

CURRICULUM VITAE

Name: Matthew D. Cham, M.D.
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Birthplace: Manila, Philippines
Citizenship: Philippines (USA Permanent Resident)

Education:

August 1995-
May 2000 University of Rochester – School of Medicine and Dentistry
Rochester Plan Early Medical School Admission Program
MD, with *Distinction in Research*

September 1991-
May 1995 University of Rochester – River Campus
Magna Cum Laude
BS, Cell and Developmental Biology
BA, Psychology

Postgraduate Training:

April 2006-
June 2006 Fellow
Imperial College School of Medicine – Royal Brompton Hospital (UK)
Advanced Imaging Fellowship in Cardiovascular MRI

July 2005-
March 2006 Fellow
Weill Cornell Medical College – New York Presbyterian Hospital
Fellowship in Thoracic Radiology

July 2001-
June 2005 Resident
University of Rochester – Strong Memorial Hospital
Resident (PGY2-4) in Diagnostic Radiology

July 2000-
June 2001 Intern
University of Rochester – Rochester General Hospital
Internship (PGY1) in Internal Medicine

Faculty Positions:

November 2018-
Present Director of Cardiac MRI
Professor of Radiology
The University of Washington Medical Center

August 2011-
October 2018 Director of Cardiac Radiology
Associate Professor of Medicine – Division of Cardiology
Mount Sinai School of Medicine – Mount Sinai Medical Center

January 2010- October 2018	Associate Professor of Radiology Mount Sinai School of Medicine – Mount Sinai Medical Center
July 2008- December 2009	Assistant Professor of Radiology in Medicine – Division of Cardiology Weill Cornell Medical College – New York Presbyterian Hospital
July 2006- December 2009	Assistant Professor of Radiology Weill Cornell Medical College – New York Presbyterian Hospital

Honors and Awards:

2018	Radiology Editor's Recognition Award For Reviewing with Distinction "In recognition of outstanding service as a reviewer of scientific manuscripts submitted for publication in Radiology"
2018	Inducted as a Fellow of The North American Society for Cardiovascular Imaging (NASCI)
2018	Silver Distinguished Reviewer Achievement Award American Journal of Roentgenology
2018	Grade A rating for lowest radiation doses in clinical Chest CT Radiology Outcomes Research Laboratory
2017	Certificate of Appreciation "For dedicated volunteer service" American College of Radiology
2017	Editors' Award "For distinction in reviewing" Journal of Thoracic Imaging
2017	Grade A rating for lowest radiation doses in clinical Chest CT Radiology Outcomes Research Laboratory
2016	Certificate of Merit: Radiological Society of North America exhibit: A Winding Road: Congenital Coronary Artery Anomalies.
2016	Certificate of Merit: Society of Thoracic Radiology exhibit: The Heart of the Matter: Cardiac Imaging of Sarcoidosis
2015	Editor's Recognition Award "For reviewing with distinction" Journal of Thoracic Imaging
2015	Volunteer Service Award "For contributions to Core Exam development" American Board of Radiology
2014	Certificate of Appreciation "In recognition of the excellence of the Education Exhibit EDE002-b: Cardiac Case of the Day" Radiological Society of North America
2014	Editor's Recognition Award "For reviewing with distinction" Journal of Thoracic Imaging

- 2014 Certificate of Appreciation "For outstanding service and contributions"
American College of Radiology
- 2013 Certificate of Appreciation "In recognition of the excellence of the
Education Exhibit LL-EDE3002: Cardiac Case of the Day"
Radiological Society of North America
- 2012 Yale Diagnostic Radiology Award of Excellence in Education
"In recognition of selfless dedication to resident education"
- 2012 Teaching Award "For outstanding teaching and dedication to the
residents" University of Rochester Department of Radiology
- 2011 Radiology Editor's Recognition Award For Reviewing with Distinction
"In recognition of outstanding service as a reviewer of scientific
manuscripts submitted for publication in Radiology"
- 2011 Certificate of Merit: Radiological Society of North America education
exhibit: EKG Correlates of Cardiac MRI: What Every Cardiac
Radiologist Needs to Know
- 2010 Teaching Award for Radiology Resident Education
Mount Sinai School of Medicine
- 2009 Certificate of Appreciation for Radiology Resident Teaching
University of Rochester Medical Center
- 2007 Robin C. Watson Award For Excellence in Radiology Teaching
Cornell University Medical Center
- 2007 Abby Joseph Cohen Clinical Scholar in Women's Health
- 2005 RSNA Roentgen Resident
- 2004 Strong Memorial Hospital Fischer Research Grant
- 2004 Bracco Best Presented Manuscript
- 2003 Bracco Leaders on the Horizon Award
- 2003 Strong Memorial Hospital Fischer Research Grant
- 2003 University of Rochester PACS 2003 Scholarship
- 2000 The Associated Medical Schools of New York Research Award
- 1999 The American College of Chest Physicians Clinical Research Award

Board Certification:

2005-Present American Board of Radiology
Board-Certified Radiologist

Licensure and Certification:

2018-Present Washington State Licensed Physician

2005-Present New York State Licensed Physician

2005-Present American Heart Association
Advanced Cardiac Life Support certification

Professional Organizations:

2001-Present Radiological Society of North America

2001-2015 American Roentgen Ray Society

2001-Present American College of Radiology

2006-Present Society Of Thoracic Radiology

2007-2009 Society Of Cardiovascular Computed Tomography

2009-2010 National Institutes Of Health, Center For Scientific Review

2009-Present North American Society for Cardiovascular Imaging

2009-Present American Board of Radiology

2016-Present New York Roentgen Society

2018-Present Society of Cardiovascular Magnetic Resonance

Organizational offices and positions:

2009-2014 Committee Member, Scientific Program Committee
Society Of Thoracic Radiology

2009-2010 Co-director, Cardiac Imaging Seminars
Open Medical Institute, Austrian-American Foundation

2009-2015 Committee Member, Cardiac Core Exam Writing Committee
American Board of Radiology

2010-2015 Committee Member, Electronic Media Committee
Society Of Thoracic Radiology

2012-2014 Chair, Cardiac e-Learning Subcommittee
American College of Radiology

2014-2016	Content Developer, RadKat/Radar Cardiac CME activity American College of Radiology
2015-2016	Chair, e-Learning American College of Radiology
2015-Present	Committee Member, Cardiothoracic Exam Standards (Angoff) Committee American Board of Radiology
2016-2017	Content Developer, Radar2 Cardiac CME activity American College of Radiology
2016-2018	Chest CT Protocol Manager, Radiation Safety Committee Mount Sinai Department of Radiology
2016-2018	Committee Member, Awards Committee New York Roentgen Society
2016-Present	Committee Member, Online Longitudinal Assessment (OLA) Cardiac Committee American Board of Radiology
2016-Present	Chair, Membership Committee North American Society for Cardiovascular Imaging
2017-Present	Vice-Chair, Education Committee Commission on Patient- and Family-Centered Care (PFCC) American College of Radiology
2017-Present	Chair, Enduring Materials Commission on Education American College of Radiology

Teaching Activities:

Teaching activity	Level	Role	Number of students	Number of hours	Years taught
Cardiac MRI and CT	Department Level	Teaching/Attending	10 /yr	8 hrs /wk	2006-2009
Chest XR and CT	Department Level	Teaching/Attending	12-15 /yr	8 hrs /wk	2006-2009
CT-Guided Lung Biopsy	Department Level	Teaching/Attending	10-12 /yr	8 hrs /wk	2006-2009
RAD 104 Course	Medical School Course	Lecturer	70 /yr	1 hr /mo	2007-2009
Cornell Urban Semester	Undergraduate Course	Mentor	1 /yr	8 hrs /wk	2008-2009
Cardiac MRI and CT	International Seminar	Course Co-Director, Lecturer	30-35 /yr	40 hrs/yr	2009
Anatomic Radiology Course	Medical School Course	Lecturer and Online Course Contributor	100 /yr	4 hrs/yr	2010-2018

Cardiac MRI and CT	Department Level	Teaching/Attending	12-15 /yr	20 hrs /wk	2010-2018
Chest XR and CT	Department Level	Teaching/Attending	12-15 /yr	10 hrs /wk	2010-2018
CT-Guided Lung Biopsy	Department Level	Teaching/Attending	10-12 /yr	2 hrs /wk	2010-2018

Trainees (past 5 years):

Name	Level of trainee	Role and dates	Venue	Last known status
Dr. Pablo Pazos	Cardiology Fellow	Mentor 2012-2013	Cardiac CT/MRI Center	Cardiologist, Spain
Dr. Eduardo Pozo	Cardiology Fellow	Mentor 2012-2013	Cardiac CT/MRI Center	Cardiologist, Spain
Dr. Stuart Cohen	Radiology Resident	Mentor 2012-2016	Radiology Department	Radiologist, Northshore LIJ
Dr. Michael Kadoch	Radiology Resident	Mentor 2012-2014	Radiology Department	Radiologist, UC Davis
Dr. Thomas Ward	Radiology Resident	Mentor 2012-2014	Radiology Department	Radiologist, Florida Hospitals
Dr. Lea Azour	Radiology Resident, Fellow	Mentor 2014-2017	Radiology Department	Radiologist, NYU
Dr. Carlos Gonzalez	Cardiology Fellow	Mentor 2014-2015	Cardiac CT/MRI Center	Cardiologist, Mount Sinai
Dr. Piedad Lerena	Cardiology Fellow	Mentor 2015	Cardiac CT/MRI Center	Cardiologist, Spain
Dr. Ziad Sergei	Cardiology Fellow	Mentor 2015-2016	Cardiac CT/MRI Center	Cardiologist, Monmouth NJ
Dr. Cayetana Barbeito	Cardiology Fellow	Mentor 2016	Cardiac CT/MRI Center	Cardiologist, Spain
Dr. Chema Larrañaga	Cardiology Fellow	Mentor 2016	Cardiac CT/MRI Center	Cardiologist, Spain
Dr. Amir Ahmadi	Cardiology Fellow	Mentor 2016-2017	Cardiac CT/MRI Center	Cardiologist, Mount Sinai
Dr. Nicolas Maneiro	Cardiology Fellow	Mentor 2017	Cardiac CT/MRI Center	Cardiologist, Spain
Dr. Patricia Pardo	Cardiology Fellow	Mentor 2017	Cardiac CT/MRI Center	Cardiologist, Spain
Dr. Iria Silva	Cardiology Fellow	Mentor 2017	Cardiac CT/MRI Center	Cardiologist, Spain
Dr. Maher Chichakli Cela	Cardiology Fellow	Mentor 2017	Cardiac CT/MRI Center	Cardiologist, Spain
Dr. Aalap Chokshi	Cardiology Fellow	Mentor 2017-2018	Cardiac CT/MRI Center	Cardiology Fellow, Mount Sinai
Dr. Angelica Romero	Cardiology Fellow	Mentor 2017-2018	Cardiac CT/MRI Center	Cardiology Fellow, Mount Sinai
Dr. DongMing Xu	Radiology Fellow	Mentor 2017-2018	Radiology Department	Radiology Fellow, Mount Sinai
Dr. Rebecca Chang-Oudsema	Radiology Resident	Mentor 2015-2018	Radiology Department	Radiology Resident, Mount Sinai

Dr. Andrew Pagano	Radiology Resident	Mentor 2015-2018	Radiology Department	Radiology Resident, Mount Sinai
Dr. Michael King	Radiology Resident	Mentor 2015-2018	Radiology Department	Radiology Resident, Mount Sinai

External Teaching:

- 2009 Course co-director, Open Medical Institute Cardiac Imaging Seminars. Co-developed the cardiovascular imaging curriculum for the annual seminar. These seminars are targeted towards an international audience of multidisciplinary physicians from underserved areas in Europe.
- 2007-Present Cardiothoracic radiology refresher course speaker. Invited to lecture at major academic medical centers including Cornell, Columbia, Yale, and Rochester. My reputation has spread by word of mouth through residents, fellows, and colleagues. None of these invitations resulted from institutional marketing, and I have been invited every year to lecture at institutions for which I no longer work.

Editorial Responsibilities:

- 2006-Present Reviewer for the American Journal of Roentgenology
- 2009-Present Reviewer for the journal Radiology
- 2009-Present Reviewer for the journal Clinical Imaging
- 2009-2013 National Institutes Of Health, Center For Scientific Review
Reviewer for NIH challenge grants in health and science research
- 2010-Present Reviewer for the Journal of Thoracic Imaging
- 2013-Present Reviewer for the journal Cardiovascular Diabetology
- 2014-Present Reviewer for the Journal of the American College of Cardiology JACC-Imaging
- 2018-Present Reviewer for the journal Circulation: Cardiovascular Imaging

Grants and Contract Support:

Funding Source, Grant Number, Title of Study	Role	Dates
NIH - NCI, 5R44HL070411-05 A breath test for lung cancer Total: \$102,818	Role: Site PI	2008-2009
GE 012-096 A prospective Multi-Center Registry Study for Clinical Outcome in Patients Undergoing Coronary Computed Tomography Angiography (CCTA) Examination (Visipaque	Role: Site PI	2010-2011

 Registry Study).

 Flight Attendant Medical Research Institute,
 Cardiac risk from secondhand smoke
 Total: \$7,500,000

 Role: Project
 Co-PI
 2007-2017

Peer-Reviewed Publications:

1. **Cham MD**, Yankelevitz DF, Shaham D, et al. Indirect CT venography in the detection of deep vein thrombosis. *Radiology*. 2000; 216:744-751.
2. Yankelevitz DF, Gamsu G, ..., **Cham MD**, et al. Optimization of combined pulmonary CT angiography with lower extremity CT venography. *AJR Am J Roentgenol*. 2000; 174:67-69.
3. Hinchcliffe EH, Miller FJ, **Cham M**, Khodjakov A, Sluder G. Requirement of a centrosomal activity for cell cycle progression through G1 into S phase. *Science*. 2001; 291:1547-1550.
4. **Cham MD**. Advances in CT technology and contrast media in the detection of thromboembolic disease. *Applied Radiology*. 2004; 33(10) supplement:7-18.
5. **Cham MD**, Yankelevitz DF, Henschke CI. Thromboembolic disease detection at indirect CT venography versus CT pulmonary angiography. *Radiology*. 2005; 234:591-594.
6. **Cham MD**, Yankelevitz DF, Henschke CI. Routine CT venography after CT for pulmonary embolism: Evidence-based radiology or hemorrhage from anticoagulation of false-positive deep venous thrombosis? *Radiology*. 2006; 241: 945-947.
7. Keller BM, Reeves AP, **Cham MD**, Henschke CI, Yankelevitz DF. Semi-automated location identification of catheters in digital chest radiographs. *Proceedings of the SPIE*. 2007; Volume 6514, pp. 65141O1-9.
8. Browder WA, Reeves AP, Apananosovich TV, **Cham MD**, Yankelevitz DF, Henschke CI. Automated volumetric segmentation method for growth consistency of nonsolid pulmonary nodules in high-resolution CT. *Proceedings of the SPIE*. 2007; Volume 6514, pp. 65140Y1-10
9. Krauser DG, **Cham MD**, Tortolani AJ, Kim RJ, Yang XJ, Min JK, Weinsaft JW. Clinical utility of delayed contrast computed tomography for tissue characterization of cardiac thrombus. *J Cardiovascular Computed Tomography*. 2007; 1:114-118.
10. Jirapatnakul AC, Reeves AP, Apanasovich TV, **Cham MD**, Yankelevitz DF, Henschke CI. Characterization of solid pulmonary nodules using three-dimensional features. *Proceedings of the SPIE*. 2007; Volume 6514, pp. 65143E1-8
11. Jirapatnakul AC, Reeves AP, Apanasovich TV, **Cham MD**, Yankelevitz DF, Henschke CI. Prediction of tumor volumes using an exponential model. *Proceedings of the SPIE*. 2007; Volume 6514, pp. 65143A1-8.
12. Fotin SV, Reeves AP, **Cham MD**, Yankelevitz DF, Henschke CI. Segmentation of coronary arteries from CT angiography images. *Proceedings of the SPIE*. 2007; Volume 6514, pp. 6514181-8.

13. Wang Y, Nguyen TD, Spincemaille P, **Cham MD**, Prince MR, Weinsaft JW. Noninvasive functional imaging of the heart using MRI: opportunities and challenges. In: Noninvasive Functional Source Imaging of the Brain and Heart and the International Conference on Functional Biomedical Imaging. 2007; NFSI-ICFBI 2007. Joint Meeting of the 6th International Symposium, October 12-14, 2007, Pages:185-189.
14. Weinsaft JW, **Cham MD**, Janik M, Min JK, Henschke CI, Yankelevitz DF, Devereux RB. Left ventricular papillary muscles and trabeculae are significant determinants of cardiac MRI volumetric measurements: Effects on clinical standards in patients with advanced systolic dysfunction. *Int J Cardiol.* 2008; 126:359-365.
15. Nguyen TD, Spincemaille P, Weinsaft JW, Ho BY, **Cham MD**, Prince MR, Wang Y. A fast navigator-gated 3D sequence for delayed enhancement MRI of the myocardium: comparison with breathhold 2D imaging. *J Magn Reson Imaging.* 2008; 27:802-898.
16. Chang S, **Cham MD**, Hu S, Wang Y. 3-T navigator parallel-imaging coronary MR angiography: targeted-volume versus whole-heart acquisition. *AJR Am J Roentgenol.* 2008; 191:38-42.
17. Armato SG 3rd, Meyer CR, ..., **Cham MD**, et al; The Reference Image Database to Evaluate Response to therapy in lung cancer (RIDER) project: a resource for the development of change-analysis software. *Clin Pharmacol Ther.* 2008; 84:448-456.
18. Janik M, **Cham MD**, Ross MI, Wang Y, et al. Effects of papillary muscles and trabeculae on left ventricular quantification: increased impact of methodological variability in patients with left ventricular hypertrophy. *J Hypertens.* 2008; 26(8):1677-1685.
19. Nguyen TD, Spincemaille P, **Cham MD**, Weinsaft JW, Prince MR, Wang Y. Free-breathing 3D steady-state free precession coronary magnetic resonance angiography: comparison of diaphragm and cardiac fat navigators. *J Magn Reson Imaging.* 2008; 28:509-514.
20. Codella NC, Weinsaft JW, **Cham MD**, Janik M, Prince MR, Wang Y. Left ventricle: automated segmentation by using myocardial effusion threshold reduction and intravoxel computation at MR imaging. *Radiology.* 2008; 248:1004-1012.
21. John BK, Dang NC, Hussain SA, Yang GC, **Cham MD**, et al. Multifocal Granular Cell Tumor Presenting as an Esophageal Stricture. *J Gastrointest Cancer.* 2008; 39:107-113.
22. Nguyen TD, de Rochefort L, Spincemaille P, **Cham MD**, et al. Effective motion-sensitizing magnetization preparation for black blood magnetic resonance imaging of the heart. *J Magn Reson Imaging.* 2008; 28(5):1092-1100.
23. Lee HY, Codella N, **Cham M**, Prince M, et al. Left ventricle segmentation using graph searching on intensity and gradient and a priori knowledge (lvGIGA) for short-axis cardiac magnetic resonance imaging. *J Magn Reson Imaging.* 2008; 28:1393-1401.
24. Nguyen TD, Spincemaille P, **Cham MD**, Weinsaft JW, et al. Free-breathing 3-dimensional steady-state free precession coronary magnetic resonance angiography: comparison of four navigator gating techniques. *J Magn Reson Imaging.* 2009; 28:509-514.
25. Weinsaft JW, Kim RJ, ..., **Cham MD**, et al. Contrast-enhanced anatomic imaging as compared to contrast-enhanced tissue characterization for detection of left ventricular thrombus. *JACC Cardiovasc Imaging.* 2009; 2:969-979.

26. Wang JW, Wu N, **Cham MD**, Song Y. Tumor response in patients with advanced non-small cell lung cancer: Evaluation of chemotherapy and/or radiation therapy using perfusion CT. *AJR Am J Roentgenol.* 2009; 193:1090-1096.
27. Lee HY, Codella NC, **Cham MD**, Weinsaft JW, Wang Y. Automatic left ventricle segmentation using iterative thresholding and active contour model with adaptation on short-axis cardiac MRI. *IEEE Trans Biomed Eng.* 2010; 57:905-913.
28. Codella NC, **Cham MD**, Wong R, Chu C, Min JK, Prince MR, Wang Y, Weinsaft JW. Rapid and accurate left ventricular chamber quantification using a novel CMR segmentation algorithm: a clinical validation study. *J Magn Reson Imaging.* 2010; 31:845-853.
29. Brown R, Nguyen TD, Spincemaille P, **Cham MD**, Choi G, Winchester PA, Prince MR, Wang Y. Effect of blood flow on double inversion recovery vessel wall MRI of the peripheral arteries: quantitation with T2 mapping and comparison with flow-insensitive T2-prepared inversion recovery imaging. *Magn Reson Med.* 2010; 63:736-744.
30. Chazen JL, Prince MR, ..., **Cham MD**. Post-CABG coronary CT angiography: Radiation dose and graft image quality in retrospective versus prospective ECG gating. *Acad Radiol.* 2010; 17:1122-1127.
31. Shemesh J, Henschke CI, ..., **Cham MD**, et al. Ordinal scoring of coronary artery calcifications on low-dose CT scans of the chest predicts deaths from cardiovascular disease. *Radiology.* 2010; 257:541-548.
32. Foos DH, Yankelevitz DF, ..., **Cham M**, et al. Improved visualization of tubes and lines in portable intensive care unit radiographs: a study comparing a new approach to the standard approach. *Clin Imaging.* 2011; 35:346-352.
33. Henschke CI, Yankelevitz DF, Reeves AP, **Cham MD**. Image analysis of small pulmonary nodules identified by computed tomography. *Mt Sinai J Med.* 2011; 78:882-93.
34. Codella NC, Lee HY, ..., **Cham MD**, Devereux RB, Prince M, Wang Y, Weinsaft JW. Improved left ventricular mass quantification with partial voxel interpolation: in vivo and necropsy validation of a novel cardiac MRI segmentation algorithm. *Circ Cardiovasc Imaging.* 2012; 5:137-46.
35. Newman TM, **Cham MD**, Zhang H, Hentel KD, Mennitt K, Heier L, Prince MR. Clinical demand for chest/abdomen/pelvis anatomy following thoracic or lumbar spine CT. *Emerg Radiol.* 2012; 19:211-215.
36. Loukeris K, Vazquez MF, ..., **Cham MD**, et al. Cytological cell blocks: Predictors of squamous cell carcinoma and adenocarcinoma subtypes. *Diagn Cytopathol.* 2012; 40:380-387.
37. Gelbman BD, **Cham MD**, Kim W, Libby DM, Smith JP, Port JL, Altorki NK, Henschke CI, Yankelevitz DF. Radiographic and clinical characterization of false negative results from CT-guided needle biopsies of lung nodules. *J Thorac Oncol.* 2012; 7:815-820.
38. Farooqi AO, **Cham M**, Zhang L, et al. Lung cancer associated with cystic airspaces. *AJR Am J Roentgenol.* 2012; 199:781-6.

39. Chinitz JS, Chen D, ..., **Cham M**, et al. Mitral apparatus assessment by delayed enhancement CMR – Relative impact of infarct distribution on ischemic mitral regurgitation. *JACC Cardiovasc Imaging*. 2013; 6(2):220-234.
40. Yankelevitz DF, Henschke CI, ..., **Cham MD**, et al. Second-hand tobacco smoke in never smokers is a significant risk factor for coronary artery calcification. *JACC Cardiovasc Imaging*. 2013 Jun; 6(6):651-7.
41. Ward TJ, Kadoch MA, ..., **Cham MD**. Magnetic resonance imaging of benign cardiac masses: a pictorial essay. *J Clin Imaging Sci*. 2013 Aug 31; 3:34.
42. Patel UB, Ward TJ, Kadoch MA, **Cham MD**. Radiographic features of pulmonary embolism: Hampton's hump. *Postgrad Med J*. 2014 Jul; 90(1065):420-1.
43. Pozo E, Kanwar A, ..., **Cham M**, et al. Cardiac magnetic resonance evaluation of left ventricular remodelling distribution in cardiac amyloidosis. *Heart*. 2014 Nov; 100(21):1688-95.
44. Pazos-López P, Pozo E, ..., **Cham M**, et al. Value of CMR for the differential diagnosis of cardiac masses. *JACC Cardiovasc Imaging*. 2014 Sep; 7(9):896-905.
45. Hecht HS, de Siqueira ME, **Cham M**, et al. Low- vs. standard-dose coronary artery calcium scanning. *Eur Heart J Cardiovasc Imaging*. 2015 Apr; 16(4):358-63.
46. Kadoch MA, **Cham MD**, Beasley MB, et al. Idiopathic interstitial pneumonias: a radiology-pathology correlation based on the revised 2013 American Thoracic Society-European Respiratory Society classification system. *Curr Probl Diagn Radiol*. 2015 Jan-Feb; 44(1):15-25.
47. Htwe Y, **Cham MD**, Henschke CI, et al. Coronary artery calcification on low-dose computed tomography: comparison of Agatston and Ordinal Scores. *Clin Imaging*. 2015 Sep-Oct; 39(5): 799-802.
48. Gonzalez Lengua CA, Kumar P, **Cham M**, Sanz J. Thrombosed cor triatriatum sinistrum mimicking left atrial mass and causing unilateral pulmonary edema. *J Cardiovasc Comput Tomogr*. 2016 Mar-Apr; 10(2):186-7.
49. Lu W, **Cham MD**, Qi L, et al. The impact of chemotherapy on persistent ground-glass nodules in patients with lung adenocarcinoma. *J Thorac Dis*. 2017 Nov; 9(11):4743-4749.
50. Yankelevitz DF, **Cham MD**, Hecht H, et al. The association of secondhand tobacco smoke and CT angiography-verified coronary atherosclerosis. *JACC Cardiovasc Imaging*. 2017 Jun; 10(6):652-659.
51. Pozo E, Castellano JM, ..., **Cham MD**, et al. Myocardial amyloid quantification with Look-Locker magnetic resonance sequence in cardiac amyloidosis: Diagnostic accuracy in clinical practice and histological validation. *J Card Fail*. 2018 Feb; 24(2):78-86.
52. Henschke CI, Salvatore M, **Cham M**, et al. Baseline and annual repeat rounds of screening: implications for optimal regimens of screening. *Eur Radiol*. 2018 Mar; 28(3):1085-1094.
53. Xu DM, Cai J, Liu S, **Cham MD**. Computer-aided detection of small pulmonary nodules and missed lung cancers. *J Thorac Imaging*. 2018 (accepted).
54. Azour L, Eber C, **Cham MD**, et al. Causative factors, imaging findings and CT course of round atelectasis. *Clin Imaging*. 2018 (accepted).

Textbook Chapters:

1. **Cham MD**, Wandtke JC. Radiograph, CT, and MRI Plate Co-Editors. In: Frank Netter's Atlas of Human Anatomy, 3rd Ed. Hansen JT. Novartis Medical Education, Basel, Switzerland: January 2003, ISBN 1929007116.
2. **Cham MD**, Rubens DJ, Strang JG. Neoplasms of the Lung and Airway. In: Body CT Secrets, 1st Ed. Strang JG and Dogra VS. Mosby - Hanley & Belfus Inc., Philadelphia PA: August 2006, ISBN 0323034047.
3. **Cham MD**, McCauley DI, Chen M, et al. Imaging of Adult Respiratory Emergencies. In: Respiratory Emergencies, 1st Ed. Fein AM, Kamholz S, Ost D. Hodder Education, London, UK: 2005, ISBN 0340811951.
4. Henschke CI, **Cham MD**, Yankelevitz DF. CT Screening for Lung Cancer for High-Risk People. In: Screening and Preventive Diagnosis with Radiological Imaging, 1st Ed. Reiser MF, Kaick GV, Fink C, Schoenberg SO. Springer Science+Business Media, Springer-Verlag Berlin and Heidelberg GmbH & Co, Berlin: November 2006, ISBN 3540235531.
5. Henschke CI, Yip R, **Cham MD**, Yankelevitz DF. Computed Tomographic Screening for Lung Cancer. In: Cancer Imaging: Lung and Breast Carcinomas, 1st Ed. Hayat MA. Elsevier Academic Press, Burlington, MA: December 2007, ISBN 0123704685.
6. Yankelevitz DF, **Cham MD**, Farooqi AO, Henschke CI. CT-directed Diagnosis of Peripheral Lung Lesions Suspicious for Cancer. In: Thorac Surg Clin. 2007; 17:143-158.
7. **Cham MD**, Lane ME, Henschke CI, Yankelevitz DF. Lung Biopsy: Special Techniques. In: Semin Respir Crit Care Med. 2008; 29:335-49.
8. Henschke CI, Yankelevitz DF, Yip R, **Cham MD**, et al. The Role of Computed Tomography Screening for Lung Cancer. In: DeVita, Hellman, and Rosenberg's Cancer: Principles & Practice of Oncology, 8th Ed. DePinho RA and Weinberg RA. Lippincott Williams & Wilkins, Philadelphia, PA: April 2008, ISBN-10: 0781772079; ISBN-13: 978-0781772075.
9. **Cham MD**, Henschke CI, Yankelevitz DF. Biopsy Procedures of the Lung, Mediastinum, and Chest Wall. In: Handbook of Interventional Radiologic Procedures, 4th Ed. Krishna Kandarpa and Lindsay Machan. Lippincott Williams & Wilkins, Philadelphia, PA: October 2010, ISBN-10: 0781768160; ISBN-13: 978-0781768160.
10. **Cham MD**, Yankelevitz DF. Biopsy Procedures of the Lung, Mediastinum, and Chest Wall. In: Handbook of Interventional Radiologic Procedures, 5th Ed. Krishna Kandarpa. Lippincott Williams & Wilkins, Philadelphia, PA: April 28, 2016, ISBN-10: 1496302079; ISBN-13: 978-1496302076.
11. Salvatore M, Azour L, ..., **Cham MD**, et al. Chest Radiology. In: Pulmonary Disease Examination and Board Review (American Board of Internal Medicine coverage). 1st Ed. Ronaldo Collo Go. McGraw-Hill Professional Publishing, New York, NY: May 17, 2016, ISBN-13: 9780071845298.
12. **Cham MD**. Radiographic Image Editor. In: Hurst's the Heart, 14th Ed. Fuster V. McGraw-Hill Professional Publishing, New York, NY: April 11, 2017, ISBN-10: 0071843248; ISBN-13: 978-0071843249.

Invited Lectures and Presentations:

1. Hot Topic Review Course: Biopsy of the Pulmonary Nodule
The New York Roentgen Society Annual Spring Meeting, New York, NY, April 25, 2007
2. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Bronx Lebanon Hospital Center, Bronx, NY, May 24, 2007
3. Cardiac Risk from Secondhand Smoke
Flight Attendant Medical Research Institute (FAMRI) conference, Miami, FL, May 15, 2007
4. Current State of Thoracic Imaging: Chest Wall, Pleural, and Mediastinal Tumors
The 4th New York Hospital of Queens Thoracic Oncology Symposium, November 6, 2007.
5. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Columbia University Medical Center, New York, NY, April 8, 2008
6. CT-Guided Lung Biopsy for Suspected Lung Cancer
Seminar in Lung Cancer Diagnosis and Treatment, Queens, NY, April 15, 2008
7. Resident Conference: MRI of Non-Ischemic Cardiomyopathies
University of Rochester Medical Center, Rochester, NY, April 18, 2008
8. Grand Rounds Lecture: The Secondary Pulmonary Lobule
University of Rochester Medical Center, Rochester, NY, April 18, 2008
9. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, April 19, 2008
10. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Bronx Lebanon Hospital Center, Bronx, NY, April 29, 2008
11. Update on Cardiac Risk from Secondhand Smoke
Flight Attendant Medical Research Institute (FAMRI) conference, Boston, MA, May 12, 2008
12. Case-Based Conference: Imaging Workup of Pulmonary Masses and Nodules
Columbia University Medical Center, New York, NY, March 12, 2009
13. Grand Rounds Lecture: Aunt Minnies of Cardiac CT and MRI
Columbia University Medical Center, New York, NY, March 12, 2009
14. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Columbia University Medical Center, New York, NY, April 14, 2009
15. Resident Lecture: Idiopathic Interstitial Pneumonias
University of Rochester Medical Center, Rochester, NY, April 17, 2009
16. Grand Rounds Lecture: Cardiovascular Cases Most Frequently Missed by Senior Residents
University of Rochester Medical Center, Rochester, NY, April 17, 2009
17. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, April 17-18, 2009
18. CT Technology: State of the Art

20th International Conference on Screening for Lung Cancer, Washington, DC, April 27, 2009

19. Future Directions with CT Evolution
Prevent Cancer Foundation - Lung Cancer Workshop VI, Bethesda, MD, May 5, 2009
20. Hot Topic Review Course: Coronary Calcium Scoring
The New York Roentgen Society Annual Spring Meeting, New York, NY, May 8, 2009
21. Update on Cardiac Risk from Secondhand Smoke
Flight Attendant Medical Research Institute (FAMRI) conference, Boston, MA, May 11-13, 2009
22. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Bronx Lebanon Hospital Center, Bronx, NY, May 19, 2009
23. Update on Multidetector CT Technology for Lung Cancer Imaging
21st International Conference on Screening for Lung Cancer, Zhuhai, China, October 24, 2009
24. Noninvasive Staging of Non-Small Cell Lung Cancer
Advances in Diagnosis and Treatment for Lung Cancer Symposium, New York, NY, October 31, 2009
25. MRI of Ischemic Cardiomyopathies
Salzburg Weill Cornell Seminar in Cardiac Imaging, Salzburg, Austria, November 16, 2009
26. MRI of Non-ischemic Cardiomyopathies
Salzburg Weill Cornell Seminar in Cardiac Imaging, Salzburg, Austria, November 17, 2009
27. CT of Coronary Artery Calcification
Salzburg Weill Cornell Seminar in Cardiac Imaging, Salzburg, Austria, November 17, 2009
28. Cardiac CT Image Quality and Radiation Dose
Salzburg Weill Cornell Seminar in Cardiac Imaging, Salzburg, Austria, November 19, 2009
29. Aunt Minnies of Cardiac Imaging
Salzburg Weill Cornell Seminar in Cardiac Imaging, Salzburg, Austria, November 19, 2009
30. MRI of Non-ischemic Cardiomyopathies
Society of Thoracic Radiology Conference, San Diego, CA, February 28, 2010
31. Moderator, Cardiothoracic CT and MRI session
Society of Thoracic Radiology Conference, San Diego, CA, March 2, 2010
32. Case-Based Review in Pulmonary Radiology
Columbia University Medical Center, New York, NY, March 27, 2010
33. Case-Based Review in Cardiovascular CT/MRI
Columbia University Medical Center, New York, NY, April 2, 2010
34. Resident Lecture: Nodular and Cystic Patterns on Chest CT
University of Rochester Medical Center, Rochester, NY, April 9, 2010
35. Grand Rounds Lecture: Groundglass Patterns on Chest CT
University of Rochester Medical Center, Rochester, NY, April 9, 2010

36. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, April 10, 2010
37. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Yale School of Medicine, New Haven, CT, April 17, 2010
38. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Cornell University Medical Center, New York, NY, April 24-25, 2010
39. Update on Lung and Cardiac Diseases in FAMRI Projects
23rd International Conference on Screening for Lung Cancer, New York, NY, October 23, 2010
40. Moderator, Cardiac CT/MRI, New York Roentgen Society Meeting
New York Academy of Medicine, New York, NY, November 15, 2010
41. Quiz Master, Cardiac CT/MRI, New York Roentgen Society Meeting
New York Academy of Medicine, New York, NY, November 15, 2010
42. Moderator, Pulmonary Oncology Scientific Session
Society of Thoracic Radiology Conference, Bonita Springs, FL, March 7, 2011
43. Resident Lecture: Pattern Recognition in Cardiac CT and MRI
Columbia University Medical Center, New York, NY, April 6, 2011
44. Grand Rounds Lecture: State of the Art Thoracic Imaging
Columbia University Medical Center, New York, NY, April 6, 2011
45. Case-Based Review in Pulmonary Radiology
Columbia University Medical Center, New York, NY, April 6, 2011
46. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Yale School of Medicine, New Haven, CT, April 8, 2011
47. Case-Based Review in Cardiovascular CT/MRI
Columbia University Medical Center, New York, NY, April 14, 2011
48. Case-Based Review in Pulmonary Radiology
Cornell University Medical Center, New York, NY, April 19, 2011
49. Case-Based Review in Pulmonary Radiology
University of Rochester Medical Center, Rochester, NY, April 22, 2011
50. Grand Rounds Lecture: Aunt Minnies in Cardiac CT and MRI
University of Rochester Medical Center, Rochester, NY, April 22, 2011
51. Case-Based Review in Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, April 23, 2011
52. Case-Based Review in Cardiovascular CT/MRI
Cornell University Medical Center, New York, NY, April 26, 2011
53. Cardiac CT Techniques
North American Society for Cardiovascular Imaging, Baltimore, MD, September 24, 2011

54. Coronary CTA: Techniques and Clinical Applications
International Institute for Continuing Medical Education (IICME) conference,
New York Academy of Medicine, New York, NY, October 12, 2011
55. CT-Guided Fine Needle Aspiration of Pulmonary Nodules
New York Roentgen Ray Society conference, New York, NY, October 14, 2011
56. MRI of the Heart and Great Vessels
Israel Radiological Association conference, Eilat, Israel, October 26, 2011
57. Case of the Day: Myocardial Tuberculosis
Society of Thoracic Radiology, Huntington Beach, CA, March 11, 2012
58. Moderator, Lung Neoplasms Scientific Session
Society of Thoracic Radiology, Huntington Beach, CA, March 11, 2012
59. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Cornell University Medical Center, New York, NY, April 13, 2012
60. Techniques for Combined Lung and Cardiac CT Screening
26th International Conference on Screening for Lung Cancer, Miami, FL, April 16-17, 2012
61. Lung and Cardiac CT Screening
Rochester Roentgen Ray Society conference, Rochester, NY, April 19, 2012
62. Grand Rounds Lecture: Cardiac CT Techniques and Applications
University of Rochester Medical Center, Rochester, NY, April 20, 2012
63. Case-Based Review in Pulmonary Radiology
University of Rochester Medical Center, Rochester, NY, April 20, 2012
64. Case-Based Review in Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, April 21, 2012
65. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Columbia University Medical Center, New York, NY, April 24, 2012
66. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Yale School of Medicine, New Haven, CT, May 12, 2012
67. Moderator, Clinical Safety and Efficacy Scientific Session
North American Society for Cardiovascular Imaging, Pasadena, CA, October 16, 2012
68. Status of Coronary Calcium Scoring in the Lung Screening Setting
9th Prevent Cancer Foundation Workshop, Hyattsville, MD, May 2, 2013
69. Case-Based Review in Pulmonary Radiology
Cornell University Medical Center, New York, NY, May 3, 2013
70. Case-Based Review in Cardiovascular CT/MRI
Cornell University Medical Center, New York, NY, May 4, 2013
71. Pulmonary Nodules: Fine Needle Aspiration Biopsy
Lung Cancer Screening: A Paradigm Shift in Primary Care,

One-Day Intensive Course at the Mount Sinai Medical Center, New York, NY, May 11, 2013

72. Case-Based Review in Pulmonary Radiology
University of Rochester Medical Center, Rochester, NY, May 24, 2013
73. Case-Based Review in Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, May 25, 2013
74. Scan Parameters and Image Reconstruction
29th International Conference on Screening for Lung Cancer, New York, NY, October 12, 2013
75. Coronary Artery Calcifications - Correlation of Ordinal and Agatston Scoring
29th International Conference on Screening for Lung Cancer, New York, NY, October 13, 2013
76. Evolution of Advances in Cardiothoracic Radiology
Chinese American Medical Society, 50th Annual Scientific Meeting, New York, NY, Nov 2, 2013
77. Moderator and Organizer, Cardiac Case of the Day
Radiological Society of North America, Chicago, IL, December 1-6, 2013
78. Management of Incidental Findings on Lung Cancer Screening CT
Rochester Roentgen Ray Society, Rochester, NY, May 22, 2014
79. Grand Rounds Lecture: Aunt Minnies of Cardiac CT and MRI
University of Rochester Medical Center, Rochester, NY, May 23, 2014
80. Case-Based Review in Pulmonary Radiology
University of Rochester Medical Center, Rochester, NY, May 23, 2014
81. Case-Based Review in Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, May 24, 2014
82. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Cornell University Medical Center, New York, NY, May 30, 2014
83. Panelist, Image Interpretation Panel Team Competition
North American Society for Cardiovascular Imaging, New Orleans, LA, September 21, 2014
84. Moderator and Organizer, Cardiac Case of the Day
Radiological Society of North America, Chicago, IL, November 30-December 5, 2014
85. Interesting Case Session: Dilemmas in Collateral Benefits
Integrating 20 Years of Experience in CT Screening for Lung Cancer Into Everyday Practice:
An International Two-Day Intensive Course for Practicing Clinicians
Mount Sinai Medical Center, New York, NY, December 5-6, 2014
86. Grand Rounds Lecture: Debunking Common Myths in Cardiothoracic Radiology
University of Rochester Medical Center, Rochester, NY, May 1, 2015
87. Grand Rounds Lecture: CT-Guided Lung Biopsy in the Era of Cancer Screening CT
University of Rochester Medical Center, Rochester, NY, May 1, 2015
88. Case-Based Review in Pulmonary Radiology
University of Rochester Medical Center, Rochester, NY, May 1, 2015

89. Case-Based Review in Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, May 2, 2015
90. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Cornell University Medical Center, New York, NY, May 12, 2015
91. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Lennox Hill Hospital, New York, NY, May 20, 2015
92. Moderator, Multimodality Case-Based Reviews
North American Society for Cardiovascular Imaging, San Diego, CA, September 29, 2015
93. Multimodality Imaging of Cardiomyopathies
North American Society for Cardiovascular Imaging, San Diego, CA, September 29, 2015
94. Case-Based Review in Pulmonary Radiology
University of Rochester Medical Center, Rochester, NY, March 5, 2016
95. Case-Based Review in Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, March 6, 2016
96. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Lennox Hill Hospital, New York, NY, May 20, 2016
97. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Cornell University Medical Center, New York, NY, June 3, 2016
98. Case-Based Review in Cardiovascular CT/MRI
Memorial Sloan Kettering Cancer Center, East Meadow, NY, Sept 26, 2016
99. Grand Rounds Lecture: Aunt Minnies in Cardiac CT and MRI
Nassau University Medical Center, East Meadow, NY, Sept 30, 2016
100. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Nassau University Medical Center, East Meadow, NY, Sept 30, 2016
101. Moderator, Multimodality Case-Based Reviews
North American Society for Cardiovascular Imaging, Baltimore, MD, October 18, 2016
102. Multimodality Imaging of Cardiomyopathies
North American Society for Cardiovascular Imaging, Baltimore, MD, October 18, 2016
103. Moderator, Cardiothoracic Imaging – A Practical Approach
New York Roentgen Society Annual Meeting, New York, NY, October 28, 2016
104. Myths in Cardiovascular Imaging
New York Roentgen Society Annual Meeting, New York, NY, October 28, 2016
105. MRI of Myocarditis
American Heart Association Annual Meeting, New Orleans, LA, November 15, 2016
106. Moderator, Laennec Clinician/Educator Lecture – Dr. Robert Harrington "Rethinking randomized clinical trials," American Heart Association Annual Meeting, New Orleans, LA, November 15, 2016

107. Moderator, Chest Scientific Session (Vascular/Interventional) S404CD, Radiological Society of North America, Chicago, IL, November 30, 2016
108. Controversies in Lung Cancer Screening
Philippine Chinese American Medical Association, Queens, NY, December 4, 2016
109. Grand Rounds Lecture: MRI of Myocarditis
Nassau University Medical Center, East Meadow, NY, April 14, 2017
110. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Nassau University Medical Center, East Meadow, NY, April 14, 2017
111. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Lenox Hill Hospital, New York, NY, May 12, 2017
112. Case-Based Review in Pulmonary and Cardiovascular CT/MRI
Cornell University Medical Center, New York, NY, May 15, 2017
113. Moderator, Cardiac Section, Beat the Clock Session
American College of Radiology Annual Meeting, Washington, DC, May 21, 2017
114. Case-Based Review in Pulmonary Radiology
University of Rochester Medical Center, Rochester, NY, May 26, 2017
115. Case-Based Review in Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, May 27, 2017
116. Panelist, Image Interpretation Panel Team Competition
North American Society for Cardiovascular Imaging, Anaheim, CA, October 8, 2017
117. Distinguishing Cardiac Tumor from Thrombus on MRI
American Heart Association Annual Meeting, Anaheim, CA, November 13, 2017
118. Panelist, Molecular Imaging Roundtable Forum,
Radiological Society of North America, Chicago, IL, November 25, 2017
119. Moderator, Cardiac Scientific Session (Acute Chest Pain/Cardiopulmonary Disease) SSM04,
Radiological Society of North America, Chicago, IL, November 29, 2017
120. Moderator, Chest Scientific Session (Intervention/Ablation) SSQ04,
Radiological Society of North America, Chicago, IL, November 30, 2017
121. Grand Rounds Lecture: MRI of Cardiac Masses
Columbia University Medical Center, New York, NY, December 8, 2017
122. Grand Rounds Lecture: MRI of Cardiac Masses
University of Rochester Medical Center, Rochester, NY, March 2, 2018
123. Case-Based Review in Pulmonary Radiology
University of Rochester Medical Center, Rochester, NY, March 2, 2018
124. Case-Based Review in Cardiovascular CT/MRI
University of Rochester Medical Center, Rochester, NY, March 3, 2018

Presentations at National and International Conferences:

1. **Cham MD**, Yankelevitz DF, Henschke CI. Indirect CT venography in the detection of deep vein thrombosis. American College of Chest Physicians 1999, oral presentation.
2. **Cham MD**, Yankelevitz DF, Henschke CI. Effects of indirect CT venography on thromboembolic disease evaluation. RSNA 1999, oral presentation.
3. **Cham MD**, Yankelevitz DF, Henschke CI. Indirect CT venography in the detection of deep vein thrombosis. Associated Medical Schools of New York 2000, oral presentation.
4. **Cham MD**, Yankelevitz DF, Shaham D, et al. Common diagnostic pitfalls of indirect CT venography. RSNA 2000, scientific poster.
5. **Cham MD**, Yankelevitz DF, Henschke CI. Indirect CT venography: consistent increase in thromboembolic disease detection. RSNA 2002, scientific poster.
6. **Cham MD**, Yankelevitz DF, Henschke CI. Indirect CT venography: distribution of DVT in suspected pulmonary embolism. RSNA 2002, oral presentation.
7. **Cham MD**, Hiwatashi A, Westesson PL. Axial-loading in MRI for detection of spinal canal stenosis. RSNA 2004, educational poster.
8. **Cham MD**, Fultz PJ. Imaging of acute chest pain. ARRS 2005, educational poster.
9. **Cham MD**, Yankelevitz DF, Kramer AL, et al. Comparison of PET CT and fine needle aspiration of solitary pulmonary nodules 10mm or less. RSNA 2005, oral presentation.
10. **Cham MD**, Yankelevitz DF, Henschke CI. Biopsy of pulmonary nodules using steerable needles. RSNA 2006, oral presentation.
11. **Cham MD**, Janik M, Min JK, Devereux RB, Henschke CI, Yankelevitz DF, Weinsaft JW. Established MRI methods for ejection fraction and myocardial mass quantification produce significantly different results based on trabecular and papillary volumes: Effects on clinical standards in heart failure. American Heart Association 2006, scientific poster.
12. Keller BM, Reeves AP, **Cham MD**, Henschke CI, Yankelevitz DF. Semi-automated location identification of catheters in digital chest radiographs. SPIE International Symposium on Medical Imaging 2007, February 2007, scientific poster.
13. Browder WA, Reeves AP, Apananosovich TV, **Cham MD**, Yankelevitz DF, Henschke CI. Automated volumetric segmentation method for growth consistency of nonsolid pulmonary nodules in high-resolution CT. SPIE International Symposium on Medical Imaging 2007, February 2007, scientific poster.
14. Jirapatnakul AC, Reeves AP, Apanasovich TV, **Cham MD**, Yankelevitz DF, Henschke CI. Characterization of solid pulmonary nodules using three-dimensional features. SPIE International Symposium on Medical Imaging 2007, February 2007, scientific poster.
15. Jirapatnakul AC, Reeves AP, Apanasovich TV, **Cham MD**, Yankelevitz DF, Henschke CI. Prediction of tumor volumes using an exponential model. SPIE International Symposium on Medical Imaging 2007, February 2007, scientific poster.

16. Fotin SV, Reeves AP, **Cham MD**, Yankelevitz DF, Henschke CI. Segmentation of coronary arteries from CT angiography images. SPIE International Symposium on Medical Imaging, February 2007, scientific poster.
17. Nguyen TD, Spincemaille P, Weinsaft JW, Ho BY, **Cham MD**, Prince MR, Wang Y. A fast free-breathing 3D sequence for delayed enhancement imaging of the myocardium: Comparison with standard 2D breath-hold imaging. Proceedings of the 15th Scientific Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine, Berlin, Germany, May 19-25, 2007, scientific poster.
18. Codella NC, Weinsaft JW, **Cham MD**, Prince MA, Wang Y. Partial Voxel Segmentation of the Left Ventricle: Interpolating Blood Content of Voxels. Proceedings of the 15th Scientific Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine, Berlin, Germany, May 19-25, 2007, scientific poster.
19. Huang Y, **Cham MD**, Yankelevitz DF, Henschke CI for the I-ELCAP Investigators. Missed lung cancer in dedicated coronary CT angiography. RSNA 2007, oral presentation.
20. Nguyen TD, Spincemaille P, Weinsaft JW, **Cham MD**, Ho BY, Prince MR, Wang Y. Rapid and accurate free-breathing 3D delayed enhancement imaging for myocardial viability assessment: Comparison with breath-hold 2D imaging. SCMR 2008, February 2008, scientific poster.
21. Nguyen TD, Spincemaille P, Weinsaft JW, **Cham MD**, Prince MR, Wang Y. Free-breathing steady-state free precession 3D coronary MRA: Comparison of diaphragm and cardiac fat navigator techniques. SCMR 2008, February 2008, scientific poster.
22. Nguyen TD, **Cham MD**, Spincemaille P, Prince MR, Weinsaft JW, Wang Y. Clinical evaluation of free-breathing 3D delayed enhancement imaging for myocardial viability assessment: Comparison with routine breath-hold 2D imaging. International Society for Magnetic Resonance in Medicine, Toronto, Ontario, Canada, May 3-9, 2008, scientific poster.
23. Kee S, Lee E, Loh C, Gong G, **Cham MD**, Yankelevitz DF. Characteristics of an ideal sealant to reduce pneumothorax following lung biopsy: evaluation of a newly developed material. European Respiratory Society, Berlin, Germany, October 5, 2008, scientific poster.
24. Kee S, Lee E, Loh C, Gong G, **Cham MD**, Yankelevitz DF. Evaluation of long-term safety of a novel sealant to prevent pneumothorax in transthoracic needle biopsy. European Respiratory Society, Berlin, Germany, October 5, 2008, scientific poster.
25. Healy KO, Chinitz J, Kim RJ, Shakoob A, Ross MI, **Cham MD**, et al. Left ventricular systolic dysfunction predicts incremental utility of delayed enhancement CMR vs. echocardiography for diagnosis of LV thrombus. Journal of Cardiovascular Magnetic Resonance, January 2009; 11(S1):P140. Society of Cardiovascular Magnetic Resonance, Orlando, FL, January 29-February 1, 2009, scientific poster.
26. Nguyen TD, **Cham MD**, Chinitz J, Spincemaille J, Min JK, Lerman BB, Prince MR, Wang Y, and Weinsaft JW. Improved MRI assessment of the left atrial appendage using delayed enhancement imaging as compared to black blood fast spin echo imaging. International Society for Magnetic Resonance in Medicine, Honolulu, Hawaii, April 21, 2009, scientific poster.
27. Nguyen TD, Brown R, **Cham MD**, Spincemaille P, Winchester PA, Choi G, Prince MR, and Wang Y. Black blood vessel wall imaging of the lower extremities with T2prep inversion recovery: A feasibility study. International Society for Magnetic Resonance in Medicine, Honolulu, Hawaii, April 23, 2009, oral presentation.

28. Brown R, Nguyen TD, Spincemaille P, Choi G, **Cham MD**, Winchester PA, Prince MR, and Wang Y. T2 mapping to differentiate slow flowing blood from vessel wall. International Society for Magnetic Resonance in Medicine, Honolulu, Hawaii, April 24, 2009, scientific poster.
29. Chazen JL, **Cham MD**. A primer: How to approach cardiac CT. Association of University Radiologists, Arlington, Virginia, May 12-15, 2009, educational poster.
30. Chinitz JS, Shakoor A, **Cham MD**, et al. Prevalence, predictors, and functional consequences of sub-clinical papillary muscle infarction following acute myocardial infarction. *Circulation*, Nov 2009; 120: S314. American Heart Association, Orlando, FL, November 14-18, 2009, oral presentation.
31. Chazen JL, Prince MR, Weinsaft JW, Henschke CI, **Cham MD**. MRI of ischemic cardiomyopathies. Radiological Society of North America, Chicago, IL, November 29-December 4, 2009, educational poster.
32. **Cham MD**, Zhang L, Yip R, Henschke CI, Yankelevitz DF. Radiation dose reduction during Chest CT using scan length optimization. 22nd International Conference on Screening for Lung Cancer, Arizona State University, Tempe, AZ, May 21, 2010, oral presentation.
33. Gelbman BD, **Cham MD**, Kim W, Libby DM, Port JL, Altorki N, Smith JP, Henschke CI, Yankelevitz DF. Outcomes after a benign result from a CT-guided transthoracic fine needle aspiration of a pulmonary nodule. American Thoracic Society, New Orleans, LA, May 14-19, 2010, oral presentation.
34. Chazen JL, Sanz J, **Cham MD**. Cardiac MR imaging of nonischemic cardiomyopathies: What the referring clinician needs to know. Radiological Society of North America, Chicago, IL, November 28-December 3, 2010, educational poster.
35. Goyal P, Chinitz JS, **Cham MD**, et al. Mitral apparatus assessment by delayed enhancement cardiac magnetic resonance imaging - Impact of infarct distribution on ischemic mitral regurgitation. The New York Cardiological Society and the 21st Annual Meeting of the New York State Chapter of the American College of Cardiology. Rochester, NY, September 24, 2011, scientific poster.
36. Yankelevitz DF, Henschke CI, **Cham MD**, Xu D, Foos DH. Dedicated gridded cassettes: Effect on digital portable chest X-ray image quality in the intensive care unit. Radiological Society of North America, Chicago, IL, November 27-December 2, 2011, scientific poster.
37. Newman TM, **Cham MD**, Zhang H, Hentel KD, Mennitt K, Heier L, Prince MR. Clinical demand for chest/abdomen/pelvis anatomy following thoracic or lumbar spine CT. Radiological Society of North America, Chicago, IL, November 27-December 2, 2011, scientific poster.
38. Bercu Z, Sanz J, et al, **Cham MD**. A pictorial review of LVAD cases and associated complications on cardiac CTA. Radiological Society of North America, Chicago, IL, November 27-December 2, 2011, educational poster.
39. Patil VV, Banguesses R, Sanz J, Conroy J, **Cham MD**. EKG correlates of cardiac MRI: What every cardiac radiologist needs to know. Radiological Society of North America, Chicago, IL, November 27-December 2, 2011, educational poster. Recipient of a certificate of merit award.
40. Goyal P, Chinitz J, Islam F, Chen DW, Wilson S, Venkatesh P, **Cham MD**, et al. Mitral apparatus assessment by delayed enhancement CMR- relative impact of papillary muscle and left ventricular wall infarction on ischemic mitral regurgitation. Society of Cardiovascular Magnetic Resonance,

Orlando, FL, February 2-5, 2012, scientific poster.

41. Wilson S, Chinitz JS, ..., **Cham M**, et al. Papillary muscle infarction in relation to left ventricular infarct distribution and transmuralty - Assessment by delayed enhancement cardiac magnetic resonance imaging. Society of Cardiovascular Magnetic Resonance, Orlando, FL, February 2-5, 2012, scientific poster.
42. Yankelevitz DF, Henschke CI, **Cham MD**, et al. Effect of ambient lighting on optimal viewing of portable chest X-ray images. Society of Thoracic Radiology, Huntington Beach, CA, March 11-14, 2012, scientific poster.
43. Pozo E, Castellano JM, Deochand R, Kanwar A, Ramachandran S, Arias T, **Cham MD**, Narula J, Fuster V, Sanz J. Diagnostic accuracy of myocardial T1 mapping to detect cardiac amyloidosis. *Circulation*. 2012; 126: A17540. American Heart Association, Los Angeles, CA, November 3-7, 2012, oral presentation.
44. Pozo E, **Cham MD**, Kadoch MA, Yankelevitz DF, Henschke CI, Yip R, Matarazzo TJ, Hecht HS. Effects of iterative reconstruction on coronary artery calcium scoring. *Circulation*. 2012; 126: A12003. American Heart Association, Los Angeles, CA, November 3-7, 2012, scientific poster.
45. Pozo E, Deochand R, Kanwar A, Ramachandran S, Castellano JM, **Cham MD**, Fuster V, Narula J, Sanz J. Cardiac amyloid burden estimated with myocardial T1 mapping is associated with severity of cardiac disease. *Circulation*. 2012; 126: A17479. American Heart Association, Los Angeles, CA, November 3-7, 2012, scientific poster.
46. Cohen SL, **Cham MD**, Patel U, et al. Variability of CT technologist expertise and its significant impact on radiation dose: An analysis of 1,120 consecutive chest CTs. Radiological Society of North America, Chicago, IL, November 25-30, 2012, scientific poster.
47. Kadoch MA, Horn JS, **Cham MD**, et al. A rational web-based approach for learning and reviewing the appearance of cardiac masses as shown by radiograph, ultrasound, CT, and MRI, with corresponding gross pathology and histology. Radiological Society of North America, Chicago, IL, November 25-30, 2012, educational poster.
48. Pozo E, Castellano JM, Deochand R, Kanwar A, Pazos P, García-Lunar I, **Cham MD**, Jacobi A, Narula J, Fuster V, Sanz J. Revisiting morphological features of cardiac amyloid with cardiac magnetic resonance. *Journal of Cardiovascular Magnetic Resonance* 2013; 15(Suppl 1):P154. Society of Cardiovascular Magnetic Resonance, San Francisco, CA, January 30-February 3, 2013, scientific poster.
49. Pozo E, Castellano JM, Naib T, Pazos P, García-Lunar I, Deochand R, Kanwar A, Ramachandran S, **Cham MD**, Fuster V, Narula J, Sanz J. Atrial delayed enhancement pattern is associated with the severity of cardiac involvement in cardiac amyloid. *Journal of Cardiovascular Magnetic Resonance* 2013; 15(Suppl 1):P143. Society of Cardiovascular Magnetic Resonance, San Francisco, CA, January 30-February 3, 2013, scientific poster.
50. Pozo E, Castellano JM, Kanwar A, Deochand R, Ramachandran S, Calcagno C, Pazos P, García-Lunar I, **Cham MD**, Fuster V, Sanz J. Estimation of cardiac amyloid infiltration with myocardial T1 mapping correlates with severity of cardiac involvement. *Journal of Cardiovascular Magnetic Resonance* 2013; 15(Suppl 1):P161. Society of Cardiovascular Magnetic Resonance, San Francisco, CA, January 30-February 3, 2013, scientific poster.
51. Pazos P, Pozo E, ..., **Cham MD**. Diagnostic value of cardiac magnetic resonance for the differential diagnosis of thrombus vs tumor. *Journal of Cardiovascular Magnetic Resonance* 2013; 15(Suppl

- 1):P103. Society of Cardiovascular Magnetic Resonance, San Francisco, CA, January 30-February 3, 2013, scientific poster.
52. Pozo E, Castellano JM, .., **Cham MD**, et al. Diagnosis accuracy of myocardial T1 mapping in cardiac amyloidosis. American College of Cardiology, San Francisco, CA, March 9-11, 2013, scientific poster.
53. E Pozo, **MD Cham**, MA Kadoch, DF Yankelevitz, CI Henschke, R Yip, TJ Matarazzo, HS Hecht. Effects of decreasing tube voltage and current on coronary artery calcium scoring. American College of Cardiology, San Francisco, CA, March 9-11, 2013, scientific poster.
54. Cohen S, **Cham MD**. Personalized technologist education to reduce excess Z-axis scanning: quality assurance and radiation dose. Radiological Society of North America, Chicago, IL, December 1-6, 2013, scientific presentation.
55. Lo G, Kadoch M, **Cham, MD**. Yield of screening chest radiography for a positive PPD test in New York City. Radiological Society of North America, Chicago, IL, December 1-6, 2013, scientific presentation.
56. Cohen S, **Cham MD**. Impact of CT scanner capabilities on excess z-axis scan length and its associated radiation dose. Radiological Society of North America, Chicago, IL, December 1-6, 2013, scientific presentation.
57. Cohen S, **Cham MD**. Minimizing z-axis scan length during chest CT: Guidelines for dose reduction. Radiological Society of North America, Chicago, IL, December 1-6, 2013, scientific presentation.
58. Kadoch M, **Cham MD**. Idiopathic interstitial pneumonias: A radiology-pathology correlation. Radiological Society of North America, Chicago, IL, December 1-6, 2013, scientific presentation.
59. King M, Sanz J, Jacobi A, **Cham MD**. Cardiac MRI of restrictive cardiomyopathies: Beyond the basics. Radiological Society of North America, Chicago, IL, November 29-December 4, 2015, educational poster.
60. Azour L, Jacobi AH, **Cham MD**. The heart of the matter: Cardiac imaging of sarcoidosis. Society of Thoracic Radiology, Scottsdale, AZ, March 13-16, 2016, educational poster. Recipient of a certificate of merit award.
61. Azour L, Jacobi AH, **Cham MD**. Beyond clot: Pictorial review of atrial embryology, anomalies, and acquired lesions. Society of Thoracic Radiology, Scottsdale, AZ, March 13-16, 2016, educational poster.
62. Chang R, King M, **Cham MD**. Introduction to the total artificial heart: What the radiologist needs to know. Radiological Society of North America, Chicago, IL, November 27-December 2, 2016, educational poster.
63. Azour L, Jacobi AH, Sanz J, LaRocca G, **Cham MD**. What's in the bag: Multimodality imaging of the pericardium. Radiological Society of North America, Chicago, IL, November 27-December 2, 2016, educational poster.
64. Azour L, **Cham MD**. A winding road: Congenital coronary artery anomalies. Radiological Society of North America, Chicago, IL, November 27-December 2, 2016, educational poster. Recipient of a certificate of merit award.

65. Azour L, Sanz J, **Cham MD**, et al. Look and Locker: Novel applications of the inversion time mapping sequence. World Congress of Thoracic Imaging, Boston, MA, June 18-21, 2017, educational poster.
66. Azour L, Sanz J, **Cham MD**, et al. Spikes and dips: CMR imaging manifestations of the ECG. World Congress of Thoracic Imaging, Boston, MA, June 18-21, 2017, educational poster.
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