

Medical School:

Harvard Medical School, Boston, MA

Contact: afisher@bidmc.harvard.edu



NEURORADIOLOGY FACULTY



Elisa N. Flower, MD

Staff Neuroradiologist, BIDMC
Instructor in Radiology, Harvard Medical School

Dr. Flower received her M.D. degree from University of Massachusetts Medical School, Worcester, Massachusetts in 2005. She completed a radiology residency at Boston Medical Center, Boston, Mass. in 2010, and Neuroradiology and Body Imaging fellowships at Boston Medical Center in 2011 and 2012 respectively. She currently divides her time between our BIDMC affiliate in Needham, Massachusetts and Neuroradiology at the main BIDMC campuses in Boston.

Fellowship(s):
Neuroradiology, Boston Medical Center, Boston, Massachusetts

Body Imaging, Boston Medical Center, Boston, Massachusetts

Residency:
Diagnostic Radiology, Boston Medical Center, Boston, Massachusetts

Internship:
Preliminary Medicine, St. Vincent's Hospital, Worcester, Massachusetts

Medical School:
University of Massachusetts Medical School, Worcester, Massachusetts

Contact: eflower@bidneedham.org



Vladimir Ivanovic MD

Staff Neuroradiologist, BIDMC
Instructor in Radiology, Harvard Medical School

Dr. Ivanovic received his M.D. degree from the Medical College of Wisconsin in Milwaukee in 1999. He completed radiology residency training in 2005 and a neuroradiology fellowship in 2006 at the Mayo Clinic in Rochester, MI. He joined BIDMC in 2016 after 10 years in private practice at Wisconsin Radiology Specialists in Milwaukee.

Fellowship:
Neuroradiology, Mayo Clinic, Rochester, MI

Residency:
Investigative Radiology, Mayo Clinic
Diagnostic Radiology, Mayo Clinic

Internship:
Internal Medicine, Mayo Clinic

Medical School:
Medical College of Wisconsin, Milwaukee, WI

Contact: vivanovi@bidmc.harvard.edu

NEURORADIOLOGY FACULTY



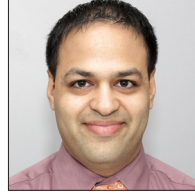
Jonathan Kleefield, MD

Staff Neuroradiologist, BIDMC
Associate Professor of Radiology, Harvard Medical School

Jonathan Kleefield, M.D. received his Bachelor of Arts degree in 1966 from Columbia University. He was awarded the M.D. degree from the University of Pennsylvania in 1970. Internship and Radiology Residency were completed at Long Island Jewish Hillside Medical Center during the years 1970-1974. From 1974-1976, he served as Director of Clinical Ultrasonography at the Naval Regional Medical Center, Oakland, California. A fellowship in Neuroradiology was obtained at Massachusetts General Hospital in the subsequent two years. Since 1978, Dr. Kleefield has been a Neuroradiologist at Beth Israel Hospital (now BIDMC), and has served as Director of the Neuroradiology section from 1990-2003.

Dr. Kleefield is the author or co-author of numerous scientific publications and book chapters, and is also a highly regarded teacher, both nationally and internationally. Dr. Kleefield participates extensively in educational activities at Harvard Medical School, where he serves as a student advisor and as Associate Professor of Radiology.

Contact: jkleefie@bidmc.harvard.edu



Neel Madan, MD

Staff Neuroradiologist, Tufts Medical Center
Assistant professor of Diagnostic Radiology and Pediatrics
Tufts Medical School

After completing a Neuroradiology fellowship at Beth Israel Deaconess Medical Center/Tufts Medical Center joint program, Dr. Madan joined the faculty as Assistant Professor of Diagnostic Radiology and Pediatrics at Tufts Medical School in 2010. He is also on staff at Emerson Hospital in Concord, Massachusetts on a per diem basis reading radiographs, US, CT, and MRI for the emergency room.

Fellowship:
Neuroradiology, Joint Program BIDMC/Tufts Medical Center, Boston, MA

Pediatric Neuroradiology, Massachusetts General Hospital, Boston, MA

Residency:
Mt. Auburn Hospital, Cambridge, MA

Internship:
Preliminary Medicine, Lahey Clinic Medical Center, Burlington, Massachusetts

Medical School:
New York Medical College, Valhalla, NY

Contact: nmadan@tuftsmedicalcenter.org

NEURORADIOLOGY FACULTY



Pritesh Mehta, MD

Staff Neuroradiologist, BIDMC
Associate Director, Neuroradiology Fellowship Program
Associate Director, Radiology Residency program
Instructor in Radiology, Harvard Medical School

Pritesh J. Mehta, MD - completed his residency at BIDMC after graduating from Case Western Reserve University School of Medicine; he also completed an executive business program this year at Harvard Business School to help foster innovation.



Rafael Rojas, MD

Staff Neuroradiologist, BIDMC
Associate Director, Neuroradiology Fellowship Program
Assistant Professor of Radiology, Harvard Medical School

Fellowship

Neuroradiology, National Institute of Neurology and Neurosurgery, Mexico City

Residency

American British Cowdray Hospital/Clinica Londres, Mexico City

Internship

American British Cowdray Hospital, Mexico City

Medical School

La Salle University Medical School, Mexico City

Contact: rrojas3@bidmc.harvard.edu

NEURORADIOLOGY FACULTY



Salil Soman, MD

Staff Neuroradiologist, BIDMC
Instructor in Radiology, Harvard Medical School

Fellowship

Neuroradiology, Stanford/Lucille Packard
Children's Hospital, Palo Alto, CA

Radiology, Radiological Sciences Laboratory
(RSL), Stanford University, Palo Alto, CA

Clinical Neuroscience, War Related Illness and
Injury Study Center, Dept. of Veterans Affairs
(Stanford RSL, Palo Alto VA WRIISC)

Residency

Diagnostic Radiology
Robert Wood Johnson Medical School
New Brunswick, NJ

Internship

Transitional
Tufts/NEMC, Brockton Hospital
Brockton, MA

Medical School

Robert Wood Johnson Medical School,
New Brunswick, NJ

Contact: ssoman@bidmc.harvard.edu

NEUROSURGERY FACULTY



Ajith Thomas, MD

Staff Neurosurgeon, BIDMC
Instructor in Surgery, Harvard Medical School

Fellowship

Neurointerventional Radiology, University of Pittsburgh Medical Center, Pittsburgh, PA

Residencies

General Surgery, Mayo Clinic, Rochester, MN
Neurosurgery, Henry Ford Hospital, Detroit, MI

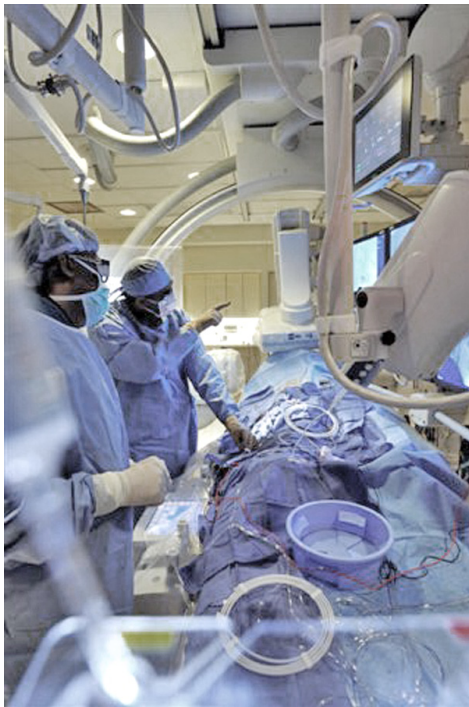
Medical School

Christian Medical College, Vellore, India

Board Certification

American Board Neurological Surgery

Contact: athomas6@bidmc.harvard.edu



FACULTY RESEARCH



David Alsop, PhD

Vice Chair for Research and Director 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, neuro-imaging, 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@bidmc.harvard.edu

NEURORADIOLOGY FELLOWS



Ilyas Chiali, MD

Ilyas Chiali, MD - graduated from St. George's University School of Medicine in Grenada, West Indies and completed his residency at Monmouth Medical Center, Long Branch, NJ. His interests include theoretical physics and he is fluent in French and proficient in Arabic.



Cristopher Hostage, MD

Christopher (Chris) Hostage, MD - stays on at BIDMC where he has just completed his residency training. He received his MD from Duke University School of Medicine. His strong passion for teaching, clinical duties and and research have earned positions as Chief Resident (2017-2018) and Chief Neuro Fellow (2018-2019).



Anna Luisa Kühn, MD, PhD

Anna Luisa Kühn, earned both her MD and PhD (DR. Med., Diagnostic and Intrventional Neuroradiology) at Saarland University School of Medicine in Germany and she completed her residency at UMASS Medical School, Worcester. She is fluent in German and English and has some proficiency in French, Spanish and Portuguese.



Nabeel Porbandarwala, MD

Nabeel Porbandarwala, MD earned his MD from the University of Missouri, Kansas City and completed his residency at the University of Cincinnati Medical Center, OH. He has been a member of the Gold Humanism Honor Society since 2012.

Alumni - Positions reflect position upon fellowship completion

2016-2017

David Khatami, MD, PhD
MSK Fellow, BIDMC

Jonathan Kim, MD

Pritesh Mehta, MD
Neuroradiologist, BIDMC

Archana Siddalingappa, MD

2015-2016

Sanford Brown
South Coast, Radiology, RI
Fatemeh Kadivar
Colorado Imaging Associates, Denver, CO

Roger Liu
Medical Imaging, Northwest, Tacoma, WA

Priyanka Prakash
St. Vincent Hospital, Worcester, MA

2014-2015

Yu-Ming Chang
BIDMC Neuroradiology, Boston, MA

Cameron Cummings
Fox Valley Radiology Associates, Neenah WI

Kimberly A Smith
University of Pittsburgh, Pittsburgh, PA

Cynthia Wallentin
Virtual Radiologic Professional, LLC

2013-2014

Jibrán Ahmad
Dartmouth-Hitchcock Medical Center, NH

Iris Bonilla-Yoon
Emerson, Hospital, Concord, MA

Sreenivas Garla
Commonwealth Radiology, Salem, MA

Anne Marie Sullivan
CRA Medical Imaging at Crouse and Oswego Hospital,
Syracuse, NY

2012-2013

Sachin K. Pandey
London Health Sciences Centre - University Hospital,
London, ON, Canada

Martha Lopez
XRA Medical Imaging, RI

Mary N. Tenenbaum
Baystate Medical Center, Springfield, MA

Ernest Nanjung Yeh
South Shore Hospital, Weymouth, MA

2011-2012

Harald Brodoefel
University Hospital Regensburg Regensburg, Germany

Reema Chaudhary
Private Practice, Mumbai, India

Gaurav Jindal
Brown University, Albert Medical School, Providence RI

Gustavo Pantol
Radiology Associates of South Florida, Miami, FL

2010-2011

Edward S. Brewer
Kittery Point, ME

Daniel B. Case
Radiology Associates of Florida, Tampa, FL

Faisal Khosa
Emory University School of Medicine, Atlanta, GA

Ramesh Ramachandran
Portsmouth Hospital NHS Trust, UK

2009-2010

Jason S. Appel
Indian River Medical Center and Sebastian River
Medical Center, Vero Beach, FL

Brian H. Livingston
Maine Medical Center, Portland, ME

Neel Madan
Tufts Medical Center, Boston, MA

Kalpana L. Mani
Jefferson Radiology, Hartford, CT

2008-2009

Macksood Aftab
Covenant Healthcare, MI

Rivka Colen
MD Anderson Cancer Center, Houston, TX

Victor Ramon Rodriguez
Olean MRI, NY

Harprit Singh Bedi
Chair, Department of Radiology ,
St Elizabeth's Medical Center, Brighton, MA