

Curriculum Vitae
Martha B. Mainiero, MD, FACR, FSBI

Updated 4/2020

Education

Undergraduate: Tufts University
Medford, Massachusetts
9/81-5/85
B.A. Biology and Spanish 1985
Magna Cum Laude

Medical School: Tufts University
Boston, Massachusetts
9/85-5/89
M.D. 1989

Postgraduate Training

Internship: Medicine and Surgery
Newton -Wellesley Hospital
Newton, Massachusetts
7/1/89 – 6/30/90

Residency: Diagnostic Radiology
Yale- New Haven Hospital
Yale University School of Medicine
20 York Street
New Haven, Connecticut
7/1/90 - 6/30/94

Fellowship: Winchester Fellowship in Breast and Chest Imaging
Yale-New Haven Hospital
Yale University School of Medicine
20 York Street
New Haven, Connecticut
7/1/94 - 6/30/95

Professional Development

- 1996 Faculty Development Program-Association of University Radiologists
- 2011 Teaching Certificate Program-Association of Program Directors in Radiology
- 2014 Radiology Management Program -Association of University Radiologists
- 2019 Leadership Development for Physicians in Academic Health Centers-Harvard T.H. Chan School of Public Health

Postgraduate Honors and Awards

- 1988 Alpha Omega Alpha Medical Honor Society, Tufts University School of Medicine
- 1989 Janet M. Glasgow Memorial Award for graduating first in class, Tufts University School of Medicine
- 1989 Hewlett-Packard Medical Graduate Award for Academic Excellence
- 1989 Upjohn Achievement Award for Excellence in the Clinical Years
- 1993-1994 Chief Resident in Radiology, Yale-New Haven Hospital
- 2010 Best paper in Education category, Journal of the American College of Radiology
- 2011 Dean's Excellence in Teaching Award, Alpert Medical School Brown University
- 2013 Best paper in Education category, Journal of the American College of Radiology

Postgraduate Honors and Awards, cont

- 2014 Outstanding Service Award, Department of Diagnostic Imaging Warren Alpert Medical School of Brown University
- 2016 Association of Program Directors in Radiology Achievement Award
- 2018 Magna Cum Laude Citation-Education Exhibit Radiologic Society of North America "Freezing Instead of Excising: Cryoablation for Breast Cancer"
- 2019 Milton Hamolsky Outstanding Physician of the Year Award, Rhode Island Hospital

Professional Licenses

State of Rhode Island
1995-present

Commonwealth of Massachusetts
1999-present

State of Rhode Island Controlled Substance Registration
1995-present

Federal DEA Registration
1995-present

Board Certification

National Board of Medical Examiners 1990

American Board of Radiology, Diagnostic Radiology 1994

Academic Appointments

Instructor
Brown Medical School
Providence, Rhode Island 1995 - 1996

Assistant Professor, Teacher Scholar Track
Brown Medical School
Providence, Rhode Island July 1996-June 2005

Associate Professor, Teacher Scholar Track
Brown Medical School
Providence, Rhode Island July 2005-June 2012

Professor, Teacher Scholar Track
Brown Medical School
Providence, Rhode Island June 2012-present

Hospital Appointments

Staff Physician
Rhode Island Hospital
Providence, Rhode Island
7/95 - present

Staff Physician
Women and Infants Hospital
Providence, Rhode Island
7/95 – present

Staff Physician
The Miriam Hospital
Providence, Rhode Island
9/26/2000-present

Hospital Administrative Leadership Roles

Department of Diagnostic Imaging
Vice Chair of Education 7/18-present
Fellowship Director, Breast Imaging 7/19-present

Anne C. Pappas Center for Breast Imaging
Rhode Island Hospital
Providence, RI
Medical Director, 7/07 – present

Diagnostic Radiology Residency Program
Rhode Island Hospital, Brown Medical School
Residency Program Director 8/01-6/19
Associate Residency Program Director 1/96-8/01

Interventional/Diagnostic Radiology Residency Program
Rhode Island Hospital, Brown Medical School
Associate Residency Program Director 7/16-6/19

Medical Staff Association, Rhode Island Hospital
Secretary 1/18-present
President 1/14-1/16
President-Elect 1/13-1/14
Treasurer 1/11-1/13

Lifespan Board of Directors 9/19-Present

Editorial Appointments

Associate Editor for Training and Early Career

Journal of Breast Imaging

September 2018-present

Reviewer-Journal of Breast Imaging 2018-Present

2019-Recognition of Exceptional Manuscript Review

Associate Editor for Education

Journal of the American College of Radiology

June 2006-2012

Reviewer- Journal of the American College of Radiology, 2003-present

2005-Recognition of Exceptional Manuscript Review

2006-Recognition of Exceptional Manuscript Review

2007-Recognition of Exceptional Manuscript Review

2009-Recognition of Exceptional Manuscript Review

2010-Recognition of Exceptional Manuscript Review

2011-Recognition of Exceptional Manuscript Review

Reviewer- American Journal of Roentgenology. 1996-2019

Reviewer-Academic Radiology 2017-present

Other Appointments

Presiding Officer

Scientific Poster Session

87th Scientific Assembly and Annual Meeting

Radiological Society of North America

November 2001

Presiding Officer

Scientific Poster Session

88th Scientific Assembly and Annual Meeting

Radiological Society of North America

December 2002

Moderator

Annual Meeting of the Association of Program Directors in Radiology

Denver, Colorado

May 2007

Moderator

Annual Meeting of the Association of Program Directors in Radiology

Seattle, Washington

March 2008

Other Appointments, cont

Moderator
Annual Meeting of the Association of Program Directors in Radiology
San Diego, CA
March 2010

Moderator, Breast Imaging (Interventional)
96th Scientific Assembly and Annual Meeting
Radiological Society of North America
November 2010

Presiding Officer
Scientific Poster Session
104th Scientific Assembly and Annual Meeting
Radiological Society of North America
December 2017

Scientific Abstract Review Panel
Association of University Radiologists
2017-2018

Hospital Committees

Rhode Island Hospital Breast Steering Committee 1/09-present
Rhode Island Hospital Medical Executive Committee 1/08-1/10, 1/12-present
Lifespan Quality Oversight Committee 10/19-present
Rhode Island Hospital Graduate Medical Education Committee 4/96 –6/19
Rhode Island Hospital Cancer Committee 12/95 – 6/2001
President's Pursuit of Excellence Committee 2017, 2018

University Committees

Brown Medical School Graduate Medical Education Committee 4/96-2000
Brown Medical School Search Committee for Chair of Dermatology 7/2012-3/2013

Professional Societies and Committees

Association of University Radiologists 1996-Present

Board of Directors	4/13-Present
President	4/17-4/18
Treasurer	4/13-4/14
Secretary	4/14-4/15
Vice President	4/15-4/16
President-elect	4/16-4/17
Chair, Program Committee	4/16-4/17
Scientific Program Committee	4/17-present
Search Committee for	3/16-11/16
Academic Radiology Editor in Chief	
Fellow Nominating Committee	4/19-present
Gold Medal Committee	4/19-4/20

Association of Program Directors in Radiology 1996-Present

Board of Directors	5/08-5/13
President	5/11-5/12
President-elect	5/10-5/11
Secretary/Treasurer	5/09-5/10
First Director-at-large	5/08-5/09
Second Director-at-large	5/07-5/08
Third Director-at-large	5/06-5/07
Chair, Membership Committee	11/01-5/09
Long Range Planning Committee	5/06-5/12
Ad Hoc Committee on Government Affairs	5/00-5/04
Archives Committee	5/12-present

Radiological Society of North America

Education Committee	12/19-present
Faculty Advisor, Residents and Fellows Committee	7/15-11/19
RadLex Breast Committee	8/10-7/15

Professional Societies (continued)

American College of Radiology 1997-Present

Elected **Fellow of the American College of Radiology** May 2011
Committee on Guidelines and Appropriateness Criteria-Breast Imaging 5/10-5/16
Chair, Joint ACR-APDR Committee on Core Competency Resource Development
5/05-3/11
Alternate Councilor, Association of Program Directors in Radiology 5/05-5/09
ACR representative to the American Registry of Radiologic Technologists'
Mammography Exam Committee 3/06-4/10
Councilor, Association of Program Directors in Radiology 5/02-5/05

American Board of Radiology of Radiology

Core Examination Development Committee-Breast, 3/2012-present
Oral Board Examiner-Breast Imaging, 6/2005, 5/2008, 5/2012

Rhode Island Radiology Society 1997-Present

President 6/05-5/06
Secretary 6/04-5/05
Treasurer 2/04-5/04

Society of Breast Imaging 1999-Present

Elected **Fellow** of the Society December 2009

American Roentgen Ray Society 1996-present

New England Roentgen Ray Society

Co-Chairman of Education Committee 2002-2003

Original Research in Peer-Reviewed Journals

1. **Mainiero MB**, Philpotts LE, Lee CH, Lange RC, Carter D, Tocino I. Stereotaxic Core Needle Biopsy of Breast Microcalcifications: Correlation of Target Accuracy and Diagnosis with Lesion Size. *Radiology* 1996; 198:665-669
2. Lee CH, Egglin TK, Philpotts LE, **Mainiero MB**, Tocino I. Cost Effectiveness of Stereotaxic Core Biopsy: Analysis by Means of Mammographic Findings. *Radiology* 1997; 202:849-854
3. **Mainiero MB**, Collins J, Primack SL. Effectiveness of Resident-prepared Conferences in Teaching Imaging Utilization Guidelines to Radiology Residents. *Acad Radiol* 1999; 6:748-751
4. **Mainiero MB**, Schepps B, Clements NC, Bird CE. Mammography-Related Anxiety: Effect of Preprocedural Patient Education. *Women's Health Issues* 2001; 11:110-115
5. Gupta H, Mayo-Smith WW, **Mainiero MB**, Dupuy DE, Abbott GF. Helical CT of pulmonary vascular abnormalities. *AJR* 2002; 178:487-492
6. **Mainiero MB**, Schepps B, Koelliker S, Lazarus E, Lee CH. Ultrasound-guided large-core needle biopsy of the breast: frequency and results of repeat biopsy. *Journal of Women's Imaging* 2002; 4:52-57
7. **Mainiero MB**, Gareen I, Bird C, Smith W, Cobb C, Schepps B. Preferential use of ultrasound-guided biopsy to minimize patient discomfort and procedure time in a percutaneous image-guided breast biopsy program. *J Ultrasound Med* 2002; 21:1221-1226
8. Scheiner JD, **Mainiero MB**. Effectiveness and student perceptions of standardized radiology clerkship lectures: a comparison between resident and attending radiologist performances. *Acad Radiol* 2003; 10:87-90
9. **Mainiero MB**, Midkiff BD, Zienowicz R, Chung M, Spencer PK. Screening mammography of autologous myocutaneous flaps. *Journal of Women's Imaging* 2003; 5:20-24.
10. **Mainiero MB**, Goldkamp A, Lazarus E, Livingston L, Koelliker S, Schepps B, Mayo-Smith WW. Characterization of breast masses with ultrasound: can biopsy of some solid masses be deferred? *J Ultrasound Med* 2005; 24:161-167
11. Lazarus E, **Mainiero MB**, Gareen I. Effect of referring physician specialty and practice type on referral for image-guided breast biopsy. *J Am Coll Radiol* 2005; 2:488-493
12. Lazarus E, **Mainiero MB**, Schepps B, Koelliker SL, Livingston LS. BI-RADS lexicon for US and Mammography: Interobserver variability and positive predictive value. *Radiology* 2006; 239: 385-391

Original Publications in Peer-Reviewed Journals (continued)

13. Boisselle PM, **Mainiero MB**. Impact of electronic resident evaluation systems on the timeliness, rate, and quality of responses: Survey of Association of Program Directors in Radiology members J Am Coll Radiol 2006; 3:807-811
14. Lazarus E, Mayo-Smith WW, **Mainiero MB**, Spencer PK CT in the evaluation of nontraumatic abdominal pain in pregnant women. Radiology 2007; 3:784-90.
15. Lourenco AP, **Mainiero MB**, Lazarus E, Schepps B, Giri D. Stereotactic Breast Biopsy: Comparison of histologic underestimation rates with 11- and 9-gauge vacuum assisted breast. AJR 2007; 189: W275-9
16. Koelliker SL, Chung MA, **Mainiero MB**, Steinhoff MM, Cady G. Axillary lymph nodes: US-guided fine-needle aspiration for initial staging of breast cancer-correlation with primary tumor size. Radiology 2008; 246:81-9
17. Woodfield CA, **Mainiero MB**. Radiology resident dictation instruction: effectiveness of the didactic lecture. J Am Coll Radiol 2008; 7:842-6
18. Tubbs RJ, Murphy B, **Mainiero MB**, Shapiro M, Kobayashi L, Lindquist D, Smith JL, Siegel N. High-fidelity medical simulation as an assessment tool for radiology residents' acute contrast reaction management skills. J Am Coll Radiol 2009; 6:582-7
19. **Mainiero MB**, Cinelli CM, Koelliker SL, Graves T, Chung MA. Axillary Ultrasound and Fine Needle Aspiration in the Pre-operative Evaluation of the Breast Cancer Patient. An Algorithm based upon Tumor Size and Lymph Node Appearance. AJR 2010; 195(5):1261-7
20. Abramovici GA, **Mainiero MB**. Screening breast MR Imaging: Comparison of interpretation of baseline and annual follow up studies. Radiology 2011; 250 (1): 85-91
21. Lourenco AP, Tsang MC, **Mainiero MB**. Utility of Targeted Ultrasound in Management of probably benign breast lesions identified at MRI. J Ultrasound Med 2012; 31:1033-1040
22. Lourenco AP, Donegan L, Khalil H, **Mainiero MB**. Improving outcomes of screening breast MRI with practice evolution: initial clinical experience with 3T compared to 1.5T. J Magn Reson Imaging 2014; 39(3): 535-9
23. Rothschild J, Lourenco AP, **Mainiero MB**. Screening mammography recall rate: does practice site matter? Radiology 2013; 269(2): 348-53
24. Lourenco AP, Chung MT, **Mainiero MB**. Probably benign breast MRI lesions: frequency, lesion type and rate of malignancy. J Magn Reson Imaging 2014; 39(4):789-94

Original Publications in Peer-Reviewed Journals (continued)

25. Swenson DW, Ellermeier A, Dibble EH, Movson JS, Eggin TK, **Mainiero MB**. Review of outside studies by radiology residents: national survey of chief residents. *Emerg Radiol* 2014; 21(5):479-84
26. Partyka L, Lourenco AP, **Mainiero MB**. Detection of mammographically occult architectural distortion on digital breast Tomosynthesis screening: initial clinical experience. *AJR Am J Roentgenol* 2014; 203 (1): 216-22
27. Lourenco AP, Barry-Brooks M, Baird GL, Tuttle A, **Mainiero MB**. Changes in recall type and patient treatment following implementation of screening digital breast tomosynthesis. *Radiology* 2015; 274(2): 337-42
28. Tsang Mui Chung M, Lourenco AP, **Mainiero MB**. Screening breast MRI in women with a personal history of breast cancer. *Breast J.* 2016 Mar; 22(2):252-3
29. Dibble E, Lourenco AP, Baird GL, Ward R, Maynard A, **Mainiero MB**. Comparison of digital mammography and digital breast tomosynthesis in the detection of architectural distortion. *Eur Radiol* 2018; 28(1): 3-10
30. Swenson D, Movson J, Baird GL, **Mainiero MB**. Pilot study of a new comprehensive radiology report categorization (RADCAT) system in the emergency department. *EmergRadiol* 2018; 25 (2):139-145
31. DiPrete O, Lourenco AP, Baird GL, **Mainiero MB**. Screening digital mammography recall rate: does it change with digital breast tomosynthesis experience? *Radiology* 2018; 286 (3): 883-844
32. Singer T, Lourenco AP, Baird GL, **Mainiero MB**. Supplemental screening for women with dense breasts: what do practicing radiologists recommend? *J Breast Imaging* 2019; 1(1):32-36
33. Parikh JR, Sun J, **Mainiero MB**. Prevalence of Burnout in Breast Imaging Radiologists. *J Breast Imaging* 2020;2 (2): 112-118
34. Baird GL, Dibble EH, Mainiero MB, Miles RC, Lourenco AP. Dense breast notification letters: what do breast radiologists think? *J Breast Imaging*. Epub ahead of print April 2020

Other Peer-Reviewed Publications

1. **Mainiero MB** Mammographic screening-a review. *Medicine and Health, RI* 2001; 84; 28.
2. **Mainiero MB**. Responsibilities of the program director. *Acad Radiol* 2003; 10(suppl 1):S16-20

Other Peer-Reviewed Publications, cont.

3. **Mainiero MB**. Incorporating ACR practice guidelines, technical standards and appropriateness criteria into resident education. *J Am Coll Radiol* 2004; 1:277-279
4. **Mainiero MB**. Mentoring radiology residents: why, who, when and how. *J Am coll Radiol* 2007; 3:784-90
5. **Mainiero MB**, Woodfield CA. Resident moonlighting in radiology. *J Am Coll Radiol* 2008;6:766-9
6. **Mainiero MB**, Davis LP, Chertoff J. IOM duty hour recommendations and the response of the radiology community. *J Am Coll Radiol* 2010; 7:56-60
7. Deitte L, Chertoff J, **Mainiero MB**, Strife J, DeStigter K. Challenges and Opportunities in Restructuring Radiology Residencies: The APDR Residency Restructuring Committee Report. *J Am Coll Radiol* 2010; 7(7):507-11
8. **Mainiero MB**, Lourenco AP. The ACGME Core Competencies: Changing the way we educate and evaluate residents. *Medicine Health R I*. 2011 Jun; 94(6):164-6.
- 9.. **Mainiero MB**. The Generation Gap. *J Am Coll Radiol*. 2012; (12):545-5
10. Ward RC, **Mainiero MB**. Graduate Medical Education in the Era of Healthcare Reform. *J Am Coll Radiol* 2013; 10 (9): 708-12
11. Lourenco AP, **Mainiero MB**. Incorporating imaging into the locoregional control of breast cancer. *Semin Radiat Oncol*. 2016 Jan;26(1):17-24 Review
12. Ward RC, Wiggins DL, Donegan L, Collins S, Lourenco AP, **Mainiero MB**. BioZorb tissue marker as seen on multiple imaging modalities. *Breast J*. 2017 Aug 14 (Epub ahead of print)
- 13.. **Mainiero MB**, Parikh JR. Recognizing and overcoming burnout in breast imaging. *Journal of Breast Imaging* 2019;1(1):60-63
14. **Mainiero MB**, Omary RA, Norbash AM. Moving a National Medical Meeting in Response to California's Anti-Lesbian, Gay, Bisexual and Transgender Discrimination Travel Ban. *J Am Coll Radiol* 2019; 19:62-6
15. Ward RC, Lourenco AP, **Mainiero MB**. Ultrasound-guided Breast Cancer Cryoablation. *AJR Am J Roentgenol* 2019 Sep; 213 (3):716-22;
16. Ward RC, Wang Y, Lourenco AP, **Mainiero MB**. Symptomatic Fibroadenoma Resolves Status Post Cryoablation. *RI Med J* 2019 October; 42-44
17. **Mainiero MB**. Opinion: Breast imaging should stay part of diagnostic radiology. *Journal of Breast Imaging, Journal of Breast Imaging* 2019 Sep; 1(3): 251-25

Other Peer-Reviewed Publications, cont.

18. Carpentier BM, *Mainiero MB*. Champion Coaching: How to Teach Ultrasound-Guided Breast Procedures. *Journal of Breast Imaging* 2019 Dec; 1(4):338-341

19. Slantetz PJ, Omary RA, Mainiero MB, Deitte LA. Educating the Next Generation of Leaders in Radiology. *J Am Coll Radiol* 2020; Jan 28 Epub ahead of print

Non-Peer Reviewed Publications

1. *Mainiero MB*, Ahn SH, Auger J, Mayo-Smith WW. “Kay Vydareny Film Interpretation 17. Competition”. www.academicradiology.com/AR_2001/FilmPanel/Panel2001.htm. 2001

2. *Mainiero MB*, Moy L, Lourenco AP. Re: Molecular Breast Imaging Under Threat by Protecting Access to Medicare Act and ACR Appropriate Use Criteria. *J Am Coll Radiol* 2020 Feb 11. Epub ahead of print

Guidelines and Consensus Statements

1. Huynh PT, Lemeshko SV, Mahoney MC, Newell MS, Bailey L, Bark LD, D'Orsi C, Harvey JA, Hayes MK, Jokich PM, Lee S, Lehman CD, **Mainiero MB**, Mankoff DA, Patel SB, Reynolds HE, Southerland ML, Haffty BG. ACR Appropriateness Criteria. Stage 1 Breast Carcinoma. J Am Coll Radiol. 2012 Jul;9(7):463-7
2. **Mainiero MB**, Lourenco A, Mahoney MC, Newell MS, Bailey L, Barke LD, D'Orsi C, Harvey JA, Hayes MK, Huynh PT, Jokich PM, Lee SJ, Lehman CD, Mankoff DA, Nepute JA, Patel SB, Reynolds HE, Sutherland ML, Haffty BG. ACR Appropriateness Criteria Breast Cancer Screening. J Am Coll Radiol. 2013 Jan; 10(1):11-4
3. Harvey JA, Mahoney MC, Newell MS, Bailey L, Barke LD, D'Orsi C, Hayes MK, Jokich PM, Lee SJ, Lehman CD, **Mainiero MB**, Mankoff DA, Patel SB, Reynolds HE, Sutherland ML, Haffty BG. J Am Coll Radiol 2013 Oct 10 (10):742-9. ACR Appropriateness Criteria palpable breast masses
4. Moy L, Newell MS, Mahoney MC, Bailey L, Barke LD, Carkaci S, D'Orsi C, Goyal S, Haffty BG, Harvey JA, Hayes MK, Jokich PM, Lee SJ, **Mainiero MB**, Mankoff DA, Patel SB, Yepes MM. ACR Appropriateness Criteria stage 1 breast cancer: initial workup and surveillance for local recurrence and distant metastases in asymptomatic women. J Am Coll Radiol 2014 Dec 11 (12 Pt A): 1160-8
5. **Mainiero MB**, Lourenco AP, Barke LD, Argus AD, Bailey L, Carkaci S, D'Orsi C, Green ED, Holley SO, Jokich PM, Lee SJ, Mahoney MC, Moy L, Slanetz PJ, Trikha S, Yepes MM, Newell MS. ACR Appropriateness Criteria Evaluation of the symptomatic male breast. J Am Coll Radiol 2015 Jul; 12(7): 678-82

Guidelines and Consensus Statements, continued

6. Huynh PT, Lemeshko SV, Mahoney MC, Newell MS, Bailey L, Barke LD, D'Orsi C, Harvey JA, Hayes MK, Jokich PM, Lee SJ, Lehman CD, **Mainiero MB**, Mankoff DA, Patel SB, Reynolds HE, Sutherland ML, Haffty BG. ACR Appropriateness Criteria Stage 1 Breast Carcinoma. J Am Coll Radiol 2016 Nov; 13 (11s): e53-56

7. Moy L, Newell MS, Mahoney MC, Bailey L, Barke LD, Carkaci S, D'Orsi C, Goyal S, Haffty BG, Harvey JA, Hayes MK, Jokich PM, Lee SJ, **Mainiero MB**, Mankoff DA, Patel SB, Yepes MM. ACR Appropriateness Criteria Stage 1 Breast Cancer: Initial Workup and Surveillance for Local Recurrence and Distant Metastases in Asymptomatic Women. J Am Coll Radiol 2016 Nov; 13(11s) e43-52

8. Harvey JA, Mahoney MC, Newell MS, Bailey L, Barke LD, D'Orsi C, Hayes MK, Jokich PM, Lee SJ, Lehman CD, **Mainiero MB**, Mankoff DA, Patel SB, Reynolds HE, Sutherland ML, Haffty BG. ACR Appropriateness Criteria Palpable Breast Masses. J Am Coll Radiol. 2016 Nov (11s): e-31-e42.

9. **Mainiero MB**, Lourenco A, Mahoney MC, Newell MS, Bailey L, Barke LD, D'Orsi C, Harvey JA, Hayes MK, Huynh PT, Jokich PM, Lee SJ, Lehman CD, Mankoff DA, Nepute JA, Patel SB, Reynolds HE, Sutherland ML, Haffty BG. ACR Appropriateness Criteria Breast Cancer Screening. J Am Coll Radiol 2016 Nov; 13 (11S): R45-49.

Abstracts

1. **Mainiero MB**, Philpotts LE, Lee CH, Lange RC, Carter D, Tocino I. Stereotaxic Core Needle Biopsy of Breast Microcalcifications: Correlation of Target Accuracy and Diagnosis with Lesion Size. Society of Breast Imaging, March 1995
2. Lee CH, Egglin TK, **Mainiero MB**, Philpotts LE, Tocino I. Cost Effectiveness of Stereotaxic Core Biopsy: Analysis by Means of Mammographic Findings. Radiological Society of North America, November 1995.
3. **Mainiero MB**, Collins J, Primack SL. Effectiveness of Resident-prepared Conferences in Teaching Imaging Utilization Guidelines to Radiology Residents. Association of University Radiologists, March 1998
4. **Mainiero MB**, Schepps B, Gareen I, Bird CE. Comparison of Stereotactic and Ultrasound-guided Breast Biopsy with Respect to Procedure Time and Patient Satisfaction. Radiological Society of North America, November 2000
5. **Mainiero MB**, Koelliker SL, Lazarus E, Schepps B, Lee CH. Ultrasound-Guided Breast Biopsy: Indications for Immediate Excision to Avoid False Negative Results. American Roentgen Ray Society, May 2001
6. **Mainiero MB**; Jayaraman M, Mayo-Smith W; Lazarus E; Schepps B. Multi-Institutional Computer Database for Tracking Percutaneous Image-Guided Breast Procedures. American Roentgen Ray Society, April 2002
7. **Mainiero MB**, Schepps B, Lazarus E, Mayo-Smith WW. Improving mammographic quality in a large practice: are breast imaging specialists more efficient than general radiologists at interpreting screening mammograms? American Roentgen Ray Society, May 8, 2003
8. **Mainiero MB**; Mayo-Smith WW; Arruda WR; Schepps B. Mammography costs in an outpatient setting: can we afford to provide this service? Radiological Society of North America, December 2003
9. Lazarus E; **Mainiero MB**; Gareen IF. Influence of referring physician demographics on breast biopsy method. Radiological Society of North America, December 2003
10. Wolfe RA, **Mainiero MB**, Schepps B, Dipetrillo TA, Lazarus E. Mammographic findings in patients treated with brachytherapy for breast carcinoma. Radiological Society of North America, November 2004.
11. Lazarus E, **Mainiero MB**, Schepps B, Koelliker SL, Livingston LS. BI-RADS lexicon (4th edition) for mammography and ultrasound: Interobserver variability and positive predictive value. Radiological Society of North America, November 2004

Abstracts (continued)

12. Koelliker SL, Chung M, Steinhoff M, **Mainiero MB**, Cady B. Ultrasound and fine needle aspiration of axillary lymph nodes in initial staging of breast cancer. Radiological Society of North America, November 2004
13. Lazarus E, Mayo-Smith WW, **Mainiero MB**. Abdominal pain in pregnant women: computed tomography or ultrasound? Radiological Society of North America, November 2004
14. Lourenco AP, **Mainiero MB**, Lazarus E, Schepps B. Stereotactic Breast Biopsy: Comparison of histologic underestimation rates with 11- and 9-gauge vacuum-assisted breast biopsy. Radiological Society of North America, November 2005
15. Lazarus E, Mayo-Smith WW, **Mainiero MB**, Biffl W. Does trauma ultrasound reduce the need for computed tomography in pregnant patients after abdominal trauma? Radiological Society of North America, November 2005
16. **Mainiero MB**, Shapiro M, Murphy B. Use of High Fidelity Medical Simulation in Education and Evaluation of Radiology Residents in Contrast Reaction Management. 54th Annual Meeting of the Association of University Radiologists, April 2006
17. Boiselle PM, **Mainiero MB**. Electronic vs. Paper Resident Evaluation Systems: A Survey of APDR Members. 54th Annual Meeting of the Association of University Radiologists, April 2006
18. Lourenco AP, **Mainiero MB**. Prevalence and Significance of Non-breast Findings on Breast MR. Radiological Society of North America, November 2006
19. Tredennick T; **Mainiero MB**, Lourenco AP; Lazarus E. Reasons for Cancellation of MR guided breast biopsy: Correlation of patient and lesion characteristics with likelihood of biopsy cancellation. Annual Meeting of the American Roentgen Ray Society, May 8, 2007
20. Koelliker S, **Mainiero MB**, Barlow P, Dizon DS, Gass JS. The Yield of “Second Look” Imaging Review of Patients Presented at Breast Cancer Tumor Board. Annual Meeting of the American Roentgen Ray Society May 8, 2007
21. Cinelli C, **Mainiero MB**, Koelliker S. Cortical thickness measurement as an indicator for ultrasound-guided fine needle aspiration of axillary lymph nodes in breast cancer patients. American Roentgen Ray Society Annual Meeting April 14, 2008
22. Abramovici G, **Mainiero MB**. Screening Breast MRI: Comparison of Interpretation of Baseline and Annual Follow-up Studies. Scientific Presentation Radiological Society of North America, December 1, 2009

Abstracts (continued)

23. Lourenco AP, Chung M, **Mainiero MB**. Targeted Second Look Ultrasound for BI-RADS 3 Lesions on MRI. Scientific Presentation Radiological Society of North America. November 2010
24. Chung M, Lourenco AP, **Mainiero MB**. Probably Benign Breast MRI Lesions: Is “Probably” Good Enough. Scientific Presentation Radiological Society of North America, November 29, 2010
25. Khalil HI, Lourenco AP, Donegan LM, Hillstrom MM, Lazarus E, **Mainiero MB**. High-Risk Lesions at MR-guided Breast Biopsy: Frequency and Rate of Underestimation. Scientific Presentation Radiological Society of North America, November 30, 2011
26. Lourenco A, Rothschild J, **Mainiero MB**. Mammography Recall Rate: Does Practice Site Matter? Scientific Presentation Radiological Society of North America. November 25, 2012
27. Tsang Mui Chung M, Lourenco A, **Mainiero MB**. Screening Breast MRI in Women with a Personal History of Breast Cancer. Scientific Poster Presentation Radiological Society of North America. November 28, 2012.
28. Swenson D, Ellermeier A, Dibble E, Movson J, Eggin T, **Mainiero MB**. Review of outside studies by radiology residents. American Society of Emergency Radiology. October 12, 2013
29. D’Amico K, Lourenco AP, Partyka LM, **Mainiero MB**. Cancer yield of architectural distortion detected on screening tomosynthesis. Scientific Presentation Radiological Society of North America. December 2, 2014.
30. Kalife E, Lourenco AP, Resnick M, **Mainiero MB**, Wang Y. Radial sclerosing lesions without atypia on core needle breast biopsy: excision or observation? Scientific Presentation Radiological Society of North America. December 3, 2014
31. Swenson DW, **Mainiero MB**, Baird GL, Portelli DC, Movson JS. Pilot study of a global radiology report categorization scheme (RADCAT) system in the emergency department. Radiological Society of North America. December 1, 2015
32. Dibble EH, Lourenco AP, Baird GL, Ward RC, Maynard AS, **Mainiero MB**. Interobserver variability in detection of architectural distortion: comparison of digital mammography and digital breast tomosynthesis. Dibble EH, Lourenco AP, Baird GL, Ward RC, Maynard AS, **Mainiero MB**. Radiological Society of North America. November 2016
33. DeMello L, Lourenco AP, **Mainiero MB**, Ward RC. Freezing instead of Excising: Cryoablation for Breast Cancer-How it’s Done. Radiological Society of North America. November 27, 2018
34. Chung, M., Baird, GL, **Mainiero, MB**, Lee, J, Ward, RC, DeMello, L, Carpentier, BM, Ram, S., Lourenco, AP. Reliability of Architectural Distortion Measurements Using Digital Breast Tomosynthesis. Association of University Radiologists. Baltimore, Maryland. April 11, 2019.

35. Makwana A, Dibble EH, Lourenco AP, Ward RC, *Mainiero MB*. Supplemental Dense Breast Screening with Ultrasound versus Abbreviated MRI in Non-High Risk Women. American Roentgen Ray Society Annual Meeting. May 7, 2020

Invited Presentations

1. Stereotaxic Core Needle Biopsy of Breast Microcalcifications
Yale University School of Medicine
New Haven, CT
October 1995.
2. Breast Imaging Film Panel
New England Roentgen Ray Society
Boston, MA
February 1996.
3. Update in Thoracic Imaging
Grand Rounds, Department of Medicine
Rhode Island Hospital
August 1996
4. Stereotactic Biopsy of Microcalcifications: Problems and Solutions
17th Annual Symposium on Diagnostic Imaging, Brown University School of Medicine
Newport, RI
August 1996
5. Stereotactic Core Biopsy- Hands On Workshop
17th Annual Symposium on Diagnostic Imaging, Brown University School of Medicine
Newport, RI
August 1996
6. Interventional Breast Ultrasound
18th Annual Symposium on Diagnostic Imaging, Brown University School of Medicine
Newport, RI
August 1997
7. Stereotactic Core Biopsy- Hands On Workshop
17th Annual Symposium on Diagnostic Imaging, Brown University School of Medicine
Newport, RI
August 1997
8. Interventional Breast Ultrasound
19th Annual Symposium on Diagnostic Imaging, Brown University School of Medicine
Newport, RI. August 1998

Invited Presentations (continued)

9. Stereotactic Core Biopsy- Hands On Workshop
17th Annual Symposium on Diagnostic Imaging, Brown University School of Medicine
Newport, RI
August 1998
10. Interventional Breast Ultrasound
19th Annual Symposium on Diagnostic Imaging, Brown University School of Medicine
Newport, RI
August 1999
11. Ultrasound-Guided Biopsy- Hands On Workshop
19th Annual Symposium on Diagnostic Imaging, Brown University School of Medicine
Newport, RI
August 1999
12. Ultrasound-Guided Breast Intervention
New England Roentgen Ray Society's Mammography Refresher Course
Boston, MA
March 2000
13. Breast Ultrasound: Diagnosis and Intervention
Cincinnati Radiological Society
March 2001
14. Presenter of Unknown Cases: 10th Annual Kay Vydareny Film Interpretation
Competition
Association of University Radiologists
Toronto, Canada May 2001
15. Airway Diseases
Grand Rounds, Department of Radiology
University of Connecticut
November 13, 2002
16. Pulmonary Vascular Abnormalities
Grand Rounds, Department of Radiology
University of Connecticut
November 13, 2002
17. Diagnostic and Interventional Breast Ultrasound
New England Roentgen Ray Society Annual Ultrasound Refresher Course
Waltham, MA
March 2003

Invited Presentations (continued)

18. Responsibilities of the Program Director
51st Annual Meeting of the Association of University Radiologists
Miami, Florida
April 12, 2003
19. Responsibilities of the Program Director
52nd Annual Meeting of the Association of University Radiologists
San Francisco, California
April 24, 2004
20. Presenter of Unknown Cases: 13th Annual Kay Vydareny Film Interpretation
Competition
52nd Annual Meeting of the Association of University Radiologists
San Francisco, California
April 2004
21. The Role of US in the detection of breast cancer
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
May 1, 2004
23. Breast MRI: Advances in Breast Cancer Diagnosis
Grand Rounds
Women and Infants' Hospital
Providence, Rhode Island
March 3, 2005
22. Incorporating ACR Practice-guidelines, Technical Standards and Appropriateness
Criteria into Resident Education.
53rd Annual Meeting of the Association of University Radiologists
Montreal, Canada
May 2005
23. Pathology as demonstrated on Breast Imaging
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
April 29, 2006
24. The Role of MRI of the Breast in Screening, Diagnosis and Surgical Selection
American Society of Breast Disease Interdisciplinary Program on Breast Cancer
Mashantucket, Connecticut
October 21, 2006

Invited Presentations (continued)

25. Mentoring Radiology Residents
Radiology Society of North America Annual Meeting
Chicago, Illinois
November 28, 2006
26. When to do MRI of the Breast
Grand Rounds, Newport Hospital
Newport, Rhode Island
May 4, 2007
27. Breast Ultrasound: Diagnosis and Intervention
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
June 2, 2007
28. US-Guided Fine Needle Aspiration of the Axilla in Staging of Patients with Breast
Cancer
Breast Imaging course, Massachusetts Medical Society
Waltham, MA
March 8, 2008
27. Responsibilities of the Program Director
Association of University Radiologists Annual Meeting
Seattle, WA
March 25, 2008
28. Mentoring
Association of University Radiologists Annual Meeting
Seattle, WA
March 28, 2008
29. ACR Initiatives in Systems-based Practice Education
Association of University Radiologists Annual Meeting
Seattle, WA
March 29, 2008
30. Imaging the Breast Cancer Patient
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
April 26, 2008

Invited Presentations (continued)

31. Breast MR Case-based Imaging Review
American Roentgen Ray Society Meeting
Washington, D.C.
April 17, 2008
32. Ultrasound-guided Fine Needle Aspiration of the Axilla for Initial Staging of Patients With Breast Cancer
Department of Radiology, Breast Imaging Section
Brigham and Women's Hospital
Boston, MA
September 22, 2008
33. The Radiology Residency Program Director's Perspective on the Transitional Year
Association of Hospital Medical Education Annual Meeting
Savannah, Georgia
April 17, 2009
34. Early Detection of Breast Cancer
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
April 25, 2009
35. Managing the Axilla
The New England Roentgen Ray Society Annual Refresher Course
Waltham, MA
March 6, 2010
36. Imaging the Axilla and Internal Mammary Nodes
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
May 1, 2010
37. Staging Regional Lymph Nodes in the Breast Cancer Patient
Grand Rounds, Department of Radiology
Weill Cornell Medical College
New York, New York
May 4, 2010
38. Breast Cancer Screening: The Mammography Controversy
Panel Discussion
RI Chapter Scientific Meeting, American College of Physicians
Warwick, RI
May 13, 2010

Invited Presentations (continued)

39. Changes in Residency Education: Challenges and Opportunities
Grand Rounds, Department of Radiology
Beth Israel-Deaconess Medical Center
Boston, MA
October 8, 2010
40. Diagnostic Strategies in Breast Imaging
Brown University Advances in Breast Cancer Management Symposium
Providence, RI
November 18, 2010
41. Breast Imaging and Pathology Correlation
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
April 30, 2011
42. Breast Biopsy Tips and Tricks: Roundtable with the Experts
Society of Breast Imaging's 10th Postgraduate Course
San Antonio, Texas
May 20, 2011
43. Ultrasound of the Axilla
Refresher Course, Radiological Society of North America
Chicago, Illinois
November 29, 2011
44. Breast MRI-Challenging Cases
New England Roentgen Ray Society Refresher Course
Waltham, MA
March 3, 2012
45. Integrating Digital Breast Tomosynthesis into Screening Mammography
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
April 28, 2012
46. Digital Breast Tomosynthesis
Avenues of Healing, Lifespan Comprehensive Cancer Center
Warwick, RI
October 13, 2012

Invited Presentations (continued)

47. Radiology Residency Training 2012: The US Perspective
Radiological Society of North America Annual Meeting
Chicago, IL
November 25, 2012
48. Breast Pathology: Correlation with mammography, ultrasound and MRI
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
May 4, 2013
49. Imaging the Axilla: What the Breast Imager Needs to Know
American Roentgen Ray Society Breast Imaging Symposium
Phoenix, Arizona
September 19, 2013
50. Multimodality Problem Solving
American Roentgen Ray Society Breast Imaging Symposium
Phoenix, Arizona
September 19, 2013
51. Biopsy Pearls and Pitfalls
American Roentgen Ray Society Breast Imaging Symposium
Phoenix, Arizona
September 20, 2013
52. Biopsy Pearls and Pitfalls
New England Roentgen Ray Society Breast Refresher Course
Waltham, MA
March 1, 2014
53. Biopsy Pearls and Pitfalls
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
April 12, 2014
54. Supplementary Breast Cancer Screening
Refresher Course on Breast and Gynecologic Cancer
Warren Alpert Medical School of Brown University
November 8, 2014

Invited Presentations (continued)

55. Image Wisely: Radiation Dose in Mammography
Grand Rounds, Department of Radiology
Beth Israel Deaconess Medical Center
Boston, MA
April 10, 2015

49. Image Wisely: Radiation Dose in Mammography
Refresher Course
Society of Breast Imaging
Orlando, Florida
April 25, 2015

50. Image Wisely: Radiation in Breast Imaging
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
June 6, 2015

50. BI-RADS Update
Refresher Course
Society of Breast Imaging
San Diego, CA
April 7, 2016

51. BI-RADS: The Language of Breast Imaging
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
April 23, 2016

52. The Treated Breast
Annual Breast Imaging Symposium Refresher Course
New England Roentgen Ray Society
Waltham, MA
March 4, 2017

53. Lymph Node Assessment and Management
Refresher Course
Society of Breast Imaging
Los Angeles, CA
April 8, 2017

Invited Presentations (continued)

54. Evaluation and Management of the Axilla
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
April 22, 2017

55. Anti-LGBT Religious Freedom Laws: How should academic medicine respond?
Grand Rounds, Department of Radiology
Vanderbilt University
Nashville, TN
March 28, 2018

56. Breast Imaging Quality Improvement
Annual Breast Imaging Seminar
Rhode Island Hospital School of Diagnostic Imaging
Providence, RI
April 29, 2018

57. LGBT Related State Laws: How Can Academic Radiology Respond
Association of University Radiologists Annual Meeting
Orlando, FL
May 7, 2018

58. Recognizing and Overcoming Burnout
Society of Breast Imaging Annual Meeting
Hollywood, FL
April 5, 2019

59. Sponsorship vs. Mentorship
Association of University Radiologists Annual Meeting
Baltimore, MD
April 10, 2019

60. Developing a Flipped Classroom Workshop: From Soup to Nuts
Radiological Society of North America
Chicago, IL
December 3, 2019

Educational Exhibits

1. Breast Imaging Case of the Day
Radiological Society of North America
Chicago, IL
November 1999
2. Multi and Single-detector Helical CT for imaging Thoracic Vascular Malformations
Radiological Society of North America
Chicago, IL
November 2000
3. Breast Imaging Case of the Day
Radiological Society of North America
Chicago, IL
November 2001
4. Sonographic Evaluation of the Axilla
Radiological Society of North America
Chicago, IL
November 2005
5. MR guided breast interventions
Radiological Society of North America
Chicago, IL
November 2007
6. Architectural distortion detected by breast tomosynthesis
Radiological Society of North America
Chicago, IL
November 2015
7. Coarse vs. Coarse heterogeneous calcifications: Do these need a biopsy?
Radiological Society of North America
Chicago, IL
November 2017
8. Freezing Instead of Excising: Cryoablation for Breast Cancer-How It's Done
Radiological Society of North America
Chicago, IL
November 2018
9. A Hands-on Approach to Teaching the Breast Imaging Medical Audit to Radiology Residents
Society of Breast Imaging
Denver, CO
April 2020

Grants

Lifespan Developmental Grants Program

Relative Cost and Patient Perception of Imaging Guided Breast Biopsy: Comparison of Stereotactic and Ultrasound Guidance.

Funded \$8,200 on 3/98

Role (PI)

Alliance A011104/ACRIN 6694

Bedrosian (PI)

07/01/15-Present

Effect of Preoperative Breast MRI on Surgical Outcomes, Costs and Quality of Life of Women with Breast Cancer

The goal of this study is to compare the rates of local-regional recurrence (LRR) following attempted breast conserving therapy in a cohort of women with triple negative or HER-2 amplified breast cancer randomized to preoperative staging with mammography (control arm) or mammography plus breast MRI (MRI arm).

Role: (Co-I) Funding \$4000

EA1141

Comstock (PI)

12/1/16- Present

Comparison of Abbreviated Breast MRI and Digital Breast Tomosynthesis in Breast Cancer Screening in Women with Dense Breasts

The goal of this study is to compare the rates of detection of invasive cancers between the initial Abbreviated Breast -MR and Digital Breast Tomosynthesis.

Role: (Co-I). Funding per patient \$1500, anticipate \$75,000

University Teaching

Medical School Courses

Biomed 629: I supervise and instruct third and fourth year medical students on the general radiology elective at Rhode Island Hospital.

BIOL5400 Community Health Clerkship: I have mentored six medical students doing projects in breast imaging for this clerkship. These have included three different projects involving screening breast MRI in high risk patients, one project involving physician compliance with mammography screening guidelines, one project evaluating an algorithm to for the evaluation of the axilla in patients with breast cancer and one project evaluating the recall rate of mammography as a function of practice location. The medical students presented four abstracts and published three papers from these projects.