

**CURRICULUM VITAE**  
**Anil Kumar Pillai, MD FRCR**

**PERSONAL INFORMATION:**

Name: Anil K Pillai  
Place of Birth: Trivandrum, Kerala, India  
Year of Birth: 1969  
Home Address: 685 Hollow Ridge Place, Coppell, Texas 75019  
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**EDUCATION**

<u>Year</u>	<u>Degree</u>	<u>Field of Study</u>	<u>Institution</u>
1987-93	MBBS	Medicine	Medical College, Trivandrum, India
1995-98	MD	Diagnostic Radiology	Sardar Patel Medical College, Bikaner, India

**POST DOCTORAL TRAINING**

<u>Years</u>	<u>Training</u>	<u>Specialty/Discipline</u>	<u>Institution</u>
1993-94	Internship	Medicine/Surgery	Medical College, Trivandrum, India
2005-06	Fellowship	Interventional Radiology	Rush University Medical Center, Chicago, IL
2006-07	Advanced Fellowship	Interventional Radiology	Rush University Medical Center, Chicago, IL

**FACULTY ACADEMIC APPOINTMENTS**

<u>Years</u>	<u>Academic Title</u>	<u>Academic Department</u>	<u>Academic Institution</u>
1998-99	Clinical Instructor	Radiology	Amrita Institute of Medical Sciences, India
1999-02	Assistant Professor	Radiology	Amrita Institute of Medical Sciences, India
2007-09	Clinical Instructor	Radiology	Rush University Medical Center, Chicago, IL
2009-12	Assistant Professor	Radiology	Rush University Medical Center, Chicago, IL
2012-16	Assistant Professor	Radiology	UT Southwestern Medical Center, Dallas, TX
2016-	Associate Professor	Radiology	UT Southwestern Medical Center, Dallas, TX

**CURRENT LICENSURE AND CERTIFICATION**

License Number: Q0538/Texas

License Expiration: 08/31/2016

Primary Specialty: Diagnostic Radiology      Boards: Yes      Initial Cert: 2009      Re-cert

Secondary Spec: Vascular and Interventional      Boards: Yes      Initial Cert: 2011      Re-cert

License Number: 036118828/Illinois

License Expiration: 07/31/2017

Primary Specialty: Diagnostic Radiology      Boards: Yes      Initial Cert: 2009      Re-cert

Secondary Spec: Vascular and Interventional      Boards: Yes      Initial Cert: 2011      Re-cert

License Number: 24053/Nebraska

License Expiration: 10/01/2016

Primary Specialty: Diagnostic Radiology      Boards: Yes      Initial Cert: 2009      Re-cert

Secondary Spec: Vascular and Interventional      Boards: Yes      Initial Cert: 2011      Re-cert

License Number: 50242-020

License Expiration: 10/31/2015

Primary Specialty: Diagnostic Radiology      Boards: Yes      Initial Cert: 2009      Re-cert

Secondary Spec: Vascular and Interventional      Boards: Yes      Initial Cert: 2011      Re-cert

#### **HONORS AND AWARDS**

<b><u>Year</u></b>	<b><u>Name of Award</u></b>	<b><u>Awarding Organization</u></b>
1998	Diplomate of National Board of Radiology	National Board of Examinations, New Delhi, India
2003	Fellow of Royal College of Radiology (FRCR)	Royal College of Radiologist, London, UK
2011	Certificate of Added Qualification (CAQ)	American Board of Radiology
2014	Magna Cum Laude	Radiological Society of North America
2014	Certificate of Merit	Radiological Society of North America
2014	Best Educational Exhibit	Society of Interventional Radiology
2014	Certificate of Merit	Society of Interventional Radiology
2014	Best Educational Exhibit	Global Embolization Symposium & Technologies
2014	Physicians Vascular interpretation (RPVI)	American Registry for Diagnostic Medical Sonography (ARDMS)
2015	Harvey L Neiman Grant	Society of Interventional Radiology
2015	Certificate of Merit	Society of Interventional Radiology
2015	Certificate of Merit	Radiological Society of North America
2016	Certificate of Merit	Society of Interventional Radiology
2016	Certificate of Merit	Society of Interventional Radiology
2016	Mentor: Constantine Cope Research Award	Society of Interventional Radiology
2016	Mentor: Resident in training research award	Society of Interventional Radiology
2016	Promotion to Associate professor	University of Texas, Southwestern Medical Center.

#### **APPOINTMENTS AT HOSPITALS AND AFFILIATED INSTITUTIONS**

<b><u>Years</u></b>	<b><u>Hospital Position</u></b>	<b><u>Hospital Dept/Division</u></b>	<b><u>Hospital Institution</u></b>
1998-02	Attending Physician	Radiology	Amrita Institute of Medical Sciences, India
2002-03	Attending Physician	Radiology	Al Ahalia Hospital, Abu Dhabi, UAE
2003-05	Attending Physician	Radiology	Burnley General Hospital, Lancashire, UK

2007-12	Attending Physician	Interventional Radiology	Rush University Medical Center, Chicago, IL
2012-14	Attending Physician	Interventional Radiology	St. Paul University Hospital, Dallas, TX
2012-	Attending Physician	Interventional Radiology	Parkland Memorial Hospital, Dallas, TX
2012-	Attending Physician	Interventional Radiology	Zale Lipshy University Hospital, Dallas, TX
2014-	Attending Physician	Interventional Radiology	Clements University Hospital, Dallas, TX

#### **OTHER PROFESSIONAL POSITIONS**

<u>Years</u>	<u>Position/Title</u>	<u>Institution</u>
1994-95	Medical Officer (General Surgery)	Thahani Hospital, Kerala, India
1998-98	Medical Officer (Emergency Medicine)	MES Hospital, Kerala, India

#### **MAJOR ADMINISTRATIVE LEADERSHIP POSITIONS**

<u>Years</u>	<u>Position Title</u>	<u>Institution</u>	<u>Scope</u>
2011-12	Program Director VIR Fellowship	Rush University Medical Center, Chicago, IL	Hospital
2011-12	Associate Director Interventional Radiology	Rush University Medical Center, Chicago, IL	Departmental
2013-2016	Medical Director Interventional Radiology	Parkland Memorial Hospital, Dallas, TX	Hospital

#### **COMMITTEE SERVICE**

##### **UT Southwestern**

<u>Years</u>	<u>Position Title</u>	<u>Name of Committee</u>	<u>Institution/Organization</u>
2014-now	Member	University Hospital Credentialing Committee	UTSW, Medical Center, Dallas, TX

##### **Departmental**

<u>Years</u>	<u>Position Title</u>	<u>Name of Committee</u>	<u>Institution/Organization</u>
2015-now	Member	Image Guided Procedures	Radiology Department, UTSW Dallas, TX

##### **Hospital**

<u>Years</u>	<u>Position Title</u>	<u>Name of Committee</u>	<u>Institution/Organization</u>
2014-now	Member	Radiology User Group	Parkland Memorial Hospital, Dallas, TX
2013-now	Founder	IR-operational Group	Parkland Memorial Hospital, Dallas, TX

##### **National**

<u>Years</u>	<u>Position Title</u>	<u>Name of Committee</u>	<u>Institution/Organization</u>
2013-now	Member	Standards of Practice Committee	Society f Interventional Radiology

2014	Member	Poster Review Panel	Radiological Society of North America (RSNA)
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**PROFESSIONAL SOCIETIES**

<u>Years</u>	<u>Society Name</u>
2004-now	Radiological Society of North America (RSNA)
2006-11	American Roentgen Ray Society (ARRS)
2005-now	Society of Interventional radiology (SIR)
2003-now	Royal College of Radiologist (RCR), UK
1998-now	Indian Radiological and Imaging Association (IRIA), India

**EDITORIAL ACTIVITY**

Reviewer

<u>Years</u>	<u>Journal Name</u>	<u>Editorial Role</u>
2007-now	American Journal of Roentgenology	Reviewer
2007-now	Journal of Vascular and Interventional Radiology	Reviewer

**INVITED LECTURES, TEACHING, AND PRESENTATIONS**

International

<u>Years</u>	<u>Presentation Title or Course Name</u>
2015	Program Moderator: Liver directed therapy for Hepatocellular Carcinoma, 68 <sup>th</sup> Annual Conference of Indian Radiological and Imaging Association(IRIA), Kochi, India
2015	Arteriovenous access for dialysis: An overview of Endovascular Interventions. 68 <sup>th</sup> Annual Conference of Indian Radiological and Imaging Association(IRIA),Kochi,India
2015	Deep Vein Thrombosis-Role of Interventional Radiology- Tips and Tricks , Managing Complications. 1 <sup>st</sup> Skill development course of Society of Image Guided Therapies-SIGT, New Delhi, India
2015	Catheter Directed Therapies for Varicocele Management.1 <sup>st</sup> Skill development course of Society of Image Guided Therapies-SIGT, New Delhi, India
2015	Advances in Devices and Technologies for Thrombectomy and Clot Dissolution in the Peripheral Venous system. 1 <sup>st</sup> Skill development course of Society of Image Guided Therapies-SIGT, New Delhi, India.
2015	Biliary Interventions in Liver Transplant. 1 <sup>st</sup> Skill development course of Society of Image Guided Therapies-SIGT, New Delhi, India
2016	Intermediate-Advanced Hepatocellular Carcinoma TACE vs Radioembolization. Mongolian Society of Interventional Radiology

National

<u>Years</u>	<u>Presentation Title or Course Name</u>
2012	Overview of endovascular management of portal hypertension. 47 <sup>th</sup> Annual Conference of the National Medical Association (NMA), New Orleans, USA
2014	Coagulation. Review course, American College of Phlebology, San Leandro, California.

- 2014 Diagnosis and Management of Venous and Lymphatic Malformations. Review Course  
American College of Phlebology, San Leandro, California
- 2014 Prophylaxis of Venous Thromboembolism. Review Course  
American College of Phlebology, San Leandro, California
- 2015 Current Status of Lung Transplants and Interventions.  
40<sup>th</sup> Annual Society of Interventional Radiology Meeting, Atlanta, Georgia

Regional

- | <b>Years</b> | <b>Presentation Title or Course Name</b>  |
|--------------|---|
| 1999         | Utility of MRCP in planning percutaneous interventions in malignant hilar biliary Obstructions. Kerala Chapter of the Indian Radiological and Imaging Association Meeting, Kochi, Kerala, India |
| 1999         | 3D CT angiography. Kerala Chapter of the Indian Radiological and Imaging Association Meeting, Kottayam, Kerala, India   |

Local

- 2013 Endovascular Management of High Flow Arteriovenous Malformations  
Multidisciplinary meeting organized by UT Southwestern Plastic Surgery Department.
- 2016 Liver Directed Treatment for Hepatocellular cancer. CME course organized by the disease oriented team for GI tumors.

## BIBLIOGRAPHY OF SCHOLARLY PUBLICATIONS

### Original Research Articles

1. Hypothenar Hammer Syndrome: Rare or Undiagnosed Abudakka M, **Pillai A**, Al-Khaffaf H, Eur J Vasc EndoVasc Surgery 2006 Sep;32(3):257-60 (PMID 16697225)
2. Utility of Magnetic Resonance Cholangiography in planning Tran hepatic biliary interventions in malignant hilar obstructions. **AK Pillai**, KP Sreekumar, NK Prabhu,S Moorthy Ind J Radiol Imag 2002 12:1:37-42
3. Rationale and Technique of Inferior Petrosal Venous Sinus sampling in ACTH dependent Cushing's Syndrome-A pictorial essay NK Prabhu, S Moorthy, KP Sreekumar, V Nair, H Kumar, **AK Pillai** Ind J Radiol Imag 2002 12:1:13-20
4. Results Of Percutaneous Stenting With Self-Expandable Metal Stents S Moorthy , NK Prabhu, KP Sreekumar , **AK Pillai**, PV Nair Ind J Radiol Imag 2004 :14:1
5. Multiple Central Nervous System Hydatidosis Secondary to Cardiac Echinococcosis. **AK Pillai**, MV Pillai, S Vohra, EB Oommen Ind J Radiol Imag 2004 14:1:81-83
6. Popliteal artery entrapment syndrome: Diagnosis by MRI **AK Pillai**, KP Sreekumar, NK Prabhu, S Moorthy Ind J Radiol Imag 2002 12:1:91-93
7. Recurrence of Complex Congenital Hepatoportal Fistula after Coil Embolisation NK Prabhu, S Moorthy, KP Sreekumar, **AK Pillai** Ind J Radiol Imag 2002 12:2:233-236
8. Post-Traumatic High-Flow Priapism Treated by Transarterial Embolisation NK Prabhu, S Moorthy, KP Sreekumar, **AK Pillai** Ind J Radiol Imag 2002 12:2:257-260
9. Intraductal papillary mucinous tumor of the pancreas S Moorthy, NK Prabhu, KP Sreekumar, **AK Pillai** Ind J Radiol Imag 2002 12:4:501-502

10. Bronchial Atresia NS Kumar, BS Arun Babu, S Moorthy, NK Prabhu, **AK Pillai** Ind J Radiol Imaging 2002 12:1:123-4
11. Congenital pituitary gland hypoplasia with absent pituitary stalk BS Arunbabu, S Moorthy, NK Prabhu, KP Sreekumar, **AK Pillai** Ind J Radiol Imag 2002 12:3:427-428
12. De Quervain's disease **AK Pillai**, MV Pillai, BC James, U Chandran, Ind J Radiol Imag 2004:14:2:221-22
13. Intra-arterial contrast-enhanced spiral CT: adjunct to angiography for localizing obscure gastrointestinal bleed. KP Sreekumar, NK Prabhu, S Moorthy , **AK Pillai** Ind J Gastroent Nov-2002 :230-231(PMID 12546178)
14. Brachial Plexus injury during interventional procedure related to patient positioning. **Pillai AK**, Ferral H, Desai S, Paruchuri S, Asselmeier S, Perez-Gautrin R J vasc interv radiol 2007;18:833-4 (PMID 17609440)
15. Comparison of carotid Doppler ultrasound and computerised tomographic angiography in the evaluation of carotid artery stenosis. Surgeon. 2007 Jun;5(3):132-6. Titi M, George C, Bhattacharya D, Rahi A, Woodhead PM, Stevenson WJ, **Pillai A**, Al-Khaffaf H.(PMID 1757665)
16. Median nerve injury due to Medial Brachial Fascial Compartment Syndrome. **PillaiAK**. Bashir M, Ferral H, Paruchuri S, Domkan J vasc interv radiol 2007 ; 18: 1434-1435 (PMID 18003995)
17. Transient Bacteremia after a Percutaneous Liver Biopsy. Sheth D, **Pillai AK**, Ferral H. J vasc interv radiol 2009;20:1429-30 (PMID 19875059)
18. Transient Disorientation and Severe Bradycardia after Carbon Dioxide Angiography **Pillai AK**, Shah AP, Ferral H, MadasseryS, Asselmeier S, Paruchuri S J vasc interv radiol 2010;21:805-6 (PMID 20399682)
19. Intravascular ultrasound guided TIPS placement in a second trimester pregnancy to prophylactically decompress abdominal varices prior to caesarian section. **Pillai AK**, Joseph A, Reddick M, Toomay S, Kalva S J Vasc Intervent radiol 2014;25:481-83(PMID 24581471)
20. Segmental Arterial Mediolytic: A Pictorial Review. **Pillai AK**, Iqbal S, Liu R, Rachamreddy N, Kalva S Cardio Vasc Intervent Radiol 2014;37: 604-12 (PMID 24554198)
21. Yttrium-90 Radioembolization of Hepatic Metastases from colorectal cancer Raval M, Bande D, **Pillai AK**, Ganguli S, Blaszkowsky LS, Beg MS, Kalva SP Front Oncol.2014 25:4:120 (PMID 25120951)
22. Improving inferior vena cava filter retrieval rates with the DMAIC methodology. P Sutphin, S Reis, A Mckune, M Ravanzo, SP Kalva, **Pillai AK** JVIR 2015;26: 491-98 (PMID25636673)
23. Catheter Directed Pharmacological Thrombolysis for acute pulmonary embolism immediately following lung transplantation. M Reddick, S Bollineni, **Pillai AK**, SP Kalva J vasc interv radiol 2015; 26:142-4 (PMID 25636673)
24. Portal Hypertension: A review of portosystemic collateral pathways and endovascular interventions: **Pillai AK**, B Andring, A Patel, C Trimmer, S Kalva Clin Radiol 2015 July (PMID 26188844)
25. Ureteral-arterial fistula: Diagnosis and Management. **Pillai AK**, ME Anderson, M Reddick, P Sutphin, SP Kalva. AJR Am J Roentgenol 2015 May (PMID 25905967)
26. A retrospective analysis of technical factors influencing patency of Transjugular intrahepatic

- portosystemic shunts: Does the distance between the venous end of the stent and the hepatocaval junction matter in the era of Stent-grafts. *World Journal of Gastroenterology* 2015 Jul 14;21(26): 811—7 .B Andring, Kalva SP, Sutphin P, A Anene, R Sinivas, Burell M, Xi Y, **Pillai AK** (PMID 26185383)
27. Comparative Evaluation of Two Venous Sampling Techniques for the Assessment of Pancreatic Insulin and Zinc Release upon Glucose Challenge. **Pillai AK**, Silvers W, Christensen P, Reigel M, Adams-Huet B, Lingvay I, Sun X, Oz OK. *J Diabetes Res.* 2015 July (PMID 26273676)
  28. Endovascular Management of a Post-Traumatic Complex Arterioportal Fistula A Khosla, B White, S Kalva, **A Pillai** *J Vasc Med Surg* 2015;3:198
  29. Approaching the Practice Quality Improvement Project in Interventional Radiology Reis SP, White B, Sutphin PD, Pillai AK, Kalva SP, Toomay SM. *J Am Coll Radiol.* 2015, (PMID 26337461)
  30. Direct Percutaneous Access to the Cervical Portion of the Thoracic Duct, an Alternate to Traditional Access through the Cisterna Chyli. Reis SP, Macfurlane J, Anene A, Pillai AK *J Vasc Interv Radiol* 2015;12:1902-4 (PMID 26596185)
  31. Thrombolysis and Transjugular Intrahepatic Portosystemic Shunt Creation for Acute and Subacute Portal Vein Thrombosis Chamrathy MR, Anderson ME, Pillai AK, Kalva SP. *Tech Vasc Interv Radiol* 2016;19:42-51 (PMID 26997088)
  32. Expulsion of a Uterine Fibroid into the Small Bowel through Uteroenteric Fistula Presenting with Bowel Obstruction after Uterine Fibroid Embolization: Case Report with Histopathologic Correlation. Anil K Pillai, Jerry Mathew Elias Koor, Stephen P. Reis, Kimberly Kho, Patrick D. Sutphin, Elena Lucas *J Vasc Interv Radiol* 2016;27:762-764
  33. Anatomic and radiologic review of chronic mesenteric ischemia and its treatment Adam Jaster, S Choudhery, R Ahn, Patrick D Sutphin, Sanjeeva P Kalva, Matthew E Anderson, Anil K Pillai. *Clinical Imaging* 2016;04 doi:10.1016/j.clinmag.2016.04.003

#### Book or Textbook

- 2012 AK Pillai, AC Quiroz, S Kalva: Vascular Devices p313-332, *Cardiovascular Imaging, Problem solving in Radiology series* 1st Edition, Suhny Abbara and Sanjeeva P. Kalva, Saunders PA
- 2014 Singh K, Anderson ME, Pillai AK *Peripheral artery disease in hemodialysis access* p 181-197: *Dialysis Access Management* 1st edition, Steven Wu and Sanjeeva P Kalva Springer International.
- 2016 *Thoracic Interventions*: AK Pillai, JEM Koor, SP Kalva in press

#### Proceedings of a Meeting

1. Ferral H, Behrens G, Pillai AK, Lopera J, Alonzo M, Patel NH. Endovascular Management of Acute Severe Gastrointestinal Bleeding. *ARRS* 2006
2. Bashir M, Ferral H, Behrens G, Desai S, Paruchuri S, Asselemeier S, Pillai AK. Aortic Stent-Graft Endoleaks: Diagnosis, Classification, and Management. *RSNA* 2007.
3. Christian R. Malalis, Daniel Jeong, Sumeet Virmani, Christopher Chan, Pillai AK *Recanalization Techniques for Central Venous Occlusions*: *SIR* 2012

4. Daniel Jeong, Christian Malalis, Sumeet Virmani, Tameem Souman, Matt Gimpert, Pillai AK: Caval perforation of IVC filters on CT: A Pictorial Assay. SIR 2012
5. S Virmani, R Virmani, C Malalis, D Jeong, AK Pillai: Organ Specific VX 2 rabbit tumor models in Interventional oncology. SIR 2012
6. G Behrens, AK Pillai, AT Chen, J Soni Balloon-Occluded Retrograde Transvenous Obliteration of Gastric Varices: Which Embolic Agent Should We Use? GEST 2012
7. G Behrens, AK Pillai, AT Chen, J Soni. Management of Aortic Stent-Graft Endoleaks: Percutaneous Versus Endovascular Approach and Embolic Material Selection GEST 2012
8. Ankur Patel, MD Sumeet Virmani, MD, MS, Anil K Pillai, MD, Bulent Arslan, MD Rotational C-arm Angiographic CT in Interventional Oncology: A Case Based Pictorial Review from a Tertiary-Care Academic Medical Center. World Congress of Interventional Radiology 2012.
9. Alexander O Quiroz-Casian, George Behrens, MD, Anil K Pillai, MD, Bulent Arslan, MD, Sanjeeva Kalva, MD Spontaneous porto-systemic shunts around the spleen clinical implications and endovascular management: a pictorial essay. RSNA 2012.
10. Anil K Pillai, Tabitz D, Alexander O Quiroz-Casian, Sumeet Virmani, Sanjeeva Kalva, Bulent Arslan, Pre-procedural Planning and Device selection in endovascular repair of Abdominal Aortic Aneurysms: a pictorial essay. RSNA 2012
11. Anil K Pillai, Alexander O Quiroz-Casian, Bulent Arslan, Suraj Chandrashekar, Stent placement in dialysis access: When and where? RSNA 2012
12. Endovascular treatment options for infrainguinal arterial occlusive disease-a pictorial essay C Malalis, PG Smith, JM Soni, A Chen, Anil K Pillai U Turba, B Arslan. SIR 2013
13. Anil K Pillai, M Reddick, S Kalva, S Toomay, K Lam, J Hummel, N Rollins. Diagnosis and Endovascular Management of High flow peripheral Arterio-venous Malformations RSNA 2013
14. Amish D Patel, V Lopez, Anil K Pillai, S Kalva, S Hsu, C Trimmer. Portal Hypertension: A Review of Portosystemic Collateral Pathways and Endovascular interventions RSNA 2013
15. Ikponmwoosa Iyamu, YJ Chuang, J Hummel, S Choudhery, G Butler, Anil K Pillai. Liquid casting agents for embolic therapies-Agent option and selection. RSNA 2013
16. Stephen Reis, Anil K Pillai, B Cox, M Anderson, S Kalva An update on devices currently available to treat chronic total occlusions in the peripheral vasculature. RSNA 2013
17. S Kulkarni, YJ Chuang, Anil K Pillai, S Hsu. A pictorial assay on sharp recanalization techniques in central venous occlusions RSNA 2013
18. AK Pillai, P Sutphin, A Mckune, S P Kalva Lessons learned from a quality improvement project to enhance retrieval rates of inferior vena cava filters (IVCF) SIR 2014
19. ME Anderson, AK Pillai, B Satpathy, SP Kalva Ureteral-arterial fistula: diagnosis and management SIR 2014.
20. I Iyamu, AK Pillai, ME Anderson, SL Hsu Retrieval of implantable contraceptive devices: current techniques and potential expanded role for interventional radiology in device retrieval. SIR 2014
21. MA Burrell, ME Anderson, A Singal, A Yopp, SP Kalva, AK Pillai Retrospective Analysis of Traditional Chemoembolization compared with Drug eluting beads in the Treatment of Hepatocellular Carcinoma at Varying Barcelona Clinic Liver Cancer Stages. GEST 2014
22. J Hummel, I Iyamu, S Kulkarni, J Zerr, AK Pillai, SP Kalva. Vascular Imaging of toxic vasculopathies RSNA 2014



23. S Cahudhary, A Jaster, Ahn, P Sutphin, SP Kalva, AK Pillai. Chronic Mesenteric Ischemia and its treatment: A Pictorial review. RSNA 2014
24. S Hsu, AK Pillai, S Reis, C Trimmer, SP Kalva, P Sutphin Vascular Complications of Pancreatoduodenectomy RSNA 2014.
25. B White,S Reis, S Toomay,P Sutphin, SP Kalva, AK Pillai. Approaching Quality Improvement in Interventional Radiology RSNA 2014
26. A Khosla, SP Kalva, AK Pillai Hyperdynamic portal hypertension (HPH): An overview of etiology, clinical presentations, imaging findings and interventional treatment options. SIR 2015
27. K Menon, SP Kalva, AK Pillai, O Oz, X Sun, L Rund, LB Schook, PD Sutphin: Swine as an animal model in interventional radiology in the post genomic era. SIR 2015
28. B N Andring, I Iyamu, A Anene, SP Kalva, CK Trimmer, AK Pillai: Clinical Utility of intravascular ultrasound for creation of portosystemic shunts. SIR 2015
29. A Khosla, SP Kalva, AK Pillai Non Cirrhotic Portal hypertension: Etiology, Imaging and therapeutic options SIR 2015
30. PD Suthphin, A Ding, S Toomay, SP Reis, AK Pillai, SP Kalva, SL Hsu: Interventional radiologist billing practices to Medicare: Procedures performed and Geographic variation SIR 2015
31. B Andring, S Kalva, M Anderson, P Sutphin, AK Pillai Hepatic Encephalopathy following Trans jugular Portosystemic Shunt: Endovascular Management and Review of Literature. ARRS 2015
32. I Iyamu, A Anene, M Reddick, ME Anderson, SP Kalva, AK Pillai: Clinical Utility of Intravascular ultrasound guided portal vein access during Transjugular intrahepatic portosystemic shunt(TIPS) creation: Comparison with conventional technique Annual Conference of the society of interventional radiology (SIR) Atlanta March 1-5 2015
33. MB Burrell, M Reddick, A Singal, A Yopp, SP Kalva, AK Pillai: Analysis of tumor response and survival after chemoembolization of Hepatocellular Cancer using m RECIST criteria: A Tertiary Academic Center Experience. GEST 2014
34. Rasemon J, Pillai AK, Arslan B, Turba U. HeRO (Hemodialysis Reliable Outflow Catheter) Vascular Access Patency Study. SIR 2013
35. Chandrashekar S, Pillai AK, Arslan B, Turba U Retrospective analysis of patency of covered versus non-covered stents in dialysis access at 6 months and 1 year: A tertiary academic center experience. SIR 2013
36. Pillai AK , Ferral H L Roller S Saltzberg Endovascular Management of Post-Biopsy Arterial Injuries in Renal Transplant Patients. CIRSE 2009
37. Hector Ferral, Irma K. Urbina, AK Pillai, George Behrens, Marc Alonzo Nilesh H Patel Endovascular Management of Post-Biopsy Arterial Injuries in Renal Transplant Patients. ARRS 2006
38. Pillai AK,Silvers W, ,Sun X, Oz OK Two Image Guided Techniques for Portal Vein Sampling in Ossabaw Pigs. Swine in Biomedical Research Conference 2014
39. Kiran Batra, Vibhor Wadhwa, Anil K. Pillai, Vaidehi Kaza, Amit Banga Sachin S. Saboo, Jose Torrealba, Suhny Abbara 3D Multiplanar Imaging in the Diagnosis and Management of Lung Transplantation Complications, RSNA 2015
40. Ankaj Khosla, Benjamin White, Anil K. Pillai, Sanjeeva P. Kalva Variceal Embolization: A Resident's Guide to the Many Options for Treating Varices Secondary to Portal Hypertension RSNA 2015
41. Keshav M. Menon, M Ankaj Khosla, Patrick D. Sutphin, Stephen P. Reis, Anil K. Pillai, Clayton K. Trimmer, Revisiting Rokitansky: The Basics of Superior Mesenteric Artery Syndrome RSNA 2015

42. Above and beyond TIPS: procedural challenges and alternative techniques A. Patel, M. Chamorthy, A.K Pillai, P. Sutphin, M. Reddick, S. Kalva SIR 2016
43. Conventional vs. intravascular ultrasound (IVUS) guided transjugular intrahepatic portosystemic shunt (TIPS) creation: a comparison of success, efficiency, complications, and radiation dose AK Pillai, B. Andring, I. Iyamu SIR 2016
44. The economics and billing practices of various specialties in the diagnosis and treatment of venous insufficiency in the Medicare population R. Ahn, A. Khosla, K. Menon, S. Koo, A.K.Pillai, S. Kalva, P. Sutphin SIR 2016
45. Inferior vena cava filter placement and retrieval in the Medicare population. K. Menon, R. Ahn, A. Khosla, A. Pillai, S. Reis, S. Kalva, P. Sutphin SIR 2016
46. Dialysis fistula repair reimbursement variations: are some people getting paid more than others? A. Khosla, R. Ahn, S. Toomay, A.K Pillai, C. Trimmer, S. Kalva, P. Sutphin, K. Menon SIR 2016
47. Growing role of interventional radiology in managing thoracic duct injuries: a pictorial essay depicting the latest developments and interventional approaches M. Toliyat, K. Singh, R. Sibley, S. Reis, S. Kalva, A.K Pillai SIR 2016
48. Comparative evaluation of non-procedural nephrostomy tube related complications in patients with ureteric obstruction due to cancer versus other causes: is 3 month nephrostomy tube (PCN) exchanges optimal for both disease processes? T. Hu, N. Zhang, J. Kovoor, P. Sutphin, S. Kalva, A.K Pillai SIR 2016
49. Yttrium-90 radioembolization versus doxorubicin-eluting beads chemoembolization in patients with infiltrative hepatocellular carcinoma: single center comparison of survival and toxicity A. Alian, G. McLennan, S. Bennett, B. Kapoor, A. Gill, A. Levitin, M. Sands, N. Obuchowski, AK Pillai, SP Kalva SIR 2016

## **TEACHING PORTFOLIO**

### **FORMAL TEACHING OF RESIDENTS, CLINICAL FELLOWS AND RESEARCH (POST DOCTORAL) FELLOWS**

Years: 8/2007

Talk Title: Interesting case conference

Institution: Rush University Medical Center

Audience: Residents

Effort: 4-6 hrs

Years: 9/2007

Talk Title: Aortic Stent Grafts and Endoleaks

Institution: Rush University Medical Center

Audience: Residents

Effort: 4-6 hrs

Years: 05/2008

Talk Title: Resident oral board review

Institution: Rush University Medical Center

Audience: Residents  
Effort: 4-6 hrs

Years: 06/2008  
Talk Title: Acute and Chronic mesenteric ischemia  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 09/2008  
Talk Title: Pulmonary embolism and endovascular treatment  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 07/2009  
Talk Title: IVC Filters and clinical use  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 10/2009  
Talk Title: Introduction to Interventional Radiology  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 1/2010  
Talk Title: Resident oral board review  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 2/2010  
Talk Title: Journal Club. Interventional oncology TACE  
Institution: Rush University Medical Center  
Audience: Fellows  
Effort: 4-6 hrs

Years: 04/2010

Talk Title: Resident oral board review  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 06/2010

Talk Title: Introduction to arterial procedures  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 06/2011

Talk Title: Renal arterial intervention  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 08/2011

Talk Title: Tumor ablation in the liver  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 11/2011

Talk Title: - Central venous catheters  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 01/2012

Talk Title: - Biopsies and drains- basics  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 09/2012

Talk Title: - Radioembolization of liver tumors  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 12/2012

Talk Title: - Uterine fibroid embolization  
Institution: Rush University Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 01/2013

Talk Title: Ablation of hepatic tumors  
Institution: UTSW Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 04/2013

Talk Title: Interesting case series  
Institution: UTSW Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 05/2013

Talk Title: Resident Board review  
Institution: UTSW Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 10/2013

Talk Title: Radioembolization  
Institution: UTSW Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 01/2014

Talk Title: Uterine fibroid embolization  
Institution: UTSW Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 02/2014

Talk Title: Management of hepatocellular carcinoma  
Institution: UTSW Medical Center

Audience: Residents  
Effort: 4-6 hrs

Years: 05/2014  
Talk Title: Tumor ablation  
Institution: UTSW Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 05/2014  
Talk Title: Uterine Fibroid embolization 1  
Institution: UTSW Medical Center  
Audience: Fellow lecture  
Effort: 4-6 hrs

Years: 05/2014  
Talk Title: Uterine Fibroid embolization 2  
Institution: UTSW Medical Center  
Audience: Fellow lecture  
Effort: 4-6 hrs

Years: 08/2014  
Talk Title: VIR cases  
Institution: UTSW Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 09/2014  
Talk Title: IVC filters  
Institution: UTSW Medical Center  
Audience: Fellow lecture

Years: 11/2014  
Talk Title: Peripheral arterial disease  
Institution: UTSW Medical Center  
Audience: Residents  
Effort: 4-6 hrs

Years: 02/2015  
Talk Title: Chemoembolization  
Institution: UTSW Medical Center

Audience: Fellow lecture

Years: 04/2015

Talk Title: Venous thromboembolic disease

Institution: UTSW Medical Center

Audience: Residents

Effort: 4-6 hrs

Years: 05/2015

Talk Title: Tumor ablation

Institution: UTSW Medical Center

Audience: Residents

Effort: 4-6 hrs

Years: 02/2015

Talk Title: Vascular Malformation interventions

Institution: UTSW Medical Center

Audience: Fellow lecture

Years: 06/2015

Talk Title: Peripheral Vascular Malformation in Adult

Institution: UTSW Medical Center

Audience: Residents

Effort: 4-6 hrs

Years: 06/2015

Talk Title: Peripheral Arterial Disease interventions

Institution: UTSW Medical Center

Audience: Fellow lecture

Effort: 4-6 hrs

Years: 08/2015

Talk Title: Case Based Review

Institution: UTSW Medical Center

Audience: Fellows

Effort: 2 hrs

Years: 08/2015

Talk Title: Portal Hypertension

Institution: UTSW Medical Center

Audience: Medical Students

Effort: 4-6 hrs

## **CLINICAL SUPERVISORY AND TRAINING RESPONSIBILITIES**

Years: 2007-2012

Institution: Rush University medical Center

Responsibilities: Training fellows.

Effort: Total number of fellows trained during the period -14

Years: 2013-Present

Institution: UTSW medical Center

Responsibilities: Training fellows.

Effort: Total number of fellows trained during the period - 9

Years: 2011-2012

Institution: Rush University medical Center

Responsibilities: Fellowship Program Director.

Effort: 420 hrs (Reference: ACGME .org)

## **FORMALLY SUPERVISED TRAINEES WHO CO-PUBLISHED OR CO-PRESENTED RESULTS OF EFFORT**

Years: 2012

Trainee Name/Degree: Alexander Quiroz

Trainee Current Position Radiology Resident

Accomplishments: RSNA 2012 Educational Exhibit: Spontaneous porto-systemic shunts around the spleen clinical implications and endovascular management: a pictorial essay.

Years: 2012

Trainee Name/Degree: John Raseman

Trainee Current Position: Radiology resident

Accomplishments: SIR 2013 Oral Presentation: HeRO (Hemodialysis Reliable Outflow Catheter) Vascular Access Patency Study

Years: 2012

Trainee Name/Degree: David Tabritz

Trainee Current Position: Radiology Resident

Accomplishments: RSNA 2012 Educational Exhibit: Pre-procedural Planning and Device selection in endovascular repair of Abdominal Aortic Aneurysms: a pictorial essay

Years: 2012

Trainee Name/Degree: Suraj Chandrashekar

Trainee Current Position: Medical Student



Accomplishments: SIR 2013 Oral Presentation: Stent placement in dialysis access: When and where?  
Stent placement in dialysis access: When and where?

Years: 2014

Trainee Name/Degree: Christopher Ball B S

Trainee Current Position: Medical Student

Accomplishments: Abstract submitted to ACR titled "Financial impact of nephrostomy tube  
Related problems presenting to the ER: Role of a dedicated interventional radiology clinic" This  
abstract paved the way for a grant from the SIR foundation for \$30,000.

Years: 2014

Trainee Name/Degree: Ning Zang

Trainee Current Position: Medical Student

Accomplishments: IRB approved ongoing project "Complications of indwelling Percutaneous  
Nephrostomy catheters"

Years: 2013-14

Trainee Name/Degree: Kendrick Lam

Trainee Current Position: Medical Student

Accomplishments: RSNA 2013: Certificate of Merit Educational exhibit "Endovascular treatment  
of peripheral vascular malformation." Accepted for publication in Applied Radiology.

Years: 2014-15

Trainee Name/Degree: Brice Andring

Trainee Current Position: Resident

Accomplishments: Publication:

50. A retrospective analysis of technical factors influencing patency  
of Transjugular intrahepatic portosystemic shunts: Does the distance between the venous end  
of the stent and the hepatocaval junction matter in the era of Stent-grafts.  
World Journal of Gastroenterology 2015 Jul 14;21(26): 811—7

Years: 2014-15

Trainee Name/Degree: Brice Andring

Trainee Current Position: Resident

Accomplishments: ARRS2015 Educational Exhibit: Hepatic Encephalopathy following  
Transjugular Intrahepatic Portosystemic Shunt: Endovascular Management and Review of the  
Literature

Years: 2014-15

Trainee Name/Degree: Brice Andring

Trainee Current Position: Resident

Accomplishments: SIR 2015 Educational Exhibit: Clinical Utility of Intrvascular Ultrasound in

creation of a TIPS shunt. SIR 2015 Accepted. Plan to write a review

Years: 2014-15

Trainee Name/Degree: Marc Burell

Trainee Current Position: Resident

Accomplishments: Educational Exhibit GEST 2014 Retrospective analysis of traditional chemoembo compared with DEB in HCC.

Years: 2014-15

Trainee Name/Degree: Marc Burell

Trainee Current Position: Resident

Accomplishments: Presentation GEST 2014 Analysis of Tumor response and survival after Chemoembo of HCC mrecist. Process of manuscript preparation.

Years: 2014-15

Trainee Name/Degree: Sadia Chaudhary, Adam Jaster

Trainee Current Position: Resident

Accomplishments: Educational Exhibit RSNA2014 Chronic Mesenteric ischemia and its Treatment: Pictorial Assay RSNA poster(Certificate of Merit)

Years: 2014-15

Trainee Name/Degree: Ik Iyamu

Trainee Current Position: Resident

Accomplishments: Oral Presentation SIR 2015: Clinical utility of intravascular ultrasound guided portal vein access during transjugular intrahepatic portosystemic shunt (TIPS) creation. Data collected, writing the manuscript.

Years: 2014-15

Trainee Name/Degree: Ankaj Khosla

Trainee Current Position: Resident

Accomplishments: Educational exhibit SIR 2015:

1. Venous congestive portal hypertension
2. Hypredynamic portal hypertension

Years: 2014

Trainee Name/Degree: Jed Hummel

Trainee Current Position: Resident

Accomplishments: RSNA 2015 Educational Exhibit: Vascular Imaging of toxic vasculopathies

#### FORMAL TEACHING OF PEERS (CME ONLY)

Years: 2012

Course Name: Annual Meeting of the National Medical Association

Title/Topic of Talks: Overview of endovascular management of portal hypertension

Location: New Orleans

Years: 2014

Course Name: American College of Phlebology Review course

Title/Topic of Talks: Coagulation

Location: San Leandro

Years: 2014

Course Name: American College of Phlebology Review course

Title/Topic of Talks: Diagnosis and Management of Venous and Lymphatic Malformations

Location: San Leandro

Years: 2014

Course Name: American College of Phlebology Review course

Title/Topic of Talks: Prophylaxis of Venous Thromboembolism

Location: San Leandro

Years: 2015

Course Name: Society of Interventional Radiology. Annual conference

Title/Topic of Talks: Current Status of Lung Transplants and Interventions.

Location: Atlanta

Years: 2015

Course Name: Indian Radiology and Imaging. Annual conference

Title/Topic of Talks: Arteriovenous access for dialysis: An overview of Endovascular Interventions

Location: Kochi, India

## **CLINICAL SERVICE ACTIVITIES AND RECOGNITIONS**

### Practice Activities

<u>Specialty</u>	<u>Practice Setting</u>	<u>Location of Practice</u>	<u>Activity Level</u>
Diagnostic Radiology	Clinical	UT Southwestern University Hospitals	General Staff
Diagnostic Radiology	Clinical	Parkland Health & Hospital System	General Staff
Interventional Radiology	Clinical	UT Southwestern University Hospitals	Primary Staff
Interventional Radiology	Clinical	Parkland Health & Hospital System	Primary Staff

## **GRANT SUPPORT FUNDED AND UNFUNDED PROJECTS**

### New/Recent Grant Awards

Grantor: Society of Interventional Radiology  
Title of Project: "Improving Quality of Care for Patients with Percutaneous Nephrostomy through a Dedicated Interventional Radiology Driven Follow-up Program".  
Investigator Role: Primary Investigator  
Annual Amount: \$30,000  
Total Award Amount: \$30,000 Years 1

Grantor: Nordian/BTG  
Title of Project: A Phase III Clinical Trial Evaluating TheraSphere® in Patients With Metastatic Colorectal Carcinoma of the Liver Who Have Failed First Line Chemotherapy  
Investigator Role: Institutional Primary Investigator  
Annual Amount: None, company sponsored Clinical trail  
Total Award Amount

#### Submitted and Pending Grant Applications

Grantor: CPRIT  
Title of Project: Trans arterial infusion of radioactive nanoseeds for efficacious treatment of Hepatocellular carcinoma  
Investigator Role: Co PI  
Total Award Amount: \$549,972 Years 3

#### Expired Grant Awards

Grantor: Gore Medical  
Title of Project: Endoprosthesis versus Percutaneous Transluminal Angioplasty (PTA) to Revise Arteriovenous Grafts at the Venous Anastomosis in Hemodialysis Patients (Gore REVISE study). (2009-2012)  
Investigator Role: Institutional Primary Investigator  
Annual Amount: None, company sponsored Clinical trail

Grantor: Gore Medical  
Title of Project: The GORE VIATORR TIPS endoprosthesis Versus Large-Volume Paracentesis for the treatment of ascites in patients with portal hypertension.( 2011-2013)  
Investigator Role: Institutional Primary Investigator  
Annual Amount: None, company sponsored Clinical trail