

Curriculum Vitae

A. Identifying data

Nishita Kothary, MD, FSIR
Associate Professor of Radiology
Interventional Radiology
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B. Academic History

1. Colleges and Universities Attended

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| 1988-90 | Chauhan College of Science, Bombay University, Mumbai (Bombay), India (11 th -12 th grade high school equivalent) |
| 1990-96 | Topiwala National Medical College and BYL Nair Hospitals, Bombay University, Mumbai (Bombay), India Degree: MBBS (Bachelor of Medicine, Bachelor of Surgery, equivalent to the MD awarded in USA) |

2. Residency and Fellowship Training

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| 1996-97 | Internship, Internal Medicine, Good Samaritan Hospital, Cincinnati, OH |
| 1997-98 | Residency, Diagnostic Radiology, Medical College of Ohio, Toledo, OH |
| 1998-01 | Residency, Diagnostic Radiology, George Washington University, Washington DC |
| 2001-02 | Fellowship, Neuroradiology, NYU School of Medicine, New York, NY |
| 2002-03 | Fellowship, Interventional Radiology, Hospitals of the University of Pennsylvania and Children's Hospital of Philadelphia, Philadelphia, PA |

3. Specialty Board Certification

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| 2001 | Diagnostic Radiology, American Board of Radiology |
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2006 Certificate of Additional Qualification in Vascular and Interventional Radiology, American Board of Radiology

C. Employment

2003-06 Assistant Professor of Radiology
Columbia University Medical Center, New York, NY

2003-06 Faculty, Lawrence Medical Center, Bronxville, NY

4/1/06-8/31/06 Acting Assistant Professor of Radiology
Stanford University School of Medicine, Stanford, CA

09/1/06-2/28/13 Assistant Professor of Radiology
Stanford University School of Medicine, Stanford, CA

2/28/13-present Associate Professor of Radiology
Stanford University School of Medicine, Stanford, CA

D. Professional Service

1. Stanford University

- a. Fellowship and Education Director, Interventional Radiology (2006-09).
- b. Residency selection committee, Diagnostic Radiology (2006-08).
- c. Department Senator for Radiology, Stanford University Medical School Faculty Senate (2008-11).
- d. Director, Clinical Operations, Interventional Radiology (2008-13).
- e. Member, Scientific Review Committee (SRC), Cancer Center (2010-present).
- f. Interim Section Chief, Interventional Radiology (3/2012 – 10/2012).
- g. Faculty lead, Centralization of Radiology Clinical Trials Office (2012-present).

2. Societal

- a. Exam Writer for Interventional Radiology (VIR) module, board certification exam (EOF), American Board of Radiology (2010-13).
- b. Editorial Board, Journal of Vascular and Interventional Radiology (2013-present).
- c. Abstract Reviewer for the annual SIR scientific meeting (2013-present).
- d. Abstract Reviewer for the annual Global Embolization and Cancer Symposium and Technologies (2015-present).
- e. Governing Member, Women in IR, SIR sub-committee (2014-present).
- f. Grant Reviewer, Grant Study Section, Society of Interventional Radiology Foundation (SIRF) (2014-present).
- g. Member, SIRF Grants and Research Education Division, SIR (2015-present).
- h. Mentor, Medical Student Mentoring program, Society of Interventional Radiology (2005-present).
- i. Grant Reviewer, Biomedical research applications, The India Alliance in partnership with the Government of India (2016)

- j. Editorial Board, Digestive Disease Interventions (2016-present)
- 3. Manuscript Reviewer**
- a. Journal of Vascular and Interventional Radiology
 - b. Cardiovascular and Interventional Radiology
 - c. European Radiology
 - d. Digestive Diseases and Sciences
 - e. World Journal of Surgical Oncology
 - f. Clinical Lung Cancer
 - g. Lung Cancer
 - h. Advances in Medical Education and Practice
- 4. Guest Editor, Navigation Tools for Image Guided Therapy, Techniques in Vascular and Interventional Radiology (2012).**
- 5. Other**
- a. Clerkship Director for Interventional Radiology (RAD 305), Stanford University (2007-11).
 - b. Invited member, American Association of Physicists in Medicine to establish recommendations on target surrogates for radiation therapy applications (2009-11).
 - c. Member, Management Action Team for Cathlab/Renoir Group, Stanford Hospital and Clinics (2011-12).
 - d. Medical advisory board, Women's Health @ Stanford and Women's Heart Health @ Stanford (2006-10).
- 6. Services rendered at other institutions**
- a. Clinical Director of Interventional Radiology, Lawrence Medical Center, Bronxville, NY (2003-2006).
 - b. Resource utilization, Lawrence Medical Center, Bronxville, NY (2004-06).
 - c. Residency selection committee for Diagnostic Radiology, Columbia University Medical Center, New York, NY (2004-06).
 - d. Executive finance committee, Department of Radiology, Columbia University Medical Center, New York, NY (2005-06).
 - e. Strategic research committee, Steering committee for translational and hypothesis-based research, Department of Radiology, Columbia University Medical Center, New York, NY (2005-06).

E. Post –degree Honors, Awards and Memberships

1. Honors and Awards

- a. Chief Resident in Radiology, George Washington University, Washington DC (1999-00).
- b. JVIR Distinguished Reviewer Award (2006).
- c. Selected amongst peers to participate in 2009-10 Stanford Leadership Development Program (2009-10).
- d. Selected amongst peers to participate in the 2010 RSNA Clinical Trials Methodology Workshop, Scottsdale, AZ (2010).

- e. Elected to the Society of Interventional Radiology Fellowship (FSIR) for outstanding contribution to the field of Interventional Radiology (research, education and citizenship) (2011).
- f. Selected amongst peers to participate in 2012-13 Stanford Faculty Fellows Leadership Program (2012-13).
- g. Stanford Cancer Institute for Outstanding Performance in Clinical Research (2013).
- h. Nominated for the inaugural cohort of Clinical Effectiveness and Leadership Training, Stanford University (2014-15).

2. Professional Memberships

Society of Interventional Radiology

American Medical Association

Association of Program Directors in Interventional Radiology (2006-09)

F. Scholarly Publications

1. Peer Reviewed Articles

1. **Kothary N**, Soulen MC, Clark TWI, Wein AJ, Shlansky-Goldberg RD, Crino PB, Stavropoulos SW. Renal Angiomyolipoma: Long Term Results after Arterial Embolization. *J Vasc Interv Radiol*. 2005 Jan; 16(1): 45-50.
2. Weintraub JL, Mobley DG, Weiss ME, Swanson E, **Kothary N**. A Novel Endovascular Adjustable Polytetrafluoroethylene-covered Stent for the Management of Hepatic Encephalopathy after Transjugular Intrahepatic Portosystemic Shunt. *J Vasc Interv Radiol*. 2007 Apr; 18(4): 563-66.
3. **Kothary N**, Weintraub JL, Susman J, Rundback JH. Transarterial Chemoembolization for Primary Hepatocellular Carcinoma in Patients at High Risk. *J Vasc Interv Radiol*. 2007 Dec; 18(12): 1517-26 (**CME credit article**).
4. Padda S, **Kothary N***, Donington J, Cannon W, Loo B, Kee S, Wakelee H. Complications of Ablative Therapies in Lung Cancer. *Clin Lung Cancer*. 2008 Mar; 9 (2): 122-26. **Conception and design, acquisition of data and analysis of data, Dr Padda, mentee.*
5. Kuo WT, Van den Bosch MA, Hofmann LV, Louie JD, **Kothary N**, Sze DY. Catheter-Directed Embolectomy, Fragmentation, and Thrombolysis for the Treatment of Massive Pulmonary Embolism after Failure of Systemic Thrombolysis. *Chest*. 2008 Aug; 134: 250-54.
6. Hunt S, Yu W, Weintraub JL, Prince M, **Kothary N**. Radiologic Monitoring of Hepatocellular Carcinoma Tumor Viability after Transhepatic Arterial Chemoembolization: Estimating the Accuracy of Contrast-enhanced Cross-sectional Imaging with Histopathologic Correlation. *J Vasc Interv Radiol*. 2009 Jan; 20(1): 30-38.
7. **Kothary N**, Heit JH, Louie JD, Kuo WT, Loo BW, Koong A, Chang DT, Hovsepian D, Sze DY, Hofmann LV. Safety and Efficacy of Percutaneous Fiducial Marker Implantation for Image-guided Radiotherapy. *J Vasc Interv Radiol*. 2009 Feb; 20(2): 235-39.

8. **Kothary N**, Dieterich S, Louie JD, Chang DT, Hofmann LV, Sze DY. Percutaneous Implantation of Fiducial Markers for Image Guided Radiotherapy. *AJR Am J Roentgenol*. 2009 Apr; 192(4): 1090-6.
9. Louie JD, **Kothary N**, Kuo WT, Hwang GL, Hofmann LV, Goris ML, Iagaru A, Sze DY. Incorporating Cone-Beam CT into the Treatment Planning for Yttrium Radioembolization. *J Vasc Interv Radiol*. 2009 May; 20(5): 606-13.
10. **Kothary N**, Dieterich S, Louie JD, Koong AC, Hofmann LV, Sze DY. A Primer on Image-Guided Radiation Therapy for the Interventional Radiologist. *J Vasc Interv Radiol*. 2009 Jul; 20(7): 859-62.
11. **Kothary N**, Lock L, Sze DY, Hofmann LV. CT Guided Percutaneous Needle Biopsy of Pulmonary Nodules: Impact of Size on Diagnostic Accuracy. *Clin Lung Cancer*. 2009 Sept; 10(5): 360-363.
12. **Kothary N**, Tognolini A, Louie JD, Hwang GL, Hofmann LV, Sze DY. Utility of Cone-Beam CT in Patients with Hepatocellular Carcinoma Undergoing Transarterial Hepatic Chemoembolization. *J Vasc Interv Radiol*. 2010 Mar; 21(3): 339-47.
13. Ghatan CE, Kuo WT, Hofmann LV, **Kothary N**. Making the Case for Early Medical Student Education in Interventional Radiology: A Survey of Second-Year Students in a Single US Institution. *J Vasc Interv Radiol*. 2010 Apr; 21(4): 549-53.
14. **Kothary N**, Bartos JB, Hwang GL, Dua R, Hofmann LV. Computed Tomography-guided Percutaneous Needle Biopsy of Indeterminate Pulmonary Pathology: Efficacy of Obtaining a Diagnostic Sample in Immunocompetent and Immunocompromised Patients. *Clin Lung Cancer*. 2010 Jul 1; 11(4): 251-6.
15. Abdelmaksoud MH, Hwang GL, Louie JD, **Kothary N**, Hofmann LV, Kuo WT, Hovsepian DM, Sze DY. Development of New Hepaticocentric Collateral Pathways after Hepatic Arterial Skeletonization in Preparation for Yttrium-90 Radioembolization. *J Vasc Interv Radiol*. 2010 Sep; 21(9): 1385-95.
16. **Kothary N**, Ghatan CE, Hwang GL, Kuo WT, Sze DY, Hovsepian DM, Desser TS, Hofmann LV. Renewing Focus on Resident Education: Increased Responsibility and Ownership in Interventional Radiology Rotations Improves the Educational Experience. *J Vasc Interv Radiol*. 2010 Nov; 21(11): 1697-702.
17. Tognolini A, Louie JD, Hwang GL, Hofmann LV, Sze DY, **Kothary N**. C-arm CT for Hepatic Interventions: A Practical Guide. *J Vasc Interv Radiol*. 2010 Dec; 21(12): 1817-23.
18. Hong JC, Yao Y, Rao AK, Dieterich S, Maxim PG, Sze DY, **Kothary N (Co-corresponding Author/equal contribution)**, Loo BW (Co-corresponding Author). High Retention and Safety of Vascular Embolization Coils as Fiducial Markers for Image-Guided Stereotactic Ablative Radiotherapy of Pulmonary Tumors. *Int J Radiat Oncol Biol Phys*. 2011 Sept; 81(1): 85-90.

19. Chan KT, Popat RA, Sze DY, Kuo WT, **Kothary N**, Louie JD, Hovsepian DM, Hwang GL, Hofmann LV. Common Iliac Vein Stenosis and Risk of Pulmonary Embolism: An Inverse Correlation. *J Vasc Interv Radiol*. 2011 Feb; 22(2): 133-41.
20. Meer AB, Louie JD, Abdelmaksoud MHK, **Kothary N**, Hovsepian DM, Hofmann LV, Kuo WT, Hwang GL, Sze DY. Intrahepatic Collateral Supply to The Previously Embolized Right Gastric Artery: A Potential Pitfall for Nontarget Radioembolization. *J Vasc Interv Radiol*. 2011 Apr; 22(4): 575-7.
21. Kuo WT, Odegaard JI, Louie JD, Unver K, **Kothary N**, Rosenberg JK, Sze DY, Hovsepian DM, Hofmann LV. Photothermal Ablation with the Excimer Laser Sheath Technique for Embedded IVC Filter Removal: Initial Results from a Prospective Study. *J Vasc Interv Radiol*. 2011 Jun; 22(6): 813-23.
22. Kuo WT, Cupp JS, Louie JD, **Kothary N**, Hofmann LV, Sze DY, Hovsepian DM. Complex Retrieval of Embedded and Permanent IVC Filters: Alternative Techniques and Histologic Tissue Analysis. *Cardiovasc Intervent Radiol*. 2012 Jun; 35(3):588-97.
23. Chan KT, Tye GA, Kuo WT, Popat RA, **Kothary N**, Sze DY, Unver K, Hofmann LV. Common Iliac Vein Stenosis: A Risk Factor for Oral Contraceptive-Induced Deep Venous Thrombosis. *Am J Obstet Gynecol*. 2011 Dec; 205(6): 537.e1-6.
24. Abdelmaksoud MH, Louie JD, **Kothary N**, Hwang GL, Kuo WT, Hofmann LV, Hovsepian DM, Sze DY. Embolization of Parasitized Extrahepatic Arteries to Reestablish Intrahepatic Arterial Supply to Tumors Prior to Yttrium-90 Radioembolization. *J Vasc Interv Radiol*. 2011 Oct; 22(10): 1355-62.
25. **Kothary N**, Abdelmaksoud MH, Tognolini A, Fahrig R, Louie JD, Hwang G, Hofmann LV, Sze DY. Imaging Guidance with C-arm CT: A Prospective Evaluation of its Impact on Patient Radiation Exposure During Chemoembolization. *J Vasc Interv Radiol*. 2011 Nov; 22(11): 1535-43. **(CME credit article)**.
26. Higgins LJ, Hwang GL, Rosenberg J, Katzenberg RH, **Kothary N**, Sze DY, Hofmann LV. In Vitro Design and Characterization of the Nonviral Gene Delivery Vector Iopamidol, Protamine, Ethiodized oil Reagent (VIPER). *J Vasc Interv Radiol*. 2011 Oct; 22(10): 1457-63.
27. Abdelmaksoud MH, Louie JD, **Kothary N**, Hwang GL, Kuo WT, Hofmann LV, Hovsepian DM, Sze DY. Consolidation of Hepatic Arterial Inflow by Embolization of Variant Hepatic Arteries in Preparation for Yttrium-90 Radioembolization. *J Vasc Interv Radiol*. 2011 Oct 22(10): 1364-71. **(CME credit article)**.
28. Joseph T, Unver K, Hwang GL, Rosenberg J, Sze DY, Hashimi S, **Kothary N**, Louie JD, Kuo WT, Hofmann, LV, Hovsepian DM. Percutaneous Cholecystostomy for Acute Cholecystitis: Ten-year Experience. *J Vasc Interv Radiol*. 2012 Jan; 23(1):83-8.

29. Abdelmaksoud MH, Louie JD, Hwang GL, Sze DY, Hofmann LV, **Kothary N**. Transarterial Chemoembolization for Hepatocellular Carcinomas in Watershed Segments: Utility of C-arm CT for Treatment Planning. *J Vasc Interv Radiol*. 2012 Feb; 23(2):281-3.
30. Abdelmaksoud MHK, Louie JD, Hwang GL, **Kothary N**, Minor DR, Sze DY. Yttrium-90 radioembolization of renal cell carcinoma metastatic to the liver. *J Vasc Interv Radiol*. 2012 Mar; 23(3):323-330.
31. Sista AK, Hwang GL, Hovsepian DH, Sze DY, Kuo WT, **Kothary N***, Louie JL, Yamada K, Hong R, Dhanani R, Brinton, TJ, Krummel TM, Makower J, Yock, PG, Hofmann LV. Applying a Structured Innovation Process to Interventional Radiology: A Single Center's Experience. *J Vasc Interv Radiol*. 2012 Apr; 23(4):488-494. **Contribution to conception and design, participated in drafting manuscript and final approval.*
32. Hsu JL, Kuschner WG, Paik J, Bower N, **Kothary N**. The Diagnostic Yield of CT-Guided Percutaneous Lung Biopsy in Solid Organ Transplant Recipients. *Clin Transplant*. 2012 July-Aug; 26(4):615-621.
33. Carr S, Chan K, Rosenberg J, Kuo WT, **Kothary N***, Hovsepian DM, Sze DY, Hofmann LV. Iliac Vein Compression Syndrome: A Risk Factor for Lower Extremity Deep Venous Thrombosis. *J Vasc Interv Radiol*. 2012 Nov; 23(11):1467-1472. **Contribution to acquisition of data, participated in drafting manuscript and final approval.*
34. Hong JC, Eclow NCW, Yu Y, Rao AK, Dieterich S, Le QT, Loo BW, Diehn M, Sze, DY, **Kothary N* (co-corresponding author)**, Maxim PG. Migration of Implanted Markers for Image-Guided Lung Tumor Stereotactic Ablative Radiotherapy. *J Appl Clin Med Phys*. 2013 Mar 4; 14(2): 4046. **Conception and design, acquisition of data and analysis of data. Participated in drafting of manuscript and final approval.*
35. Wang DS, Louie JD, **Kothary N***, Shah RP, Sze DY. Prophylactic Topically Applied Ice to Prevent Cutaneous Complications of Non-Target Chemoembolization and Radioembolization. *J Vasc Interv Radiol*. 2013 April; 24(4):596-600. **Contribution to acquisition of data, participated in drafting manuscript and final approval.*
36. Boas FE, Do B, Louie JD, **Kothary N***, Hwang GL, Kuo WT, Hovsepian DM, Kantrowitz M, Sze DY. Optimal Imaging surveillance schedules after liver-directed therapy for hepatocellular carcinoma. *J Vasc Interv Radiol*. 2015 Jan; 26(1):69-73. **Contribution to acquisition of data, participated in drafting manuscript and final approval.*
37. **Kothary N**, Takehana C, Mueller K, Sullivan P, Tahvildari A, Rosenberg J, Louie JD, Sze DY. Watershed Hepatocellular Carcinomas: The Risk of Incomplete Response following Transhepatic Arterial Chemoembolization. *J Vasc Interv Radiol*. 2015 Aug; 26(8):1122-9.
38. Echegaray S, Gevaert O, Shah R, Kamaya A, Louie JD, **Kothary N***, Napel S. Core samples for radiomics features that are insensitive to tumor segmentation: method and pilot study using CT images of hepatocellular carcinoma. *J Med Imaging (Bellingham)*. 2015 Oct; 2(4):041011. **Contribution to concept and design, acquisition of data and analysis of*

data. Participated in drafting of manuscript and final approval. This manuscript is part of our radiogenomics project (PI Kothary).

39. Ahmed O, Patel M, Ward T, Sze DY, Telischak K, **Kothary N***, Hofmann LV. Cost Accounting as a Tool for Increasing Cost Transparency in Selective Hepatic Transarterial Chemoembolization. *J Vasc Interv Radiol.* 2015 Dec; 26(12):1820-6. **Contribution to concept and design, acquisition of data, participated in drafting manuscript and final approval.*
40. Duan F, Wang EQ, Lam MG, Abdelmaksoud MH, Louie JD, Hwang GL, **Kothary N***, Kuo WT, Hofmann LV, Sze DY. Superselective Chemoembolization of HCC: Comparison of Short-term Safety and Efficacy between Drug-eluting LC Beads, QuadraSpheres, and Conventional Ethiodized Oil Emulsion. *Radiology.* 2016 Feb; 278(2):612-21. **Contribution to acquisition of data, participated in drafting manuscript and final approval.*
41. Ahmed O, Ward TJ, Lungren MP, Abdelrazek Mohammed MA, Hofmann LV, Sze DY, **Kothary N.** Assessing the Risk of Hemorrhagic Complication following Transjugular Liver Biopsy in Bone Marrow Transplantation Recipients. *J Vasc Interv Radiol.* 2016 Apr; 27(4):551-7.
42. Trinh L, Miyake KK, Dirbas FM, **Kothary N***, Horst KC, Lipson JA, Carpenter C, Thompson AC, Ikeda DM. CT-Guided Wire Localization for Involved Axillary Lymph Nodes After Neoadjuvant Chemotherapy in Patients With Initially Node-Positive Breast Cancer. *Breast J.* Jul; 22(4):390-6. **Contribution to concept and design, acquisition of data, participated in drafting manuscript and final approval.*
43. Ghatan C, Fassiotto M, Jacobsen JP, Sze DY, **Kothary N.** Occupational Radiation Exposure During Pregnancy: A Survey of Attitudes and Practices among Interventional Radiologists. *J Vasc Interv Radiol.* 2016 Jul; 27(7):1013-20.
44. Chen JX, Rose S, White SB, El-Haddad G, Fidelman N, Yarmohammadi H, Hwang W, Sze DY, **Kothary N***, Stashek K, Wileyto EP, Salem R, Metz DC, Soulen MC. Embolotherapy for Neuroendocrine Tumor Liver Metastases: Prognostic Factors for Hepatic Progression-Free Survival and Overall Survival. *Cardiovasc Intervent Radiol.* 2017 Jan; 40(1):69-80. **Contribution to data acquisition and analysis, participated in drafting manuscript and final approval.*
45. **Kothary N.** The Angiomyolipoma Conundrum. *J Vasc Interv Radiol.* 2016 Oct; 27(10):1550-1. Invited Commentary.
46. Mueller K, Fahrig R, Manhart M, Deuerling-Zheng Y, Rosenberg J, Moore T, Ganguly A, **Kothary N.** Reproducibility of Parenchymal Blood Volume Measurements Using an Angiographic C-arm CT System. *Acad Radiol.* 2016 Nov; 23(11):1441-1445.
47. Lungren MP, Lindquester WS, Seidel FG, **Kothary N***, Monroe EJ, Shivaram G, Gill AE, Hawkins MC. Ultrasound-Guided Liver Biopsy with Gelatin Sponge Pledget Tract Embolization in Infants Weighing Less than 10 kg. *J Pediatr Gastroenterol Nutr.* 2016 Dec; 63(6): e147-e151. **Contribution to data acquisition and analysis, participated in drafting*

manuscript and final approval.

48. Goldman RE, Arendt VA, **Kothary N***, Kuo WT, Sze DY, Hofmann LV, Lungren MP. Endovascular Management of May-Thurner Syndrome in Adolescents: A Single-Center Experience. *J Vasc Interv Radiol.* 2017 Jan; 28(1):71-77. **Contribution to acquisition of data, participated in drafting manuscript and final approval.*
49. Pollom EL, Lee KY, Durkee BY, Grade M, Mokhtari DA, Wahl DR, Feng M, **Kothary N***, Koong AC, Owens DK, Goldhaber-Fiebert J, Chang DT. Cost-effectiveness of stereotactic body radiotherapy versus radiofrequency ablation for hepatocellular carcinoma: a Markov modeling study. *Radiology.* 2017 Jan 3:161509. **Contribution to concept and design, acquisition of data, participated in drafting manuscript and final approval.*
50. Müller K, Datta S, Gehrisch S, Ahmad M, Mohammed MA, Rosenberg J, Hwang GL, Louie JD, Sze DY, **Kothary N**. The Role of Dual-Phase Cone-Beam CT in Predicting Short-Term Response after Transarterial Chemoembolization for Hepatocellular Carcinoma. *J Vasc Interv Radiol.* 2017 Feb; 28(2):238-245.
51. Pung L, Ahmad M, Mueller K, Rosenberg J, Stave C, Hwang GL, Shah R, **Kothary N**. The Role of Cone-Beam CT in Transcatheter Arterial Chemoembolization for Hepatocellular Carcinoma: A Systematic Review and Meta-analysis. *J Vasc Interv Radiol.* 2017 Mar 28(3): 334-341.
52. Datta S, Müller K, Moore T, Molvin L, Gehrisch S, Rosenberg J, Saenz Y, Manhart M, Deuring-Zheng Y, **Kothary N**, Fahrig R. Dynamic Measurement of Arterial Liver Perfusion with an Interventional C-Arm System. *Invest Radiol.* 2017 Aug; 52(8): 456-461. **Contribution to concept and design, acquisition of data and analysis of data. Participated in drafting of manuscript and final approval. This manuscript was part of a joint project with Dr. Fahrig on perfusion imaging using cone-beam CT.*
53. Bakr S, Echegaray S, Shah RP, Kamaya A, Louie J, Napel S, **Kothary N*** Gevaert O*. Non-invasive radiomics signature based on quantitative analysis of computed tomography images as a surrogate for microvascular invasion in hepatocellular carcinoma: A Pilot Study. *J Med Imaging (Bellingham)* 2017 Oct; 4(4): 041303 (*NK and OG equally contributing senior authors). Accepted: May 2017
54. Hoang N, **Kothary N**, Saharan S, Rosenberg J, Tran A, Brown S, Hovsepian D. Administering Blood Products Before Selected Interventional Radiology Procedures: Developing, Applying, and Monitoring a Standardized Protocol. *Journal of the American College of Radiology.* 2017 Sep 27; S1546-1440(17)30959-6.

In press

2. Case Reports

1. **Kothary N**, Muskie J, Mathur S. Strongyloides stercoralis Hyperinfection. *Radiographics.* 1999 July-Aug; 19(4): 1077-81.

2. **Kothary N**, Bulas DI, Newman KD, Schonberg RL. MRI Imaging of Fetal Neck Masses with Airway Compromise: Utility in Delivery Planning. *Pediatr Radiol*. 2001; 31(10): 727-31.
3. **Kothary N**, Law M, Cha S, Zagzag D. Conventional and Perfusion MR Imaging of Parafalcine Chondrosarcoma. *AJNR Am J Neuroradiol*. 2003 Feb; 24: 245-48.

3. Non-Peer Reviewed Journal Articles

1. **Kothary N**, Bulas DI. Prenatal MR Imaging of fetal neck masses. *Medical Imaging International*. Vol. 12, No.1 (Jan-Feb 2003).
2. Das M, Abdelmaksoud MHK, Loo BW, **Kothary N** Alternatives to surgery for early stage non-small cell lung cancer – ready for prime time? *Curr Treat Options Oncol*. 2010 Jun; 11(1-2):24-35. Review. (Invited Manuscript, Invited Author- Kothary).
3. **Kothary N**. Reducing the Perils of ablation for thermally sensitive adjacent organs. Invited commentary, *Interventional News* (2014).

4. Book Chapters

1. **Kothary N**, Patel A, Shlansky-Goldberg R Biliary Interventions in liver Transplantation *Semin Intervent Radiol* 2004; 21: 297-308.
2. Resnick SB, Resnick SH, Weintraub JL, **Kothary N**. Heparin in Interventional Radiology: A Therapy in Evolution. *Semin Intervent Radiol* 2005; 22: 95-107.
3. **Kothary N**, Kee, S. Radio-frequency Ablation. *Anesthesiologists Manual of Surgical Procedures*. Lippincott Williams & Wilkins, 5th edition, Published March 2009.
4. Mueller K, Datta S, Hwang GL, Wang DS, **Kothary N**. Digital Subtraction Imaging and Cone-beam C-Arm CT imaging. *Vascular Imaging and Endovascular Interventions*. Japee Brothers Medical Publishers, expected date of publication Fall 2017.

5. Abstracts

1. Cura M, Rundback JH, Weintraub JL, Susman J, **Kothary N**. Renal Artery Angioplasty and Stenting using Distal Protection Devices. *J Vasc Interv Radiol* 15:651 (Annual meeting, Society of Interventional Radiology, 2004).
2. **Kothary N**, Weintraub JL, Rundback JH, Susman J, Haskal ZJ. Transarterial Chemoembolization in High-Risk Patients with HCC. *J Vasc Interv Radiol* 16:570 (Annual meeting, Society of Interventional Radiology, 2005).
3. **Kothary N**, Weintraub JL, Ugras S, Kinkhabawala M, Hanjan T, Susman J. Imaging and Histopathologic Correlation after Chemoembolization in Patients Undergoing Liver Transplantation. *J Vasc Interv Radiol* 17, Part 2:408-413 (Annual meeting, Society of Interventional Radiology, 2006).

4. **Kothary N**, Weintraub J, Urgas S, Kinkhabwala M. Histopathologic Correlation after Chemoembolization in Patients Undergoing Liver Transplantation. *J Vasc Interv Radiol* 17, Part 2:408-413 (Annual meeting, Society of Interventional Radiology, 2006).
5. Weintraub JL, Eubig J, Haskal ZH, Susman J, **Kothary N**, Hanjan T. Mid Term Results of Balloon Dilatation of Benign Esophageal Strictures in Children. *J Vasc Interv Radiol* 17, Part 2:408-413 (Annual meeting, Society of Interventional Radiology, 2006).
6. Kuo WT, Kee ST, **Kothary N**, Sze, D, Hofmann LV. Retrieval of the Difficult Günther Tulip IVC Filter: Snare over Guidewire Loop Technique. *J Vasc Interv Radiol* 18, Part 2:S124 (Annual meeting, Society of Interventional Radiology, 2007).
7. Kuo W, van den Bosch MA, Hofmann LV, Louie JD, **Kothary N**, Sze DY. Catheter-Directed Embolectomy, Fragmentation, and Thrombolysis for the Treatment of Massive Pulmonary Embolism after Failure of Systemic Thrombolysis. (Annual Meeting of Chest Physicians. Chicago, IL, 2007).
8. **Kothary N**, Kuo WT, Louie J, Hofmann LV, Sze DY. Safety and Efficacy of Ethanolamine for Embolization of Gastric Varices in Patients with Portal Hypertension. *J Vasc Interv Radiol* 19:S74 (Annual meeting, Society of Interventional Radiology, 2008).
9. Dhanani RS, **Kothary N**, Hunt S, Kuo WT, Hofmann LV, Sze DY. Comparison of Outcomes between TIPS Performed with 8mm and 10mm Diameter Stent-graft devices. *J Vasc Interv Radiol* 19:S78 (Annual meeting, Society of Interventional Radiology, 2008).
10. Higgins LJ, van den Bosch M, Hwang GL, Paulmurugan R, **Kothary N**, Kuo WT, Sze DY, Katzenberg R, Gambhir SS, Hofmann LV. In Vitro Transfection of Hepatoma Cells and Hepatocytes with a Nonviral Vector Using Protamine and Ethiodol. *J Vasc Interv Radiol* 19:S135 (Annual meeting, Society of Interventional Radiology, 2008).
11. Van den Bosch MA, Higgins L, Hwang G, Katzenberg RH, Willmann JK, Paulmurugan R, Kuo WT, **Kothary N**, Dan SY, Gambhir SS, Hofmann LV. Novel Rat Hepatocellular Carcinoma Model Designed for In Vivo Evaluation of Image-guided Therapies. *J Vasc Interv Radiol* 19:S136 (Annual meeting, Society of Interventional Radiology, 2008).
12. Kuo WT, van den Bosch MA, Sze DY, Gould MK, **Kothary N**, Hofmann LV. Catheter-Directed Therapy for Massive Pulmonary Embolism: Systematic Review & Meta-analysis of the Modern Technique. *J Vasc Interv Radiol* 19:S6 (Annual meeting, Society of Interventional Radiology, 2008).
13. Tye GA, Rosenberg J, Kuo WT, **Kothary N**, Sze DY, Hofmann LV. Oral Contraceptive Induced Deep Venous Thrombosis: A Correlation with May-Thurner Syndrome. *J Vasc Interv Radiol* 19:S26 (Annual meeting, Society of Interventional Radiology, 2008).
14. **Kothary N**, Dua, R, Louie JD, Hwang GL, Kuo WT, Hovsepian DM, Leung A, Hofmann LV, Sze DY. CT Guided Percutaneous Needle Biopsy of the Indeterminate Pulmonary

Nodule: Efficacy of Obtaining a Diagnostic Sample. *J Vasc Interv Radiol* 20:S36 (Annual meeting, Society of Interventional Radiology, 2009).

15. **Kothary N**, Louie JD, Kuo WT, Hovsepian D, Sze DY, Hofmann LV. Safety and Efficacy of Percutaneous Fiducial Marker Implantation for Image-Guided Radiation Therapy. *J Vasc Interv Radiol* 20:S52 (Annual meeting, Society of Interventional Radiology, 2009).
16. **Kothary N**, Desser, T, Louie JD, Hofmann LV. Fly on the Wall? Improving Resident Education in Interventional Radiology. *J Vasc Interv Radiol* 20:S43 (Annual meeting, Society of Interventional Radiology, 2009).
17. **Kothary N**, Tognolini A, Louie JD, Hwang GL, Kuo WT, Hovsepian DM, Hofmann LV, Sze DY. Impact of C-Arm CT on Treatment Planning in Patients Undergoing Chemembolization for Tumors Located in Segments with Watershed Arterial Supply. *J Vasc Interv Radiol* 20:S72 (Annual meeting, Society of Interventional Radiology, 2009).
18. **Kothary N**, Tognolini A, Louie JD, Hwang GL, Kuo WT, Hovsepian DM, Hofmann LV, Sze DY. Impact of C-Arm CT in Patients with Hepatocellular Carcinoma Undergoing Transhepatic Arterial Chemoembolization. *J Vasc Interv Radiol* 20:S73 (Annual meeting, Society of Interventional Radiology, 2009).
19. Chan KT, Sze DY, Kuo WT, **Kothary N**, Louie JD, Hovsepian D, Hwang GL, Hofmann LV. Iliac Vein Stenosis and Thrombus Volume: A Positive Correlation in Lower Extremity Deep Venous Thrombosis. *J Vasc Interv Radiol* 20:S89 (Annual meeting, Society of Interventional Radiology, 2009).
20. Chan KT, Sze DY, Kuo WL, **Kothary N**, Hofmann LV. Common Iliac Vein Stenosis and Risk of Pulmonary Embolism: A Negative Correlation. *J Vasc Interv Radiol* 20:S13 (Annual meeting, Society of Interventional Radiology, 2009).
21. Singh A, Kim YI, Rosenberg J, Katzenberg R, van den Bosch M, Ramasamy R, Sze DY, **Kothary N**, Gambhir SS, Hofmann LV. Suicide Gene Therapy for Hepatocellular Carcinoma. *Cardiovascular and Interventional Radiology*; 32:S295 (CIRSE 2009).
22. Louie JD, **Kothary N**, Kuo WT, Hwang GL, Hofmann LV, Goris M, Iagaru A, Sze DY. Impact of Using C-Arm CT on Treatment Planning for Yttrium-90 Radioembolization. *J Vasc Interv Radiol* 21:S14 (Annual meeting, Society of Interventional Radiology, 2010).
23. Hwang GL, Callas TP, Louie JD, Kuo WT, **Kothary N**, Sze DY, Hovsepian DM, Hofmann LV. Safety of Irreversible Electroporation in the Pancreas: Preclinical Assessment in the Porcine Pancreas. *J Vasc Interv Radiol* 21:S40 (Annual meeting, Society of Interventional Radiology, 2010).
24. Abdelmaksoud MHK, Hwang GL, Louie JD, **Kothary N**, Hofmann LV, Kuo WT, Hovsepian DM, Sze DY. New Hepatico-Enteric Anastomoses that Appear After Endovascular Skeletonization of the Hepatic Artery in Preparation for Radioembolization. *J Vasc Interv Radiol* 21:S17 (Annual meeting, Society of Interventional Radiology, 2010).

25. Carr S, Hwang GL, Rosenberg J, Sze DY, Hovsepian DM, Kuo WT, **Kothary N**, Louie JD, Unver K, Hofmann LV. Common Iliac Vein Diameter and Risk of Deep Venous Thrombosis. *J Vasc Interv Radiol* 21:S6 (Annual meeting, Society of Interventional Radiology, 2010).
26. Abdelmaksoud MHK, Louie JD, Hwang GL, **Kothary N**, Hofmann LV, Kuo WT, Hovsepian DM, Sze DY. Consolidation of Hepatic Arterial Inflow by Embolization of Variant and Parasitized Arteries in Preparation for 90Y Radioembolization. *J Vasc Interv Radiol* 21:S13 (Annual meeting, Society of Interventional Radiology, 2010).
27. Tognolini A, **Kothary N**, Fahrig R, Abdelmaksoud MHK, Hwang GL, Louie JD, Hofmann LV, Sze DY. Imaging Guidance with C-Arm CT (CACT) for Transhepatic Arterial Chemoembolization: A Prospective, Randomized Study Evaluating the Impact of CACT on Patient Radiation Exposure. *J Vasc Interv Radiol* 21:S47 (Annual meeting, Society of Interventional Radiology, 2010).
28. Hong JC, Yao Y, Rao AK, Dieterich S, Maxim PG, Sze DY, **Kothary N**, Loo BW. High Retention and Safety of Vascular Embolization Coils as Fiducial Markers for Image-Guided Stereotactic Ablative Radiotherapy of Pulmonary Tumors. (ASTRO annual meeting 2010).
29. Joseph TM, Unver K, Rosenberg JK, Hashmi S, Hofmann LV, Sze DY, **Kothary N**, Hwang GL, Kuo WT, Louie JD, Hovsepian D. Cholecystostomy for High-Risk Surgical Patients with Acute Cholecystitis: A 10-Year Analysis. *J Vasc Inter Radiol* 22 issue 3: S30 (Annual meeting, Society of Interventional Radiology, 2011).
30. **Kothary N**, Kuschner WG, Paik J, Hsu, J. The Diagnostic Yield of CT-Guided Percutaneous Lung Biopsy in Solid Organ Transplant Recipients. *J Vasc Inter Radiol* 22 issue 3: S15 (Annual meeting, Society of Interventional Radiology, 2011).
31. Charalel RA, Louie JD, **Kothary N**, Hovsepian D, Kuo L, Hofmann LV, Sze DY. Feasibility and Utility of Carbon Dioxide-Enhanced CACT. *J Vasc Inter Radiol* 22 issue 3: S52 (Annual meeting, Society of Interventional Radiology, 2011).
32. Abdelmaksoud M, Louie JD, **Kothary N**, Hwang GL, Kuo WT, Hofmann LV, Hovsepian D, Sze DY. Y90 radioembolization of Renal Cell Carcinoma Metastatic to the Liver: A Pilot Study. *J Vasc Inter Radiol* 22 issue 3: S87 (Annual meeting, Society of Interventional Radiology, 2011).
33. Kuo WT, Odegaard JI, Louie JD, Unver K, **Kothary N**, Rosenberg JK, Sze DY, Hovsepian DM, Hofmann LV. Photothermal Ablation with the Excimer Laser Sheath Technique for Embedded IVC Filter Removal: Initial Results from a Prospective Study. *J Vasc Inter Radiol* 22 issue 3: S46 (Annual meeting, Society of Interventional Radiology, 2011).
34. Chan KT, Tye GA, Popat RA, Kuo WT, Unver K, **Kothary N**, Sze DY, Hofmann LV. Common Iliac Vein Stenosis: A Risk Factor for Oral Contraceptive-Induced Deep Vein Thrombosis. *J Vasc Inter Radiol* 22 issue 3: S49 (Annual meeting, Society of Interventional Radiology, 2011).

35. **Kothary N**, Tognolini A, Abdelmaksoud MHK, Louie, JD, Hwang GL, Sze DY, Hofmann LV. C-Arm CT for Hepatic Interventions: TIPS and Tricks for Optimal Imaging. *J Vasc Inter Radiol* 22 issue 3: S123 (Annual meeting, Society of Interventional Radiology, 2011).
36. Ghatan CE, Kuo, WT, Hofmann LV, **Kothary N**. Making the Case for Early Medical Student Education in Interventional Radiology: A Survey of 2nd-Year Students in a Single U.S. Institution. *J Vasc Inter Radiol* 22 issue 3: S135 (Annual meeting, Society of Interventional Radiology, 2011).
37. Higgins LJ, Hwang GL, Katzenberg RH, **Kothary N**, Sze DY, Hofmann LV, In Vivo Gene Delivery Using an Arginine Peptide Delivery System (VIPER) in an Orthotopic Hepatocellular Carcinoma Rat Model. *J Vasc Inter Radiol* 22 issue 3: S114 (Annual meeting, Society of Interventional Radiology, 2011).
38. **Kothary N**, Hong JC, Yu Y, Dieterich S, Sze DY, Loo BW. Use of Percutaneously Implanted Endovascular Embolization Coils as Fiducial Markers for Stereotactic Ablative Radiotherapy for Lung Tumors. *J Vasc Inter Radiol* 22 issue 3: S123 (Annual meeting, Society of Interventional Radiology, 2011).
39. **Kothary N**, Dieterich S, Louie JD, Hwang JL, Kuo WT, Hovsepian D, Sze DY, Loo BW, Hofmann L. The Role of IR in Stereotactic Ablative Radiotherapy (SABR). *J Vasc Inter Radiol* 22 issue 3: S123 (Annual meeting, Society of Interventional Radiology, 2011).
40. Abdelmaksoud M, Hwang GL, Louie, JD, Hofmann LV, Sze DY, **Kothary N**. Detection of Small Hepatocellular Carcinoma During Transarterial Chemoembolization: Comparison Between C-Arm CT and Digital Subtraction Angiography. *J Vasc Inter Radiol* 22 issue 3: S118 (Annual meeting, Society of Interventional Radiology, 2011).
41. Abdelmaksoud M, Hwang GL, Louie, JD, Hofmann LV, Sze DY, **Kothary N**. Incidence and Detection of Dual Blood Supply to Hepatocellular Carcinoma Located in Watershed Regions of Segment IV and VIII During Transarterial Chemoembolization. *J Vasc Inter Radiol* 22 issue 3: S118 (Annual meeting, Society of Interventional Radiology, 2011).
42. Hong JC, Eclow NCW, Yu Y, Rao AK, Dieterich S, Maxim PG, Le Q, Diehn, M, **Kothary N**, Loo BW. Analysis of Migration of Implanted Markers for Image-Guided Lung Tumor Stereotactic Ablative Radiotherapy. ASTRO 53rd Annual Meeting 2011.
43. Abelson JA, **Kothary N**, Fleischmann D, Hofmann L, Kielar KN, Maxim PG, Le Q, Hara W, Diehn M, Loo BW. Feasibility of Pulmonary Interstitial Lymphography-guided High-risk Primary Nodal Irradiation in Lung Tumor Stereotactic Ablative Radiotherapy. ASTRO 53rd Annual Meeting 2011.
44. **Kothary N**, Daugherty T, Sze DY, Hofmann LV, Concepcion W. Implication of Dual Blood Supply to Hepatocellular Carcinoma Located in Watershed Regions During TACE. The Liver Meeting 2011. 63rd Annual Meeting of the American Association for the Study of Liver Disease.

45. Unver K, **Kothary N**, Lam GJ, Hovsepian DH. Lean Sigma in the IR Suite. J Vasc Inter Radiol 23 issue 3: S102 (Annual meeting, Society of Interventional Radiology, 2012)
46. Samuelson SD, Jackson BA, Hubney CM, Wong AA, Loh S, Wang DS, Shah RP, **Kothary N**, Louie JD, Sze DY, Hofmann LV, Hovsepian DM, Kuo WT, Hwang GL. Cancer Chemotherapeutics and Anti-Cancer Drugs: a Primer for Interventional Radiologists. J Vasc Inter Radiol 23 issue 3: S150 (Annual meeting, Society of Interventional Radiology, 2012)
47. Kuo W, Robertson SW, Odegaard JI, **Kothary N**, Hovsepian DM, Unver K, Louie JD, Sze DY, Hwang GL, Hofmann LV. Complex Retrieval of Fractured, Embedded, and Penetrating iVC filters: a Prospective Study with Histologic and Electron Microscopic Analysis. J Vasc Inter Radiol 23 issue 3: S26-27 (Annual meeting, Society of Interventional Radiology, 2012)
48. Ganguly A, **Kothary N**, Blum K, Moore T, Deuerling-Zheng Y, Fiesselmann, Fahrig R. Measurement of Hepatic Perfusion Blood Volume using C-arm CT. J Vasc Inter Radiol 23 issue 3: S97 (Annual meeting, Society of Interventional Radiology, 2012)
49. Wang DS, Davalos EA, Hwang GL, Louie JD, Kuo WT, Shah RP, Hovsepian DM, Hofmann, LV, Sze DY, **Kothary N**. Superselective Transhepatic Arterial Chemoembolization for Hepatocellular Carcinoma in High Risk Patients as a Bridge towards Liver Transplantation. J Vasc Inter Radiol 23 issue 3: S16 (Annual meeting, Society of Interventional Radiology, 2012)
50. Samuelson SD, Hofmann LV, **Kothary N**, Loh S, Louie JD, Kuo WT, Hovsepian DM, Sze DY, Hwang GL. Design and Implementation of IR-specific Features in an Electronic Medical Records System. J Vasc Inter Radiol 23 issue 3: S128 (Annual meeting, Society of Interventional Radiology, 2012)
51. Wang DS, Louie JD, Shah RP, **Kothary N**, Sze DY. Prophylactic Topically Applied Ice to Prevent Cutaneous Complications of Nontarget Chemoembolization and Radioembolization of Liver Tumors. J Vasc Inter Radiol 23 issue 3: S84 (Annual meeting, Society of Interventional Radiology, 2012)
52. Hwang GL, Desai J, Louie JD, Kuo WT, Sze, DY, Hovsepian D, **Kothary N**, Hofmann LV. Discrepancy Between Expected and Actual Lengths of Viabil Stents Deployed with Standard Pin-Pull Technique. J Vasc Inter Radiol 24 issue 4: S53 (Annual meeting, Society of Interventional Radiology, 2013)
53. Sullivan P, Sidhar V, Popat R, Hovsepian D, Wang DS, **Kothary N**. Frequency and Significance of Dual Arterial Supply for Watershed HCCs Treated by TACE. J Vasc Inter Radiol 24 issue 4: S53 (Annual meeting, Society of Interventional Radiology, 2013)
54. Hwang, GL, Louie JD, Hofmann LV, **Kothary N**, Kuo WT, Desai, Hovsepian DM, Sze DY. Outcomes of Viabil Covered Stent Placement for Treatment of Hepaticojejunostomy Strictures. J Vasc Inter Radiol 24 issue 4: S54 (Annual meeting, Society of Interventional Radiology, 2013)

55. **Kothary N**, Ganguly A, Blum, Deuerling-Zheng Y, Rosenberg J, Moore T, Manhart M, Fahrig R. Measurement of Hepatic Blood Flow Using C-arm CT imaging. *J Vasc Interv Radiol* 24 issue 4: S11 (Annual meeting, Society of Interventional Radiology, 2013)
56. Takehana C, Tahvidari AM, Wang DS, Sze DY, **Kothary N**. Watershed HCCs: The risk and impact of incomplete response on transplant eligibility. *J Vasc Interv Radiol* 25 issue 3, S114 (Annual meeting, Society of Interventional Radiology, 2014)
57. Duan, F, Wang EQ, Lam MG, Abdelmaksoud M, **Kothary N**, Hwang G, Louie JD, Hovsepian D, Kuo, WT, Hofmann LV, Sze DY. Superselective chemoembolization: efficacy and toxicity comparison between drug-eluting bead and ethiodated oil delivery. *J Vasc Interv Radiol* 25 issue 3, S25 (Annual meeting, Society of Interventional Radiology, 2014)
58. Ahmed OA, Shah R, Hwang G, Louie J, Hofmann LV, **Kothary N**. The risk of hemorrhage following transjugular liver biopsy in bone marrow transplantation recipients. *J Vasc Interv Radiol* 26 issue 2, S83-84 (Annual meeting, Society of Interventional Radiology, 2015).
59. Ahmed OA, Ederhof M, Telischak K, **Kothary N**, Patel MV, Louie JD, Hofmann LV. Cost accounting as a tool for increasing cost transparency in super-selective hepatic transarterial chemoembolization. *J Vasc Interv Radiol* 26 issue 2, S209-10 (Annual meeting, Society of Interventional Radiology, 2015)
60. Ahmed OA, Kuo WT, Mitarai T, Schreiber D, Weinacker A, **Kothary N**, Hofmann LV. Multi-disciplinary protocol for the management of massive pulmonary embolism. *J Vasc Interv Radiol* 26 issue 2, S227 (Annual meeting, Society of Interventional Radiology, 2015)
61. Gevaert O, Echegaray S, Napel S, **Kothary N**. Predictive modeling of microvascular invasion using triphasic quantitative imaging of hepatocellular carcinoma. 101th Scientific Assembly and Annual Meeting of the Radiological Society of North America (RSNA) 2015. Chicago, IL.
62. Ang M, Sheu A, Fang A, **Kothary N**, Shah R, Wang D, Hwang G. Venous thrombosis following microwave ablation of hepatocellular carcinoma and liver metastases. *J Vasc Interv Radiol* 27 issue 3, S30-S31 (Annual meeting, Society of Interventional Radiology, 2016)
63. Chen J, Rose S, White S, El-Haddad G, Fidelman N, Yarmohammadi H, Sze D, **Kothary N**, Stashek K, Wileyto E, Salem R, Metz D, Soulen M. Embolotherapy for neuroendocrine tumor liver metastases: prognostic factors for hepatic progression-free survival and overall survival. *J Vasc Interv Radiol* 27 issue 3, S36 (Annual meeting, Society of Interventional Radiology, 2016)
64. Ghatan C, Hwang G, **Kothary N**. Occupational radiation exposure and pregnancy: a survey of female practicing interventional radiologists. **Featured Abstract**. *J Vasc Interv Radiol* 27 issue 3, S44 (Annual meeting, Society of Interventional Radiology, 2016) Featured Abstract
65. Mueller K, Datta S, Gehrisch S, Moore T, Ahmad M, Louie J, Wang D, Hwang G, Sze D, **Kothary N**. Utility of dual-phase cone-beam CT: Can it predict tumor response after super-

selective TACE for HCC? J Vasc Interv Radiol, Volume 27 issue 3, S86 (Annual meeting, Society of Interventional Radiology, 2016)

66. Kishore S, **Kothary N**, Lungren M, Mohler D, Avedian R, Ghanouni P. Treatment of osteoid osteoma using MR guided high intensity focused ultrasound: preliminary results after four patients. J Vasc Interv Radiol, Volume 27 issue 3, S138 (Annual meeting, Society of Interventional Radiology, 2016)
67. Arendt V, Kuo W, Shah R, **Kothary N**, Wang D, Hovsepian D, Sze D, Louie J, Hwang G, Hofmann LV. Twenty years of lower extremity venous stenting experience. J Vasc Interv Radiol, Volume 27 issue 3, S142 (Annual meeting, Society of Interventional Radiology, 2016)
68. Goldman R, Arendt V, **Kothary N**, Kuo W, Sze D, Hofmann LV, Lungren M. Use of endovascular stents for management of pediatric May-Thurner syndrome: a single-center experience. J Vasc Interv Radiol, Volume 27 issue 3, S189 (Annual meeting, Society of Interventional Radiology, 2016)
69. Chen JX, Rose S, White SB, El-Haddad G, Fidelman N, Yarmohammadi H, Hwang W, Sze DY, **Kothary N**, Stashek K, Wileyto EP, Salem R, Metz DC, Soulen MC. Embolotherapy for Neuroendocrine Tumor Liver Metastases: Prognostic Factors for Hepatic Progression-Free Survival and Overall Survival. J Vasc Interv Radiol, Volume 27 issue 3, S36. (Annual meeting, Society of Interventional Radiology, 2016)
70. M AbdelRazek, M Lungren, G Hwang, D Wang, J Louie, **N Kothary**. Albumin / Bilirubin grade (ALBI): A robust predictor of decompensation and poor outcome in high-risk patients undergoing TACE for HCC. Journal of Vascular and Interventional Radiology, Vol. 28, Issue 2, S82 (Annual meeting, Society of Interventional Radiology, 2017)
71. M AbdelRazek, W Hwang, M Abdelmaksoud, J Louie, **N Kothary**, D Sze. Drug eluting bead chemoembolization for neuroendocrine tumor metastases: risk factors for biliary toxicity. Journal of Vascular and Interventional Radiology, Volume 28, Issue 2, S206. (Annual meeting, Society of Interventional Radiology, 2017)
72. S Tulin-Silver, C Obi, **N Kothary**, M Lungren. Comparison of transjugular liver biopsy and percutaneous liver biopsy with tract embolization in pediatric patients. Journal of Vascular and Interventional Radiology, Volume 28, Issue 2, S91 - S92. (Annual meeting, Society of Interventional Radiology, 2017)
73. Leland Pung, Moiz Ahmad, Kerstin Mueller, Jarrett Rosenberg, Christopher Stave, Gloria L. Hwang, Rajesh Shah, **Nishita Kothary**. The Role of Cone-Beam CT in Transcatheter Arterial Chemoembolization for Hepatocellular Carcinoma: A Systematic Review and Meta-analysis. Journal of Vascular and Interventional Radiology, Volume 28, Issue 3, 334 – 341. (Annual meeting, Society of Interventional Radiology, 2017)
74. M AbdelRazek, **N Kothary**, J Louie, D Sze. Hepatic abscess after transarterial chemoembolization (TACE): a complication with possible therapeutic effect via serendipitous immunotherapy. Journal of Vascular and Interventional Radiology, Volume 28, Issue 2, S126. (Annual meeting, Society of Interventional Radiology, 2017)

75. M AbdelRazek, W Hwang, M Abdelmaksoud, J Louie, **N Kothary**, P Kunz, D Sze.
Selection between locoregional embolotherapies for hepatic metastases from neuroendocrine tumor: Stratification by tumor burden. *Journal of Vascular and Interventional Radiology*, Volume 28, Issue 2, S19. (Annual meeting, Society of Interventional Radiology, 2017)

6. Speaking Invitations (Including conducting workshops)

International

Invited Presentations: Total of 17

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| 2004 | Renal Revascularization 6 th Asia-Pacific Interventional Radiology Conference, Delhi, India |
| 2004 | Vascular Access 6 th Asia-Pacific Interventional Radiology Conference, Delhi, India |
| 2005 | Management of Vertebral Compression Fractures 8 th Indian Society of Interventional Radiology Conference, Pune India |
| 2005 | Dialysis Access Management 8 th Indian Society of Interventional Radiology Conference, Pune India |
| 2006 | Spine Interventions: Vertebroplasty and Kyphoplasty 9 th Indian Society of Interventional Radiology Conference, Chennai, India |
| 2006 | Endovascular Treatment of Aortic Aneurysms and Dissections 9 th Indian Society of Interventional Radiology Conference, Chennai, India |
| 2011 | Fiducial Implantation for SABR 2011 World Conference in Interventional Oncology, New York, NY |
| 2013 | Integration of Interventional Oncology with Radiation Oncology European Conference of Interventional Oncology Budapest, Hungary |
| 2014 | Fusion Imaging and its role in IR Global Embolization Symposium and Technologies (GEST) San Francisco, CA |
| 2014 | High Risk Ablation Zones: Modifying or Reducing Risks Global Embolization Symposium and Technologies (GEST) San Francisco, CA |
| 2015 | Moderator, Veins and Fistulae |

- Global Embolization Symposium and Technologies (GEST)
San Francisco, CA
- 2015 Minimally Invasive Treatment of RCC
Chinese PLA General Hospital Interventional Radiology Forum
Beijing, People's Republic of China
- 2015 The Use of CBCT in Liver Directed Therapies
Chinese PLA General Hospital Interventional Radiology Forum
Beijing, People's Republic of China
- 2016 Locoregional Therapies for HCC: an IVR's Perspective
3rd GI-CoRE Medical Science and Engineering Symposium
Sapporo, Japan
- 2016 Coils and Plugs: Microcatheter compatibilities.
Global Embolization Symposium and Technologies (GEST)
New York, NY
- 2016 Y90 Therapy Planning: The Basics
World Conference on Interventional Oncology, Boston, MA
- 2016 Moderator, Case-Based Review of Y90 Tumor Board
World Conference on Interventional Oncology, Boston, MA

National

Invited Presentations (Symposia): Total of 19

- 2008 Interventional Radiology for Liver Cancers: Oncodiagnosis panel,
plenary session, 95th Annual Scientific Meeting, Radiological Society
of North America, Chicago, IL
- 2008 Optimizing Targeted Treatment of Liver Cancers. Refresher Course,
95th Annual Scientific Meeting, Radiological Society of North
America, Chicago, IL
- 2009 High Risk Chemoembolization
39th Annual Scientific Meeting, Western Angiographic and
Interventional Society, San Diego, CA
- 2009 C-arm CT and its Role in Hepatic Interventions
39th Annual Scientific Meeting, Western Angiographic and
Interventional Society, San Diego, CA
- 2009 Management of Renal Tumors – Transarterial and Percutaneous: The
Whole Gamut
17th Annual Advanced Interventional Management Symposium, New
York, NY

- 2009 Image-Guided Radiotherapy vs. Percutaneous Ablation Techniques: Results in Lung and Liver Tumors
17th Annual Advanced Interventional Management Symposium, New York, NY
- 2009 Fiducial Implantation for Stereotactic Radiotherapy
17th Annual Advanced Interventional Management Symposium, New York, NY
- 2010 Strategies and Secrets in Interventional Oncology: Hepatic Transarterial Therapies
35th Annual Scientific Meeting of the Society of Interventional Radiology, Tampa, FL
- 2010 Uses and Abuses of Cone-beam CT in IR
18th Annual Advanced Interventional Management Symposium, New York, NY
- 2011 Implanted Target Surrogates (Fiducials) for Radiation Treatment Verification
2011 meeting for American Association of Physicists in Medicine Vancouver, BC
- 2011 When is Radiation Indicated and are Fiducials Necessary?
19th Annual Advanced Interventional Management Symposium, New York, NY
- 2012 Interventional Oncology: Image-guided Minimally Invasive Treatment of Cancer
Canary Foundation Early Detection Symposium, Stanford University, CA
- 2013 Work-Life Balance in IR
38th Annual Scientific Meeting of the Society of Interventional Radiology, New Orleans, LA
- 2015 The role of Radiogenomics in tumor prognosis.
44th Western Angiographic and Interventional Society
Kona, HI
- 2015 Liver Tumor Board: Plenary Session
40th Annual Scientific Meeting of the Society of Interventional Radiology, Atlanta, GA.
- 2016 Technical challenges and anatomic considerations in the management of HCC
3rd Annual Digestive Disease Interventions Meeting, San Diego CA

- 2016 Management of HCC in watershed areas and with extrahepatic supply
3rd Annual Digestive Disease Interventions Meeting, San Diego CA
- 2017 Women and Under-Represented Minorities in Interventional
Radiology
UCSF Medical Student Lecture
San Francisco, CA

National

Invited workshops/moderator for scientific sessions: Total of 27

- 2003 Basic CPT Coding (workshop)
28th Annual Scientific Meeting, Society of Interventional Radiology,
Salt Lake, UT
- 2003 Closure Device (hands-on workshop)
10th Advanced Interventional Management Symposium
New York, NY
- 2004 Biliary Interventions (workshop)
29th Annual Scientific Meeting, Society of Interventional Radiology,
Phoenix, AZ
- 2004 Advanced CPT Coding (workshop)
29th Annual Scientific Meeting, Society of Interventional Radiology,
Phoenix, AZ
- 2005 Advanced CPT Coding (workshop)
30th Annual Scientific Meeting, Society of Interventional Radiology,
New Orleans, LA
- 2006 Aortolliac Disease (workshop)
31st Annual Scientific Meeting, Society of Interventional Radiology,
Toronto, Canada
- 2006 Moderator, Spine (scientific session)
31st Annual Scientific Meeting, Society of Interventional Radiology,
Toronto, Canada
- 2007 Aortolliac Disease (workshop)
32nd Annual Scientific Meeting, Society of Interventional Radiology,
Seattle, WA
- 2007 Moderator, Spine (scientific session)
32nd Annual Scientific Meeting, Society of Interventional Radiology,
Seattle, WA
- 2008 Aortolliac Disease (workshop)

- 33rd Annual Scientific Meeting, Society of Interventional Radiology, Washington DC
- 2009 Alternative Contrast Agents and Prevention of Contrast Nephropathy (workshop)
34th Annual Scientific Meeting, Society of Interventional Radiology, San Diego, CA
- 2009 Speaker, Turf Wars in IR. Residents-in-Training Scholarship Program
34th Annual Scientific Meeting, Society of Interventional Radiology, San Diego, CA
- 2012 Moderator, Chemoembolization III (scientific session)
37th Annual Scientific Meeting, Society of Interventional Radiology, San Francisco, CA
- 2012 Panelist, Research in IR. (Resident-in-Training scholarship program)
37th Annual Scientific Meeting, Society of Interventional Radiology, San Francisco, CA
- 2012 Panelist, Women in IR (Resident-in-Training program)
37th Annual Scientific Meeting, Society of Interventional Radiology, San Francisco, CA
- 2013 Workshop Coordinator, Visceral Aneurysms
38th Annual Scientific Meeting of the Society of Interventional Radiology, New Orleans, LA
- 2013 Moderator, Chemoembolization (scientific session)
38th Annual Scientific Meeting of the Society of Interventional Radiology, New Orleans, LA
- 2013 Film Panelist (Resident-in-Training program)
38th Annual Scientific Meeting of the Society of Interventional Radiology, New Orleans, LA
- 2014 Embolization of Visceral aneurysms, Workshop coordinator and speaker
39th Annual Scientific Meeting of the Society of Interventional Radiology, San Diego, CA
- 2014 Ablation: a hands-on workshop
39th Annual Scientific Meeting of the Society of Interventional Radiology, San Diego, CA
- 2014 TACE, workshop coordinator
39th Annual Scientific Meeting of the Society of Interventional Radiology, San Diego, CA

- 2014 Moderator, TACE II scientific session
39th Annual Scientific Meeting of the Society of Interventional Radiology, San Diego, CA
- 2015 Cone-beam CT in oncologic diagnosis and therapy
40th Annual Scientific Meeting of the Society of Interventional Radiology, Atlanta, GA.
- 2015 Complex TACE Workshop
40th Annual Scientific Meeting of the Society of Interventional Radiology, Atlanta, GA.
- 2015 Visceral Aneurysms Workshop
40th Annual Scientific Meeting of the Society of Interventional Radiology, Atlanta, GA
- 2016 Visceral Aneurysms Workshop
41st Annual Scientific Meeting of the Society of Interventional Radiology, Vancouver, B.C.
- 2016 Cone-Beam CT: Latest Bells and Whistles
41st Annual Scientific Meeting of the Society of Interventional Radiology, Vancouver, B.C.
- 2017 How to Use Cone Beam CT in Your Practice
43rd Annual Scientific Meeting of the Society of Interventional Radiology, Washington, D.C.

Regional and CME

Invited Presentations: Total of 25

- 2003 Radiofrequency Ablation of Bone Tumors
Columbia University Medical Center, Radiofrequency Ablation Course, New York, NY
- 2004 Locoregional Therapy: New Horizons; Current Practices and Future Trends
Columbia University Medical Center, Interventional Oncology Course, New York, NY
- 2004 Uterine Fibroid Embolization: Current Trends
Women's Physicians Group of Westchester, NY
- 2005 Treatment of Painful Compression Fractures: Oncology Grand Rounds, Columbia University Medical Center, New York, NY
- 2006 Treatment of Compression Fractures: Medical Grand Rounds
Lawrence Hospital Center, Bronxville, NY

- 2006 Role of IR in liver Transplant Patients: Current Treatment Options
Stanford CME course, Stanford University School of Medicine,
Stanford, CA
- 2006 Truth, Lies and Fairytales: Cardiovascular and Peripheral Vascular
Disease in Women
Women's Health @ Stanford, Stanford University School of Medicine,
Stanford, CA
- 2007 Ablation of Liver Tumors
Stanford CME course, Latest Advances in Interventional Radiology,
Maui, HI
- 2007 Ablation of Bone Tumors
Stanford CME course, Latest Advances in Interventional Radiology,
Maui, HI
- 2007 Ablation of Lung Tumors
Stanford CME course, Latest Advances in Interventional Radiology,
Maui, HI
- 2007 Management of Renal Tumors
Stanford CME course, Latest Advances in Interventional Radiology,
Maui, HI
- 2007 Coding for Interventional Oncology
Invited speaker, Golden Gate Chapter of the American Academy of
Professional Coders, Palo Alto, CA
- 2008 Advances in Interventional Radiology: How IR can Help Your Patient
Invited Speaker, Grand Rounds, Palo Alto Medical Foundation, Palo
Alto, CA
- 2008 RF Ablation: Tips and Tricks for Difficult Cases
Stanford CME course, 2nd Latest Advances in Interventional
Radiology, Kauai, HI
- 2008 C-Arm CT: How We Use It at Stanford
Stanford CME course, 2nd Latest Advances in Interventional
Radiology, Kauai, HI
- 2008 Alternative Methods for Treating Variceal Bleeding: BRTO and
Other Techniques
Stanford CME course, 2nd Latest Advances in Interventional
Radiology, Kauai, HI
- 2008 Marketing and Coding: Key Elements for a Successful Practice

Stanford CME course, 2nd Latest Advances in Interventional Radiology, Kauai, HI

- 2009 Advances in Interventional Radiology: How IR can Help Your Patient with PVD
Invited Speaker, AAPIO educational event, Fremont, CA
- 2009 The truth is in the Image: Understanding Radiological Examinations
Stanford CME course, Stanford School of Medicine, Stanford, CA
- 2012 IR and the Lung Nodule
Pulmonary and Critical Care Grand Rounds, Stanford University School of Medicine, Stanford, CA
- 2012 Locoregional Treatment for Renal Tumors
Urology Grand Rounds, Stanford University School of Medicine, Stanford, CA
- 2012 Quantitative and Qualitative Perfusion Imaging of HCC: The Future of C-arm CT imaging
Siemens Healthcare workshop, World Congress of Interventional Oncology, Chicago, IL
- 2012 The Need for “Enomics” in Cancer Imaging and Treatment
Molecular Imaging Program at Stanford (MIPS), Stanford, CA
- 2013 Highlights of SIR 2013: The hepatologist’s perspective
Northern California Society of Clinical Gastroenterology
San Francisco, CA
- 2017 Hepatocellular Carcinoma
Stanford University School of Medicine and the Division of Oncology
Cancer Education Seminar

Other Speaking Invitations

- 2006 Interventional Orthopedics Biodesign Surgical Innovation Program
Stanford University School of Medicine, Stanford, CA
- 2006 Spine Interventions: Vertebroplasty/Kyphoplasty
Pathway to Clinical Excellence: Interventional Radiology, Fellows
Conference, Chicago, IL
- 2006 Treating Varicose Veins and Venous Insufficiency
Pathway to Clinical Excellence: Interventional Radiology, Fellows
Conference, Chicago, IL
- 2007 Percutaneous Ablation: Lung and Kidney

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| | Pathway to Clinical Excellence: Interventional Radiology, Fellows Conference, Chicago, IL |
| 2007 | Spine Interventions: Vertebroplasty/Kyphoplasty Pathway to Clinical Excellence: Interventional Radiology, Fellows Conference, Chicago, IL |
| 2008 | Percutaneous Ablation: Lung and Kidney Pathway to Clinical Excellence: Interventional Radiology, Fellows Conference, Chicago, IL |
| 2008 | From Fellow to Attending: Top Ten Adjustments Pathway to Clinical Excellence: Interventional Radiology, Fellows Conference, Chicago, IL |
| 2016 | Introduction to Interventional Radiology Stanford Medical Youth Science Program, Palo Alto, CA |
| 2017 | Gender Stereotypes and Trainee Evaluations of Physician Faculty Stanford University, Office of Faculty Development and Diversity Women Faculty Networking Luncheon, Palo Alto, CA |

G. Grants and Sponsored Research

Current:

1. DIF Award
Role: PI
Source: Stanford University, Office of Diversity
Total Award Amount: \$20,000
Date: 06/30/2017 – 07/01/2018
2. A phase 2 randomized multicenter trial to compare hepatic progression-free survival following bland embolization, lipiodol chemoembolization, and drug-eluting bead chemoembolization of neuroendocrine liver metastases
Role: PI
Source: University of Pennsylvania
Total Award Amount: \$71,001
Date: 05/01/2017 – 11/09/2019
3. 3D Virtual Reality for Endovascular Procedures
Role: PI
Source: EchoPixel, Inc.
Total Award Amount: \$66,753
Date: 04/01/2017 – 03/31/2018
4. TRAM training grant
Role: Co-Investigator
Source: Translational Research and Applied Medicine program

Total Award Amount: \$20,000
Date: 8/30/2016 – 08/31/2017

5. A Phase 3 Randomized, Open-Label Study Comparing PexaVec (Vaccinia GM-CSF / Thymidine Kinase-Deactivated Virus) Followed by Sorafenib Versus Sorafenib in Patients with Advanced Hepatocellular Carcinoma (HCC) Without Prior Systemic Therapy
Role: PI
Source: SillaJen Biotherapeutics, Inc.
Total Award Amount: \$342,273
Date: 07/15/2016 - 07/14/2019
6. International Randomized Study of Transarterial Chemoembolization (TACE) versus Stereotactic Body Radiotherapy (SBRT)/Stereotactic Ablative Radiotherapy (SABR) for Residual or Recurrent Hepatocellular Carcinoma after Initial TACE
Role: Co-PI
Source: Varian Medical Systems, Inc.
Total Award Amount: \$750,000
Date: 06/15/2016 – 06/14/2021
7. Combined Investigations: Zeego Flexibility and Image Quality Improvement
Role: PI
Source: Siemens Corporate Research
Total Award Amount: \$275,272
Date: 04/01/2014 – 04/01/2018
8. Developing a Genomic Approach for Cancer Screening
Role: Co-investigator
Source: National Institutes of Health
Total Award Amount: \$2,407,500
Date: 09/30/2013 – 06/30/2018

Past

9. A Low-Dose Fluoroscope for Interventional Radiology Procedures
Role: PI
Source: National Institutes of Health / Triple Ring Technologies, Inc.
Total Award Amount: \$210,511
Date: 05/15/2013- 04/30/2016
10. A Phase 2b Randomized, Single-Blinded Trial of JX-594 (Vaccinia GM-CSF/TK deactivated virus) Plus Best Supportive Care Versus Placebo Plus Best Supportive Care in Patients with Advanced Hepatocellular Carcinoma Who Have Failed Sorafenib Treatment
Role: PI
Source: PRA International
Total Award Amount: \$124,454
Date: 01/18/2012 – 01/17/2014

11. Advanced Applications in Interventions Radiology Addendum ID: SUMC -2102-AX-01
Role: PI
Source: Siemens Corporate Research
Total Award Amount: \$51,236
Date: 06/01/2010 – 09/30/2012

12. Clinical Feasibility and Evaluation of RoRo (Rotational Mapping); Optimal imaging protocol of HCC undergoing TACE utilizing DynaCT; & Needle Guided Procedures Utilizing DynaCT, Laser Guidance and 2D3D Registration
Role: PI
Source: SMS USA
Total Award Amount: \$297,428
Date: 10/01/2007 – 04/30/2010

13. Perfusion Supplement
Role: Co-PI
Source: SMS USA
Total Award Amount: \$691,179
Date: 10/01/2007 – 09/30/2013