Beth Israel Deaconess Medical Center

HARVARD MEDICAL SCHOOL TEACHING HOSPITAL

Department of Radiology: Breast Imaging Fellowship Program

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, Pancreatico-biliary, and Liver conferences; Medical Grand Rounds, Surgical Grand Rounds, and others.

Boston

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

Breast Imaging

Positions available:	2 per academic year
Length of fellowship:	One year
Forms:	SBI Fellowship Match-Universal Application
Applications accepted*:	July 1, 2019 - October 31, 2019
Interviews:	will be held in January-February 2020
Acceptance:	BIDMC is participating in the match and will follow the timeline on the SBI website

**Applications for 2021-2022 Academic Year are being accepted as of July 1, 2019*

Applying

Please send 3 letters of recommendation (including 1 from your program director), your CV, personal statement, official medical school transcript, USMLE scores, and application form to Samantha Sarblah.

Samantha Sarblah

Program Coordinator,
Residency & Fellowship Programs
Department of Radiology
Beth Israel Deaconess Medical
Center 330 Brookline Avenue,
Sherman 231 Boston, MA 02215
T: 617-667-3524 | F: 617-667-3513
ssarblah@bidmc.harvard.edu

Breast Imaging Fellowship Program Director:

Rashmi Mehta, MD
rmehta3@bidmc.harvard.edu

OVERVIEW

The breast imaging fellowship at Beth Israel Deaconess Medical Center is a one-year fellowship with extensive experience in clinical care, research and teaching. In addition, there is full exposure to QC/QA processes and issues related to the management of a breast imaging center.

Upon completion of this fellowship, graduates should be competent to pursue an academic career in breast imaging or a career in private practice as subspecialty consultants in breast imaging.

The breast fellowship program at BIDMC is based at our main Boston outpatient campus where over 10,000 screening mammograms, 8,500 diagnostic mammograms, 4,500 ultrasounds and 1,000 MRIs are performed each year. Cases are referred from five of our off-site campuses that perform over 25,000 additional examinations each year. The program integrates diagnostic mammography with ultrasound and MRI for the work-up of breast abnormalities. The breast fellows interpret diagnostic mammograms with accompanying breast ultrasounds and breast MRI as needed. We have an active interventional service with over 40 breast procedures performed per week.

Fellows have the responsibility of performing challenging wire localizations, US and stereotactic-guided core biopsies as well as MRI biopsies each week. Breast MRI is fully integrated into the diagnostic workflow with 20-25 cases per week. Screening services include mammography, MRI and whole breast ultrasound. Fellows spend the equivalent of 4 weeks interpreting screening mammograms. In addition, fellows rotate through breast pathology, radiation therapy, nuclear medicine and the BreastCare Center to get a complete overview of what is involved in caring for and managing patients with breast issues.

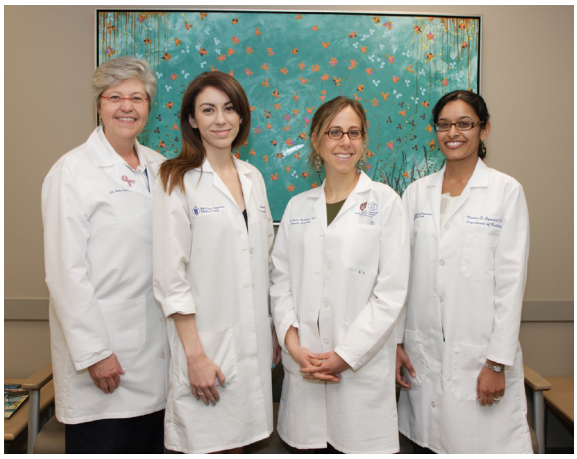
Fellows will participate in multiple conferences including a weekly Breast Radiology Pathology Correlation Conference, a weekly Multidisciplinary Breast Cancer Conference and Tumor Board, a monthly/quarterly Journal Club, monthly QA/Interesting Case Conference and monthly Breast Imaging Research Meeting. We have recently begun a monthly multidisciplinary 'classics' journal club with pathology and surgery where we review key articles in the breast literature. Fellows participate in summer lecture series for fellows and are encouraged to attend resident breast lectures throughout the year. Finally, our fellows will also participate in the Harvard Breast Imaging Fellows Meeting, where Harvard breast imaging fellows meet to discuss a topic and review cases.

Fellows will have some responsibility for teaching medical students and residents how to interpret breast studies and how to manage diagnostic work-ups. Breast fellows will share these responsibilities with the senior residents on service. Academic time will be given for research projects. Each fellow will work with a faculty mentor to design a research project(s), obtain IRB approval, collect and analyze data and prepare manuscripts for presentation and/or publication. Elective time will be allotted based on the needs of each fellow. Six practice sites allow exposure to MQSA and ACR inspections throughout the year and our QA program provides opportunities for focused learning around difficult/complex cases and system improvements for patient care.

Facilities

5 digital mammogram units including 2 with tomosynthesis
4 state-of-the-art US units
3.0 T and 1.5 T MRI unit with biopsy capabilities
Stereotactic core biopsy table + 3D upright
3 9-gauge vacuum-assisted core biopsy devices

PROGRAM GOALS



1. To provide an organized, comprehensive and highly supervised educational experience in breast imaging so that the fellow can function as an independent breast imaging consultant and practitioner in academic or private practice setting

2. To train fellows to screen healthy populations for breast cancer including screening mammograms, whole breast ultrasound and high-risk screening MRI

3. To train fellows in the selection, performance and interpretation of:
   a. diagnostic breast imaging studies in all modalities
   b. interventional procedures along with an understanding of radiologic-pathologic review for concordance of pathology findings

4. To provide sufficient experience to advise referring clinicians on the most expeditious and efficient imaging techniques to answer clinical and imaging breast problems.

5. To encourage and provide opportunities and skills for research in the field of breast imaging

6. To train fellows in quality control, quality assurance and peer review for breast imaging to be in compliance with all state and federal regulations.

Conferences and Teaching

The fellow will participate in multiple conferences listed below and will have some responsibility for teaching medical students and residents how to interpret breast studies and how to manage diagnostic work-ups. In addition, the fellow will prepare 3-4 other conferences incuding morning resident conference, resident board review and/or radiology grand rounds.

Multi-disciplinary Breast Cancer Conference	weekly
Breast Radiology Pathology Correlation Conference	weekly
Breast Tumor Board Conference	weekly
Biopsy Case conference	weekly
Breast QA/Interesting Case Conference	monthly
Breast Imaging Research Conference	monthly/online
Journal Club	monthly/online

Clinical and Academic Time Assignments
(estimated)

1 month	Screening Mammography
1 month	Needle Localizations and US guided interventions
1 month	Elective time*
1 month	Vacation – 4 weeks for the year
1/2 day/week	Academic time**
3 months	Diagnostic Imaging
3 months	Breast MRI and large core biopsies (MRI & Stereotactic)

**Elective time – How this time will be allotted will vary based on the specific needs of each fellow and will need to be discussed with and approved by the Fellowship Co-Directors. Elective time may include time in other Radiology Sections, other Clinical Sections (for example- Breast Surgery, Breast Pathology, Breast Oncology, Breast Radiation Oncology). Conference time that is beyond 1 week will come from this time if you are presenting an abstract/exhibit from the section, or have the need of additional academic time for manuscript preparation.*

***Fellows will get 1 full day of academic time during the first quarter to develop a research plan and submit spring conference abstracts. After that, each fellow will get 1/2 day academic time unless an approved research proposal justifies additional time up to 1 day per week.*

SPECIFICS OF THE BREAST FELLOWSHIP PROGRAM

1) **VOLUME**

Screening Mammography	750-1000
Diagnostic Mammography	400-600
Ultrasound	300-400
Mammo Loc	30-40
Stereo Bx	50-100
US Procedures	100-200
Breast MR	150-200
MR Intervention	20-40

These volume goals for our fellows are based on prior fellow rotations through the breast imaging section. We hope that you will strive to complete as many cases as possible to enhance your learning.

2) **WORKING WITH THE TECHNOLOGISTS**

Fellows will each spend 1 week working with the ultrasound technologists learning how to scan. Fellows will also spend one full day working with the mammography techs learning how mammograms are acquired. Half of the day will be for screening and the other half of the day will be for diagnostic mammograms. In addition, fellows will spend time observing QC procedures.

3) **SCREENING**

Fellows will be on the screening rotation at random intervals throughout the year. All fellows should strive to read 30-40 screening mammograms per screening session. They can also read screening mammograms while on other rotations, in between cases, if there is time. When you start, you will read out cases with a covering attending. As you progress, you will read out independently and review only the cases for which you have questions and callbacks.

4) **DIAGNOSTICS**

Fellows will be responsible for interpreting the images, making management recommendations, and discussing findings and recommendations with the patient and referring clinicians. When starting, fellows will take 4-6 cases per session. However, fellows should strive to take 10-15 cases per session by the end of the year. In addition, this is a great opportunity to improve your own US scanning techniques.

5) **PROCEDURES**

It is important that the fellow keeps track of procedures that he/she performs. The fellow is expected to preview all procedures that she/he will be doing 1-2 days ahead of time. This includes confirming modality of procedure, making sure to clearly identify the target lesion, and ensuring all imaging needed for the procedure is available. The fellow is responsible for following up on all pathology results and any complications.

6) **BREAST MR**

The fellow will protocol and monitor all Breast MR Studies performed weekly. They will interpret and dictate all completed Breast MR Studies under the supervision of an Attending Radiologist in a timely fashion. They will participate in all scheduled breast MR Biopsies, obtain pathologic results for these cases, and issue an addendum regarding concordance/discordance with appropriate follow up recommendations for these procedures.

7) **COMMUNITY SITES**

Fellows will spend approximately 1-2 weeks in one or more of the outpatient centers (BID-Needham or Lexington). Transportation is to be arranged by each individual fellow.

8) **BREAST RADIOLOGY PATHOLOGY CORRELATION CONFERENCE**

This conference occurs on Wednesday from 3-4 pm (except for the 1st week of the month due to staff meeting). The Breast Fellows and our Nurse Practitioner, Nancy Littlehale, NP, will alternate presenting at this conference, with occasional conferences given by the residents

9) **INTERESTING CASE/QA CONFERENCE**

This monthly conference occurs the 4th Wednesday of the month and includes attendance by Attendings, Residents, Co-Fellows.

10) **RADIOLOGY JOURNAL CLUB**

Each fellow will be expected to lead 1-3 Journal Club Meetings per year. The Journal Club Meeting includes attendance by Attendings, Residents, Breast Imaging Fellows and other colleagues.

11) **TUMOR BOARD AND MULTIDISCIPLINARY CONFERENCES**

Tumor board and multi are two conferences that take place every week. Patients' imaging, pathology, and treatment are discussed with all breast care teams present. The fellows are responsible for presenting at some of these conferences.

12) **MULTIDISCIPLINARY CLASSICS JOURNAL CLUB**

This will take place monthly with the pathology and surgery fellows. Each group will alternate presenting articles.

13) **HARVARD BREAST IMAGING FELLOWS MEETING**

This will take place 3x per year at will rotate at each of the different fellowship programs. The fellows will receive a lecture and present cases.

14) **SECTION/DEPARTMENT/RESIDENT CONFERENCE**

Each fellow will be expected to give a talk on a topic of their choosing.

15) **RESEARCH PROJECTS**

The Breast Imaging Fellow is required to be involved in at least one Breast Imaging Research Project during the Breast Imaging Fellowship. This includes a print or electronic publication (e.g., research or review article, chapter) or a local, regional, or national presentation/poster or electronic exhibit. The Breast Imaging Fellow can work with any attending in the Breast Imaging Section.

16) **RESIDENT LECTURES**

Dedicated breast imaging lectures are given to the residents in week long blocks (Monday through Thursday) from 730-9am, 4 times in the academic year, for a total of 16 days of resident lecture. You are encouraged to attend these lectures on basic breast topics.

17) **FELLOWS SUMMER LECTURE SERIES**

As part of the didactic curriculum, fellows will have a dedicated weekly summer lecture series on basic topics related to breast imaging. These will be geared towards the beginner fellowship level and will set the foundation for your learning. Attendings will provide additional resources for their lecture topic for you to build your foundation of knowledge.

18) **SECTION AUDIT/QA/QC**

Fellows will work together to present the section's Breast audit to the group using the section. There is also opportunity to work with the technologists to learn about quality control for a breast imaging department.

19) **PROGRESS/EVALUATIONS**

The Breast Imaging Fellows will meet monthly for check-ins and quarterly for 30-60 minutes as part of formal evaluations with Drs. Jordana Phillips and Rashmi Mehta.

The Breast Imaging Fellow should run her/his volumes. These numbers will be reviewed at the quarterly meeting and your feedback on self-performance will be solicited and attending feedback will be provided. Quarterly written evaluations will be given and fellows are expected to provide quarterly evaluations/ feedback as requested by the Education office.

20) **CALL**

Fellows will participate in the Body Imaging callpool which includes reading diagnostic cases on weeknights, taking procedure call during the week and a few weekend calls. The call requirements are equitably divided among multiple fellows and should not interfere with breast imaging training. For those headed to jobs that require general skills, this is an excellent opportunity to maintain that knowledge. For those who are going to solely practice breast imaging, there is no requirement to participate in on-call, non-breast-related procedures.

BREAST IMAGING FACULTY

Tejas S. Mehta, MD, MPH, FACR

Co-Director, BreastCare Center, BIDMC
Co-Director, BreastCare Center, Needham
Chief, Breast Imaging, BIDMC Radiology
Assistant Professor of Radiology, Harvard Medical School

Fellowship:
Women's Imaging, BIDMC 1998

Residency:
Diagnostic Radiology, BIDMC 1997

Internship:
Internal Medicine, Faulkner Hospital, Jamaica Plain, MA 1993

Medical School:
Tufts University School of Medicine, Boston, MA 1992

Other Graduate Education:
MPH (Clinical Effectiveness), Harvard School of Public Health, Boston, MA 2001

Research interests:
- Radiologic-Pathologic correlation of breast disease
- Quality Assurance
- Cost effectiveness and utilization review
- 3D tomosynthesis
- Contrast enhanced spectral mammography

Academic Awards/Accomplishments:
- RSNA/AUR/ARRS Introduction to Research Program (1994)
- Fleishner Young Investigator Research Award (1998)
- Morrison Research Award (1998)
- Award for Excellence in Teaching Medical Students (2002)
- HMS Leadership Development for Physicians & Scientists (2012)
- BIDMC Physician Leadership Program (2015)

Contact: tmehta@bidmc.harvard.edu

Jordana Phillips, MD

Staff Radiologist, Breast Imaging, BIDMC
Co-Director, Breast Imaging Fellowship
Director, Contrast-Enhanced Mammography, BIDMC
Instructor in Radiology, Harvard Medical School

Fellowship:
Breast Imaging, BIDMC 2012

Residency:
St Luke's - Roosevelt Hospital Center
New York New York 2011

Internship:
Internal Medicine, Einstein Medical Center
Philadelphia, PA 2007

Medical School:
SUNY Buffalo School of Medicine
Buffalo, New York 2006

Research interests:
- Contrast Enhanced Spectral Mammography
- Breast Imaging Education
- Quality Assurance

Contact: jphilli2@bidmc.harvard.edu
Twitter Handle: @DrJordanaP

BREAST IMAGING FACULTY

Rashmi J. Mehta, MD, MBA

Staff Radiologist, Breast Imaging, BIDMC
Co-Director, Breast Imaging Fellowship
Instructor in Radiology, Harvard Medical School

Fellowships:
Pediatric Imaging,
Boston Children's Hospital 2016

Breast Imaging, Beth Israel Deaconess Medical Center, Boston, MA 2017

Residency:
Radiology, BIDMC 2015
Chief Resident (2014)

Internship:
Internal Medicine
Winthrop University Hospital, Mineola, NY 2011

Medical School:
Albany Medical College, Albany, NY 2010

Clinical Interests:
- Radiology Education

Contact: mehta3@bidmc.harvard.edu

Vincent Champion, MD

Staff Radiologist, Breast Imaging, BIDMC
Instructor in Radiology, Harvard Medical School

Fellowship:
Breast Imaging, BIDMC 2019

Residency:
Radiology, Rhode Island Hospital
Brown University, Providence, RI 2011

Internship:
Internal Medicine
University of North Carolina at Chapel Hill 2007

Medical School:
Tulane University School of Medicine, New Orleans, LA 2006

Vincent Champion, MD - "Vinny" also served as Lieutenant Commander, Medical Corps at the United States Naval Medical Center, Camp Lejeune (2011-2015). During this time he also served as the Division Officer for both Breast Imaging and Cardiac Imaging.

Contact: vchampio@bidmc.harvard.edu

BREAST IMAGING FACULTY

Vandana Dialani, MD

Staff Radiologist, Breast Imaging, BIDMC
Director of Clinical Breast MRI at BIDMC and BID-Needham
Clinical Director of Breast Imaging at BID-Needham
Assistant Professor of Radiology, Harvard Medical School

Fellowships:
Clinical:
Breast Imaging/Thoracic Imaging, BIDMC 2006
Women's Imaging, BIDMC 2005
Research: Obstetric/Fetal MR, BIDMC 2004

Residency:
JJ Group of Hospitals, Grant Medical College, Bombay, India 1996

Internship:
Internal Medicine, JJ Hospital, Bombay, India 1993

Medical School:
Grant Medical College, Bombay, India 1992

Academic Activities/Achievements:
- Reviewer, European Society of Radiology
- Fellow, Society of Breast Imaging (2016)
- Investigator, NCI funded *Assessment of a CAD Tool applied to DW breast MRI of women with dense breasts*
- ECOG/ACRIN Site PI: *Comparison of abbreviated breast MR and digital breast tomosynthesis in breast cancer screening in women with dense breast* (2017-2019)
- Mentor/PI 2017 Research resident/fellow grant

Research Interests:
- Accuracy of Image guided biopsies
- Breast MRI and emerging technologies
- High risk breast lesions

Contact: vdialani@bidmc.harvard.edu

Valerie Fein-Zachary, MD

Staff Radiologist, Breast Imaging, BIDMC
Director, Fenway Health Mammography Program
Director, Outer Cape Health Services Mammography Program
Assistant Professor of Radiology, Harvard Medical School

Residency:
Diagnostic Radiology, Beth Israel Hospital, Boston, MA 1986

Internship:
Transitional Internship, Framingham Union Hospital, Framingham, MA 1983

Medical School:
SUNY Upstate Medical University, Syracuse, NY 1982

Research Interests:
- Quality Assurance and annual MQSA Audits
- Sexual minority patients

Academic Achievements:
- Member, BIDMC Academy
- Member, Harvard Academy

Contact: vfeinzac@bidmc.harvard.edu

BIDMC
Breast Imaging Presentations at RSNA 2016:

BR002-EB-X	There's More than Meets the Eye: A Multi-Modality Framework for the Detection of Mammographically Occult Breast Lesions - Nancy A. Resteghini, **Michael D. Fishman, Evguenia J. Karimova, Valerie J. Fein-Zachary, Monica D. Agarwal, Tejas S. Mehta, Priscilla J. Slanetz**
PH227-SD-MOB8 12:45-1:15 PM PH Community Learning Center	*Physics Monday Poster Discussions:* Value of Phantom Dosimetry to Estimate Patient Dose in Contrast-Enhanced Spectral Mammography (CESM). **Jordana Phillips, Georgeta Mihai, Alexander Brook, Matthew R. Palmer, Da Zhang**

Nurse Practitioner
BREAST IMAGING

Nancy Littlehale, MSN, WHNP-BC

Nurse Practitioner
Breast Imaging, BIDMC

Graduate school
MS in Nursing, Women's Health
MGH Institute of Health Professions
Boston, MA 1992

Undergraduate Education:
BS in Human Development and Family Studies
University of Vermont 1985

Contact: nlittleh@bidmc.harvard.edu

Featured in
Boston Globe Salute to Nurses 2017 Letters
by Zach Gordano May 6, 2017

Nancy Littlehale [Breast Imaging NP]
Beth Israel Deaconess Medical Center

I have been seeing Nancy Littlehale for the past 10 years at Beth Israel's Breast Care Center. As someone who is high risk for breast cancer, it is imperative that I have the best care in terms of prevention, monitoring, and diagnosing this dreaded disease. Nancy is not only a competent clinician, she is also direct, honest, compassionate, and caring. She has a way of connecting with you as a human and not as just another patient on her very busy roster. She always asks about my children and actually remembers how many I have. This is truly appreciated, as my visits are always fraught with fear and anxiety.

Nancy is my go-to person—I always request her whenever I am required to have invasive testing done—and my rock. Thank you, Nancy. I am blessed to have you in my life.

– Nominated by Kelly Papa

Donna Bobbitt, RN
Breast Imaging Nurse Navigator

Selected Breast Imaging Staff Bibliography as of May 2018

Names in Bold = Breast Imaging Faculty; Trainees

Dialani V, Westra C, **Venkataraman S**, **Fein-Zachary V**, Brook A, **Mehta T**. Indications for biopsy of imaging-detected intramammary and axillary lymph nodes in the absence of concurrent breast cancer. Breast J. 2018 Mar 8. PMID: 29517168.

Deitte LA, Chen PH, Scanlon MH, Heitkamp DE, Davis LP, Urban S, Marx MV, **Slanetz PJ**. Twenty-four-Seven In-house Faculty and Resident Education. J Am Coll Radiol. 2018 Jan;15(1 Pt A):90-92. PMID: 29304931.

Deitte LA, Meltzer CC, Norbash A, Mahoney MC, Soto JA, **Slanetz PJ**. Faculty Relative Value Unit Incentives and Resident Education. J Am Coll Radiol. 2018 Jan 11. pii: S1546-1440(17)31360-1. PMID: 29336999.

Expert Panel on Breast Imaging:, Lourenco AP, Moy L, Baron P, Didwania AD, diFlorio RM, Heller SL, Holbrook AI, Lewin AA, **Mehta T**S, Niell BL, **Slanetz PJ**, Stuckey AR, Tuscano DS, Vincoff NS, Weinstein SP, Newell MS. ACR Appropriateness Criteria(®) Breast Implant Evaluation. J Am Coll Radiol. 2018 May;15(5S):S13-S25. doi: 10.1016/j.jacr.2018.03.009. PMID: 29724416.

Kalia V, Ortiz DA, **Patel AK**, Moriarity AK, Canon CL, Duszak R Jr. Leveraging Twitter to Maximize the Radiology Meeting Experience. J Am Coll Radiol. 2018 Jan;15(1 Pt B):177-183. PMID: 29162419.

Linsk A, **Mehta TS**, **Dialani V**, **Brook A**, Chadashvili T, Houlihan MJ, Sharma R. Surgical upgrade rate of breast atypia to malignancy: An academic center's experience and validation of a predictive model. Breast J. 2018 Mar;24(2):115-119. Epub 2017 Aug 22. PMID: 28833923.

Phillips J, Steinkeler J, Talati K, Brook A, **Dialani V**, **Fishman M**, **Slanetz PJ**, **Mehta TS**. Workflow Considerations for Incorporation of Contrast-Enhanced Spectral Mammography Into a Breast Imaging Practice. J Am Coll Radiol. 2018 Mar 30. pii: S1546-1440(18)30205-9. PMID: 29606631

Pisano ED. Is Tomosynthesis the Future of Breast Cancer Screening? Radiology. 2018 Apr;287(1):47-48. PMID: 29558309.

Slanetz PJ. Vital Signs in Radiologic Education: Creativity, Innovation, and Change. Acad Radiol. 2018 Mar 29. pii: S1076-6332(18)30098-9. PMID: 29606340.

Slanetz PJ, Canon CL, Spalluto L, Debenedectis CM, Borondy-Kitts A, Deitte LA. Fostering Patient- and Family-Centered Care in Radiology Practice. J Am Coll Radiol. 2018 Jan 2. pii: S1546-1440(17)31482-5. PMID: 29301725.

Raj SD, **Fein-Zachary V**, **Slanetz PJ**. Deciphering the Breast Density Inform Law Movement: Implications for Practice. Semin Ultrasound CT MR. 2018 Feb;39(1):16-24. PMID: 29317035.

Retrouvey M, Keefe B, Kotsenas A, McGinty G, **Patel AK**. Women in Radiology: Creating a Global Mentorship Network Through Social Media. J Am Coll Radiol. 2018 Jan;15(1 Pt B):229-232. PMID: 29128498.

Whorms DS, **Fishman MDC**, **Slanetz PJ**. Mesenchymal Lesions of the Breast: What Radiologists Need to Know. AJR Am J Roentgenol. 2018 May 24:1-10. PMID: 29792741.

BIDMC Breast Imaging at

RSNA® 2017
Explore. Invent. Transform.
November 26 to December 1

Refresher Course: MR Imaging-guided Breast Biopsy (Hands-on) - Amy L. Kerger, Rifat A. Wahab, **Vandana M. Dialani**, Deepa Sheth, Michael R. Aho, Lara D. Richmond, Gary J. Whitman, Kirti M. Kulkarni, Jill J. Schieda, Jiyon Lee, Mitva J. Patel, Wade C. Hedegard, Amado B. del Rosario, Karla A. Sepulveda, Jamie G. Giesbrandt, Wendi A. Owen, Laurie R. Margolies, Mitra Noroozian, Jeffrey R. Hawley, Nikki S. Ariaratnam, Su-Ju Lee

Refresher Course: US-guided Interventional Breast Procedures (Hands-on) - Karen S. Johnson, Jocelyn A. Rapelyea, Shambhavi Venkataraman, Angelique C. Floerke, Anita K. Mehta, Nicole S. Lewis, Kathleen R. Gundry, Michael N. Linver, Christina G. Marks, Tilden L. Childs III, **Evguenia J. Karimova**, Caroline M. Ling, Sora C. Yoon, Connie E. Kim, Mary S. Soo, Margaret M. Szabunio

Breast SUNDAY Poster Discussions
Breast Density Matters.
Sirui Liu, **Amy K. Patel,** Michelle V. Lee

Breast SUNDAY Poster Discussions
Get it Off Your Chest: Differential Diagnosis of Giant Breast Masses.
Janeiro Achibiri**, Evguenia J. Karimova, Jordana Phillips, Tejas S. Mehta, Valerie J. Fein-Zachary, Vandana M. Dialani, Parisa Lotfi, Priscilla J. Slanetz**

Genitourinary (Imaging of Pregnancy)
Symptomatic Fibroids in Pregnancy: MR Imaging Features and Differentiation from Non-Symptomatic Fibroids. **Dinushi S. Perera**, **Karen S. Lee**, Alexander Brook

Student Travel Awardee

Breast TUESDAY Poster Discussions
Comparing Radiation Dose of Contrast-Enhanced Spectral Mammography (CESM) to Digital Mammography and Digital Breast Tomosynthesis Using Patient Data.
*Sean D. Raj, **Jordana Phillips**, **Georgeta Mihai**, Sarah Esaa, **Alexander Brook**, **Matthew R. Palmer, Da Zhang**

Student Travel Awardee

Names in Bold = Breast Imaging Faculty; Trainees

Cathy Wei (4th yr resident) was awarded the Resident Research Grant for her study entitled "Comparing Restriction Spectrum Imaging (RSI) to Conventional and Abbreviated Breast MRI for Breast Cancer Screening".

Jane Karimova (Breast Imager) was awarded the RSNA Education Scholar Grant for her project entitled "Simulation-based Teaching of Screening Mammography Using Deliberate Practice on Cancer Enriched Case Sets".

Breast WEDNESDAY Poster Discussions

Management of the Pure Papilloma Diagnosed by Ultrasound-Guided Core Needle Biopsy: Is Surgical Excision Necessary? - Sean D. Raj, **Jordana Phillips, Tejas S. Mehta, Michael D. Fishman, Vandana M. Dialani, Valerie J. Fein-Zachary, Shambhavi Venkataraman**, Nancy Littlehale, **Evguenia J. Karimova, Priscilla J. Slanetz**

Fact or Fiction: Imaging and Management of DCIS in 2017. Bonny Lee, **Evguenia J. Karimova, Jordana Phillips, Vandana M. Dialani, Rashmi Mehta, Priscilla J. Slanetz**

Breast THURSDAY Poster Discussions
Are MRI Features of Estrogen Receptor-Positive Invasive Breast Cancers Predictive of Oncotype DX Recurrence Scores?
- *Catherine J. Wei, **Jordana Phillips, Priscilla J. Slanetz, Tejas S. Mehta, Michael D. Fishman, Evguenia J. Karimova**, Sean D. Raj, Alexander Brook, **Vandana M. Dialani**

Student Travel Awardee

Tips and Tricks: Implementation and Interpretation of Synthesized 2D (sDM) Mammogram in Clinical Practice. Adam Fang, **Valerie J. Fein-Zachary, Jordana Phillips, Tejas S. Mehta, Michael D. Fishman, Evguenia J. Karimova, Priscilla J. Slanetz**

Primary and Secondary Breast Lymphoma: Multimodality Imaging Review with Associated Clinical and Pathological Features. Sean D. Raj, **Michael D. Fishman, Tejas S. Mehta,** Nancy A. Resteghini, **Priscilla J. Slanetz, Evguenia J. Karimova, Jordana Phillips, Valerie J. Fein-Zachary, Vandana M. Dialani**

Not So Black and White: Causes of False Positive Findings on Contrast-enhanced Mammography. Hannah Perry, **Jordana Phillips, Michael D. Fishman, Priscilla J. Slanetz, Valerie J. Fein-Zachary, Vandana M. Dialani, Evguenia J. Karimova, Tejas S. Mehta**

Tricks and Tips to Prevent Errors in Mammography. Hannah Perry, **Jordana Phillips, Valerie J. Fein-Zachary, Michael D. Fishman, Priscilla J. Slanetz, Vandana M. Dialani, Evguenia J. Karimova, Tejas S. Mehta**