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CURRICULUM VITAE

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EDUCATION

Undergraduate                        Princeton University  
Princeton, NJ  
B.A. (*Physics*)  
June 1988

Medical School                        The Johns Hopkins School of Medicine  
Baltimore, MD  
M.D.  
Aug 1989-June 1996 (June 1996)  
Alpha Omega Alpha

Graduate                                The Johns Hopkins School of Medicine  
Baltimore, MD  
Ph.D. (*Biomedical Engineering—Cardiac MRI*)  
Aug 1989-June 1996 (June 1996)

POST-GRADUATE TRAINING

Internship                              The Beth Israel Hospital  
Boston, MA  
Medicine  
1996-1997

Research Fellowship                The Massachusetts General Hospital  
Boston, MA  
Post-doctoral Research Fellow  
Radiology Research Division (*Cardiac MRI*)  
1997-1998

Residency	The Johns Hopkins Hospital Baltimore, MD Diagnostic Radiology 1998-2002 (Chief Resident, 2001-2002)
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Fellowship	The Johns Hopkins Hospital Baltimore, MD Cross-sectional Imaging 2002-2003
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## HONORS AND AWARDS

### Princeton University

1987	Finalist for The Rhodes Scholarship
1986-1988	Varsity Lightweight Crew, National Champions '86 & '88; Captain '88

### The Johns Hopkins School of Medicine

1991-1996	<b>Medical Scientist Training Program</b> , scholarship awarded by the NIH to qualifying M.D./Ph.D. candidates covering tuition, stipend, travel, and insurance
1993	<b>Paul Lauterbur Award</b> for Outstanding Research in MRI; Highest research prize (\$15k), Society of Computed Body Tomography & Magnetic Resonance ("ABSTRACTS" #2, p. 14)
1996	<b>Alpha Omega Alpha</b> , Honor Medical Society, Johns Hopkins Chapter

### The Johns Hopkins Hospital Department of Radiology

2001-2002	<b>Chief Resident</b> , The Johns Hopkins Department of Radiology
2003	<b>Fellow Teaching Award</b> , selected by Johns Hopkins Radiology Residents

### Brown University / Rhode Island Hospital

2010	Recognized as a <b>Fellow of the Society of Cardiovascular Computed Tomography (FSCCT)</b>
2011	<b>Certificate of Recognition</b> for exemplary teaching in BIOL 3662 IMS III: Cardiovascular, Alpert Medical School of Brown University

2013	<b>Certificate of Recognition</b> for exemplary teaching in BIOL 3662 IMS III: Cardiovascular, Alpert Medical School of Brown University
2016	<b>Certificate of Recognition</b> for exemplary teaching in BIOL 3662 IMS III: Cardiovascular, Alpert Medical School of Brown University
2018	Recognized as a <b>Fellow of the Society of Cardiovascular Magnetic Resonance (FSCMR)</b> , 1st year offered
2018	Recognized as a <b>Fellow of the American College of Radiology (FACR)</b>
2019	<b>Rhode Island Top Doctor (Radiology)</b> —Rhode Island Monthly
2019	<b>Certificate of Recognition</b> for exemplary teaching in BIOL 3662 IMS III: Cardiovascular, Alpert Medical School of Brown University
2025	<b>Rhode Island Top Doctor (Radiology)</b> —Rhode Island Monthly

#### PROFESSIONAL LICENSES AND BOARD CERTIFICATION

2002-Present	American Board of Radiology
2003-Present	Medical license, State of Rhode Island, No. MD11156
2008	Level III certification, Society of Cardiovascular Computed Tomography (SCCT)

#### ACADEMIC APPOINTMENTS

2003-2012	Assistant Professor of Diagnostic Imaging and Medicine (Cardiology) Teaching Scholar Track Alpert Medical School of Brown University
2012-Present	Associate Professor of Diagnostic Imaging and Medicine (Cardiology) Teaching Scholar Track Alpert Medical School of Brown University
2021-Present	Professor of Diagnostic Imaging and Medicine (Cardiology) Teaching Scholar Track Alpert Medical School of Brown University

#### HOSPITAL APPOINTMENTS / POSITIONS

2003-Present	Attending Physician Department of Diagnostic Imaging Rhode Island Hospital, Providence, RI
2003-Present	Attending Physician The Miriam Hospital, Providence, RI
2003-Present	Attending Physician Women & Infants Hospital, Providence, RI
2003-Present	Director, Cardiac MRI and CT Department of Diagnostic Imaging Rhode Island Hospital, Providence, RI
2015-Present	Attending Physician Roger Williams Medical Center, Providence, RI
2015-Present	Attending Physician St. Joseph's Health Services, North Providence, RI
2015-2025	Vice Chair (formerly 'Director') of Imaging Research Department of Diagnostic Imaging Rhode Island Hospital, Providence, RI <i>Oversaw all aspects of the Division of Imaging Research, including operations, finances, Ph.D. 's, support staff, &amp; funded research; Run monthly meetings with research support staff and quarterly Division Research Meetings; Report Division activity at quarterly Department-wide meetings.</i>
2015-2025	Lifespan Research Administration Committee Department of Diagnostic Imaging Rhode Island Hospital, Providence, RI
2019-2025	Director of the Advanced Imaging Lab Department of Diagnostic Imaging Rhode Island Hospital, Providence, RI
2021-Present	Attending Physician Newport Hospital, Newport, RI
2022-Present	Attending Physician Kent County Hospital, Warwick, RI
2022-Present	Director of the Brown Radiology Human Factors Lab Department of Diagnostic Imaging

OTHER APPOINTMENTS / POSITIONS

2007-2011	Member, Expert Panel, American College of Radiology, appropriateness criteria for cardiovascular imaging
2007-2016	Member, Scientific Program Subcommittee, Cardiopulmonary section, Annual Scientific Meeting, American Roentgen Ray Society (ARRS) <i>Primary responsibility: Scientific conference abstract and electronic submission reviewer &amp; conference moderator</i>
2008-2009	<b>Chair</b> , Cardiopulmonary Imaging section, Annual Scientific Meeting, American Roentgen Ray Society (ARRS)
2011-2016	Member, US Chapter Group (2 radiologists/4 cardiologists), Society of Cardiovascular Magnetic Resonance (SCMR). <i>Aim:</i> To develop and advise Society policy. Appointed by SCMR President, Scott Flamm, M.D.
2011-2014	Member, SCMR Examination Board (International group of 12 cardiologist, radiologists, and research scientists) <i>Aim:</i> To generate a large collection of test questions to use in a standardized, international examination of competency in cardiovascular MRI. Chair: Sven Plein M.D./Ph.D. UK
2012-2016	<b>Chair</b> , Cardiac Imaging section, Annual Scientific Meeting, American Roentgen Ray Society (ARRS)
2020-2023	Member, Cardiac Subcommittee of the Scientific Program, Radiological Society of North America (RSNA) <i>Primary responsibility: Annual abstract review</i>
2021	Abstract Reviewer, Society of Cardiovascular Magnetic Resonance (SCMR) Virtual Scientific Session 2021
2021-2022	Publications Committee, Society of Cardiovascular Magnetic Resonance (SCMR)
2022-2025	Abstract Reviewer, Cardiovascular section, Radiological Society of North America (RSNA)
2022-2025	Annual Program Meeting Committee, International Society of Magnetic Resonance in Medicine (ISMRM)

HOSPITAL COMMITTEES

2004-2005	Member, Education Committee, Department of Diagnostic Imaging, Brown/Rhode Island Hospital <i>Primary responsibility: Resident applicant interviews</i>
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2011	Member, Search Committee for Electrophysiology Director, Department of Medicine, Brown/Rhode Island Hospital
2011	Member, Search Committee for Staff Electrophysiologist, Department of Medicine, Brown/Rhode Island Hospital
2014-2018	Member, Education Committee, Department of Diagnostic Imaging, Brown/Rhode Island Hospital
2015	Member, Search Committee for Electrophysiology Director, Department of Medicine, Brown/Rhode Island Hospital
2019	Member, Search Committee for Staff Cardiologists, Department of Medicine, Brown/Rhode Island Hospital, FH-1521
2020-2024	Member, Medical Physics Steering Committee, Brown/Rhode Island Hospital, Chair: Eric Klein M.D.
2021-2022	Member, Search Committee Director of Echocardiography, Department of Medicine, Brown/Rhode Island Hospital

#### JOURNAL REVIEWER (ad hoc)

2006-Present	American Journal of Cardiology
2009-Present	American Journal of Roentgenology
2011-Present	Circulation: Cardiovascular Interventions
2014-Present	Heart Rhythm, <b>Recognized Reviewer 2017, 2020</b>
2015-Present	The Journal of Thoracic and Cardiovascular Surgery
2015-Present	The Journal of the American Heart Association
2016-Present	European Journal of Radiology, <b>Recognized Reviewer 2017</b>
2020-Present	Journal of the American College of Cardiology: Cardiovascular Imaging
2020-Present	Circulation: Cardiovascular Imaging
2020-Present	Abdominal Radiology

#### MEMBERSHIP IN SOCIETIES

1998-Present	Radiological Society of North America (RSNA)
1998-Present	American Roentgen Ray Society (ARRS)
2003-Present	Rhode Island Radiological Society (RIRS), Local Chapter of the American Radiological Society (ARS)
2014-2015	<b>Secretary</b>
2015-2016	<b>Treasurer</b>
2016-2017	<b>Vice President</b>

2017-2018	<b>President</b>
2004-Present	Society of Cardiovascular Magnetic Resonance (SCMR)
2006-Present	Society of Cardiovascular Computed Tomography (SCCT)

#### ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. **Atalay MK**, Forder JR, Chacko VP, Kawamoto S, Zerhouni EA. Oxygenation in the rabbit myocardium: Assessment by susceptibility dependent magnetic resonance imaging. *Radiology*. 1993; 189(3):759-764. PMID: 8234701.
2. Judd RM, **Atalay MK**, Rottman GA, Zerhouni EA. Effects of myocardial water exchange on T1 enhancement during bolus administration of MR contrast agents. *Magn Reson Med*. 1995;33(2):215-223. PMID: 7707912.
3. **Atalay MK**, Reeder SB, Zerhouni EA, Forder JR. Blood oxygenation dependence of tissue relaxation parameters T1 & T2 in the isolated, perfused rabbit heart at 4.7T. *Magn Reson Med*. 1995;34(4):623-627. PMID: 8524032.
4. Reeder SB, **Atalay MK**, McVeigh ER, Zerhouni EA, Forder JR. Quantitative cardiac perfusion: A noninvasive spin-labeling method exploiting coronary vessel geometry. *Radiology*. 1996;200(1):177-184. PMID: 8657907.
5. **Atalay MK**, Poncelet BP, Kantor HL, Brady TJ, Weisskoff RM. Cardiac susceptibility artifacts due to the heart-lung interface. *Magn Reson Med*. 2001;45(2):341-345. PMID: 11180442.
6. **Atalay MK**, Bluemke DA. Magnetic resonance imaging of large vessel vasculitis. *Curr Opin Rheumatol*. 2001;13(1):41-47. PMID: 11148714.
7. Posteraro AE, **Atalay MK**, Double inlet left ventricle with transposition of the great vessels. *Med Health RI*. 2004;87(6):182. PMID: 15344674.
8. **Atalay MK**. Establishing a Cardiac MRI program: problems, pitfalls, and expectations. *J Am Coll Radiol*. 2005;2(9):740-748. PMID: 17411921.
9. **Atalay MK**. Evaluation of the cardiac surgery patient by MRI and CT imaging: The state of the art. *Med Health RI*. 2006;89(1):14-19. PMID: 16519200.
10. **Atalay MK**, Prince EA, Cronan JJ. Referral patterns to a cardiac MRI service: Who sends what? *J Am Coll Radiol*. 2008;5(5):638-643. PMID: 18442769.
11. Hopkins R, Gitter H, Stave J, Bert A, **Atalay M**. Stable partial dehiscence of aortic homograft inserted freehand by using the subcoronary intra-aortic root noncoronary sinus Ross scallop inclusion technique. *J Thorac Cardiovasc Surg*. 2008;135(1):214-216. PMID: 18179949.
12. Kochilas L, Gundogan F, **Atalay M**, Bliss JM, Vatta M, Pena LS, Abuelo D. A

- novel mutation of the fibrillin-1 (FBN1) gene in a newborn with severe Marfan syndrome. *J Perinatol*. 2008;28(4):303-305. PMID: 18379569.
13. Taner AT, **Atalay MK**, Gutman NH. Chest pain as the presenting features of high output heart disease due to congenital arteriovenous malformation. *Med Health RI*. 2008;91(10):320. PMID: 19044108.
  14. **Atalay MK**. Cardiac MRI & CT: The state of the art. *US Radiology*. 2008;1(1): 34-39.
  15. Kern J, Modi R, **Atalay MK**, Kochilas L. Clinical myocarditis masquerading as acute coronary syndrome. *J Pediatr* 2009; 154(4):612-5. PMID: 19324224.
  16. **Atalay MK**, Taner AT. Gradual enhancement of a large left atrial papillary fibroelastoma at cardiac MRI: The waiting game. *Tex Heart Inst J*. 2010;37(5):612-613. PMID: 20978584.
  17. **Atalay MK**, Haji-Momenian S, Grand DJ. Three contrast injection protocols for ECG-gated 64-slice CT angiography: Comparing vessel density and perceived quality. *J Comput Assist Tomogr*. 2010;34(5):660-665. PMID: 20861766.
  18. Casserly B, **Atalay MK**, Poppas A, Klinger JR, Abu-Hijleh M. An unusual cause of chest pain. Diagnosis: Cor triatriatum sinistrum with secondary unilateral pulmonary venous hypertension and right lung hypoplasia. *Thorax* 2011; 66(4):285-286. PMID: 21071763.
  19. Choudhary G, **Atalay MK**, Ritter N, Shin V, Grand D, Pearson C, Kirchner RM, Wu WC. Interobserver reliability in the assessment of coronary stenoses by multi-detector computed tomography. *J Comput Assist Tomogr*. 2011;35(1): 126-134. PMID: 21245698.
  20. **Atalay MK**, Walle NL, Grand DJ, Mayo-Smith WW, Cronan JJ, Egglin TK. Scan length optimization for pulmonary embolism at CT angiography: Analysis based on the 3-dimensional spatial distribution of 370 emboli in 100 patients. *Clin Radiol*. 2011;66(5):405-411. PMID: 21300329.
  21. **Atalay MK**, Kochilas L. Familial pseudocoarctation of the aorta. *Pediatr Cardiol*. 2011;32(5):692-695. PMID: 21347833.
  22. **Atalay MK**, Prince EA, Pearson CA, Chang KJ. The prevalence and clinical significance of non-cardiac findings at cardiac MRI. *AJR Am J Roentgenol*. 2011;196(4):W387-393. PMID: 21427301.
  23. Boyer WB, **Atalay MK**, Sharaf BL. Left main pseudoaneurysm following post-partum coronary dissection. *Circ Cardiovasc Interv*. 2011;4(3):303-305. PMID: 21673324.



24. Grand DJ, **Atalay M**, Cronan JJ, Mayo-Smith WW, Dupuy DE. CT-guided percutaneous lung biopsy: Comparison of conventional CT fluoroscopy to CT fluoroscopy with electromagnetic navigation system in 60 consecutive patients. *Eur J Radiol*. 2011;79(2):e133-136. PMID: 21680125.
25. **Atalay MK**, Walle NL, Egglin TK. The prevalence and nature of excluded findings at reduced scan length CT angiography for pulmonary embolism. *J Cardiovasc Comput Tomogr*. 2011;5(5):325-332. PMID: 21930104.
26. Earls JP, White RD, Woodard PK, Abbara S, **Atalay MK**, Carr JJ, Haramati LB, Hendel RC, Ho VB, Hoffman U, Khan AR, Mammen L, Martin ET 3rd, Rozenshtein A, Ryan Thomas, Schoepf J, Steiner RM, White CS. Appropriateness Criteria Chronic Chest Pain—High Probability of Coronary Artery Disease. *J Am Coll Radiol*. 2011;8(10):679-686. PMID: 21962781.
27. Bergman B, Okolo J, **Atalay MK**, Abbott JD. Utility of noninvasive imaging in suspected saphenous vein graft aneurysm thrombosis. *Circ Cardiovasc Interv*. 2011;4(5):e36-37. PMID: 22010194.
28. Fernandez AB, Leitner J, Okolo J, **Atalay MK**, Goldstein L, Abbott JD. Value of cardiovascular magnetic resonance in suspected cardiac amyloidosis. *J Cardiovascular Medicine*. 2012;13(9):590-592. PMID: 22306785.
29. Bettman MA, Baginski SG, White RD, Woodard PK, Abbara S, **Atalay MK**, Dorbala S, Haramati LB, Hendel RC, Martin ET 3rd, Ryan T, Steiner RM. Appropriateness Criteria Acute Chest Pain—Suspected Pulmonary Embolism. *J Thorac Imaging*. 2012;27(4):W28-31. PMID: 22343403.
30. **Atalay MK**, Stockwell P, Feit L. Cardiac CT angiography of an anomalous intramuscular left main coronary artery. *Med Health RI*. 2012;95(2):46-47. PMID: 22474874.
31. Truesdell AG, Delgado GA, Li J, Abbott JD, **Atalay MK**, Singh AK. Challenges in the management of postpartum spontaneous coronary artery dissection: an illustrative case series and review of the literature. *Interventional Cardiology* 2012;4(3):371-386. <https://www.openaccessjournals.com/articles/challenges-in-the-management-of-postpartum-spontaneous-coronary-artery-dissection.html>
32. **Atalay MK**, Schneider F. Cardiac magnetic resonance imaging of burned-out hypertrophic cardiomyopathy. *Med Health RI*. 2012;95(5):143. PMID: 22808630.
33. **Atalay MK**, Poppas A. Cardiac CT angiography findings in paradoxical coronary artery embolism. *Med Health RI*. 2012;95(5):141-142. PMID: 22808629.
34. Mudge CS, Healey TT, **Atalay MK**, Pezzullo JA. Feasibility of detecting

- pulmonary embolism using noncontrast MRI. *ISRN Radiology*. 2013; vol. 2013:1-5. Article ID 729271. PMID: 24967277.
35. **Atalay MK**, Chang KJ, Grand DJ, Hajimomenian S, Machan JT, Sheehan FH. The transaxial orientation is superior to both the short axis and horizontal long axis orientations for determining right ventricular volume and ejection fraction using Simpson's method with cardiac magnetic resonance. *ISRN Cardiology*. 2013; vol. 2013. 9 pages. PMID: 23691358.
  36. Lorvidhaya P, Mendoza I, Sehli S, **Atalay MK**, Kim MH. Prospective evaluation of cinefluoroscopy and chest radiography for Riata lead defects: Implications for future lead screening. *J Interv Card Electrophysiol*. 2013;38(2):131-135. PMID: 24013704.
  37. Anderson TJ, **Atalay MK**, Grand DJ, Baird GL, Cronan JJ, Beland MD. Management of the nondiagnostic thyroid fine-needle aspiration: Can we avoid repeat biopsy? *Radiology*. 2014;272(3):777-784. PMID: 24749714.
  38. Lang C, **Atalay MK**. Cardiac magnetic resonance imaging and computed tomography: State of the art in clinical practice. *RI Med J*. 2014;97(2):28-34. PMID: 24494211.
  39. Beland MD, Anderson TJ, **Atalay MK**, Grand DJ, Cronan JJ. Resident experience decreases nondiagnostic rate of thyroid fine-needle aspiration biopsies. *Acad Radiol*. 2014;21(11):1490-1494. PMID: 25088838.
  40. Kim J, Parikh P, Mahboob M, Arrighi JA, **Atalay MK**, Rowin EJ, Maron MS. Asymptomatic young man with Danon Disease. *Tex Heart Inst J*. 2014;41(3):332-334. PMID: 24955057.
  41. Kim J, Cohen SB, **Atalay MK**, Maslow AD, Poppas A. Quantitative assessment of right ventricular volumes and ejection fraction in patients with left ventricular systolic dysfunction by real time three-dimensional echocardiography versus cardiac magnetic resonance imaging. *Echocardiography*. 2015;32(5):805-812. PMID: 25109323.
  42. Cummings K, Luna A, **Atalay MK**. MR Imaging of Pericardial Diseases. *Applied Radiology*. 2015;44(6):8-16. <https://www.appliedradiology.com/communities/mr-community/mr-imaging-of-pericardial-diseases>
  43. Afari ME, Rehman MU, **Atalay MK**, Broderick R. Multimodality imaging in exercise induced sudden cardiac arrest. *Tex Heart Inst J*. 2015;42(6):548-551. PMID: 26664308.
  44. Cilia L, Parikh L, Ouseph MM, Stopa E, **Atalay MK**. Systemic amyloidosis masquerading as intractable cardiomyopathy. *RI Med J*. 2016;99(10):54-56.

- PMID: 27706281.
45. Yaghi S, Liberman AL, **Atalay MK**, Song C, Furie K, Bernstein R. cardiac magnetic resonance imaging: A new tool to identify cardioaortic sources in ischaemic stroke. *J Neurol Neurosurg Psychiatry*. 2017;88(1):31-37. PMID: 27659922.
  46. Yaghi S, Chang AD, Hung P, Mac Grory B, Collins S, Gupta A, Reynolds J, Finn CB, Hemendinger M, Cutting SM, McTaggart RA, Jayaraman M, Leasure A, Sansing L, Panda N, Song C, Chu A, Merkler A, Gialdini G, Sheth KN, Kamel H, Elkind MSV, Greer D, Furie K, **Atalay MK**. Left atrial appendage morphology and embolic stroke of undetermined source: A cross-sectional multi-center pilot study. *J Stroke Cerebrovasc Dis*. 2018;27(6):1497-1501. PMID: 29398537.
  47. Maslow A, **Atalay MK**, Sodha N. Intramural Hematoma. *J Cardiothorac Vasc Anesth*. 2018;32(3):1341-1362. PMID: 29625862.
  48. Furman MS, Healey TT, Agarwal S, Grand DJ, **Atalay MK**. “Heavy-hearted havoc”—A case series of petrified myocardium. *J Cardiovasc Comput Tomogr*. 2018;12(6):e21-e23. PMID: 30342979.
  49. Arunachalam K, Beale C, Apostolidou E, **Atalay MK**, Levine D, Aspary K, Yousefzai R. Multi-modality Imaging in Hypereosinophilic Syndrome with Cardiac Involvement. *Cardiovascular Imaging Case Reports*. CASE (Phila). 2019 May 16;3(4):149-156. PMID: 31468017.
  50. Mac Grory B, Chang A, **Atalay MK**, Yaghi S. Left atrial appendage thrombus and embolic stroke. *Stroke*. 2018;49(9):e286-e289. PMID: 30355001.
  51. Azher I, Kaushal A, Chang AD, Cutting S, Mac Grory B, Burton T, Dakay K, Thompson B, Resnik M, Wendell L, Potter NS, Mahta A, Rao S, Paciaroni M, Elkind MSV, Jayaraman M, **Atalay M**, Furie K, Yaghi S. Serum troponin level in acute ischemic stroke identifies patients with visceral infarcts. *J Stroke Cerebrovasc Dis*. 2019;28(5):1173-1177. PMID: 30665837.
  52. Yaghi S, Chang AD, Akiki R, Collins S, Novack T, Hemendinger M, Schomer A, Mac Grory B, Cutting S, Burton T, Song C, Poppas A, McTaggart R, Jayaraman M, Merkler A, Kamel H, Elkind MSV, Furie K, **Atalay MK**. The left atrial appendage morphology is associated with embolic stroke subtypes using a simple classification system: A proof of concept study. *J Cardiovasc Comput Tomogr*. 2020;14(1):27-33. PMID: 31023631.
  53. Chang AD, Ignacio GC, Akiki R, Mac Grory B, Cutting S, Burton T, Jayaraman M, Merkler A, Song C, Poppas A, Kamel H, Elkind MSV, Furie K, **Atalay M**, Yaghi S. Increased left atrial appendage density on computerized tomography is associated with cardioembolic stroke. *J Stroke Cerebrovasc Dis*.

- 2020;29(4):104604. PMID: 31932211.
54. Yaghi S, Chang AD, Scher E, Panda N, Chu A, Wu M, Berger J, Lord A, Mac Grory B, Furie K, Elkind M, **Atalay MK**, Song C. Left atrial appendage morphology improves prediction of stagnant flow and stroke risk in atrial fibrillation. *Circ Arrhythm Electrophysiol*. 2020;13(2):e008074. PMID: 31986073.
  55. Sharma E, McCauley B, Ghosalkar DS, **Atalay MK**, Collins S, Parulkar A, Sheikh W, Ahmed MB, Chu A. Aortic valve calcification as a predictor of post-tavr pacemaker dependence. *Cardiol Res*. 2020;11(3):155-167. PMID: 32494325.
  56. Moustafa A, Khan MS, Alsamman MA, Jamal F, **Atalay MK**. Prognostic significance of T1 mapping parameters in heart failure with preserved ejection fraction: A systematic review. *Heart Fail Rev*. 2021 Nov;26(6):1325-1331 doi: 10.1007/s10741-020-09958-4. PMID: 32405810.
  57. Boyd C, Jayaraman MJ, Baird GL, Einhorn WS, Stib MT, **Atalay MK**, Boxerman JL, Lourenco AP, Jindal G, Hidlay DT, DiBiasio EL, McTaggart RA. Impact of experience and grayscale inversion on the detection of emergent large vessel occlusion stroke with CT angiography. *Eur Radiol*. 2020;30(8):4447-4453. PMID: 32232790.
  58. Bai HX, Hsieh B, Xiong Z, Halsey K, Choi JW, Tran TML, Pan I, Shi LB, Wang DC, Mei J, Jiang XL, Zeng QH, Egglin TK, Hu PF, Agarwal S, Xie F, Li S, Healey T, **Atalay MK**, Liao WH. Performance of radiologists in differentiating COVID-19 from non-COVID-19 viral pneumonia at chest CT. *Radiology*. 2020;296(2):E46-E54. PMID: 32155105.
  59. Bai HX, Wang R, Xiong Z, Hsieh B, Chang K, Halsey K, Tran TML, Choi JW, Wang DC, Shi LB, Mei J, Jiang XL, Pan I, Zeng QH, Hu PF, Li YH, Fu FX, Huang RY, Sebro R, Yu QZ, **Atalay MK**, Liao WH. Artificial intelligence augmentation of radiologist performance in distinguishing COVID-19 from pneumonia of other origin at chest CT. *Radiology*. 2020;296(3):E156-E165. PMID: 32339081.
  60. Louis DW, Papaila A, Sheikh W, **Atalay MK**, Abbott BG. Multimodality imaging for the diagnosis of isolated cardiac sarcoidosis. *J Am Coll Cardiol Case Rep*. 2020;2:1074-1078.
  61. Maslow AD, Hunter C, Chen T, Gorgone M, Klick J, **Atalay M**, Mahmood F. The mitral coaptation to ventricular septal space: Two and three-dimensional transesophageal echocardiographic assessment. *J Cardiothorac Vasc Anesth*. 2020 Jul 24;S1053-0770(20)30734-5. PMID: 32807602.
  62. Walsh TP, Baird GL, **Atalay MK**, Agarwal S, Arcuri S, Klinger JR, Mullin CJ,

- Normadin B, Shiva S, Whittenhall M, Ventetuolo CE. Experimental design of EDIPHY (Effects of Dehydroepiandrosterone in Pulmonary Hypertension Trial). *Pulm Circ*. 2021 May 21;11(2). PMID: 34094503.
63. Purkayastha S, Xiao Y, Jiao Z, Thepumnoeysuk R, Halsey K, Wu J, Tran TML, Hsieh B, Choi JW, Wang D, Vallières M, Wang R, Collins S, Feng X, Feldman M, Zhang PJ, **Atalay M**, Sebro R, Yang L, Fan Y, Liao WH, Bai HX. Machine Learning-Based Prediction of COVID-19 Severity and Progression to Critical Illness Using CT Imaging and Clinical Data. *Korean J Radiol*. 2021 Jul;22(7):1213-1224. doi: 10.3348/kjr.2020.1104. Epub 2021 Mar 9. PMID: 33739635
  64. Imran HM, Ather K, Gutman NH, **Atalay MK**, Poppas A. Eosinophilic myocarditis in a patient with sickle cell disease. *J Am Coll Cardiol Case Rep*. 2021 Apr 7;3(6):916-921. PMID: 34317655
  65. Beale RA, Russo R, Beale C, Levin W, **Atalay MK**, Fingleton J, Poppas A, Apostolidou E. Mitral valve blood cyst diagnosed with the use of multimodality imaging. *J Am Coll Cardiol Case Rep*. 2021 Feb 20;5(3):173-176. doi: 10.1016/j.case.2021.01.004. PMID: 34195517
  66. Jiao Z, Choi JW, Halsey K, Wu J, Tran TML, Hsieh B, Wang D, Eweje F, Wang R, Chang K, Wu J, Collins SA, Yi TY, Delworth A, Liu T, Healey TT, Lu S, Wang J, Feng X, **Atalay M**, Yang L, Feldman M, Zhang PJ, Liao W-H, Fan L, Bai HX. Prognostication of COVID-19 patients presenting to the emergency department using artificial intelligence based on chest radiographs and clinical data. *Lancet Digit Health*. 2021 May;3(5):e286-e294. PMID: 33773969.
  67. Ather K, Parulkar SS, Levine D, Tran C, **Atalay MK**, Apostolidou E. A Case of Isolated Cardiac Sarcoidosis Diagnosed With Multimodality Cardiac Imaging. *CASE (Phila)*. 2021 Jun 1;5(4):213-216. PMID: 34430769
  68. Wang R, Jiao Z, Choi JW, Xiong Z, Halsey K, Tran TML, Pan I, Collins SA, Feng X, Wu J, Chang K, Shi LB, Yang S, Yu QZ, Liu J, Fu FX, Jiang XL, Wand DC, Zhu LP, Yi XP, Healey TT, Zeng QH, Liu T, Hu PF, Huang RY, LiYH, Sebro RA, Zhang PJL, Wang J, **Atalay M**, Liao W-H, Fan L, Bai HX. Artificial intelligence for prediction of COVID-19 progression using CT imaging and clinical data. *European Radiology*. 2021 Jul 5:1-8. doi: 10.1007/s00330-021-08049-8. PMID: 34333954
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#### BOOK CHAPTER

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#### MEETING PRESENTATIONS AND PUBLISHED ABSTRACTS

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  51. Afari ME, Rehman MU, **Atalay MK**, Broderick R. Multimodality Imaging in Exercise Induced Sudden Cardiac Arrest. 64<sup>th</sup> Annual Meeting of the American College of Cardiology (San Diego, 2015).
  52. **Atalay MK**<sup>†</sup>, Tuttle A, Baird G, Kwon D, Sodha N. The Impact of Maximum Aortic Wall Thickness & Luminal Compression Ratio on Patient Outcomes in acute Type A IMH. 101<sup>st</sup> Scientific Assembly of the Radiological Society of North America (Chicago, 2015).
  53. **Atalay MK**<sup>†</sup>, Pouw M, Agarwal S, Chang K, Baird G. Assessing myocardial chamber sizes and enhancement on non-gated CT: Towards diagnosing cardiac amyloid. 4<sup>th</sup> World Congress of Thoracic Imaging (Boston, 2017).
  54. Pouw M<sup>†</sup>, Agarwal S, Chang K, Baird G, **Atalay MK**. Diagnosing cardiac amyloid on non-gated contrast CT: How good are we? 4<sup>th</sup> World Congress of Thoracic Imaging (Boston, 2017).
  55. Vachani A, **Atalay MK**, Bremner R, Broussard B, Copeland K, Egressy K, Ferguson S, Friedman L, Harris RJ, Kidd J, Leach J, McQuary P, Qui L, Sarkar S, Sheilbani N, Schuff J, Vincent B, Hesterberg L. A MultiGene Classifier for the Diagnosis of Benign Versus Malignant Pulmonary Nodules. American Thoracic Society (Washington, DC, 2017)
  56. Yaghi S, Chang A, Hung P, MacGrory B, Collins S, Reynolds J, Finn CB, Hemendinger M, Cutting SM, McTaggart RA, Jayaraman M, Leasure A, Sanding L, Panda N, Song C, Chu A, Merkler A, Gialdini G, Sheth K, Kamel H, Elkind M, Greer D, Furie K, **Atalay MK**. Left Atrial Appendage Morphology and Embolic Stroke of Source: A Cross Sectional Multi-Center Pilot Study. American Thoracic Society (Washington, DC, 2017)



57. Vachani A, **Atalay MK**, et al. A Blood-Based MultiGene Expression Classifier to Distinguish Benign From Malignant Pulmonary Nodules. Chest Annual Meeting (Toronto, 2017)
58. **Atalay MK**, Baird GL, Stib MT, George P, Cronan JJ. The Impact of emerging technologies on residency selection by medical students. 104<sup>th</sup> Scientific Assembly of the Radiological Society of North America (Chicago, 2018).
59. Chang AD<sup>†</sup>, Collins S, Merck D, Baird GL, **Atalay MK**. Modeling cardiac output using vessel density across the cardiovascular anatomy in CTPE. 104<sup>th</sup> Scientific Assembly of the Radiological Society of North America (Chicago, 2018). (Alpert Medical Student Andrew Chang received a \$500 RSNA training award.)
60. Patel R, Levinson AT, Martin DW, Levine D, **Atalay M**, Amass T. An unusual case of cardiac sarcoidosis. American Thoracic Society 2019 International Conference (Dallas, 2019).
61. Yaghi S, Chang AD, Akiki R, Collins S, Novack T, Hemendinger M, Schomer A, Mac Grory B, Cutting S, Burton T, Song C, Poppas A, McTaggart R, Jayaraman M, Merkler A, Kamel H, Elkind MSV, Furie K, **Atalay MK**. High risk left atrial appendage morphologies are associated with cardioembolic and embolic stroke of unknown source subtypes. International Stroke Conference (Honolulu, 2019).
62. Chang A<sup>†</sup>, Dominguez-Konicki L, Ignacio GC, **Atalay MK**, Shilo D. Attenuation gradients across thoracic vasculature on ctpa predict mortality following pulmonary embolism. 105<sup>th</sup> Scientific Assembly of the Radiological Society of North America (Chicago, 2019).
63. Dietsche E, Baird GL, Healey T, **Atalay MK**, Agarwal S. Does Use of Gray-scale Inversion Improve Detection of Pulmonary Nodules on Chest Radiograph. Society of Thoracic Radiology (Indian Wells, CA 2020).
64. Zeba F<sup>†</sup>, Yanning W, Melek J, Duan F, **Atalay MK**, Jankowich M, Rounds S. A review of prognostic markers in combined pulmonary fibrosis and emphysema and clinical significance of radiological markers of pulmonary hypertension. Chest annual meeting (virtual, 2020).
65. **Atalay MK**<sup>†</sup>, Baird GL, Stib MT, George P, Cronan JJ. The Impact of Emerging Technologies on Residency Selection by Medical Students: 2017 vs 2021. 107<sup>th</sup> Scientific Assembly of the Radiological Society of North America (Chicago, 2021).
66. Fayad F<sup>†</sup>, Zhong Z, Sollee J, Jiao Z, Bai H, **Atalay MK**. Pulmonary Embolism Mortality Prediction with Deep Learning Based on Computed Tomographic

Pulmonary Angiography and Clinical Data. American Heart Association Scientific Sessions (Chicago, 2022).

67. Bernstein MH<sup>†</sup>, **Atalay MK**, Dibble E, Maxwell AWP, Karam AR, Agarwal S, Ward RC, Healey TT, Baird GL. Can incorrect Artificial Intelligence (AI) results impact radiologists, and if so, what can we do about it? A multi-reader pilot study of lung cancer detection with chest radiography. Poster presented at the 108<sup>th</sup> Scientific Assembly of the Radiological Society of North America (Chicago, 2022).
68. Hillier<sup>†</sup>, Konidis E, Luu J, Selvanayagam J, **Atalay MK**, Zuluaga A, Mavrogeni S, Roifman R, Kelle S, and Friedrich MG for the International Study Group on Breathing-Enhanced OS-CMR. Breathing-Enhanced Oxygenation-Sensitive CMR for Detecting Significant Coronary Artery Stenosis – First Multi-Center Data. Society of Cardiovascular MR (San Diego, 2023).
69. Imran T, Parra L, Arcuri D, **Atalay MK**, Nguyen C, Wu WC, Choudhary G. Characterizing cardiac involvement in heart failure with preserved ejection fraction using CMR diffusion tensor imaging. Society of Cardiovascular MR (London, CMR 2024)

## INVITED PRESENTATIONS

### REGIONAL

1. *Cardiovascular MRI: The Future is Now.* **Grand Rounds Lecturer**, Department of Medicine, Rhode Island Hospital, Providence, RI, January 2004.
2. *Assessment of Coronary Heart Disease by Magnetic Resonance Imaging.* Faculty, New England Roentgen Ray Society (NERRS), Waltham, MA, April 2004.
3. *Assessment of Coronary Heart Disease by Magnetic Resonance Imaging.* Faculty, New England Roentgen Ray Society (NERRS), Waltham, MA, April 2005.
4. *Cardiovascular MRI for the Pulmonologist.* **Grand Rounds Lecturer**, Division of Pulmonary Medicine, Rhode Island Hospital, Providence, RI, May 2005.
5. *Cardiac MRI: Who Needs It?* Faculty, Rhode Island Chapter of the American College of Cardiology and Rhode Island Hospital, 4<sup>th</sup> Annual Cardiology for the Primary Care Provider, Providence, RI, September 2005.
6. *Cardiovascular MRI: The Future is Now.* Speaker, Rhode Island Hospital Founder's Day, Providence, RI, October 2005.

7. *Assessment of Coronary Heart Disease by Magnetic Resonance Imaging.* Faculty, New England Roentgen Ray Society (NERRS), Boston, MA, February 2006.
8. *Cardiac MRI & CT: The Future is Now.* **Grand Rounds Lecturer**, Department of Medicine, The Memorial Hospital of Rhode Island, Pawtucket, RI, February 2006.
9. *Assessment of Coronary Heart Disease by Magnetic Resonance Imaging.* Faculty, New England Roentgen Ray Society (NERRS), Waltham, MA, April 2006.
10. *Cardiac MRI.* Faculty, American College of Physicians, Rhode Island Chapter Scientific Meeting, Newport, RI, October 2006.
11. *(Two Lectures) (1) Cardiac MRI: Update and (2) Cardiac CT: The Next Revolution.* **Keynote Speaker**, Pennsylvania Radiological Society, Annual Meeting, Philadelphia, PA, October 2006.
12. *New Advances in Cardiac CT.* **Guest Speaker**, Primary Care Physicians of Rhode Island, Providence, RI, January 2007.
13. *Cardiovascular Imaging: Current Techniques and Future Directions.* **Grand Rounds Lecturer**, Rhode Island Hospital, Department of Medicine, Providence, RI, January 2007.
14. *(Two Lectures) (1) Cardiac MRI: Current & Future Indications and (2) Cardiac CT: The Next Revolution.* **Keynote Speaker**, North Carolina Radiological Society, Annual Meeting, Raleigh, NC, March 2007.
15. *Assessment of Coronary Heart Disease by Magnetic Resonance Imaging.* Faculty, New England Roentgen Ray Society (NERRS), Waltham, MA, April 2007.
16. *(Two Lectures) (1) Cardiac MRI and (2) Cardiac CT.* **Grand Rounds Lecturer**, Department of Radiology, West Penn Hospital, Pittsburgh, PA, October 2007.
17. *Introduction to Magnetic Resonance Physics.* Faculty, New England Roentgen Ray Society (NERRS), Waltham, MA, April 2008.
18. *Assessment of Coronary Heart Disease by Magnetic Resonance Imaging.* Faculty, New England Roentgen Ray Society (NERRS), Boston, MA, October 2008.
19. *Atherosclerosis on routine CT: An incidental conundrum.* **Grand Rounds Lecturer**, Rhode Island Hospital Department of Medicine, Providence, RI, January 2009.

20. *Cardiac MRI & CT: Clinical Applications. **Grand Rounds Lecturer**,* Department of Medicine, The Roger Williams Hospital, Providence, RI, January 2009.
21. *Cardiac Imaging.* Faculty, Rhode Island Hospital, 5<sup>th</sup> Annual Nursing Cardiology Symposium, Warwick, RI, February 2009.
22. *MRI of Heart & Mediastinal Masses.* Faculty, New England Roentgen Ray Society (NERRS), Waltham, MA, March 2011.
23. *Cardiac CT & MRI: Uses and Limitations.* Faculty, Rhode Island Chapter of the American College of Cardiology and Rhode Island Hospital. 10<sup>th</sup> Annual Cardiology for the Primary Care Provider, Providence, RI, September 2011.
24. *Imaging of Cardiac & Extracardiac Masses. **Grand Rounds Lecturer**,* Department of Radiology, The University of Wisconsin, Madison, WI, May 2013.
25. *MRI for Cardiomyopathies in 2013: Methods, Applications, and Outcomes. **Grand Rounds Lecturer**,* Division of Cardiology, Rhode Island Hospital, October 2013.
26. *Cardiac Diagnoses through ER Imaging: Pearls and Pitfalls.* Faculty, New England Roentgen Ray Society (NERRS), Boston, MA, March 2014.
27. (2 lectures) (1) *Peering Inside the Box: Cardiac Diagnoses through ER Imaging,* (2) *Imaging of the Acute Aorta in 2015: Pearls and Pitfalls. **Grand Rounds Lecturer**,* Department of Radiology, Medical College of Virginia/Virginia Commonwealth University, Richmond, VA, Jan 2015.
28. *MRI for Ventricular Tachycardia.* Faculty, CME Arrhythmia Conference, Alpert Medical School, Brown University, Providence, RI, April 2016.
29. *MRI for Arrhythmia.* Faculty, CME Arrhythmia Conference, Alpert Medical School, Brown University, Providence, RI, April 2017.
30. *Imaging of the Acute Aorta in 2017: Pearls and Pitfalls. **Grand Rounds Lecturer**,* Department of Radiology, Christiana Health Care, Wilmington, DE, April 2017.
31. *Imaging of Congenital Heart Disease.* Faculty, Review course, New England Roentgen Ray Society (NERRS), Boston, MA, April 2017.
32. *MRI of Patients with Arrhythmia and Cardiac devices.* Faculty, CME Arrhythmia Conference, Alpert Medical School, Brown University, Providence, RI, April 2018.
33. *CT & MRI in the Assessment of Valve Disease: An Open-and-Shut Case.* Faculty,

- CME Valve Symposium, Alpert Medical School, Brown University, Providence, RI, April 2019.
34. *CMR for the Pulmonologist*. CME Citywide Chest conference. Alpert Medical School, Brown University, Providence, RI, February 2020.
  35. *The Role of Cardiac CT in the Diagnosis & Management of Cardiovascular Pathology*. Faculty, CME Cardiology Symposium, Alpert Medical School, Brown University, Providence, RI, March 2021.

#### NATIONAL

1. *Cardiac MRI: The Basics*. Faculty, American Roentgen Ray Society (ARRS), Annual Meeting, Orlando, FL, May 2007.
2. *Cardiac CT. **Keynote Speaker*** (Cardiac/Chest CT Session), American Roentgen Ray Society (ARRS), Annual Meeting, Washington, DC, April 2008.
3. *Cardiac MRI: The Basics*. Faculty, American Roentgen Ray Society (ARRS), Annual Meeting, Washington, DC, April 2008.
4. *Cardiac MRI: The Basics*. Faculty, American Roentgen Ray Society (ARRS), Annual Meeting, Boston, MA, April 2009.
5. *Myocardial Scar Imaging with CMR. **Keynote Speaker*** (Cardiac Imaging Session), American Roentgen Ray Society (ARRS), Annual Meeting, San Diego, CA, May 2010.
6. *Cardiac MRI: The Basics*. Faculty, American Roentgen Ray Society (ARRS), Annual Meeting, San Diego, CA, May 2010.
7. *Cardiac MRI: The Basics*. Faculty, American Roentgen Ray Society (ARRS), Annual Meeting, Chicago, IL, May 2011.
8. *Cardiac MRI: The Basics*. Faculty, American Roentgen Ray Society (ARRS), Annual Meeting, Vancouver, CA, May 2012.
9. *Cardiac Radiology: Read with the Experts (Interactive game powered by RSNA-DxLive™)*. Faculty, Radiological Society of North America (RSNA), 98<sup>th</sup> Annual Meeting, Chicago, IL, November 2012.  
*Invited radiologists show and discuss interesting and educational imaging cases.*
10. *Introduction to Cardiac MR: Infarcts, Cardiomyopathies and Masses (How-to workshop)*. Faculty, Radiological Society of North America (RSNA), 98<sup>th</sup> Annual Meeting, Chicago, IL, November 2012.

11. *Late Gadolinium Enhancement: Is it Real and What Does it Mean?* Faculty, American Roentgen Ray Society (ARRS), Annual Meeting, Washington, DC, April 2013.
12. *Introduction to Cardiac MR: Infarcts, Cardiomyopathies and Masses (How-to workshop).* Faculty, Radiological Society of North America (RSNA) 99<sup>th</sup> Annual Meeting, Chicago, IL, November 2013.
13. *Case review series, Cardiopulmonary section.* Faculty, Radiological Society of North America (RSNA) 105<sup>th</sup> Annual Meeting, Chicago, IL, November 2019; (>900 attendees).  
*Invited radiologists show and discuss interesting and educational imaging cases.*
13. *Human Factors Course (Talk: Inner Noise: Errors in Radiology Due to Human Factors).* Faculty, Radiological Society of North America (RSNA) 108<sup>th</sup> Annual Meeting, Chicago, IL, November 2022.
14. *Errors in Radiology: The Human Factor is the X-Factor (Errors in Radiology Due to Perception, Judgement, and Noise).* Faculty, Radiological Society of North America (RSNA) 110<sup>th</sup> Annual Meeting, Chicago, IL, November 2023.

#### INTERNATIONAL

1. *Read with the Experts.* Faculty, Society of Cardiovascular Magnetic Resonance (SCMR), Annual Meeting, Rome, Italy, February 2007.  
*Invited imagers show and discuss interesting and educational imaging cases.*
2. *Instructional Course: Getting the correct slice position.* Faculty, Society of Cardiovascular Magnetic Resonance (SCMR), Annual Meeting, Los Angeles, CA, February 2008.
3. *Instructional Course: Getting the correct slice position.* Faculty, Society of Cardiovascular Magnetic Resonance (SCMR), Annual Meeting, Orlando, FL, February 2009.
4. *(4 lectures) (1) Cardiac MRI: The Basics, (2) Imaging of Cardiac & Extracardiac Masses, (3) Radiofrequency Ablation of Lung Cancer: Why Less is More, (4) Imaging of the Acute Aorta. Invited Faculty,* 1<sup>st</sup> International Congress of Chest and Cardiac Imaging at the King Fahd Medical City, Riyadh, Saudi Arabia, April 2012.
5. *(4 lectures) (1) Fundamentals of Cardiac MRI: Everything you need to know, (2) Imaging of Cardiac & Extracardiac Masses, (3) Interstitial Lung Disease: Classification and Imaging Findings, (4) Imaging of the Acute Aorta. Invited Faculty,* 2015 Global Radiology Education, Bali, Indonesia, February 2015.

6. (5 lectures) (1) *Fundamentals of Cardiac MRI: All you need to know*, (2) *Imaging of Cardiac & Extracardiac Masses*, (3) *Interstitial Lung Disease: Classification and Imaging Findings*, (4) *Imaging of the Acute Aorta: Pearls and Pitfalls*, (5) *Imaging of Pulmonary Embolism: Update 2017*. **Invited Faculty**, 2017 Chest Imaging Conference, Omani Radiological Society, Muscat, Oman, February 2017.
7. (2 lectures) (1) *MRI of Ischemic Cardiomyopathy*, (2) *MRI of Non-Ischemic Cardiomyopathy*. **Invited Faculty**, 2017 Meeting of the Radiological Society of South Africa, Cape Town, SA, October 2017.
8. (4 lectures) (1) *Imaging of Pulmonary Embolism: Update 2019 (Paulino Garcia Memorial Lecture)*, (2) *The Interstitial and Diffuse Lung Diseases—A Practical Approach*, (3) *Peering Inside the Box: Cardiac Diagnoses Any Radiologist Can Make*, (4) *Cardiopulmonary Case Review*. **Invited Faculty**, 2019 Global Radiology Education/Philippine College of Radiology Conference, Manila, Philippines, February 2019.
9. *Structural thoracic imaging in COVID-19*, **One of two featured speakers** in Webinar for the World Molecular Imaging Society (WMIS), April 2020.
10. *How Does CMR Utilization Compare to Other MR Imaging Studies?* Faculty, Society of Cardiovascular Magnetic Resonance (SCMR), Virtual Annual Meeting, February 2021.

## GRANTS

### COMPLETED

- |           |   |
|-----------|---|
| 2005-2007 | Myocardial Abnormalities in Sarcoidosis: Assessment using MR Imaging and Correlation with Clinical Outcome. Rhode Island Medical Imaging Seed Grant (\$15k) (Co-PI: L Joventino, M.D., Cardiology, Rhode Island Hospital)<br>Role: <b>Principal Investigator</b>            |
| 2006-2008 | Structure-Function Relationships Resulting in Ventricular Tachyarrhythmias after Myocardial Infarction. Rhode Island Medical Imaging Seed Grant (\$15k) (Co-PI: A Buxton, M.D., Cardiology, Rhode Island Hospital)<br>Role: <b>Principal Investigator</b>                   |
| 2013-2015 | Multicenter Open-label Study to Evaluate Efficacy of Gadobutrol-enhanced Cardiac Magnetic Resonance Imaging (CMRI) for Detection of Significant Coronary Artery Disease (CAD) in Subjects With Known or Suspected CAD by a Blinded Image Analysis (Identifier: NCT01890421) |

Funded by Bayer Pharmaceutical, Inc.  
Role: **Site Principal Investigator**

2017-2019 Left Atrial Appendage Morphology in Cryptogenic Stroke, **AHA Award #17MCPRP33670965** (PI: S Yaghi, M.D., Neurology, Brown University)  
Role: **Co-Investigator** (4%)

2020 Effect of body position on regional lung displacement during free breathing: Towards improving efficiency and safety during image-guided lung mass biopsy. Rhode Island Medical Imaging Seed Grant (\$15k) (PI: A Karam, MD, Diagnostic Imaging, Rhode Island Hospital)  
Role: **Co-Principal Investigator**

#### ACTIVE

2015-2018 A Study To Evaluate A Panel Of Blood Biomarkers For Use In Patients Undergoing Evaluation For Lung Cancer, ONC-LN-04. Funded by Oncocyte Corporation.  
Role: **Site Principal Investigator**

2018-2023 Effects of DHEA in Pulmonary Hypertension (DiPH), **NHLBI Award 1R01HL141268-01** (PI: CE Ventetuolo, M.D., M.S., Pulmonary Medicine, Brown University)  
Role: **Co-Investigator** (10%)

2019-2022 Scarring and Arrhythmia in Infarcted Aged Heart: Role of Senescent Fibroblasts, **NHLBI Award 1R01HL139467-01A1** (PI: G Koren, M.D., Cardiology, Brown University)  
Role: **Co-Investigator** (10%)

2020-2023 Breathing-Maneuver-Induced Myocardial Oxygenation Reserve Validated by FFR (B-MORE) Protocol #: 2019-4137 (PI: M Friedrich, M.D., Cardiology, The Research Institute of the McGill University Health Centre). Funded by Circle Cardiovascular Imaging.  
Role: **Site Principal Investigator**

#### UNIVERSITY TEACHING ROLES

##### RECURRING

BIOMED 629: General Introduction to Radiology  
The Warren Alpert Medical School of Brown University  
2003-Present

Director: Dr. Don Yoo

Review chest, abdominal, and pelvic teaching cases with medical students to discuss anatomy, disease, and imaging techniques.



BIOL 3662 Integrated Medical Science III: Cardiovascular Pathophysiology, **Lecturer**  
(*Introduction to Cardiac CT & MRI*)

The Warren Alpert Medical School of Brown University (Basic Science)

Director: Drs. Ed Keating & Joseph Wyllie

2006-Present

BIOL 3662 Integrated Medical Science III: Cardiovascular Pathophysiology, **Group Leader**

The Warren Alpert Medical School of Brown University (Basic Science)

Director: Drs. Kate French & Verity Ramirez

2010-Present

The role of Group Leaders in this curriculum is to guide medical student discussion through a series of clinical vignettes, to clarify points of confusion when they arise, and to ensure that salient features of each case are considered and understood.

Radiology Lecture Series for Primary Care-Population Medicine Program Longitudinal Integrated Curriculum (LIC) for 3<sup>rd</sup> year Medical Students interested in population health,

**Lecturer** (*Cardiac CT: The Future is Now*)

Directors: Drs. Don Yoo & Michael Furman

2018-Present

ENGN 1931S: Medical Physics, *New Course* Spring 2020, **Lecturer** (*An Introduction to Medical Imaging Physics*)

Brown University (Undergraduate & Graduate)

Director: Dr. Eric Klein

2020-Present

RAD 6335 Cardiothoracic Imaging and Intervention

The Warren Alpert Medical School of Brown University

Director: Dr. Terrance Healey

2020-Present

Focused review of cardiothoracic teaching cases with medical students to discuss anatomy, disease, and imaging techniques. Students also observe pulmonologists, thoracic surgeons, and oncologists to learn more about strategies for diagnosing and treating a host of diseases of the thorax.

GUEST LECTURER

BIO 017: Biotechnology in Medicine; Introduction to Medical Imaging, **Lecturer**

Brown University (Undergraduate)

Director: Dr. Ed Hawrot

2006

PH 2620: Selected Topics in Biophysics, **Lecturer** (*MRI Physics—from proton to picture*)

Brown University (Undergraduate & Graduate)  
Director: Dr. Jay Tang  
2012

Biol 1200: Protein Biophysics and Structural Biology, **Lecturer** (*MRI Physics—from  
proton to picture*)  
Brown University (Undergraduate & Graduate)  
Director: Dr. Wolfgang Peti  
2013

## HOSPITAL TEACHING AND CLINICAL CONFERENCE ROLES

### *Clinical Assignments*

Monthly Thoracic Aorta Conference, Rhode Island Hospital, **primary covering radiologist** (Review all imaging studies at each conference)

Weekly Pulmonary Tumor Board, Rhode Island Hospital, **shared radiology coverage**, ~0.5/month (Review all imaging studies at each conference)

Weekly Multidisciplinary Lung Cancer Clinic, Rhode Island Hospital, **shared radiology coverage**, ~1/month (Review all imaging studies at each conference)

Monthly Interstitial Lung Disease Conference, Rhode Island Hospital, **shared radiology coverage**, ~quarterly (Review all imaging studies at each conference)

### *Teaching Assignments*

Weekly cardiology Fellows Conference, Rhode Island Hospital (Attend and participate when schedule permits and provide 2-3 lectures per year)

Weekly radiology Fellows Conference, Rhode Island Hospital (Attend and participate)

Weekly pulmonology Fellows Conference, Rhode Island Hospital (Attend and participate when schedule permits)

Radiology Residents: ~ **8 didactic teaching and case review** sessions per year

Radiology Residents: **Ultrasound physics** (2 lecture/year), **MRI physics** (2 lectures/year)

Physics underlies all medical imaging and is an important component of radiology residents' education. Since arriving at Brown in 2003, I have participated actively in the didactic curriculum for ultrasound and MRI physics.

