

Edward Wolfgang Lee
M.D., Ph.D., M.Sc., DABR, FSIR

CURRICULUM VITAE

EDUCATION:

1992 – 1996	University of California, Irvine, CA Bachelor of Science (B.S.) with Excellence in Research Award
1998 – 1999	Georgetown University School of Medicine, Washington, DC Master of Science (M.Sc.) in Physiology & Biophysics
1999 – 2005	Georgetown University School of Medicine, Washington, DC Doctorate in Medicine (M.D.) with Cum Laude Doctorate in Philosophy (Ph.D.) with Distinction in Physiology
2005 – 2006	Arrowhead Regional Medical Center/San Bernardino County Hospital, Colton, CA - Internship in Transitional Medicine
2006 – 2010	University of California at Los Angeles Medical Center, Los Angeles, CA - Residency in Diagnostic Radiology
2010 – 2011	University of California at Los Angeles Medical Center, Los Angeles, CA - Fellowship in Interventional Radiology
2011	University of California at Los Angeles Medical Center, Los Angeles, CA - Fellowship in Oncologic Imaging

LICENSURE:

2006-current	Medical Board of California (A97746)
2007-current	DEA License
2011-current	American Board of Radiology (Diagnostic Radiology)
2014-current	American Board of Radiology (Vascular Interventional Radiology)
2014-current	Diplomat of American Board of Radiology (DABR)
2018-current	Fellow of Society of Interventional Radiology (FSIR)

PROFESSIONAL EXPERIENCE:

July 1993 – May 1996	Undergraduate Researcher, Department of Pathology, University of California, Irvine
Dec. 96 – Jun. 98	Data Analyst, B&B Inc, Contractor of IBM Corp, Irvine, CA
Oct. 99 – Oct. 2000	Clinical Research Assistant, Division of Endocrinology, Department of Medicine, Georgetown Medical Center, Washington, DC
2001	Research Fellowship Training, Dept. of Anatomy, Nat. Inst. for Working Life, Umea, Sweden
2001	Research Fellowship Training, Dept. of Surgery, Warsaw Medical College, Warsaw, Poland
Jun. 02 – May 05	Postdoctoral Fellow Department of Physiology and Biophysics, Georgetown University, Washington, DC
July 06 – Current	Director of Research Department of Family Medicine, Arrowhead Regional Medical Center, Colton, CA
Dec. 2011	Clinical Observership Department of Radiology, Asan Medical Center, Seoul, Korea
May 13 – Current	Director of Medical Student Education (IR) Division of Interventional Radiology, UCLA, Los Angeles, CA
Jan 14 – Current	Director of Research Division of Interventional Radiology, UCLA, Los Angeles, CA
Jan 16 – Current	Associate Director of Interventional Radiology Fellowship Division of Interventional Radiology, UCLA, Los Angeles, CA
Jan 16 – Current	Associate Director of Interventional Radiology Residency Division of Interventional Radiology, UCLA, Los Angeles, CA
Jan 18 – Current	Co-Director of Interventional Radiology Fellowship Division of Interventional Radiology, UCLA, Los Angeles, CA
Jan 18 – Current	Co-Director of Interventional Radiology Residency Division of Interventional Radiology, UCLA, Los Angeles, CA



ACADEMIC APPOINTMENTS

July 2010 – June 2011	Clinical Instructor in Interventional Radiology University of California at Los Angeles Medical Center, Department of Radiology, Los Angeles, CA
July 2011 - Dec. 2011	Clinical Instructor in Abdominal/Thoracic Imaging University of California at Los Angeles Medical Center, Department of Radiology, Los Angeles, CA
Jan. 2012 – June 2017	Assistant Professor-in-Residence University of California at Los Angeles Medical Center, Department of Radiology, Los Angeles, CA
July 2017 – Present	Associate Professor Interventional Radiology University of California at Los Angeles Medical Center, Department of Radiology, Los Angeles, CA
July 2017 – Present	Associate Professor Liver and Pancreas Transplant Surgery University of California at Los Angeles Medical Center, Department of Surgery, Los Angeles, CA

PROFESSIONAL ACTIVITIES

Membership in Societies

1998-2005	Member of Society for Experimental Biology and Medicine (SEBM)
1998-2005	Member of American Physiological Society (APS)
1998-2006	Member of Microcirculatory Society
1999-2000	Member of American Association for the Advancement of Science (AAAS)
2000-Present	Member of Sigma Xi Research Honors Society
2001-2003	Member of Society for Neuroscience
2001-2005	Member of American Medical Students Association (AMSA)
2001-2005	Member of Medical Society of the District of Columbia (MSDC)
2001-2005	Member of American College of Physicians-ASIM
2001-Present	Member of American Medical Association (AMA)
2002-2003	Councilor of American Heart Association Stroke Council
2002-2005	Councilor of American Heart Association on Basic Cardiovascular Sciences
2004-Present	Member of Radiological Society of North America
2005-Present	Member of American Roentgen Ray Society



2006-2010	Member of California Radiological Society
2006-2010	Member of Los Angeles Radiological Society
2006-Present	Member of Society of Interventional Radiology
2007-2011	Member of Society of Thoracic Radiology
2006-2011	Member of Society of Radiologists in Ultrasound
2007-Present	Member of American College of Radiology
2007-2011	Member of Society of Thoracic Radiology
2008-Present	Member of European Society of Radiology
2009	NIH Peer Review Committee (NIH Challenge Grant, RC1)
2009-2011	Member of American College of Phlebology
2011-2018	Member of American Heart Association (AHA) on CVRI
2011-Present	Member of American Associate for Cancer Research (AACR)
2012-Present	Member of Society of Gastrointestinal Intervention (SGI)
2012-Present	Member of Korean Society of Radiology (KSR)
2014-2018	Member of North American NeuroEndocrine Tumor Society (NANETS)
2015-Present	Member of American Gastroenterological Association (AGA)
2015-Present	Member of American Association for Studying Liver Disease (AASLD)

NIH Grant Reviews

2009	NIH Invited Grant Reviewer (NIH Challenge Grant, RC1)
2015	NIH Grant Review Study Section Committee (2015/10 ZRG1 SBIB-Z)
2016	NIH Grant Review Study Section Committee (<u>ZEB1 OSR-B J2 S, 2017-01</u>)

Other Grant Reviews

2013-2015	Susan G. Komen for the Cure Los Angeles Grant Reviewer
2016-Present	Neuroendocrine Tumor Research Foundation-American Association for Cancer Research (AACR) Grant Scientific Review Committee

Journal Reviews

1. AJP: Regulatory, Integrative, and Comparative Physiology (2003-2007)
2. Journal of Applied Physiology (2004-2008)
3. Journal of Regulatory Peptide (2006-2008)
4. Radiology Case Reports (2006-present)
5. Journal of American Board of Family Medicine (2006-2013)
6. Acta Radiologica (2008-present)
7. Journal of Vascular Interventional Radiology (2008-present)
8. BMJ Case Reports (2008-present)
9. Cancer Research (2009-present)
10. Radiology (2011-present)
11. European Journal of Radiology (2011-present)
12. Korean Journal of Radiology (2012-present)
13. PLOS ONE (2013-present)
14. CardioVascular and Interventional Radiology (2013-present)

15. Journal of NanoMedicine (2013-2018)
16. International Journal of Animal Anatomy and Physiology (2013-present)
17. American Journal of Radiology (2013-present)
18. Nature Medicine (2013-2018)
19. BioMed Research International (2013-present)
20. World Journal of Gastroenterology (2013-present)
21. Gastrointestinal Intervention (2014-present)
22. Advances in Radiology (2014-2018)
23. International Journal of Hepatology (2014-present)
24. Advances in Hepatology (2014-present)
25. BMC Cancer (2015-present)
26. International Journal of Radiation Oncology, Biology, Physics (2015-2018)
27. European Radiology (2015-present)
28. BMC Medical Imaging (2015-present)
29. Digestive Diseases and Sciences (2016-present)
30. Liver International (2016-present)
31. Hepatology (2016-present)
32. Gastrointestinal Endoscopy (2017-present)
33. Clinical and Molecular Hepatology (2017-present)
34. Clinical and Translational Gastroenterology (2017-present)
35. American Journal of Gastroenterology (2018-present)
36. BMC Gastroenterology (2018-present)
37. World Journal of Surgical Oncology (2018-present)
38. Journal of Clinical Gastroenterology (2018-present)

Journal - Editorial Board

1. BioMed Research International (**Radiology Section Editor**, 2013-present)
 - a. **Guest Editor** for Special Issue on “Diagnostic and Interventional Radiology for Liver Disease” (2014)
 - b. **Guest Editor** for Special Issue on “Diagnostic and Interventional Radiology for Liver Disease” (2016)
2. Surgery Research and Practice (Radiology Section, 2013-2015)
3. World Journal of Gastroenterology (2013-present)
4. Advances in Radiology (2014-2015)
5. International Journal of Hepatology (2014-2017)
6. Advances in Hepatology (2014-2015)
7. BMC Cancer (**Associate Editor**, 2015-2018)
8. Journal of Digestive Diseases Interventions
 - a. **Guest Editor** for Special Issue on “Portal Hypertension Treatment” (2017)
9. Gastrointestinal Interventions
 - a. **Guest Editor** for Special Issue on “Portal Vein Interventions” (2018)
10. Clinical and Molecular Hepatology (**Deputy Editor**, 2018-present)

Board/Society Committee Service

1. Young Investigators Award Committee, Society for Experimental Biology and Medicine (2004)
2. Susan G. Komen for the Cure Los Angeles Grant Reviewer (2013-current)
3. The Society of Interventional Radiology (SIR) Foundation Summer Medical Student Research Internship Program mentor (2013-current)
4. **National Institute of Health (NIH)** Grant Review Study Section Committee (2015-current)
5. Neuroendocrine Tumor Research Foundation-**American Association for Cancer Research (AACR)** Grant Scientific Review Committee (2016-current)
6. Society of Interventional Radiology (SIR) Research and Education Committee (2017-current)
7. Society of Gastrointestinal Intervention (SGI) Steering Committee (2016-current)
8. The **American Board of Radiology (ABR)** Vascular and Interventional Radiology Certifying Examination Committee (2016-current)

University/Hospital Committee Service

1. Georgetown University School of Medicine, Dept. of Physiology Graduate Program Admission Committee (2002-2004)
2. Georgetown University School of Medicine Admission Committee (2005)
3. Arrowhead Regional Medical Center Institutional Coordination Committee (2005-06)
4. Arrowhead Regional Medical Center Residency Task Force Committee (2006)
5. Arrowhead Regional Medical Center Graduation Organizing Committee (2006)
6. Arrowhead Regional Medical Center Transitional Medicine Residency Selection Committee (2006-2014)
7. Georgetown University Undergraduate Admission Committee (2010-2014)
8. Arrowhead Regional Medical Center Annual Research Conference Organizer (2006-current)
9. UCLA Department of Radiology Interventional Radiology Fellow Selection Committee (2011-current)
10. UCLA Animal Research Oversight Committee (2013)
11. UCLA Summer BrigSURP Program mentor (2013-current)
12. UCLA Department of Radiology Residency Selection Committee (2014-current)
13. UCLA Legislative Assembly Representative of Academic Senate (2014-current)
14. UCLA David Geffen School of Medicine Admission Committee (2014-current)
15. UCLA Colorectal Cancer Treatment Program Member (2013-current)
16. UCLA Pflieger Liver Tumor Board Member (2014-current)
17. UCLA Undergraduate Scholar Research Program (USRP) Reviewer (2015-current)
18. UCLA DaVita Dialysis Clinical Assessment Committee (2015-current)
19. UCLA Neuroendocrine Tumor (NET) Board Member (2016-current)
20. UCLA Department of Radiology Residency Research Assistant Program mentor (2016-current)
21. UCLA Applied Anatomy College Mentor Program Mentor (2017-current)
22. UCLA-Siemens Research steering Committee (2017-current)
23. UCLA Awards for Education Selection Committee (2018)
24. UCLA David Geffen School of Medicine Admission Selection Subcommittee (2017-current)

Certifications

1. Certified in Basic Life Support (1998-current, AHA)
2. Certified in Advance Cardiac Life Support (2005-current, AHA)
3. Neonatal/Pediatric Advance Life Support (2005, AHA)
4. IV/Phlebotomy (1999, GUMC)

Community Service and Activities

1. Member of Korean Bible Study in DC, Mexico Mission Team (Korean Campus Mission Club of UCSD)
2. Member of Legio Mariae of St. Thomas Catholic Church in Anaheim, CA
3. Member of Orange County Korean Baseball Team (starting catcher)

Patents

- 2006 Composition and methods for Lipo-modeling (US 2009/0317376 A1)
2012 Percutaneous renal artery denervation (US61/671606 – Provisional)
2012 Endovascular lithotripsy (PCT/US2013/044136, WO2013/184697 A1)
2013 Enrichment and isolation of circulating tumor cells using cell-penetrating peptides
(US61/764305 – Provisional)
2014 Balloon-retrograde transvenous obliteration (BRTO) plug (US61/935627)
2014 Bidirectional IVC Filter (US62/014334)
2014 Method for Removing Inferior Vena Cava Filters (US62/032275)

+ 30 other patent applications disclosed to the UCLA Office of Intellectual Property in 2013-2018

Mentoring

RESEARCH FELLOW

Bashir Tafti, MD (2010-2015, UCLA) (RSNA Resident Research Grant Recipient 2012) (RSNA Seed Grant Recipient 2013) (SIR Exploratory Seed Grant Recipient 2015)	Assistant Researcher
Lourdes Alanis, MD (2014-2015, UCLA) - Graduate of UCLA SOM	Volunteer Researcher
Pejman Taghavi, MD (2013-2014, UCLA) - Graduate of Charles Univ. Prague, Czech	Volunteer Researcher
Jessica Xuanzi Chengqian, MD (2014-2014, UCLA) - Graduate of Peking Union Medical College, Beijing, China	Volunteer Researcher
Sayed Hassan Ahmed, MD (2015-2017, UCLA) - Faculty at Assiut University, Egypt	Visiting Researcher

Chinapoj Yongpitayapong, MD (2015-2016, UCLA) - Fellow at King Chulalongkorn Memorial Hospital, Thailand	Visiting Researcher
Ungbae Jeon, MD (2017-current, UCLA) - Faculty at Pusan Medical Center, Korea	Visiting Researcher
Joonyoung Ohm, MD (2017-current, UCLA) - Faculty at Chungnam University Medical Center, Korea	Visiting Researcher
Puja Shahrouki, MD (2017-current, UCLA) - Sweden	Volunteer Researcher
Pengxu Ding, MD (2018-current, UCLA) - Zhengzhou University Medical Center, China	Visiting Researcher

RESIDENTS/FELLOWS

Tim McClure, MD (2012-2014, UCLA)	Urology/IR Attending at Cornell
Jonathan Park, MD (2012-2018, UCLA) (SIR Exploratory Seed Grant Recipient 2015)	IR Attending Physician at Torrance Memorial
Kevin Seals, MD (2013-2018, UCLA)	IR Fellow at UCSF
Matthew Quirk (2013-2018, UCLA)	Body Fellow at UCLA
Ramsey Al-Hakim, MD (2014-2018, UCLA)	IR Attending at Oregon Health Science Univ.
Ronnie Chen, MD (2014-2018, UCLA)	IR Attending at Loma Linda
Luyao Shen (2014-2016, UCLA)	Radiology resident at UCLA
Bashir Tafti, MD (2015-2018, UCLA) (RSNA Resident Research Grant Recipient 2012) (RSNA Seed Grant Recipient 2013) (SIR Exploratory Seed Grant Recipient 2015)	Radiology resident at UCLA
Navid Eghbalieh, MD (2015-2018, UCLA)	IR Attending at Holy Cross Hospital, Burbank
Ani Mirakhur, MD (2015-2018, UCLA)	IR Attending at U Calgary, Canada
Andrew Marsala, MD (2016-2018, UCLA)	IR Attending in Utah
Joseph Konrad, MD (2016-2018, UCLA)	IR Attending in Arkansas
Sarah Khan, MD (2016-2018, UCLA) (RSNA Seed Grant Recipient 2016)	IR Fellow at UCLA
Gary Tse, MD (2017-2018, UCLA)	IR Attending at Mission Hospital, Irvine
Steven Kao, MD (2017-current, UCLA)	Radiology resident at UCLA
Megan Sue, MD (2017-current, UCLA)	Radiology resident at UCLA
Jason Chiang, MD, PhD (2017-current, UCLA)	Radiology resident at UCLA
Shimwoo Lee, MD (2018-current, UCLA)	IR/DR Resident at UCLA

MEDICAL STUDENTS

Francisca Kartono (05-06, ARMC)	Dermatologist in Canton, MI
Lydia Kuo-Bonde (06-10, Georgetown) (SIR Medical Student Grant Recipient)	Pediatric Radiologist at UVA
Steven Sauk (07-08, UCLA)	IR Attending in Chicago, IL
Omid Jafari (07-08, UCLA)	Radiology resident at USC
Michael Lalezarian (07-08, UCLA)	IR at OliveView Medical Center, CA
Christine Chen (07-09, UCLA)	Radiology resident at Yale University

Irene Tsai (07-09, UCLA)

David Brown (07-09, UCI)

Jonathan Grant (07-10, UCLA)

Joel Ornelas (08-09, USC)

Mitch Gudmundsson (08-09, UCLA)

Daniel Choi (08-09, UCLA)

Matthew Davey (08-10, UCLA)

Valentin Lance (08-10, UCLA)

(RSNA and SIR Medical Student Grant Recipient)

Sean Novak (08-10, UCLA)

Christina Ma (08-12, USC)

(RSNA and SIR Medical Student Grant Recipient)

Michael Chiou (09-10, UCLA)

Osamu Kaneko (09-10, UCLA)

Greta Hockett (09-10, UCLA)

Gary Tso (09-12, Georgetown)

Natanel Jourabchi (09-14, UCLA)

(RSNA and SIR Medical Student Grant Recipient)

(SIR Constantine Cope Medical Student Award Recipient)

Mariam Totonchy (09-13, UCLA)

(NIH Clinical Research Fellowship Recipient)

Andrew Brown (10-11, Univ of Toronto)

Matthew Quirk (11-12, UCLA)

Luyao Shen (12-14, U of Cinn)

Won Hyung Choi (13-17, UCSD)

Cecil Patel (13-17, UCLA)

Joe Tesoriaro (14-current, UCI)

Andrew Kuei (14-2018, SUNY Stonybrook)

(RSNA Medical Student Grant Recipient 2015)

(SIR Medical Student Research Grant Recipient 2015)

Jason Ni (15-17, UCLA)

Megan Sue (15-current, UCLA)

Aaron Jen (11-12, UCLA)

Joseph Tseng (12-17, Creighton)

Matthew Hung (17-current, UCLA)

Kevin Fernandes (17-18, Einstein)

Savannah Fletcher (15-current, Univ. Arkansas)

Pricilla Vu (13-15, UCI)

Daniel Mai (13-15, UCLA)

Lauren Shreve (17-current, UCI)

Jenny Seong (15-16, UCI)

Naomi So (16-18, UCLA)

Alicia Eubanks (16-18, U Central Florida)

Michael Hui (17-18, UCLA)

Chelsea Benmassaoud (17-18, UCLA)

Damian Hall (18-current, Univ. Minnesota)

Kimberly Yang (18-current, UCLA)

Radiology resident at UCLA

Surgery resident at University of Washington

Radiation Oncology resident at MD Anderson

IR Fellow at USC

IR Fellow at UCSD

Ophthalmology resident at Stanford

Emergency Medicine fellow at OHSU

Radiology resident at UCSF

Radiology resident at Mount Auburn

Radiology resident at UCLA

Radiology resident at Stanford

Radiology resident at Stanford

Anesthesiology resident at Harbor-UCLA

Radiology resident at UCD

Radiology resident at Cedar-Sinai

Dermatologist at Kaiser

Dermatology resident at Yale

Radiology resident at U of Toronto

Radiology resident at UCLA

Radiology resident at UCLA

Radiology resident at UCLA

Radiology resident at UCLA

Radiology resident at UCLA

Radiology resident at Univ Illinois Chicago

Radiology resident at Stanford

Radiology resident at UCLA

Radiology resident at BWH

Radiology resident at Stanford

Radiology resident at U Penn

Radiology resident at Johns Hopkins

IR/DR resident at UCLA

Medicine Resident at Harbor UCLA

Pediatric Resident at Harbor UCLA

4th year medical student

Anesthesiology Resident at UCI

4th year medical student

4th year medical student

2nd year medical student

3rd year medical student

3rd year medical student

1st year medical student

POST-BAC STUDENTS

Susan Thai (09-13, UCI)
Andrew Kang (11-12, UCD)
Daphne Wong (09-14, UCSD)
Elizabeth Watson (11-14, UCLA)
Stephanie Peterson (11-current, UCLA)
Sharona Hariri (14-18, UCLA)
Jenny Chang (15-18, UC Berkley)
Karen O'Laco (16-17, UCLA)
Parvaneh Shadkam-Farrokhi (17-current, UCLA)
Harry Trieu (17-current, USC)
Christen Gerhart (18-current, UCLA)
Thanh Luong (18-current, UCLA)

Post-bac student
Post-bac student
Alabama College of Osteopathic Medicine
Jefferson Medical College
Post-bac student
University of California, Riverside SOM
Loma Linda University SOM
UCLA SOM
Research Assistant at UCLA
University of Southern California SOM
Post-bac student
Post-bac student

UNDERGRADUATE STUDENTS

Cassidy Tran (10-12, UCLA)
Barissa Cappelletti (11-14, UCLA)
April Cockcroft (11-14, UCLA)
Amy Sen (11-12, UCLA)
Jennifer Shieh (11-12, UCLA)
Yeonsue Chung (11, ChungAng Univ, Korea)
Dasom Kim (12, KyungHee Univ. Korea)
Hyeonmin Ju (12, ChonNam Nat. Univ. Korea)
Taeri Kim (12, ChonBuk Nat. Univ, Korea)
Nancy Morones (13, UCLA)
Portia Hong (13-14, UCLA)
Sujin Han (13-14, Kimcheon Science College)
Naomi So (12-18, UCLA)

(SIR Student Research Grant Recipient 2013)

Erika Monasch (15-17, UCLA)
Thanh Luong (15-18, UCLA)
Lauren Magdaleno (15-17, UCLA)
Katrina Jang (16-17, UCLA)
Sandra Boutros (16-current, UCLA)
Wonsuk Choi (17-18, Hanyang Univ. Korea)
Elena Saab (18-current, UCLA)
Hermona Okbu (18-current, UCLA)
Jessica Huang (18-current, UCLA)
Kendall Phelan (18-current, UCLA)
Sara Vardharajulu (18-current, UCLA)

Pre-law Intern
UCD School of Veterinary Medicine
Western University of Health Science, Oregon
Undergraduate student
Undergraduate student
Clinical Nurse at Asan Medical Center, Korea
Undergraduate student
Undergraduate student
Undergraduate student
Undergraduate student
Undergraduate student
Undergraduate student
Clinical Nurse at SNU Medical Center, Korea
UCLA School of Medicine

Undergraduate student
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Undergraduate student

HONORS AND SPECIAL AWARDS:

- 1995 **Excellence in Biomedical Research Award**, University of California, Irvine, CA
- 1996 **Excellence in Biomedical Research Award**, University of California, Irvine, CA
- 2000 **Gertrude Maengwyn-Davis Award (Graduate Student of the Year)**, Georgetown University
- 2000 **Society of Experimental Biology and Medicine Research Forum Finalist**, Washington DC
- 2001 **Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award** from American Physiological Society (APS)
- 2002 **Young Investigator Award, Cardiovascular Section** from American Physiological Society (APS)
- 2002 **Novel Disease Award** from American Physiological Society (APS)
- 2002 **Medical Student Summer Fellowship** from American Brain Tumor Association (ABTA)
- 2002 **Seed Grant Research Award** from American Medical Association (AMA)
- 2002 **Student Scholarship in Cardiovascular Disease and Stroke** from American Heart Association (AHA)
- 2002 **Student Medical Health Professional Research Award** from American Cancer Society (ACS)
- 2002 **GUMC Graduate Student Organization Travel Grant**, Experimental Biology meeting.
- 2003 **Young Investigator Award** from Society for Experimental Biology and Medicine (SEBM)
- 2003 **Mead Johnson Research Award of the Endocrinology & Metabolism** from American Physiological Society (APS)
- 2005 **William Horner Award** from Georgetown University School of Medicine
- 2006 **ARMC Resident of the Year Award** from Arrowhead Regional Medical Center ARMC
- 2006 **Research Day Award of Excellence, 1st Place** from ARMC
- 2006 **Toshiba Residents Program Recipient** from Society of Radiologists in Ultrasound (SRU)
- 2007 **RSNA Merit Award** from Radiological Society of North America (RSNA) Annual Meeting, Chicago, USA
(Presentation Title: Non-traumatic pneumatosis intestinalis (NTPI), observe or perate?)
- 2008 **ARRS Poster Merit Award** from American Roentgen Ray Society (ARRS) Annual Meeting, Washington, USA

(Presentation Title: Upper extremity deep vein thrombosis (UEDVT): A comprehensive review of UEDVT)

- 2008 **Doctor in Training Scholarship** from Radiomicrosphere Therapy 4th Annual Meeting, Chicago, USA.
- 2008 **Cook Medical Grant for Young Interventionalist** from Global Embolization Symposium and Technologies (GEST) Annual Meeting, Barcelona, Spain.
- 2009 **SIR Foundation Resident/Fellow Research Award** from SIR, USA
- 2009 **SIR Annual Meeting Poster Award** from SIR, USA
(Presentation Title: TIPS for you: a comprehensive review of the anatomical and pathological variants seen in transjugular intrahepatic portosystemic shunt (TIPS) placement.)
- 2009 **ACP Annual Meeting Scholarship** from American College of Phlebology (ACP), USA
- 2009 **R&E Foundation Support Awards** from RSNA, USA
(Presentation Title: What on-call radiologists should be aware of: missed occult chest radiographs.)
- 2009 **R&E Foundation Support Awards** from RSNA, USA
(Presentation Title: What pre-TIPS factors determine post-TIPS and transplant prognosis)
- 2009 **R&E Foundation Support Awards** from RSNA, USA
(Presentation Title: TIPS for you: three dimensional analysis and a comprehensive review of the anatomical and pathological variants seen in Transjugular Intrahepatic Portosystemic Shunt (TIPS) placement.)
- 2009 **Top 10% Best Rated Scientific Papers** from Cardiovascular and Interventional Radiological Society of Europe (CIRSE) Annual Meeting, Lisbon, Portugal
(Presentation Title: Irreversible electroporation: a novel non-thermal tumor ablation technique (investigation in VX2 liver tumor model))
- 2009 **Top 10% Best Rated Scientific Papers** from Cardiovascular and Interventional Radiological Society of Europe (CIRSE) Annual Meeting, Lisbon, Portugal
(Presentation Title: Optimal method of doxorubicin loading and elution in superabsorbent polymer microspheres: in vitro analysis)
- 2010 **RSNA R&E Foundation Roentgen Resident Research Award**, USA
- 2010 **Fellowship Award** from ISET (International Symposium on Endovascular Therapy), USA
- 2011 **Cardiovascular Research and Technology (CRT) 2011 Fellow Grant**, USA
- 2012 **Cardiovascular Research and Technology (CRT) 2012 Fellow Grant**, USA
- 2012 **SIR 2012 Gary J. Becker Young Investigator Award** from SIR, USA
- 2012 **UCLA Clinical Translational Science Institute (CTSI) Scholar Award**, USA
- 2012 **Society of Gastrointestinal Intervention 2012**, Travel Grant, Korea
- 2012 **Society of Gastrointestinal Intervention 2012**, Best Oral Presentation Award, Korea
(Presentation Title: Plug-Assisted Retrograde Transvenous Obliteration (PARTO): Initial Experience at UCLA)

- 2013 **Vitals Patient's Choice Award 2012, USA**
- 2013 **2013 Outstanding Basic Science Faculty Teaching Award, UCLA, USA**
- 2013 Exceptional Physician Award – Nominated, UCLA, USA
- 2014 **Vitals Compassionate Doctor Award, USA**
- 2014 **SIR Annual Meeting Featured Abstract from SIR, USA**
(Presentation Title: Modified-BRTO (mBRTO) for the treatment of portal hypertensive variceal bleeding.)
- 2014 **SIR Annual Meeting Featured Abstract from SIR, USA**
(Presentation Title: iGuide TIPS: an enhanced real-time 3D image-guided TIPS: Preliminary results.)
- 2014 **R&E Foundation Cum Laude Awards from RSNA, USA**
(Presentation Title: Radiation cataractogenesis in interventional radiology: a review for the IR physician)
- 2014 Exceptional Physician Award – Nominated, UCLA, USA
- 2015 **Vitals Compassionate Doctor Award 2014, USA**
- 2015 **Vitals Top 10 Doctor Award – State (California), USA**
- 2015 Exceptional Physician Award – Nominated, UCLA, USA
- 2015 **Vitals Top 10 Doctor Award – Metro Area (Los Angeles Metro Area), USA**
- 2016 **Vitals Compassionate Doctor Award 2016, USA**
- 2016 **Vitals Patient's Choice Award 2016, USA**
- 2016 **Vitals On-Time Doctor Award 2016, USA**
- 2016 Exceptional Physician Award – Nominated, UCLA, USA
- 2017 **Pasadena Magazine 2017 Top Doctors**
- 2017 **Excellence in Education Award, UCLA School of Medicine, USA**
- 2017 Exceptional Physician Award – Nominated, UCLA, USA
- 2017 **Vitals Compassionate Doctor Award 2017, USA**
- 2017 **Vitals Patient's Choice Award 2017, USA**
- 2017 **Vitals On-Time Doctor Award 2017, USA**
- 2018 **Los Angeles Magazine 2018 Top Doctors (1 of 12 Interventional Radiologists in LA)**



- 2018 Exceptional Physician Award – Nominated, UCLA, USA
- 2018 **Vitals Compassionate Doctor Award 2018, USA**
- 2018 **Vitals Patient's Choice Award 2018, USA**
- 2018 **Vitals On-Time Doctor Award 2018, USA**

RESEARCH GRANTS AND FELLOWSHIPS RECEIVED:

NIH R01HL67357 (PI: Zukowska) (Role: Co-investigator)	10/01/00 – 09/06/05 \$398,963	10%
Role of Neuropeptide Y (NPY) in Revascularization of Ischemic Tissues To evaluate NPY's new role, (1) pro- and anti-angiogenic effects and (2) vaso-dilative effects, in revascularization of ischemic hindlimb model using molecular, cellular, physiological and radiological markers		
NIH R03HL40718 (PI: Zukowska) (Role: Co-investigator)	06/01/01 – 05/31/03 \$50,000	10%
Neuropeptide Y-induced angiogenesis in aging To evaluate the effectiveness of NPY in promoting neovascularization in aged vessels to correlate the role of angiogenesis in age-related atrophy of tissues <i>in vivo</i> model		
NIH R01HL55310 (PI: Zukowska) (Role: Co-investigator)	04/01/03 – 03/30/08 \$625,000	0%
Does NPY Promote Atherosclerosis? To evaluate a new role of NPY and its receptors (Y1-Y5) in inducing atherosclerosis in aorta and peripheral arteries		
BIO06-10626 (PI: Kee/Lee) UC Discovery Grant	09/01/07 – 02/28/10 \$264,218	0%
A New Non-Thermal Tumor Ablation: Percutaneous Irreversible Electroporation (PIE) of VX2 Rabbit Liver Tumor The major goals of this project are to evaluate the feasibility of irreversible electroporation to create complete hepatic tumor ablation under the image-guidance		
RR0821 (PI: Lee) RSNA Research Resident Grant	07/01/08 – 06/30/10 \$30,000 (Salary Support)	100%
A New Image-Guided Tumor Ablation: Percutaneous Irreversible Electroporation (PIE) on Head and Neck Squamous Cell carcinoma in Rabbit VX2 Neck Tumor Model The major goals of this project are to evaluate the feasibility of irreversible electroporation on Head and Neck cancer in animal model. This project is also to test the characteristics of PIE, which is complete preservation of vital structures such as large vessels and nerves		

- SIRoo1 (PI: Lee)** 11/31/08 – 10/31/10 0%
SIR Foundation Pilot Research Grant \$23,700 (Research Support)
- A New Image-Guided Tumor Ablation: Percutaneous Irreversible Electroporation (PIE) on Head and Neck Squamous Cell carcinoma in Rabbit VX2 Neck Tumor Model**
The major goals of this project are to evaluate the feasibility of irreversible electroporation on Head and Neck cancer in animal model. This project is also to test the characteristics of PIE, which is complete preservation of vital structures such as large vessels and nerves
- SIRLance (PI: Lance)** 05/01/09 – 07/31/10 0%
SIR and RSNA Medical Student Research Grant \$3,000 (Salary Stipend for student)
(Role: mentor)
- Radiologic and Microarray (Radiogenomic) Analysis of Gastric Adenocarcinoma: A Novel Classification of Tumor Subtypes and Prognosis**
To attempt to correlate genetic profiles of gastric cancer with phenotypic features on CT scans to identify novel prognostic genomic markers of gastric cancer
- SIRMa (PI: Ma)** 07/01/09 – 09/30/10 0%
SIR and RSNA Medical Student Research Grant \$3,000 (Salary Stipend for student)
(Role: mentor)
- Evaluation of 18f-FDG PET/CT in Monitoring Tumor Ablation Efficacy of Irreversible Electroporation (IRE) on Rabbit VX2 Liver Tumor**
To evaluate the effectiveness of PET/CT in monitoring irreversible electroporation-induced tumor ablation in a large animal tumor model (rabbit VX2 model). To correlate and analyze immunohistological and PET/CT data to assess the usefulness of PET/CT in evaluating the effectiveness of irreversible electroporation
- ANGIOD-001 (PI: Kee/Lee)** 07/31/09 – 06/30/11 0%
AngioDynamics Inc. Research Grant \$104,000 (Annually Renewable Grant)
- Irreversible Electroporation: a new liver tumor ablation technique**
The major goals of this project are to evaluate and reproduce the effectiveness of irreversible electroporation on hepatic tumor in animal models in both rabbit VX2 tumor model and swine liver ablation model
- RSNAJourabchi (PI: Jourabchi)** 07/01/10 – 06/30/11 0%
RSNA Medical Student Research Grant \$3,000 (Salary Stipend for student)
(Role: mentor)
- Comparison of hepatic tumor ablation margin in radiofrequency ablation, cryoablation and irreversible electroporation: how much ablation margin is adequate?**
To identify the most effective local tumor ablation modality based on ablation margin management and gain a better understanding of pathophysiology of the peripheral grey zone in terms of complete tumor lysis and the potential adjuvant effect of immunomodulation induced by local ablation modalities, with valuable prognostic implications
- RSNATafti (PI: Tafti)** 07/01/12 – 06/30/13 0%
RSNA Research Resident Grant \$30,000 (Salary Stipend for student)

(Role: mentor)

Potential Application of Irreversible Electroporation (IRE) in the Treatment of Breast Cancer

To evaluate the feasibility and effectiveness of IRE ablation in breast cancer in human cadaveric and post-op tissues

ENDOCARE20142494 (PI: Lee)	12/01/13 – 06/30/14	1.5%
Endocare Inc. Research Grant	\$82,954	

UCLA Cryoablation Study

To evaluate the effectiveness and safety of UCLA Cryoablation Protocol compared to the conventional Cryoablation in swine model

PARDEE-001 (PI: Lee)	07/01/13 – 06/30/15	7%
Pardee Research Foundation	\$155,214	

Potential application of Irreversible Electroporation (IRE) in the treatment of pancreatic cancer

The major goals of this project are to evaluate the feasibility and effectiveness of irreversible electroporation on pancreatic tumor in swine animal models.

RSNATafti (PI: Tafti)	07/01/13 – 06/30/15	0%
RSNA Research Fellow Grant	\$50,000	

(Role: mentor)

Irreversible Electroporation (IRE)-mediated ablation of Breast Cancer

To evaluate the clinical feasibility and effectiveness of IRE ablation in breast cancer in patients as an ablate-and-resect project

SIEMENS-001Lee (PI: Lee)	06/01/14 – 05/31/15	4%
Siemens Medical Research Grant	\$172,299	

UCLA iGuide TIPS Study

To evaluate the reproducibility, effectiveness and safety of iGuide TIPS in swine model

SIRKuei (PI: Kuei)	07/01/15 – 09/31/15	0%
SIR Medical Student Research Grant	\$3,000 (Salary Stipend for student)	

(Role: mentor)

TIPS-related hepatic encephalopathy: Does stent size matter?

To attempt to correlate the size of TIPS stent during the placement and the incidence of hepatic encephalopathy.

RMS1524 (PI: Kuei)	07/01/15 – 06/30/16	0%
RSNA Medical Student Research Grant	\$3,000 (Research Stipend for student)	

(Role: mentor)

Inpatient Cost and Mortality Assessment of Transjugular Intrahepatic Portosystemic Shunt (TIPS) patients in the United States from 2002 to 2012

To perform a cost analysis and mortality assessment on over 55,000 patients who received TIPS during 2002-2012 in the US.

SIR002 (PI: Tafti)	07/01/15 – 06/30/16	1%
SIR Foundation Pilot Research Grant	\$25,000 (Research Support)	

(Role: mentor)

Efficacy of ECG-gated Irreversible Electroporation (IRE) in ablating hepatic tumors

To evaluate the feasibility and efficacy of ECG-gated IRE in rabbit VX2 tumors

ANGIOD-001 (PI: Lee)	06/01/15 – 05/31/17	0%
AngioDynamics Inc. Research Grant	\$30,000 (Unrestricted Gift)	

A new use of Irreversible Electroporation

To evaluate a potential new usage/indication for using irreversible electroporation in non-oncologic settings.

SIEMENS-002Lee (PI: Lee)	09/15/2016 – 03/31/19	4%
Siemens Medical Research Grant	\$198,000	

UCLA Parenchyma Blood Volume (PBV) Analysis Study

To evaluate the reproducibility, effectiveness and safety of PBV in predicting outcomes of portal vein, gastric artery and splenic artery embolization in swine model

ANGIOD-002Lee (PI: Lee)	11/01/2016 – 10/31/19	2%
AngioDynamics Inc. Research Grant	\$92,000	

UCLA BioFlo Clinical Trial

To evaluate and compare the efficacy and safety of a new BioFlo dialysis catheter with Palindrome catheter (Prospective Randomized Clinical Trial)

SIR001 (PI: Lee)	07/01/15 – 06/30/18	1%
SIR Foundation Pilot Research Grant	\$25,000 (Research Support)	

Immuno-modulatory Effects of Liver Tumor Ablation Techniques

To evaluate the temporal changes of immune-profiles of liver and systemic circulation after various ablation techniques including RFA, MW, IRE and cryoablation.

GORE001 (PI: Lee)	07/01/16 – 06/30/19	1%
Gore Medical Research Grant	\$50,000	

Retrospective evaluation of TIPS outcomes

To evaluate the clinical outcomes of TIPS procedures; mainly its complications including hepatic encephalopathy, mortality and re-admission rates

RSNAKhan (PI: Khan)	07/01/16 – 06/30/18	0%
RSNA Research Resident Grant (Role: Mentor/Co-investigator)	\$30,000	

Tumor microRNA Expression Profiles as Biomarkers for Predicting Hepatocellular Carcinoma Tumor Response to Y90 Radioembolization

To identify and validate tumor RNA biomarkers using the next generation RNA sequencing technique to predict the outcomes of Y90 treatment in liver primary cancer (HCC) in patients.

RAD EXPGRANT (PI: Lee)	07/01/16 – 06/30/20	2%
UCLA Radiology Exploratory Grant	\$130,000	

Non-coding RNA Analysis of Liver Transplantation

To investigate changes in ncRNA expression of liver allograft and allograft recipient's serum in both pre-transplantation and during allograft rejection to elucidate immunology and pathophysiology of

allograft rejection

GORE002 (PI: Lee)

01/01/19 – 12/31/22

4%

Gore Medical Research Grant

\$300,000

Early TIPS Study (Effective Ascites ReLief in Early TIPS using Viatorr CX vs. LVP Study)

To compare clinical outcome, stent diameter, complications, and the rate of secondary intervention for portal hypertension of early TIPS with the TIPS vs. control conservative disease management of recurrent large volume paracentesis (LVP) with albumin infusion.

LECTURES AND PRESENTATIONS:

Intramural Lectures:

1. Department of Physiology/Medicine, Georgetown University, Washington, DC. Lectured in fall semesters in Adv Physio., Cardiovascular Physio. and Physio. Research; Mar 02, 03, 04
2. Department of Family Medicine Grand Rounds; “Easily missed fractures”; 05/11/2006
3. Medical School Radiology Clerkship Lecture; “Musculoskeletal Imaging”; 11/14/2006
4. Junior Resident Lecture; “ER Ultrasound: what every radiology resident needs to know for call”; 12/20/2007
5. Department Resident Lecture; “Interesting Cases: IR and others...”; 10/30/2008
6. Department Resident Research Lecture; “UCLA IR Research: Irreversible Electroporation and others...”; 11/06/2008
7. Medical School OB/Gyn Clerkship Orientation Lecture; “Ultrasound 101”; 01/05/2009
8. Department of Radiology Grand Rounds; “Upper Extremity Deep Vein Thrombosis”; 01/29/2009
9. Department of Radiology Research Lecture; “Irreversible Electroporation: Pre-Clinical Research”; 02/25/2009
10. Department of Radiology Resident Lecture; “Interventional Radiology Board Cases”; 08/12/2010

11. Department of Radiology Resident Lecture; "IR Cases: Indications, Contraindications and Complications"; 01/05/2011
12. Department of Radiology, Interventional Radiology Research Presentation; "Past, Present & Future..."; 01/19/2011
13. Department Resident Lecture; "Interventional Radiology Interesting Cases"; 09/08/2011
14. Medical School Surgery Clerkship Orientation Lecture; "Introduction to Nonvascular Interventional Radiology"; 10/03/2011
15. Interventional Radiology Fellow Lecture; "BRTO: Balloon-occluded Retrograde Transvenous Obliteration"; 01/04/2012
16. Interventional Radiology Lecture; "The Good, The Bad and The Ugly of AV Fistula Declot"; 02/15/2012
17. Internal Medicine Lecture; "Portal Hypertension: Role of Interventional Radiology (TIPS vs. BRTO); 05/22/2012
18. Interventional Radiology Lecture; "Portal Hypertension"; 06/07/2012
19. Interventional Radiology Lecture; "BRTO"; 06/20/2012
20. Interventional Radiology Fellow Lecture; "Portal Hypertension: Role of Interventional Radiology (TIPS vs. BRTO); 07/18/2012
21. Radiology Resident Lecture; "IR Cases"; 08/15/2012
22. Liver Grand Rounds at UCLA; "BRTO: A Novel Therapy for Gastric Variceal Bleeding"; 10/09/2012
23. Sixth Annual UCLA Liver Disease Symposium; "Balloon-occluded Retrograde Transverse Obliteration (BRTO): A New Treatment for Gastric Variceal Bleed and Hepatic Encephalopathy"; 11/03/2012
24. Interventional Radiology Fellow Lecture; "BRTO: Balloon-occluded Retrograde Transvenous Obliteration"; 12/05/2012
25. Radiology Resident Lecture/Board Review; "Signs of Chest Radiology"; 12/19/2012
26. Medical School Surgery Clerkship Orientation Lecture; "Introduction to Interventional Radiology"; 01/09/2013
27. UCLA Patient Referral Center Presentation; "Introduction to UCLA Interventional Radiology";

01/15/2013

28. Interventional Radiology Lecture; “Lymphangiogram and Thoracic Duct Embolization”;
02/20/2013
29. Interventional Radiology Lecture; “Radiography 101 for IR Staff”; 03/20/2013
30. Interventional Radiology Fellow Lecture; “BRTO and CARTO”; 06/07/2013
31. Interventional Radiology Lecture; “TACE vs Y90”; 07/17/2013
32. UCLA Community Health Programs Cancer Lecture; “Image Guided Cancer Therapy”;
08/20/2013
33. Interventional Radiology Lecture; “Upper Extremity Deep Vein Thrombosis”; 08/21/2013
34. Liver Grand Rounds at UCLA; “Why Y90: Is It a Myth or Evidence?”; 09/10/2013
35. Radiology Resident Lecture/Board Review; “IR Cases for You: Indications, Contraindications and
Complications”; 09/12/2013
36. Interventional Radiology Lecture; “Portal Hypertension: Updates”; 09/16/2013
37. Radiology Resident Lecture/Board Review; “IR Cases for You II”; 09/25/2013
38. Medical School Surgery Clerkship Orientation Lecture; “Introduction to Interventional Radiology”;
10/02/2013
39. UCLA Colorectal Tumor Board Presentation; “Radioembolization for Colorectal Hepatic
Metastasis: Updates”; 11/12/2013
40. Interventional Radiology Fellow Lecture; “Lymphangiogram and Thoracic Duct Embolization”;
05/07/2013
41. Interventional Cardiology Conference; “Difficult IR Case – Lymphangiogram and TDE”;
05/08/2013
42. Interventional Radiology Fellow Lecture: “BRTO and CARTO”; 06/18/2014
43. Radiology Resident Lecture/Board Review; “IR Cases for You: Indications, Contraindications and
Complications”; 08/06/2014
44. Interventional Radiology Fellow Lecture: “TIPS”; 11/05/2014
45. Interventional Radiology Fellow Lecture: “Y90 Radioembolization”; 12/17/2014

46. Interventional Radiology Fellow Lecture: “BRTO, PARTO and CARTO”; 01/07/2015
47. Liver Grand Rounds at UCLA: “Is HE Real?: Hepatic Encephalopathy and a New Treatment Option”; 04/14/2015
48. Interventional Radiology Lecture: “Hepatic Encephalopathy”; 04/29/2015
49. Medical School College of Applied Anatomy Lecture: “Clinical Interventional Radiology”; 07/06/2015
50. Medical School Surgery Clerkship Orientation Lecture: “Introduction to Interventional Radiology”; 07/08/2015
51. Radiology Resident Lecture/Board Review; “IR Cases for You: Indications, Contraindications and Complications”; 08/06/2015
52. Interventional Radiology Lecture (Santa Monica Hospital): “Denver Shunt”; 08/10/2015
53. Interventional Radiology Fellow Lecture: “TIPS”; 08/12/2015
54. Gastroenterology Clinical Conference: “CARTO for Gastric Variceal Bleeding”; 01/06/2016
55. UCLA Department of Urology Grand Rounds: “Chylous Ascites: IR’s Perspectives”; 04/13/2016
56. Interventional Radiology Fellow Lecture: “BRTO/CARTO”; 05/11/2016
57. Interventional Radiology Fellow Lecture: “TIPS for TIPS”; 06/22/2016
58. Radiology Resident Lecture/Board Review; “IR Cases for You: Indications, Contraindications and Complications”; 08/03/2016
59. Interventional Radiology Fellow Lecture: “TIPS - Intro”; 08/17/2016
60. Radiology Resident Lecture/Board Review; “TIPS for Residents”; 09/21/2016
61. Interventional Radiology Fellow Lecture: “BRTO/CARTO”; 02/07/2017
62. Radiology Resident Lecture/Board Review; “Lymphangiogram and TDE”; 03/16/2017
63. Interventional Radiology Fellow Lecture: “Portal Hypertension”; 04/19/2017
64. UCLA Department of Pediatrics Pulmonology Conference: “Plastic Bronchitis”; 05/11/2017
65. UCLA Department of Urology Grand Rounds: “Chylous Ascites: Uncharted Waters”; 06/07/2017
66. Radiology Resident Lecture/Board Review; “IR Cases for You: Indications, Contraindications and Complications”; 08/30/2017

67. Interventional Radiology Fellow Lecture: "TIPS - Intro"; 09/20/2017
68. Hepatology Clinical Conference Lecture: "Portal Hypertension – TIPS or BRTO"; 10/03/2017
69. Interventional Radiology Lecture: "BRTO"; 10/17/2017
70. Interventional Radiology Lecture: "Radial Access for IR"; 01/03/2018
71. Liver Grand Rounds at UCLA: "A Paradigm Shift in TIPS"; 04/10/2018
72. Interventional Radiology Fellow Lecture: "BRTO/CARTO"; 06/20/2018
73. Interventional Radiology Lecture: "TIPS"; 07/11/2018
74. Interventional Radiology Fellow Lecture: "TIPS - Basic"; 07/11/2018
75. Surgery Grand Rounds at UCLA: "A Paradigm Shift in TIPS"; 08/22/2018
76. Radiology Resident Lecture/Board Review; "TIPS/BRTO"; 10/04/2018
77. Interventional Radiology Fellow Lecture: "TIPS - Advanced"; 10/10/2018
78. Radiology Resident Lecture/Board Review; "IR Cases for You: Indications, Contraindications and Complications"; 11/21/2018
79. Interventional Radiology Fellow Lecture: "BRTO"; 01/16/2019

Extramural Invited Lectures

1. Resident Lecture at Asan Medical Center, Seoul, Korea (Invited); "Introduction to Interventional Radiology"; 12/06/2011
2. Department of Radiology Staff Lecture at Asan Medical Center, Seoul, Korea (Invited); "UCLA Interventional Radiology"; 12/07/2011
3. Resident/Fellow Lecture at Asan Medical Center, Seoul, Korea (Invited); "Hepatic Arterial Anatomy for TACE and Radioembolization"; 12/08/2011
4. Resident/Fellow Lecture at Asan Medical Center, Seoul, Korea (Invited); "IR Cases Gone Bad - Complications"; 12/13/2011
5. Department of Radiology Grand Round (Invited) at Seoul National University Medical Center,

- Seoul, Korean; "Irreversible Electroporation (IRE): A New and Advanced Tumor Ablation Method"; 12/14/2011
6. Resident Lecture at Asan Medical Center, Seoul, Korea (Invited); "Sings in Chest Radiology"; 12/15/2011
 7. Department of Radiology Grand Round at Asan Medical Center, Seoul, Korea (Invited); "Irreversible Electroporation (IRE): Past, Present and Future"; 12/16/2011
 8. Department of Radiology Grand Round at Samsung Medical Center, Seoul, Korea (Invited); "Irreversible Electroporation (IRE): An Advanced Liver Tumor Ablation"; 12/19/2011
 9. Department of Radiology Grand Round at Severance Yonsei University Medical Center, Seoul, Korea (Invited); "Irreversible Electroporation (IRE): A Comprehensive Review"; 12/20/2011
 10. Resident/Fellow Lecture at Asan Medical Center, Seoul, Korea (Invited); "BRTO: Balloon-occluded Retrograde Transvenous Obliteration"; 10/03/2012
 11. Invited Lecture at Western Angiography & Interventional Society Annual Meeting; "BRTO and PARTO"; 08/29/2013
 12. Invited Lecture at Siemens, Erlange, Germany; "iGuide TIPS"; 09/04/2013
 13. Invited Lecture at the Department of Radiology, Mannheim Medical Center; "Translational Research Imaging Center (TRIC)"; 09/06/2013
 14. Department of Radiology Grand Round at Asan Medical Center, Seoul, Korea (Invited); "Portal Hypertension: Interventional Radiology Perspectives"; 10/22/2013
 15. Invited Lecture at the Society of Gastrointestinal Intervention Annual Meeting 2013; "Radioembolization for HCC: Updates"; 10/26/2013
 16. Invited Lecture at the Clinical and Contemporary Interventional Radiology 2014; "BRTO and mBRTO"; 01/11/2014
 17. The Irreversible Electroporation (IRE) Technical Summit (Invited, Boston, MA); "UCLA IRE Pre-Clinical Study: Pancreas"; 02/11/2014
 18. Invited Lecture at the Eyes on a Cure: Patient and Caregiver Symposium; "Image Guided Cancer Therapy for Ocular Melanoma Liver Metastasis"; 03/01/2014
 19. Distinguished Abstract Presentation at the SIR 2014, San Diego, CA; "Modified-BRTO (mBRTO) for the treatment for portal hypertensive variceal bleeding"; 03/23/2014
 20. Scientific Session Moderator at the SIR 2014, San Diego, CA; "Tumor Ablation 1"; 03/23/2014
 21. Featured Abstract Presentation at the SIR 2014, San Diego, CA; "iGUIDE TIPS: an enhanced real-

- time 3D image-guided TIPS: Preliminary results”; 03/25/2014
22. Invited Lecture at the Boston Scientific Symposium at the SIR 2014, San Diego, CA; “BRTO and CARTO”; 03/25/2014
 23. Department of Radiology Invited Lecture at Korea University Medical Center, Seoul, Korea; “Emerging Techniques in Interventional Radiology”; 03/28/2014
 24. Invited Lecture at the KOean RadioEmbolization Association (KOREA) Symposium, Korea University Medical Center, Seoul, Korea.; “Yttrium 90 and Lung Shunt Fraction”; 03/28/2014
 25. Invited Lecture at the KOREan RadioEmbolization Association (KOREA) Symposium, Korea University Medical Center, Seoul, Korea.; “Yttrium 90 and Portal Vein Thrombosis”; 03/28/2014
 26. Invited Lecture at the Boston Scientific Symposium at the GEST 2014, San Francisco, CA; “BRTO and CARTO”; 05/02/2014
 27. Invited Lecture at the 2014 Korean Society of Interventional Radiology Annual Meeting in Daejeon, Korea; “CARTO: Coil-Assisted Retrograde Transvenous Obliteration”; 05/30/2014
 28. Invited Lecture at Siemens, Erlange, Germany; “iGuide TIPS - Updates”; 09/03/2014
 29. Invited Panelist at the 2014 Society of Gastrointestinal Intervention, Seoul, Korea; “Biliary Intervention”; 10/3/2014
 30. Invited Lecture at the 2014 Society of Gastrointestinal Intervention, Seoul, Korea; “Radioembolization”; 10/04/2014
 31. Invited Moderator at the 2014 Society of Gastrointestinal Intervention, Seoul, Korea; “HCC with PVT”; 10/04/2014
 32. Invited Lecture at the Boston Scientific Symposium at the ISET/CIO 2015, Miami, FL; “CARTO – Coil-Assisted Retrograde Transvenous Obliteration”; 01/31/2015
 33. Invited Lecture at the How to do a TIPS Workshop at the SIR 2015, Atlanta, GA; “TIPS – Technical and Procedural Challenges and Complications”; 03/01/2015
 34. Invited Lecture at the Gore Scientific Symposium at the SIR 2015, Atlanta, GA; “TIPS – Achieving Expert Performance: The Nuances of Successful TIPS Procedures and Outcomes”; 03/02/2015
 35. Invited Lecture at the Boston Scientific Symposium at the SIR 2015, Atlanta, GA; “CARTO – Coil-Assisted Retrograde Transvenous Obliteration”; 03/02/2015
 36. Invited Lecture at the SIR 2015, Atlanta, GA; “PSE (Partial Splenic Embolization) for the Treatment of Portal Hypertensive Variceal Bleeding”; 03/03/2015
 37. Invited Moderator at the SIR 2015, Atlanta, GA; “Lymphangiogram – Introduction”; 03/04/2015

38. Invited Panelist at the 2015 Society of Gastrointestinal Intervention, Seoul, Korea; "EUS-guided Procedures and biliary ablation"; 10/2/2015
39. Invited Moderator at the 2015 Society of Gastrointestinal Intervention, Seoul, Korea; "Metastatic CRC to the Liver: Conversion of Resectability"; 10/02/2015
40. Invited Lecture at the 2015 Society of Gastrointestinal Intervention, Seoul, Korea; "Interventional Approach (TACE or Radioembolization) to Metastatic CRC to the liver"; 10/02/2015
41. Invited Lecture at the 2015 Society of Gastrointestinal Intervention, Seoul, Korea; "Percutaneous Irreversible Electroporation of Pancreatic Adenocarcinoma"; 10/03/2015
42. Invited Moderator at the 2015 Society of Gastrointestinal Intervention, Seoul, Korea; "Optimal Treatment of HCC with Portal Vein Invasion"; 10/03/2015
43. Invited Lecture at the 2015 Society of Gastrointestinal Intervention, Seoul, Korea; "Yttrium-90 in HCC with Portal Vein Invasion"; 10/03/2015
44. Course Co-Director at the 2015 Cook Advanced IVC Filter Retrieval Workshop; 12/04/2015
45. Invited Lecture at the 2016 Siemens Interventional Conference at Asan Medical Center, Seoul, Korea; "Thoracic Duct Embolization"; 02/20/2016
46. Department of Medicine Grand Round at Severance Yonsei University Medical Center, Seoul, Korea (Invited); "Irreversible Electroporation: Past, Present and Future"; 02/22/2016
47. Invited Lecture at the 2016 International Intensive Course in Interventional Radiology, Korean Society of Interventional Radiology (KSIR), Severance Yonsei University Medical Center, Seoul, Korea; "Non-RFA tumor ablation"; 02/26/2016
48. Course Co-Director at the 2016 Cook Basic TIPS and Embolization Workshop; 03/04/2016
49. Invited presentation at the 2nd Parc Tauli International Vascular Access Symposium (PTIVAS) at Hospital de Sabadell, Barcelona, Spain; "The technology of the new materials for enhanced hemodialysis performance"; 04/08/2016
50. Invited presentation at the Cook Medical Asian Pacific Summit at GEST 2016, New York, USA; "CARTO"; 05/04/2016
51. Invited Lecture at the Global Embolization Symposium and Technologies (GEST) 2016, New York, USA; "Lymphatic Intervention"; 05/05/2016
52. Invited Lecture at the Global Embolization Symposium and Technologies (GEST) 2016, New York, USA; "Thoracic Duct Embolization: Technique and Results"; 05/07/2016
53. Invited Lecture at the Global Embolization Symposium and Technologies (GEST) 2016, New York,

- USA; “Modified BRTO Technique”; 05/08/2016
54. Invited Lecture at the Global Embolization Symposium and Technologies (GEST) 2016, New York, USA; “Best TIPS for BRTO and PARTO”; 05/08/2016
 55. Invited Lecture at the Global Embolization Symposium and Technologies (GEST) 2016, New York, USA; “BRTO, PARTO and Portal Hypertension”; 05/08/2016
 56. Invited presentation at the Cook IO Medical Meeting 2016, El Segundo, CA, USA; “CARTO: Updates”; 08/23/2016
 57. Invited presentation at the Cook IO Medical Meeting 2016, El Segundo, CA, USA; “TIPS: Updates”; 08/23/2016
 58. Invited presentation at the Cook IO Medical Meeting 2016, El Segundo, CA, USA; “Portal Vein Embolization”; 08/23/2016
 59. Invited lecture at the Cook VISTA Educational Forum at the Cardiovascular Interventional Radiology Society of Europe (CIRSE) 2016, Barcelona, Spain; “CARTO”; 09/11/2016
 60. Invited Lecture at Siemens, Erlange, Germany; “Advancing IR with Siemens”; 09/15/2016
 61. Invited Lecture at the 2016 Society of Gastrointestinal Intervention, Seoul, Korea; “TransArterial RadioEmbolization (TARE) for mCRC”; 10/07/2016
 62. Invited Moderator at the 2016 Society of Gastrointestinal Intervention, Seoul, Korea; “Difficult to Treat Liver Cancer”; 10/07/2016
 63. Invited Lecture at the 2016 Society of Gastrointestinal Intervention, Seoul, Korea; “Pancreatitis related Pseudoaneurysm – Interventional Radiology Treatment Options”; 10/08/2016
 64. Invited Seminar at the 2016 Society of Gastrointestinal Intervention, Jeju, Korea; “Past, Present, and Future of SGI”; 10/09/2016
 65. Invited Lecture at the 2016 Digestive Disease Interventions, San Diego, CA, USA; “Gastric Varices – Anatomy and Classifications”; 10/26/2016
 66. Invited Lecture at the 2016 Digestive Disease Interventions, San Diego, CA, USA; “Patient Selection for TIPS vs. BRTO”; 10/26/2016
 67. Invited lecture at the Cook VISTA Educational Forum 2016, Los Angeles, CA USA: “Portal Hypertension: TIPS vs. BRTO”; 11/17/2016
 68. Course Co-Director at the 2016 Cook Basic TIPS and Embolization Workshop; 11/18/2016
 69. Invited Lecture at the KOean RadioEmbolization Association (KOREA) Symposium, Seoul, Korea.;

“SIRT vs. TACE”; 02/02/2017

70. Invited Lecture at the 2017 International Intensive Course in Interventional Radiology (IICIR), Korean Society of Interventional Radiology (KSIR), Severance Yonsei University Medical Center, Seoul, Korea; “TIPS”; 02/14/2017
71. Invited course faculty at the 2017 International Intensive Course in Interventional Radiology (IICIR), Korean Society of Interventional Radiology (KSIR), Severance Yonsei University Medical Center, Seoul, Korea; “IICIR Hands-on Workshop”; 02/16/2017
72. Invited Lecture at the 2017 GU/OB Interventional Symposium, Gia Dinh Hospital, Ho Chi Minh City, Vietnam; “Prostatic Artery Embolization: A to Z”; 02/19/2017
73. Invited Lecture at the How to do a BRTO Workshop at the SIR 2017, Washington DC; “How to do CARTO”; 03/06/2017
74. Invited Moderator at the Meet the Experts Workshop at the SIR 2017, Washington DC; “How to do BRTO/CARTO”; 03/07/2017
75. Course Co-Director at the 2017 Gore Medical TIPS Workshop; 03/24/2017
76. Invited Lecture at the 2017 Chinese Society of Interventional Radiology (CSIR) Annual Meeting at Zhengzhou, China: “TIPS – How to prevent and reduce TIPS related complications”; 06/17/2017
77. Invited Special Lecture at the Gulou Hospital/Drum Tower Hospital, Affiliated Medical College of Nanjing University, Nanjing, China: “TIPS”; 06/19/2017
78. Course Co-Director/Invited Lecturer at the 2017 Cook Basic TIPS and Embolization Workshop Los Angeles, CA, USA; “TIPS 101”; 07/06/2017
79. Invited lecture at the Bard Symposium 2017, Las Vegas, Nevada, USA: “CT Anatomy of Chest/Abdomen/Pelvis”; 07/26/2017
80. Course Co-Director/Invited Lecturer at the 2017 Cook Advanced IVC Filter Retrieval Workshop, Los Angeles, CA, USA; “Advanced IVC Filter Retrieval”; 08/04/2017
81. Invited Lecture at the 2017 Society of Gastrointestinal Intervention, Seoul, Korea; “IRE for Pancreatic Cancer - Updates”; 09/08/2017
82. Invited Lecture at the 2017 Society of Gastrointestinal Intervention, Seoul, Korea; “CARTO for Post-OLT Hepatic Dysfunction and Encephalopathy”; 09/09/2017
83. Invited Lecture at the 2017 Thailand Society of Vascular and Interventional Radiology (TSVIR) Annual Meeting, Hua Hin, Thailand; “Radial Access for IR: To do or Not to do”; 11/05/2017
84. Invited Lecture at the 2017 Thailand Society of Vascular and Interventional Radiology (TSVIR)

- Annual Meeting, Hua Hin, Thailand; “Tips for TIPS”; 11/05/2017
85. Invited Lecture at the 2017 Thailand Society of Vascular and Interventional Radiology (TSVIR) Annual Meeting, Hua Hin, Thailand; “IRE for Pancreatic Cancer in Thailand”; 11/05/2017
86. Invited Moderator at the Chulabhorn Hospital, Bangkok, Thailand; “Radial Access for IR: TransRadial Access 101”; 11/06/2017
87. Course Co-Director/Invited Lecturer at the 2017 Cook Basic TIPS and Embolization Workshop Los Angeles, CA, USA; “TIPS and BRTO”; 12/07/2017
88. Invited lecture at the Bard Symposium 2018, Pheonix, Arizona, USA: “Controversies in Thyroid Biopsy”; 01/23/2018
89. Invited Lecture at the 2018 International Intensive Course in Interventional Radiology (IICIR), Korean Society of Interventional Radiology (KSIR), Severance Yonsei University Medical Center, Seoul, Korea; “TIPS”; 02/06/2018
90. Invited course faculty at the 2018 International Intensive Course in Interventional Radiology (IICIR), Korean Society of Interventional Radiology (KSIR), Severance Yonsei University Medical Center, Seoul, Korea; “IICIR Hands-on Workshop”; 02/08/2018
91. Invited Lecture at the How to do a BRTO Workshop at the SIR 2018, Los Angeles, CA; “Portal Hypertension II - Modified BRTO: CARTO and PARTO”; 03/18/2018
92. Invited Moderator at the Meet the Experts Workshop at the SIR 2017, Los Angeles, CA; “BRTO”; 03/20/2018
93. Invited Lecture at the 2018 Chinese Congress of Physicians in Ultrasound (CCPU) Annual Meeting at Zhengzhou, China: “Liver Biopsy”; 05/21/2018
94. Invited Special Lecture at the Third Affiliated Hospital, Sun Yat-sen University, Guangzhou, China: “TIPS with Viatorr”; 05/22/2018
95. Invited Special Lecture at the Jinan Infectious Disease Hospital, Jinan, China: “TIPS – What, Who, Why and When”; 05/24/2018
96. Invited Lecture at the 2018 7th Nanjing Drum Tower Forum of Digestive Diseases and Endoscopy, Nanjing, China: “Viatorr TIPS for variceal bleeding and refractory ascites”; 05/25/2018
97. Invited Lecture at the 2018 7th Nanjing Drum Tower Forum of Digestive Diseases and Endoscopy, Nanjing, China: “TIPS in the USA – Past, Present and Future”; 05/26/2018
98. Invited Lecture at the 2018 APPLE – Asian-Pacific Primary Liver Cancer Expert Meeting, Seoul, Korea: “Advanced Liver Tumor Ablation – Microwave Ablation and Irreversible Electroporation”; 07/06/2018

99. Course Co-Director/Lecturer at the 2018 Cook Basic TIPS and Embolization Workshop, Los Angeles, CA, USA: “TIPS and BRTO”; 07/13/2018
100. Course Co-Director/Lecturer at the 2018 Cook Advanced IVC Filter Retrieval Workshop, Los Angeles, CA, USA: “Advanced IVC Filter Removal”; 08/03/2018
101. Invited Lecturer at the 2018 Terumo Fellows Symposium, Los Angeles, CA, USA: Radial Access for IR (What, Who, How and When); 10/13/2018
102. Invited Lecturer at the 2018 Terumo Fellows Symposium, Los Angeles, CA, USA: Femoral Access – Optimizing Outcomes with Femoral Access; 10/13/2018
103. Invited Lecturer at the 2018 Terumo Fellows Symposium, Los Angeles, CA, USA: Radial Access Cases; 10/13/2018
104. Invited Lecturer at the 2018 Society of Gastrointestinal Intervention, Nanjing, China; “Irreversible Electroporation: Mechanism and Indications”; 10/19/2018
105. Invited Moderator at the 2018 Society of Gastrointestinal Intervention, Nanjing, China; “Locoregional Therapies for HCC”; 10/19/2018
106. Course Co-Director/Lecturer at the 2018 Cook Advanced IVC Filter Retrieval Workshop, Los Angeles, CA, USA: “Advanced IVC Filter Removal”; 11/02/2018
107. Invited Special Lecture at the Kaiser Riverside, Riverside, USA: “Radial Access for IR”; 11/13/2018
108. Invited Lecture at the 2018 10th Interventional Radiology Conference, Zhengzhou, China: “Lung Tumor Ablation – 2018 Updates”; 11/30/2018
109. Invited Lecture at the 2018 10th Interventional Radiology Conference, Zhengzhou, China: “A Hope for Men – Prostate Artery Embolization for BPH”; 12/02/2018
110. Course Co-Director/Lecturer at the 2018 Cook Basic TIPS and Embolization Workshop, Los Angeles, CA, USA: “TIPS and BRTO”; 12/07/2018
111. Invited Lecture at the 2018 2nd Mannheim-UCLA Radiology Symposium, Los Angeles, CA, USA: “Pre-Clinical IR Research”; 12/12/2018

BIBLIOGRAPHY:

PUBLICATIONS (PEER REVIEWED):

1. Ghersi G., Chen W.T., **Lee EW**, Zukowska-Grojec Z. Critical role of dipeptidyl peptidase IV in neuropeptide Y-mediated endothelial cell migration in response to cell wounding. *Peptides*. 2001 Mar; 22(3):453-458
2. Kitlinska, J., **Lee EW**, Movafagh, S., Pons, J., Zukowska, Z.: Neuropeptide Y-induced angiogenesis in aging. *Peptides*. 2002 Jan; 23(1):71-77
3. **Lee EW**, Grant, D.S., Zukowska, Z.: Impaired angiogenesis in neuropeptide Y (NPY) Y2 receptor knockout mice. *Peptides*. 2003 Jan; 24(1): 99-106
4. Kitlinska, J., **Lee EW**, Li, J., Pons, J., Estes, L., Zukowska, Z.: Dual role of dipeptidyl peptidase IV (DPPIV) in angiogenesis and vascular remodeling. *Adv Exp Med Biol*. 2003; 524:215-222
5. Zukowska, Z., Pons, J., **Lee EW**, Li, L.: Neuropeptide Y: a new link between sympathetic nerves, blood vessels, and immune system? *Canadian J. Phys. Pharm.* 2003 Feb; 81(2):89-94
6. Pons, J., Kitlinska, J., Ji, H., **Lee EW**, Zukowska, Z.: Neuropeptide Y and vascular growth: role of Y1 and Y5 receptors and beta-adrenergic activation. *Canadian J. Phys. Pharm.* 2003 Feb; 81(2):177-185
7. **Lee EW**, Michalkiewicz, M., Kitlinska, J., Kalezic, I., Switalska, H., Yoo, P., Sangkharat, A., Ji, H., Li, L., Michalkiewicz, T., Ljubisavljevic, M., Johansson, H., Grant, D., Zukowska, Z.: Neuropeptide Y induces ischemic angiogenesis and restores function of ischemic skeletal muscles through a nitric oxide-dependent mechanism. *J Clin Invest*. 2003 Jun; 111(12):1853-1862
8. Li, L., **Lee EW**, Ji, H., Zukowska, Z.: Neuropeptide Y-induced acceleration of post-angioplasty rat carotid artery occlusion. *Arterioscler Thromb Vasc Biol*. 2003 Jun; 23(7):1204-1210
9. Zukowska, Z., Grant, D.S., **Lee EW**: Neuropeptide Y: a new angiogenic mechanism for ischemic angiogenesis. *Trends Cardiovasc Med*. 2003 Feb; 13(2):86-92
10. Pons, J., **Lee EW**, Kitlinska, J., Li, L.: Neuropeptide Y: multiple receptors and multiple roles in cardiovascular disease. *Curr Opin Investig Drugs*. 2004 Sep; 5(9):957-962
11. **Lee EW**, LaBerge, J.M.: Differential Diagnosis of Gastrointestinal Bleeding. *Tech Vasc Interv Radiol*. 2004 Sep; 7(3):112-122
12. Koulu, M., Movafagh, S., Tuohimaa, J., Jaakkola, U., Kallio, J., Pesonen, U., Geng, Y., Karvonen, M.K., Vainio-Jylha, E., Pollonen, M., Kaipio-Salmi, K., **Lee EW**, Higginson, R., Zukowska, Z.: Neuropeptide Y gene and its Y2-receptor are potential new targets for treatment of retinal neovascularization. *Ann Med*. 2004; 36(3):232-240

13. Kitlinska, J., Abe, K., Kuo, L., Pons, J., Yu, M., Li, L., Tilan, J., Everhart, L., EW, Zukowska, Z., Toretzky, J.A.: Differential effects of neuropeptide Y on the growth and vascularization of neural crest-derived tumors. **Cancer Res.** 2005 Mar; 65(5):1719-1728
14. Dutton, M.A., **Lee EW**, Zukowska, Z.: NPY and extreme stress: lessons learned from posttraumatic stress disorder. **EXS.** 2006; (95):213-222
(manuscript preparation/editing/review; image acquisition)
15. Feuerstein, Z., **Lee EW**: Neuropeptide Y and the heart: implication for myocardial infarction and heart failure. **EXS.** 2006; (95):113-122
(manuscript preparation/editing/review; image acquisition)
16. Kuo, L.E., Kitlinska, J., Tilan, J., Li, L., Baker, S. B., Johnson, M. D., **Lee EW**, Burnett, M. S., Fricke, ST, Kvetnansky, R., Herzog, H., Zukowska, Z.: Neuropeptide Y acts directly in the periphery on fat tissue and mediates stress-induced obesity and metabolic syndrome. **Nature Medicine.** 2007 Jul; 13(7): 803-811
17. **Lee EW**, Loh CT, Kee ST: Imaging guided percutaneous irreversible electroporation: ultrasound and immunohistological correlation. **Technol Cancer Res Treat.** 2007 Aug; 6(4): 287-294
18. Callanan, E., **Lee EW**, Tilan, J. U., Winaver, J., Haramati, A., Mulrone, S., Zukowska, Z.: Renal and cardiac neuropeptide Y (NPY) and NPY receptor in a rat model of congestive heart failure. **Am J Physiol Renal Physiol.** 2007 Dec; 293(6):F1811-1817
19. Kartono, F., Pham, L., Lanum, D., **Lee EW**: Severe arterial thrombosis associated with Protein C deficiency. **Radiology Case Reports.** 2007; 2(3): [Epub]
20. Kartono, F., **Lee EW**, Lanum, D., Pham, L., Maibach, H. I.: Crusted Norwegian Scabies in an adult with Langerhans Cell Histiocytosis: Mishaps leading to systemic chemotherapy. **JAMA Archives of Dermatology.** 2007 May; 143(5):626-628
21. Grant, J. D., Lee J. S., **Lee EW**, Kee ST: Superior vena cava syndrome. **Endovascular Today.** 2009 July; 8(7): 72-76
(Study design/concept; manuscript preparation/editing/review; image acquisition)
22. Grant, J. D., **Lee EW**, Kee ST: Inside industry: UG-FNA for Necks. **Enterprise Imaging.** 2008; 18(3): 59
23. **Lee EW**, Grant, J. D., Loh CT, Kee ST: Bronchial and pulmonary arterial and venous interventions. **Semin Respir Crit Care Med.** 2008 Aug; 29(4): 395-404
(Study design/concept; manuscript preparation/editing/review; image acquisition)
24. **Lee EW**, Hung, R., Kee ST, Bolouri, M. S., Loh CT: Coronary artery perforation following pericardiocentesis managed by coil embolization. **Eur J Radiol.** 2009 May; 70(2): e57-e59
(Study design/concept; manuscript preparation; image analysis)

25. **Lee EW**, Suh, R. D., Zeidler, M. R., Tsai, I. S., Cameron, R. B., Abtin, F. G., Goldin, J. G.: Radiofrequency ablation of subpleural lung malignancy: reduced pain using an artificially created pneumothorax. *Cardiovasc Intervent Radiol*. Feb 5. [Epub ahead of print] 2009 Jul; 32(4):833-836 (Study design/concept; manuscript preparation/editing/review; image acquisition)
26. Brown, D. A., **Lee EW**, Loh, C.T., Kee ST: Biodegradable stents for the treatment of vascular occlusive disease: clinical experience and engineering principles. *J Vasc Interv Radiol*. 2009 Mar; 20(3):315-324; quiz 325 (Study design/concept; manuscript preparation/editing/review; image acquisition)
27. Masamed, R., Meleis A., **Lee EW**, Hathout G.: Cerebral toxoplasmosis: case review and description of a new imaging sign. *Clin Radiol*. 2009 May; 64(5):560-563 (Manuscript editing/review; image acquisition)
28. **Lee EW**, Chen, C., Sauk, S., Ragavendra, N.: How diagnostic is the ultrasound-guided neck mass biopsy (Fine-needle capillary sampling biopsy technique)? Evaluation of 132 non-thyroid neck mass biopsies with pathologic analysis over 7 years at a single institution. *J Ultrasound Med*. 2009 Dec; 28: 1679-1684 (**Lead author**; Study design/concept; manuscript preparation/editing/review; image analysis; data analysis; statistical analysis)
29. **Lee EW**, Prieto, V., Chen, C., Dry, S., Loh CT, Kee ST: A novel hepatic ablation technique creating complete cell death: Irreversible Electroporation. *Radiology*. 2010 May; 255(2):426-33. doi: 10.1148/radiol.10090337. PMID:20413755 (**Lead author**; Study design/concept; manuscript preparation/editing/review; image analysis; data analysis; statistical analysis)
30. McWilliams, J. P., **Lee EW**, Yamamoto, S., Loh CT, Kee ST: Image-guided tumor ablation: emerging technologies and future directions. *Semin Interv Radiol*. 2010 Sep; 27(3):302-13. doi: 10.1055/s-0030-1261789. PMID:22550370 (Study design/concept; manuscript editing/review; image analysis)
31. Kokabi, N., **Lee EW**, Echevarria, C., Loh CT, Kee ST: Sinistral portal hypertension: presentation, radiological findings, and treatment options – a case report. *J Radiol Case Reports*. 2010 Oct 4(10): 14-20 (Study design/concept; manuscript preparation/editing/review; image acquisition)
32. McWilliams, J. P., Kee ST, Loh CT, **Lee EW**, Liu DM,: Prophylactic Embolization of the Cystic Artery Before Radioembolization: Feasibility, Safety, and Outcomes. *Cardiovasc Intervent Radiol*. 2011 Aug; 34(4):786-92. doi: 10.1007/s00270-010-0021-x. Epub 2010 Nov 11. PMID:21063871 (Study concept; manuscript editing/review; image analysis)
33. McWilliams, J. P., Yamamoto, S., Raman, S. S., Loh CT, **Lee EW**, Liu DM, Kee ST: Percutaneous ablation of hepatocellular carcinoma: current status. *J Vasc Interv Radiol*. 2010 Aug; 21(8 Suppl):S204-13. doi: 10.1016/j.jvir.2009.11.025. PMID:20656230 (Manuscript preparation/editing/review; image acquisition)
34. **Lee EW**, Thai, S., Kee ST: Irreversible electroporation: a novel image-guided cancer therapy.

Gut Liver. 2010 Sep; Vol 4, No Suppl.1, Pages 99-104 PMID: 2110330 (**Lead author**; Study design/concept; manuscript preparation/editing/review; image acquisition)

35. **Lee EW**, Wong, D., Perez, A., Prikhodko, S. V., Tran, C., Loh CT, Kee ST: Electron microscopy (EM) demonstration and evaluation of irreversible electroporation (IRE)-induced nanopores on hepatocytes membranes. **J Vasc Interv Radiol.** 2012 Jan;23(1):107-13. Epub 2011 Dec 1 (**Lead author**; Study design/concept; manuscript preparation/editing/review; image analysis; data analysis; statistical analysis)
36. Grant, J. D., Stevens, S. M., Woller, S. C., **Lee EW**, Kee ST, Liu DM, Lohan, D. G., Elliott, C. G.: Diagnosis and management of Upper extremity deep vein thrombosis (UEDVT). **Thomb Haemost.** 2012 Dec;108(6):1097-108. doi: 10.1160/TH12-05-0352. Epub 2012 Oct 23. PMID: 23093319 (Study design/concept; manuscript editing/review; image acquisition, mentoring)
37. Wu, C. C., **Lee EW**, Suh, R. D., Levine, B.S., Barack, B. M.: 64-MDCT pulmonary angiography with 30 mL of intravenous contrast: vascular enhancement and image quality. **AJR Am J Roentgenol.** 2012 Dec;199(6):1247-51. doi: 10.2214/AJR.12.8739. PMID: 23169715 (Study design/concept; manuscript editing/review; image analysis; statistical analysis)
38. **Lee EW**, Wong, D., Tafti, B. A., Prieto, V., Totonchy, M., Hilton, J., Dry, S., Cho, S., Loh CT, Kee ST: Irreversible Electroporation (IRE) in eradicating rabbit VX2 liver tumor. **J Vasc Interv Radiol.** 2012 Jun;23(6):833-40. Epub 2012 Apr 24. PMID: 22534357 (**Lead author**; Study design/concept; manuscript preparation/editing/review; image analysis; data analysis; statistical analysis)
39. Rastegar, R. F., Hou, D., Harris, A., Yoshida, E., Lim, B., Ho, S., Ford, J., Chung S., Goulez G. **Lee EW**, Liu, D.: Is a liver biopsy necessary? Investigation of a suspected hepatocellular carcinoma: a pictorial essay of hepatocellular carcinoma and the revised american association for the study of liver disease criteria. **Can Assoc Radiol J.** 2012 Nov;63(4):329-40.(Study concept; manuscript editing/review)
40. Kim, E. Y., Song, H. Y., Kim, J. H., Fan, Y., Park, S., Kim, D. K., **Lee EW**, Na, H. K.: In-1233-eluting covered metallic stent to prevent hyperplasia: experimental study in a rabbit esophageal model. **Radiology.** 2013 May;267(2):396-404 doi: 10.1148/radiol.12120361. Epub 2013 Jan 11. PMID:23315658 (Manuscript preparation/editing/review; data analysis)
41. Jourabchi N, McWilliams JP, **Lee EW**, Saul S, Kee ST: TIPS placement via combined transjugular and transhepatic approach for cavernous portal vein occlusion – Targeted approach. **Case Rep Radiol.** 2013;2013:635391. doi: 10.1155/2013/635391. Epub 2013 Jan 21. PMID: 23401834 (Study design/concept; manuscript preparation/editing/review; image acquisition)
42. Jourabchi, N., Sauk, S., Hoffman, C., **Lee EW**, Kee ST: Intercostal artery pseudoaneurysm formation after irinotecan transarterial chemoembolization of a spinal metastasis from

- colorectal cancer. *Case Rep Radiol.* 2012;2012:146540. doi: 10.1155/2012/146540. Epub 2012 Dec 17. PMID:23316405 (Study design/concept; manuscript preparation/editing/review; image acquisition)
43. **Lee EW**, Jourabchi N, Sauk S, Lanum D: An extensive Stanford Type A aortic dissection involving bilateral carotid and iliac arteries. *Case Rep Radiol.* 2013;2013:607012. doi: 10.1155/2013/607012. Epub 2013 Jan 14. PMID: 23401833 (**Lead/Corresponding author**; Study design/concept; manuscript preparation/editing/review; image acquisition)
44. Lu DS, Kee ST, **Lee EW**: Irreversible electroporation: ready for prime time? *Tech Vasc Interv Radiol* 2013 Dec;16(4):277-86. doi: 10.1053/j.tvir.2013.08.010. PMID:24238383 (Study design/concept; manuscript preparation/editing/review; image acquisition)
45. Park, J., Durazo, F., Busuttil, R., Kee S.T., **Lee EW**: Plug-assisted retrograde transvenous obliteration (PARTO) of splenorenal shunt for the treatment of refractory hepatic encephalopathy: case report. *Case Rep Radiol.* 2014 January; Accepted (Study design/concept; manuscript editing/review; image acquisition; mentoring)
46. **Lee EW**, Patel, C.: Radioembolization: updates. *Gastrointestinal Intervention.* 2013 September; Accepted/In Revision (Study design/concept; manuscript preparation/editing/review; image analysis; data analysis)
47. Jourabchi, N., Beroukhim K., Tafti, B. A., Kee ST, **Lee EW**: Irreversible electroporation in cancer treatment. *Gastrointestinal Intervention.* 2013 September; In Print (Corresponding Author: Study design/concept; manuscript preparation/editing/review)
48. **Lee EW**, So N., Saab S., McWilliams J. P., Kee ST: Direct Extrahepatic Portosystemic Shunt (DEPS): a novel treatment option for portal hypertension. *J Vasc Interv Radiol.* 2014 March; Accepted (Corresponding Author: Study design/concept; manuscript preparation/editing/review)
49. Al-Hakim R., Kee ST, Olinger K., **Lee EW**, Moriarty, J. M., McWilliams, J. P.: Inferior vena cava filter retrieval: Effectiveness and complications of routine and advanced techniques. *J Vasc Interv Radiol.* 2014 Jun;25(6):933-9; quiz 940. doi: 10.1016/j.jvir.2014.01.019. Epub 2014 Mar 13. PMID: 24630748 (Study design/concept; manuscript editing/review)
50. Kim E. Y., Shin J. H., Song H. Y., Kim J. H., **Lee EW**, Kim W. J., Shin D. H., Lee H.: Suppression of stent-induced tissue hyperplasia in rats by using small interference RNA to target matrix metalloproteinase-9. *Endoscopy*, Endoscopy. 2014 Jun;46(6):507-12. doi: 10.1055/s-0034-1365495. Epub 2014 Apr 25. PMID:24770966 (Manuscript preparation; manuscript editing/review)
51. Park J, Durazo, F., Busuttil RW, Kee S.T., **Lee EW**: Plug-assisted retrograde transvenous obliteration (PARTO) of splenorenal shunt for the treatment of refractory hepatic encephalopathy: case report. *Case Report in Radiology* 2014 January; 2014:391420. PMID: 24744943 (**Corresponding author**; Study design/concept; manuscript editing/review; image

acquisition; mentoring)

52. **Lee EW**, Shin, J. H., Ko, H. K., Sung, K. B.: Lymphangiography to treat postoperative lymphatic leakage: a technical review. *Korean J Radiol.* Korean J Radiol. 2014 Nov-Dec;15(6):724-32. doi: 10.3348/kjr.2014.15.6.724. Epub 2014 Nov 7. PMID:25469083 (Study design/concept; manuscript editing/review; image acquisition)
53. **Lee EW**, Saab S, Gomes AS, Busuttil RW, McWilliams JP, Durazo, F., Han S. H., Goldstein, L., Tafti, B. A., Moriarty J, Loh CT, Kee ST: Coil-assisted retrograde transvenous obliteration (CARTO) for the treatment of portal hypertensive variceal bleeding: preliminary results. *Clin Transl Gastroenterol* 2014 Oct 2;5:e61. doi: 10.1038/ctg.2014.12. PMID 25273155 (**Lead/corresponding Author:** Study design/concept; manuscript editing/review; image acquisition)
54. Park J, Saab S, Kee ST, Busuttil RW, Kim H, Durazo F, Cho SK, **Lee EW**: Balloon-occluded retrograde transvenous obliteration (BRTO) for the treatment of gastric varices: meta-analysis. *Dig Dis Sci.* 2015 Jun;60(6):1543-53. doi: 10.1007/s10620-014-3485-8. PMID 25519690. (**Corresponding Author:** Study design/concept; manuscript preparation/editing/review; image analysis; data analysis; **mentoring**)
55. **Lee EW**, Thakor, A. S., Tafti, B. A., Liu DM: Y90 Selective Internal Radiation Therapy (SIRT) *Surg Oncol Clin N Am* 2015 Jan; 24(1): 167-185 November [Epub ahead of print] PMID 25444474. (**Lead Author;** Study design/concept; manuscript preparation/editing/review; image acquisition)
56. Quirk, M., Kim, Y. H., Saab S, **Lee EW**: Management of Hepatocellular Carcinoma with Portal Vein Thrombosis. *World J Gastroenterol* 2015 Mar 28; 21(12): 3462-3471; PMID 25834310 (**Corresponding Author:** study design/concept; manuscript preparation/editing/review; **mentoring**)
57. Murata S, Niggemann P, **Lee EW**, Hol PK: Diagnostic and Interventional Radiology for Liver Disease. *Biomed Res Int* Epub 2015 Mar 24. PMID 25879015 (manuscript editing/review)
58. Kuei A, Saab S, Cho SK, Kee ST, **Lee EW**: Effects of Yttrium-90 Selective Internal Radiation Therapy (SIRT) on Non-Conventional Liver Tumors. *World J Gastroenterol.* 2015 Jul 21;21(27):8271-83. doi: 10.3748/wjg.v21.i27.8271 PMID:26217079 (**Corresponding Author:** study design/concept; manuscript preparation/editing/review; **mentoring**)
59. Pennington, J. D., Park, S. J., Abgaryan, N., Banerjee, R., Lee P. P., Loh CT, **Lee EW**, Demanes J, Kamrava M: Dosimetric comparison of brachyablation and stereotactic ablative body radiotherapy in the treatment of liver metastasis. *Brachytherapy.* 2015 Jul-Aug;14(4):537-42. doi: 10.1016/j.brachy.2015.04.002. PMID:25944395 (manuscript preparation/editing/review)
60. **Lee EW**, Grant, J. D., Mari, C.: Incidental PET/CT Detection of Breast Cancer in a Patient with Negative Mammogram and Breast Sonogram. *Radiol Case Rep.* 2015 Dec 7;2(3):84. doi: 10.2484/rcr.v2i3.84. PMID:27303476 (**Lead/Corresponding Author:** Study design/concept;

manuscript preparation/editing/review)

61. **Lee EW**, Yang, L., Wilson, M.W.: Hemosuccus pancreaticus as a rare complication of bariatric surgery. *Radiol Case Rep.* 2015 Dec 7;2(2):46-51. doi: 10.2484/rcr.v2i2.56. PMID: 27303462 (**Lead/Corresponding Author**: Study design/concept; manuscript preparation/editing/review)
62. Moriarty J, Tung R, Bradfield J, McWilliams J, **Lee EW**, Kuo MD: Renal Denervation: A novel therapy at the crossroads of imaging, intervention, and innovation. An evaluation of the field regarding image-guided procedures for hypertension focusing on the various pivotal trials. *J Lab Autom J Lab Autom.* 2016 Apr;21(2):312-6. doi: 10.1177/2211068215605838. Epub 2015 Sep 17. PMID:26384401 (Study design/concept; manuscript editing/review)
63. Kishan AU, **Lee EW**, McWilliams J, Lu D, Genshaft S, Motamedi K, Demanes J, Park SJ, Hagio MA, Wang P, Kamrava M: Image-guided high-dose rate brachytherapy: preliminary outcomes and toxicity of a joint interventional radiology and radiation oncology technique for achieving local control in challenging cases. *J Contemp Brachytherapy* 2015 Oct;7(5):327-35. doi: 10.5114/jcb.2015.54947. Epub 2015 Oct 13. PMID:26622237 (**Corresponding author**: Study design/concept; manuscript preparation/editing/review; **mentoring**)
64. Seals, K., **Lee EW**, Cagnon, C., Al-hakim R, Kee ST: Radiation induced cataractogenesis: a critical literature review for the interventional radiologists. *Cardiovasc Interv Radiol* 2016 Feb;39(2):151-60. doi: 10.1007/s00270-015-1207-z. Epub 2015 Sep 24. PMID: 26404628 (**Corresponding Author**: study design/concept; manuscript preparation/editing/review; **mentoring**)
65. Tafti BA, **Lee EW**, Wells C, Jen A, Chang GX, Fishbein M, Kee ST: Minimally-Invasive Ablation of Human Breast Tissue Using Irreversible Electroporation: a Feasibility Study. *J Vasc Interv Radiol.* 2016 January; Accepted. (**Corresponding Author**: Study design/concept; manuscript preparation/editing/review; image acquisition; data analysis; statistical analysis; ; **mentoring**)
66. **Lee EW**, Tafti, B. A., Cho, S., McWilliams, J. P., Quirk, M., Callas, T., Jourabchi, N., Kee ST: Is ECG-gated irreversible electroporation (IRE) still effective in liver ablation? A preliminary validation study in swin liver IRE model. *J Vasc Interv Radiol.* 2016 January; Accepted. (Study design/concept; manuscript preparation/editing/review; image acquisition; data analysis; statistical analysis)
67. **Lee EW**, So N, Saab S, McWilliams J. P., Kee ST: Direct Extrahepatic Portosystemic Shunt (DEPS): a novel treatment option for portal hypertension. *CardioVasc Interv Radiol* 2016 March; In Press. (**Lead/corresponding Author**: Study design/concept; manuscript preparation/editing/review)
68. **Lee EW**, Alanis L, Saab S, Durazo F: Yttrium-90 selective internal radiation therapy for hepatocellular carcinoma: current and updated literature review. *Korean J Radiol* 2016 Jul-Aug;17(4):472-88. doi: 10.3348/kjr.2016.17.4.472. Review PMID:27390539 (**Lead/Corresponding Author**: Study design/concept; manuscript

preparation/editing/review)

69. **Lee EW**, So, N., Chapman, R., McWilliams JP, Loh CT, Busuttill RW W., Kee ST: Intra-procedural cone-beam computed tomography (CBCT) to assess the technical success of modified balloon-occluded retrograde transvenous obliteration (mBRTO) of gastric varices: a preliminary study. *World J Radiol.* 2016 Apr 28;8(4):390-6. doi: 10.4329/wjr.v8.i4.390. PMID:27158425 (**Lead/Corresponding Author**: Study design/concept; manuscript preparation/editing/review; image analysis; data analysis)
70. Park JK, Phyu W, Zaw T, Walsworth M, Lee HY, **Lee EW**. Yttrium-90 radioembolization of nonconventional liver tumors. *Intervent Oncol* 360. 2016;4(7):E115-E129. (**Corresponding Author**: Study design/concept; manuscript preparation/editing/review: **mentoring**)
71. Suraweera D, Jimenez M, Viramontes M, Jamal N, Grotts J, Elashoff D, **Lee EW**, Saab S: Age-related morbidity and mortality after Transjugular Intrahepatic Portosystemic Shunts. *J Clin Gastroenterol.* 2016 May 6 IN PRESS (**Mentoring**: Study design/concept; manuscript editing/review)
72. Kuei A, **Lee EW**, Saab S, Busuttill R, Durazo F, Han SH, ElKabany M, McWilliams JP, Kee ST: Inpatient cost assessment of transjugular intrahepatic portosystemic shunt in the United States from 2001 to 2012. *Dig Dis Sci.* 2016 Oct;61(10):2838-46. doi: 10.1007/s10620-016-4233-z. PMID:27349987 (**Corresponding Author**: Study design/concept; image analysis; data analysis; manuscript preparation/editing/review: **mentoring**)
73. **Lee EW**, Kuei A, Saab S, Busuttill R, Durazo F, Han SH, ElKabany M, McWilliams JP, Kee ST: Nationwide trends and predictors of inpatient mortality in 83,884 transjugular intrahepatic portosystemic shunt. *World J Gastroenterol.* 2016 Jul 7;22(25):5780-9. doi: 10.3748/wjg.v22.i25.5780. PMID:27433091 (**Lead/Corresponding Author**: Study design/concept; manuscript preparation/editing/review; image analysis; data analysis)
74. Park JK, Phyu W, Zaw T, Walsworth M, Lee HY, **Lee EW**. Yttrium-90 radioembolization of nonconventional liver tumors. *Intervent Oncol* 360. 2016;4(7):E115-E129. (**Corresponding Author**: Study design/concept; manuscript preparation/editing/review: **mentoring**)
75. Seals K, Trieu H, Kee S, **Lee EW**: Cataract development in vascular intervention: An analysis of risk and the appropriate preventive measures. *Endovascular Today.* 2016 Aug; 15(8): 73-76 (**Corresponding Author**: Study design/concept; manuscript preparation/editing/review: **mentoring**)
76. Shi J, Gomes A, **Lee E**, Kee S, Moriarty J, Cryer H, McWilliams J: Complications after transcatheter arterial embolization for pelvic trauma: relationship to level and laterality of embolization. *Eur J Orthop Surg Traumatol.* 2016 Aug 20 [Epub] PMID: 27544681 (**Mentoring**: Study design/concept; manuscript editing/review)
77. **Lee EW**: What is the future of interventional oncology?. *Endovascular Today* 2016 Sep 15(9): 6 Supp (**Lead Author**: manuscript editing/review)

78. Al-hakim R, **Lee EW**, Kee ST, Seals K, Varghese B, Chien A, Quirk M, McWilliams J: Hemodynamic analysis of edge stenosis in peripheral artery stent grafts. *Diagn Interv Radiol* 2017 Feb 20. pii: S2211-5684(17)30030-X. doi: 10.1016/j.diii.2017.01.011. [Epub ahead of print] PMID:28233711 (Study design/concept; manuscript preparation/editing/review; image analysis; data analysis **Mentoring**)
79. Bandali MF, Mirakhor A, **Lee EW**, Ferris MC, Sadler DJ, Gray RR, Wong JK: Portal hypertension: Imaging of portosystemic collateral pathways and associated image-guided therapy. *World J Gastroenterol* 2017 Mar 14;23(10):1735-1746. doi: 10.3748/wjg.v23.i10.1735. PMID:28348478 (**Corresponding Author**: Study design/concept; manuscript preparation/editing/review; image analysis; data analysis **Mentoring**)
80. Trieu H, **Lee EW**, Kee ST: Transjugular Intrahepatic Portosystemic Shunt (TIPS) in ascites: Updates. *Dig Dis Interv*. 2017 Accepted/In Press. (**Corresponding Author**: Study design/concept; image analysis; data analysis; manuscript preparation/editing/review: **mentoring**)
81. Marsla A, **Lee EW**, Padia SA: Yttrium-90 Radioembolization for Metastatic Colorectal Cancer: outcomes by Number of Lines of Therapy. *Semin Intervent Radiol*. 2017 Jun;34(2):116-120. doi: 10.1055/s-0037-1602711. PMID: 28579679 (Study design/concept; manuscript preparation/editing/review: **mentoring**)
82. Elmasri MA, Kee ST, Moriarty JM, Gomes A, **Lee EW**, McWilliams JP: Single-center comparison of the efficacy and complications of arterial vascular closure devices in interventional radiology. *J Vasc Access*. 2017 Jun 20:0. doi: 10.5301/jva.5000623. PMID:28665467. (Manuscript preparation/editing/review: **mentoring**)
83. **Lee EW**, Khan S: Recent advances in transarterial embolotherapies in the treatment of hepatocellular carcinoma. *Clin Mol Hepatol* 2017 Nov 8; Epub ahead of print. doi: 10.3350/cmh.2017.0111. PMID: 29113030 (**Lead/Corresponding Author**: Study design/concept; manuscript preparation/editing/review; image analysis; data analysis)
84. **Lee EW**: Portal hypertension. *Dig Dis Interv*. 2018 Accepted/In Press. (**Lead/Corresponding Author**: manuscript preparation/editing/review)
85. Shadkam-Farrokhi P, **Lee EW**: Refractory ascites: treatment and complications utilizing peritoneovenous (Denver) shunt. *Dig Dis Interv*. 2018 Accepted/In Press. (**Corresponding Author**: Study design/concept; image analysis; manuscript preparation/editing/review: **mentoring**)
86. Chen RC, **Lee EW**, Cho SK: Balloon-occluded retrograde transvenous obliteration: emergence as a treatment for gastric varices and medically refractory hepatic encephalopathy. *Dig Dis Interv*. 2018 Accepted/In Press. (**Corresponding Author**: Study design/concept; image analysis; manuscript preparation/editing/review: **mentoring**)
87. Marsala A, **Lee EW**: Coil-assisted retrograde transvenous obliteration: a valid treatment for gastric variceal hemorrhage and hepatic encephalopathy. *Dig Dis Interv*. 2018 Accepted/In

Press. (**Corresponding Author:** Study design/concept; image analysis; manuscript preparation/editing/review: **mentoring**)

88. **Lee EW:** Portal vein intervention. *Gastrointest Interv.* 2018; 7: 1. (**Lead/Corresponding Author:** manuscript preparation/editing/review)
89. Kao SD, **Lee EW:** A review of recent experience with transjugular intrahepatic portosystemic shunt creation using intravascular ultrasound. *Gastrointest Interv.* 2018; 7: 9-13 (**Corresponding Author:** Study design/concept; image analysis; manuscript preparation/editing/review: **mentoring**)
90. Trieu H, **Lee EW:** A new and improved transjugular intrahepatic portosystemic shunt (TIPS) stent graft: Controlled expansion. *Gastrointest Interv.* 2018; 7: 18-20 (**Corresponding Author:** Study design/concept; image analysis; manuscript preparation/editing/review: **mentoring**)
91. **Lee EW,** Saab S, Kaldas F, Fletcher S, Busuttil R, Durazo F, McWilliams JP, DiNorcia J, Padia S, Kee ST: Coil-assisted retrograde transvenous obliteration (CARTO) – an alternative treatment option for refractory hepatic encephalopathy. *Am J Gastroenterol.* 2018 June 14. PMID: 29899437 (**Lead/Corresponding Author:** Study design/concept; manuscript preparation/editing/ review; image analysis; data analysis)
92. Hung ML, **Lee EW,** McWilliams JP, Padia SA, Ding P, Kee ST: A reality check in transradial access – a single-center comparison of transradial and transfemoral access for abdominal and peripheral intervention. *Eur Radiol.* 2018 June 20. PMID: 29926207 (**Corresponding Author:** Study design/concept; image analysis; data analysis; manuscript preparation/editing/review: **mentoring**)
93. Pan P, **Lee EW,** Eghbalieh N, Trieu H: Ipsilateral transradial access in transarterial embolization of upper extremity bony metastases. *J Vasc Access,* 2018 Jul 31. PMID: 30064287 (**Corresponding Author:** Study design/concept; image analysis; data analysis; manuscript preparation/editing/review: **mentoring**)
94. Aby ES, **Lee E,** Saggi SS, Viramontes MR, Grotts JF, Agopian VG, Busuttil RW, Saab S: Pretransplant sarcopenia in patients with NASH cirrhosis does not impact rehospitalization or mortality. *J Clin Gastroenterol,* 2018 Sep 1. PMID: 30180152 (Study design/concept; data analysis; manuscript preparation/editing/review: **mentoring**)
95. Chien A, Wang Y, McWilliams J, **Lee E,** Kee S: Venographic analysis of portal flow after TIPS predicts future shunt revision. *AJR Am J Roentgenol,* 2018 Sep 1. PMID 30085841 (Study design/concept; manuscript preparation/editing/review).
96. **Lee EW,** Kee ST: Response to “Balloon-occluded retrograde transvenous obliteration (BRTO) or coil-assisted retrograde transvenous obliteration (CARTO): which one do we choose?” *Am J Gastroenterol.* 2018 In Press (**Lead/Corresponding Author:** manuscript preparation/editing/ review)

97. **Lee EW**, Shahrouki P, Lourdes A, Ding P, Kee ST: Management options for gastric variceal hemorrhage: 2018 updates. *JAMA Surg* 2018 Accepted/Revision (**Lead/Corresponding Author**: Study design/concept; manuscript preparation/editing/ review; image analysis)
98. Sue MJ, Lee EW, Saab S, McWilliams JP, Durazo F, El-Kabany M, Kaldas F, Busuttil RW, Kee ST: Transjugular liver biopsy – even safe in patients with severe coagulopathies and multiple biopsies. *Clin Transl Gastroenterol* 2018 Accepted/Revision (**Corresponding Author**: Study design/concept; data analysis; image acquisition; manuscript editing/review; **mentoring**)
99. Shreve L, **Lee EW**: Role of interventional radiology in complications of portal hypertension. *J Clin Gastroenterol* 2018 Accepted/Revision (**Corresponding Author**: Study design/concept; image acquisition; manuscript editing/review; **mentoring**)

PUBLICATIONS PEER-REVIEWED (SUBMITTED OR IN REVISION)

1. **Lee EW**, Shahrouki P, Saab S, Peterson S, McWilliams JP, Busuttil RW, Ding PX, Kee ST: Single puncture TIPS – a 3D fusion image-guided transjugular intrahepatic portosystemic shunt (TIPS): an experimental study. *JAMA Surg* 2019; Submitted (**Lead/Corresponding Author**: Study design/concept; manuscript preparation/editing/ review; image analysis; data analysis)
2. Zhang W, Zhang M, Zhang F, Zhu C, Wang Y, Xiao J, Huang S, Zhang B, Yin Q, He J, Chen J, Yang J, Zou X, **Lee EW**, Zhuge Y: Effectiveness of TIPS in treating acute hepatic VOD caused by pyrrolizidine alkaloids with no response to anticoagulation therapy. *Liver Int.* 2019; Submitted. (**Mentoring**: data analysis; manuscript editing/review)
3. Ding PX, **Lee EW**, Han XW, Liu C, Zhang Y, Cheng AL, Wu Y, Liang XX, Gao XM: Long-Term Outcomes of Individualized Treatment Strategy (ITS) in Treatment of Type I Budd-Chiari Syndrome in 456 patients. *J Clin Gastroenterol.* 2018 Dec; Submitted. (**Corresponding Author**: manuscript preparation/editing/review; image analysis; data analysis)
4. Ding PX, **Lee EW**: Congenital Intrahepatic Portosystemic Shunt with Hepatocellular Carcinoma Extending into the Inferior Vena Cava and Right Atrium in a Cirrhotic Patient. *Hepatol.* 2018 Dec; Submitted (Manuscript preparation/editing/review; image analysis; data analysis)
5. Ding PX, Han XW, Liu C, Ding JY, **Lee EW**: Inferior Vena Cava Rupture Caused by Balloon Angioplasty During the Treatment of Budd-Chiari Syndrome. *Eur J Vasc Endovasc Surg.* 2018 Dec; submitted Study design/concept; manuscript preparation/editing/ review; image analysis; data analysis)
6. **Lee EW**, Lee AE, Saab S, Kee ST: Retrograde Transvenous Obliteration (RTO) – a new treatment option for hepatic encephalopathy. *J Clin Gastroenterol.* 2018 Dec; Submitted. (**Lead/Corresponding Author**: Study design/concept; manuscript preparation/editing/ review; image analysis; data analysis)

BOOK CHAPTERS

1. **Lee EW: Neuropeptide Y and angiogenesis: a novel neurogenic mechanism for revascularizing ischemic tissues.** Georgetown University Press. Ph.D. Thesis 2002
2. Zukowska, Z., **Lee EW:** Long-term trophic effects of sympathetic nerves on skeletal muscle. Chronic work-related myalgia: neuromuscular mechanisms behind work-related chronic muscle pain syndromes. H. Johansson, U. Windhorst, M. Djupsjobacka and M. Passatore. Gavle, Gavle University Press. **v.1:** 277-282, 2004
3. **Lee EW,** Tilan, J.U., Kuo, L.E., Zukowska, Z.: NPY as a mediator of neurogenic angiogenesis and revascularization of ischemic tissues. NPY family of peptides in inflammation, immune disorders angiogenesis and cancer: genes, diseases and therapeutics. G. Feuerstein and Z. Zukowska, Basel, Birkhaeuser Publishing Ltd. **v.1:** 151-166, 2006
4. Li, L., Abe, K., **Lee EW,** Zukowska, Z.: Neuropeptide Y in vascular inflammation, remodeling and atherosclerosis. NPY family of peptides in inflammation, immune disorders angiogenesis and cancer: genes, diseases and therapeutics. G. Feuerstein and Z. Zukowska, Basel, Birkhaeuser Publishing Ltd. **v.1:**175-188, 2006
5. **Lee EW,** Kee ST: Introduction to Irreversible Electroporation (IRE). Electroporation in Clinical Medicine and Science. ST Kee J. Gehle and EW Lee New York, Springer Publisher. **V.1.:** xx, 2010 (Study design/concept; manuscript preparation/editing/review)
6. **Lee EW,** Wong, D., Kee ST: Hepatic Irreversible Electroporation (IRE) Ablation –Translation Research. Electroporation in Clinical Medicine and Science. ST Kee J. Gehle and EW Lee New York, Springer Publisher. **V.1.:** xx, 2010 (Study design/concept; manuscript preparation/editing/review; image acquisition)
7. Wong, D., **Lee EW,** Kee ST: Irreversible Electroporation (IRE) in Head and Neck Tumor. Electroporation in Clinical Medicine and Science. ST Kee J. Gehle and EW Lee New York, Springer Publisher. **V.1.:** xx, 2010 (Study design/concept; manuscript preparation/editing/review; image acquisition; mentoring)
8. **Lee EW,** Totonchy, M., Kee ST: Irreversible Electroporation Ablation: Mechanism of Action and Devices. Percutaneous Tumor Ablation: a cook book of strategies and techniques. K. Hong and C. Georgiades, New York, Thiemes Publishers. **V.1:** xx, 2010. (Study design/concept; manuscript preparation/editing/review; image acquisition)
9. **Lee EW,** Wong, D., Kee ST: Irreversible Electroporation in Liver Tumor. Image-guided Cancer Therapies: A Multiple-disciplinary Approach. W. N. McMullen, Y. Fong, G. Dodd and C. S. Ha, New York, Springer Publisher, **V.1:** xx, 2013 (Study design/concept; manuscript preparation/editing/review; image acquisition)
10. **Lee EW,** Xing, M., Kee ST: Trends in Basic Science Research in Interventional Radiology: Nanotechnology, Stem Cells, RNAi and Radiogenomics. Interventional Oncology: Management

and Practice. ST Kee D. C. Madoff and R. Murthy, New York, Elsevier Inc. V.1, 2012.
(Study design/concept; manuscript preparation/editing/review; image acquisition)

11. **Lee EW**, Peterson, S., Kee ST: Irreversible Electroporation (IRE Ablation). Anesthesiology. Jaffe, Samuels, Schmiesing and Golianu, Philadelphia, Lippincott Williams & Wilkins. 5th Ed, 2013. (Study design/concept; manuscript preparation/editing/review)
12. Liu DM, Thakor, A. S., Eftekhari, A., **Lee EW**, Klass, D.: Hepatocellular Carcinoma: Radioembolization. Interventional Oncology. Faintuch, Ganguli and Gandhi, New York, Thiemes Publishers. V.1 (manuscript preparation/editing/review)

ABSTRACTS AND SCIENTIFIC PRESENTATIONS

1. Li, L., Ji, H., **Lee EW**, Zukowska, Z.: Neuropeptide Y and Y1 receptor potently stimulate angioplasty-induced neointimal formation. ***Faseb Journal***, 14(4), A453, Mar 2000, San Diego, CA
2. **Lee EW**, Ballof, J., Dayao, E., Switalska, H., Ji, H., Zukowska, Z.: Angiogenic effects of neuropeptide Y in rat ischemic limb model. ***Faseb Journal***, 14(4), A709, Mar 2000, San Diego, CA
3. **Lee EW**, Dayao, E., Ji, H., Zukowska, Z.: Neuropeptide Y-mediated *in vivo* Angiogenesis. ***P Soc Exp Biol Med*** 225 (3): 233-233 Dec 2000, San Diego, CA
4. **Lee E.**, Ballof, J., Dayao, E., Switalska, H., Ji, H., Zukowska, Z.: Angiogenic effects of neuropeptide Y in rat ischemic limb model. Poster Presentation at Georgetown University Student Research Day, 2000, Washington, DC
5. Li, L., Bojakowski, K., Kitlinska, J., **Lee EW**, Zukowska, Z.: Differential effect of Neuropeptide Y (NPY) on neointimal formation due to angioplasty and transplantation. ***Circulation*** 104 (17): 318 Suppl. S Oct 2001, Anaheim, CA
6. **Lee EW**, Movafagh, S., Eckhardt, L., Karwatowska, E., Colton, C., Grant, D.S., Zukowska, Z.: Neuropeptide Y (NPY) stimulates angiogenesis via nitric oxide (NO)-dependent pathways. ***Circulation*** 104 (17): 592 Suppl. S Oct 2001, Anaheim, CA
7. Kalezic, I., **Lee EW**, Ljubisavljevic, M., Johansson, H., Zukowska, Z.: Effect of Neuropeptide Y (NPY) and muscle performance and fatigability of rat ischemic muscles. Abstract #105.17 in ***Neuroscience*** 2001, San Diego, CA
8. Kitlinska, J., Estes, L., Li, L., **Lee EW**, Movafagh, S., Pons, J., Zukowska, Z.: Role of dipeptidyl peptidase IV (DPPIV) in angiogenesis. Abstract and poster presented at Membrane-bound Proteolytic Enzymes and Cancer (MPEC), 2001, Palermo, Italy
9. **Lee E.**, Tootell, M., Movafagh, S., Zukowska, Z., Grant, D.: Neuropeptide Y (NPY) mediated Angiogenesis in Transgenic Mice. Abstract/Poster presented at 6th Biannual International Angiogenesis Meeting, 2001, Crete, Greece
10. **Lee EW**, Dayao, E., Switalska, H., Kitlinska, J., Grant, D., Zukowska, Z.: Effect of Neuropeptide

- Y Y1 Receptor on the NPY-mediated angiogenesis in the rat ischemic hindlimb model. ***Faseb Journal***, 15(4), A459, Part 1, Mar 2001, Orlando, FL
11. Kitlinska, J., **Lee EW**, Zukowska, Z.: Neuropeptide Y (NPY)-induced angiogenesis in aging. ***Faseb Journal***, 15(4), A459, Part 1, Mar 2001, Orlando, FL
 12. **Lee E.**, Dayao, E., Switalska, H., Kitlinska, J., Grant, D., Zukowska, Z.: Effect of Neuropeptide Y Y1 Receptor on the NPY-mediated angiogenesis in the rat ischemic hindlimb model. Poster Presentation at Georgetown University Student Research Day, 2001, Washington, DC
 13. **Lee E.**, Kitlinska, J., Zukowska, Z.: Neuropeptide Y (NPY)-induced angiogenesis in aging. Poster Presentation at Georgetown University Student Research Day, 2001, Washington, DC
 14. **Lee EW**, Grant, D.S., Zukowska, Z.: Neuropeptide Y (NPY)-mediated angiogenesis in transgenic Y2 receptor knockout mice. ***Faseb Journal***, 16(4), A89, Part 1, Mar 2002, New Orleans, Louisiana
 15. **Lee EW**, Grant, D.S., Zukowska, Z.: Role of Neuropeptide Y (NPY) Y2 receptor in angiogenesis. Poster Presentation at Georgetown University Student Research Day, 2002, Washington, DC
 16. Kitlinska, J., Estes, L., Li, L., **Lee EW**, Movafagh, S., Pons, J., Zukowska, Z.: Dual role of dipeptidyl peptidase IV (DPPIV) in angiogenesis and vascular remodeling. Poster Presentation at International Conference on Dipeptidyl Aminopeptidases, 2002, Berlin, Germany
 17. Li, L., Pons, J., Kitlinska, J., **Lee EW**, Abe, K., Zukowska, Z.: Neuropeptide Y (NPY): a new pro-atherogenic risk factor. Abstract and poster at Days of Molecular Medicine Symposium 2002, San Diego, CA
 18. **Lee EW**, Grant, D., Kitlinska, J., Ji, H., Yoo, P., Sanghart, A., Kalezic I., Ljubisavljevic, M., Zukowska, Z.: Neuropeptide Y: a new neurogenic mechanism for ischemic angiogenesis. Abstract and poster at Days of Molecular Medicine Symposium 2002, San Diego, CA
 19. **Lee EW**: Neuropeptide Y: New angiogenic Factor. Oral presentation at Days of Molecular Medicine Symposium 2002, San Diego, CA
 20. Pons, J., Kitlinska, J., Ji, H., **Lee EW**, Jacques, D., Bkaily, G., Perreault, C., Sader, S., Kurban, G., Abdel-Malak, N., Zukowska, Z.: Neuropeptide Y-mediated vascular smooth muscle cell proliferation: multiple receptors, signaling pathways, and sensitization by beta-adrenergic activation. Poster Presentation at Georgetown University Student Research Day, Feb 2003, Washington, DC
 21. **Lee EW**, Kuo, L., Wang, J.L., Kim, J.W., Zukowska, Z.: Neuropeptide Y (NPY)'s peripheral effects on obesity via nitric oxide (NO) and angiogenesis. ***Faseb Journal***, 17(5), A1261, Part 2, Mar, 2003, San Diego, CA
 22. Li, L., Abe, K., **Lee EW**, Zukowska, Z.: Stress and restenosis after angioplasty: is neuropeptide Y a risk factor? 8th Symposium on Catecholamine and Other Neurotransmitters in Stress, June, 2003, Smolenice Castle, Slovakia
 23. Kuo, L., **Lee EW**, Zukowska, Z.: Neuropeptide Y (NPY) and its regulatory role of adipose tissue growth and angiogenesis: a novel link in the pathogenesis of central obesity. Poster Presentation at Atherosclerosis Gordon Research Conference, June, 2003, Boston, MA
 24. Kuo, L., **Lee EW**, Zukowska, Z.: Angiogenic and growth-promoting actions of neuropeptide Y in

- adipose tissue: a novel link in the pathogenesis of central obesity." *Circulation*, 108 (17), supp 1050, Oct 2003, Orlando, FL
25. Kuo, L., **Lee EW**, Zukowska, Z.: Neuropeptide Y-mediated angiogenesis and central obesity. Poster Presentation at Georgetown University Student Research Day, 2003, Washington, DC
 26. Kuo, L.E., **Lee EW**, Kitlinska, J.B., Fricke, S., Zukowska, Z.: Stress amplifies diet-induced obesity: neuropeptide Y as a peripheral angiogenic and adipogenic growth factor. *Circulation*, 110 (17), III-1-III-1102, Oct, 2004, New Orleans, Louisiana
 27. Kuo, L.E., **Lee EW**, Zukowska, Z.: Neuropeptide Y is a potent paracrine adipose tissue growth and angiogenic factor. Experimental Biology 2004, Translating the Genome, Abstract 9674. Poster Presentation at Experimental Biology 2004, Washington, DC
 28. **Lee EW**, Kitlinska, J.B., Kuo, L.E., Michalkiewicz, M., Kalezic, I., Ljubisavlejevic, M., Zukowska, Z.: Neuropeptide Y (NPY): a neurogenic mediator or angiogenesis. Poster Presentation at 7th International NPY Meeting, Feb, 2004, Coimbra, Portugal
 29. Pons, J., Kitlinska, J., Ji, H., **Lee EW**, Jacques, D., Bkaily, G., Perreault, C., Sader, S., Abdel-Malak, N., Ciborowski, P., Zukowska, Z.: Neuropeptide Y-mediated vascular smooth muscle cell proliferation: multiple receptors, signaling pathways, and interactions with beta-adrenergic receptors. Poster Presentation at 7th International NPY meeting, Feb, 2004, Coimbra, Portugal
 30. Kuo, L.E., **Lee EW**, Karlsson J.M., Zukowska Z.: NPY Feeds Adipose Tissue via Vascularization and Direct Proliferative Effects on Preadipocytes. Poster Presentation at 7th International NPY Meeting, Feb, 2004, Coimbra, Portugal
 31. Kuo, L., **Lee EW**, Zukowska, Z.: Neuropeptide Y feeds adipose tissue via vascularization and direct proliferative effects on pre-adipocytes. Poster Presentation at Georgetown University Student Research Day, Feb, 2004, Washington, DC
 32. Menon, M., **Lee EW**, Barbey-Morel, C., Chahine, A.A.: Thoracoscopic drainage of a mediastinal abscess in a four year old child. Poster Presentation at IPEG's 13th Annual Congress for Endosurgery in Children, May, 2004, Maui, Hawaii
 33. Tilan, J.U., Abe, K., Kuo, L.E., **Lee EW**, Everhart, L., Li, L., Kitlinska, J.B., Fricke, S., Zukowska, Z.: Differential activation of the neuropeptide Y (NPY) receptor system during collateralization and capillary angiogenesis in rat ischemic limb. Poster Presentation at Georgetown University Student Research Day, Feb, 2005, Washington, DC
 34. Kuo, L.E., **Lee EW**, Kitlinska, J.B., Johnson, M.D., Zukowska, Z.: Neuronal cross-talk with endothelial cells and adipocytes leads to angiogenesis and adipogenesis. Experimental Biology 2005, Translating the Genome, Vol. 19, No. 4, p. A71, Abstract 67.10. Poster Presentation at Experimental Biology 2005, San Diego, CA
 35. Tilan, J.U., Karlsson, J., Abe, K., Kuo, L.E., **Lee EW**, Everhart, L., Li, L., Kitlinska, J.B., Fricke, S., Thornell, L-E., Zukowska, Z.: Rapid activation of the neuropeptide (NPY) receptor system during ischemic angiogenesis in rat and human limb muscles. *Faseb Journal*, 19 (5) Part II p. A1663 931.16, March 7, 2005, San Diego, CA
 36. Kartono F., Lanum, D., **Lee EW**: Looking for target signs: MRI features of cerebral toxoplasmosis. *Proceedings of ARMC Research Conference*, Vol. 2, No (1), pg 25, May 7, 2006, Colton, CA
 37. Kartono F., Lanum, D., **Lee EW**: Raising awareness of nephrogenic systemic fibrosis.

- Proceedings of ARMC Research Conference*, Vol. 2, No (1), pg 25, May 7, 2006, Colton, CA
38. **Lee EW**, Raman, S. S., Yu, N. C., Economou, J. S., Lu, D. S. K.: Intraoperative hepatic radiofrequency ablation of metastatic sarcoma. *Proceedings of ARMC Research Conference*, Vol. 1, No (1), pg 13, May 23, 2006, Colton, CA
 39. **Lee EW**, Lanum, D., Kartono, F.: A rare case of malignant granular cell tumor (GCT) of the male breast. *Proceedings of ARMC Research Conference*, Vol. 1, No (1), pg 12, May 23, 2006, Colton, CA
 40. Lawandy, S., Lalezarzadeh, F., Lanum, D., **Lee EW**: Debakey type 1 aortic dissection involving the carotid and iliac arteries. *Proceedings of ARMC Research Conference*, Vol. 1, No (1), pg 12, May 23, 2006, Colton, CA
 41. Kartono, F., Pham, L., Lanum, D., **Lee EW**: Crusted Norwegian scabies in an adult patient with multifocal langerhans cell histiocytosis. *Proceedings of ARMC Research Conference*, Vol. 1, No (1), pg 9, May 23, 2006, Colton, CA
 42. Huang, A., Lanum, D., **Lee EW**: Sacrococcygeal teratoma with functional thyroid tissue in an adult: an unusual presentation of 131I scan negative and thyroglobulin positive evaluation for papillary thyroid cancer. *Proceedings of ARMC Research Conference*, Vol. 1, No (1), pg 8, May 23, 2006, Colton, CA
 43. Kartono, F., Lanum, D., Pham, L., **Lee EW**: A middle aged man with no peripheral pulses: severe arterial thrombosis with protein c/s deficiency. *Proceedings of ARMC Research Conference*, Vol. 1, No (1), pg 9, May 23, 2006, Colton, CA
 44. **Lee EW**, Raman, S. S., Huang, A., Kartono, F., Yu, N.C., Lassman, C., Lu, D.S.K: Imaging guided percutaneous biopsy of hepatocellular carcinoma using co-axial technique in 329 cases: assessment of tumor seeding along the needle track. Oral Presentation, RSNA 2006, Chicago, IL
 45. **Lee EW**, Raman, S. S., Lu, D. S. K., Yu, N. C.: Hepatic metastases: Should local control with thermal ablation techniques be performed? An evidence based review. Educational Exhibit, RSNA 2006, Chicago, IL
 46. **Lee EW**, Masih, S., Freitas, A. D., Modarresi, S.: MRI and CT diagnosis of previously missed occult fractures. Educational Exhibit, ARRS 2007, Orlando, FL
 47. **Lee EW**, Modarresi, S., Masih, S., Freitas, A. D.: MRI and CT evaluation of shoulder pain and weakness caused by nerve compression. Educational Exhibit, ARRS 2007, Orlando, FL
 48. **Lee EW**, Raman, S. S., Yu, N. C., Economou, J. S., Lu, D. S. K.: Intraoperative hepatic radiofrequency ablation of metastatic sarcoma. Scientific Presentation, ARRS 2007, Orlando, FL
 49. **Lee EW**, Ragavendra, N.: How Diagnostic Is the Ultrasound-guided Neck Mass Biopsy?: Evaluation of 132 Neck Mass Biopsy with Pathologic Analysis in 7 Years at a Single Institution Scientific Oral Presentation, RSNA 2007, Chicago, IL
 50. **Lee EW**, Grant, J. D., Kee ST: Is PICC line placement a huge risk for upper extremity deep vein thrombosis?: Evaluation of 6200 PICC lines places in 4 years at a single institution. Scientific Oral Presentation, RSNA 2007, Chicago IL
 51. Lee J., Kadell, B., **Lee EW**: Non-traumatic pneumatosis intestinalis (NTPI), observe or operate? Educational Exhibit, RSNA 2007, Chicago, IL

52. **Lee EW**, Modarresi, S., Masih, S., Freitas, A. D.: Shoulder entrapment syndrome: A comprehensive overview with MRI findings. Educational Exhibit, RSNA 2007, Chicago, IL
53. Grant, J. D., **Lee EW**, Loh CT, Kee ST: Upper extremity deep vein thrombosis (UEDVT): A comprehensive review of UEDVT. Educational Exhibit + CME Exhibit, RSNA 2007, Chicago, IL
54. Kee ST, **Lee EW**,: Theory and practice of irreversible electroporation. Advanced Interventional Management Symposium 2007, New York, NY
55. **Lee EW**, Grant, J. D., Loh CT, Kee ST: Radiographic (MR, CT and US) and pathologic evaluation of irreversible electroporation (IE) in a swine study: a new non-thermal hepatic tumor ablation technique. SIR 2008, Washington, DC
56. **Lee EW**, Loh CT, Gong, G., Spangler, W., Kee ST: Evaluation of long term biocompatibility and safety of PneuSeal in transthoracic needle biopsy in a sheep model. SIR 2008, Washington, DC
57. Sauk, S., **Lee EW**, Loh CT, Hoffman, C. H., Kee ST: Percutaneous retrievals of intracardiac foreign bodies: a case series and meta-analysis. SIR 2008, Washington, DC
58. Jafari, O., Lalezarian, M., Loh CT, **Lee EW**, Kee ST: An overview of IVC thrombosis as a complication of IVC filter placement: a retrospective analysis. SIR 2008, Washington, DC
59. Grant, J. D., **Lee EW**, Hoffman C. H., Loh CT, Kee ST: Upper extremity deep vein thrombosis: a comprehensive radiographic (US, CTV and MRV) and histopathologic review. SIR 2008, Washington, DC
60. **Lee EW**, Sauk, S., Suh, R. D.: How much do the resident variances cost?: a comprehensive variance outcome analysis from a single institute over 6 years. ARRS 2008, Washington, DC
61. Grant, J. D., **Lee EW**, Loh CT, Kee ST: Upper extremity deep vein thrombosis (UEDVT): A comprehensive review of UEDVT. ARRS 2008, Washington, DC
62. **Lee EW**, Ragavendra, N.: Diagnostic value of ultrasound guided neck mass biopsy using French technique. ARRS 2008, Washington, DC
63. **Lee EW**, Kee ST, Loh CT, Prieto, V., Grant, J. D.: Irreversible Electroporation (IE): A non-thermal tumor ablation technique resulting in apoptotic cell death. WCIO 2008, Los Angeles, CA
64. Kee ST, **Lee EW**, Loh CT, Gong, G., Cham, M., Yankelevitz, D. F.: Evaluation of long term safety of a novel sealant to prevent pneumothorax in transthoracic needle biopsy. European Respiratory Society Annual Meeting 2008, Berlin, Germany
65. Kee ST, **Lee EW**, Loh CT, Gong, G., Cham, M., Yankelevitz, D. F.: Characteristics of an ideal sealant to reduce pneumothorax following lung biopsy: evaluation of a newly developed material. European Respiratory Society Annual Meeting 2008, Berlin, Germany
66. **Lee EW**, Kee ST, Loh CT, Prieto, V., Grant, J. D.: A novel non-thermal tumor ablation: irreversible Electroporation (IE) in a swine liver. CIRSE 2008, Copenhagen, Denmark
67. Novak, S. H., **Lee EW**, Kee ST: Peripheral arterial occlusive disease in UCLA patients: Radiologic diagnosis and treatment. Annual UCLA School of Medicine Josiah Brown Poster Fair 2008, Los Angeles, CA
68. Nguyen, T. B., **Lee EW**, Loh CT, Kee ST: Comprehensive outcome analysis of IVC filter placement in a single institution over 5 years. Annual UCLA School of Medicine Josiah Brown Poster Fair

2008, Los Angeles, CA

69. Davey, M., Choi, D. Y., **Lee EW**, Kee ST: Physiological determinants of post-transjugular intrahepatic portosystemic shunt prognosis and likelihood of liver transplant. Annual UCLA School of Medicine Josiah Brown Poster Fair 2008, Los Angeles, CA
70. Choi, D. Y., Davey, M., **Lee EW**, Douek, M., Kee ST: Etiology of cirrhosis as a determinant of transjugular inrahepatic portosystemic shunt (TIPS) prognosis. Annual UCLA School of Medicine Josiah Brown Poster Fair 2008, Los Angeles, CA
71. Grant, J. D., **Lee EW**, Lee J. S., Loh CT, Kee ST: Interventional Oncology 101: a comprehensive review of the armamentariums of interventional oncology. ARRS 2009, Boston, MA
72. Lee J. S., Chen, C., Suh, R. D., Kadell, B., **Lee EW**: Oh No! Did I miss that? On-call acute appendicitis. ARRS 2009, Boston, MA
73. Chen, C., **Lee EW**, Hoffman, C. H., Loh CT, Kee ST: Radiographic findings (MR, CT, angiography) of vertebral tumor embolization. ARRS 2009, Boston, MA
74. **Lee EW**, Chen, C., Choi, D., Douek, M., Loh CT, Kee ST: TIPS for you: a comprehensive review of the anatomical and pathological variants seen in transjugular intrahepatic portosystemic shunt (TIPS) placement. ARRS 2009, Boston, MA
75. Ornelas, J., **Lee EW**, Loh CT, Kee S. T: Paget-Schroetter Syndrome (PSS): continuous dilemma in decision for treatment. SIR 2009, San Diego, CA
76. Ornelas, J., **Lee EW**, Loh CT, Kee S. T: Inferior Vena Cava Filter (IVCF) – who, what when, how and why?: clinical and radiological overview of IVCF placement. SIR 2009, San Diego, CA
77. Ornelas, J., **Lee EW**, Nguyen, T. B., Loh CT, Kee S. T: Comprehensive outcome analysis of inferior vena cava (IVC) filter placement in a single institution over 5 years. SIR 2009, San Diego, CA
78. Novak, S. H., **Lee EW** Lee J. S., Loh CT, Kee ST: What you need to know about peripheral arterial occlusive diseases (PAOD): an updated comprehensive review of the anatomy, radiological diagnosis and treatment. SIR 2009, San Diego, CA
79. Chen, C., **Lee EW**, Hoffman, C. H., Loh CT, Kee S. T: Radiographic findings (MR, CT, angiography) of vertebral tumor embolization. SIR 2009, San Diego, CA
80. Chen, C., **Lee EW**, Loh CT, Kee S. T: Power-injectable port (PIP) versus traditional portacath (TP): a retrospective evaluation of the complications and effectiveness of implantable venous access devices (IVAD). SIR 2009, San Diego, CA
81. Grant, J. D., **Lee EW**, Loh CT, Kee ST: Interventional Oncology 101: a comprehensive review of the armamentariums of interventional oncology (liver tumors). SIR 2009, San Diego, CA
82. Lee J. S., **Lee EW**, McNamara, T. O.: A shifting paradigm in superior vena cava syndrome (SVCS): a retrospective evaluation of SVCS in 7 years at a single institution. SIR 2009, San Diego, CA
83. Gudmundsson, M. T., Manuyakorn, A., **Lee EW**, Kee ST, Wong, J., Finn, R., Lassman, C., Loh CT: Histopathologic and radiologic comparison of hepatocellular carcinoma treated with transarterial chemoembolization (TACE) with ethiodol and TACE with drug eluting beads. SIR 2009, San Diego, CA
84. **Lee EW**, Chen, C., Grant, J. D., Loh CT, Kee S. T: Effectiveness of preoperative embolization of

- osseous tumors (PEOT) using microspheres versus non-microspheres in reducing intraoperative blood loss: a retrospective evaluation of PEOT in 3 years at a single institution. SIR 2009, San Diego, CA
85. **Lee EW**Chen, C., Choi, D., Douek, M., Loh CT, Kee ST: TIPS for you: a comprehensive review of the anatomical and pathological variants seen in transjugular intrahepatic portosystemic shunt (TIPS) placement. SIR 2009, San Diego, CA
 86. **Lee EW**, Prieto, V., Dry, S., Chen, C., Ornelas, J., Loh CT, Kee S. T: Irreversible electroporation (Nanoknife) in treatment of rabbit VX2 liver tumor: preliminary data. SIR 2009, San Diego, CA
 87. Le, S. D., **Lee EW**, Yu, N. C., Gomes, A. S., Loh, ST, Kee ST: Interventional Radiology and the Liver Transplant Patient: A Study of Interventional Radiology's Role in Post-Transplant Complication At UCLA. Annual UCLA School of Medicine Josiah Brown Poster Fair 2009, Los Angeles, CA
 88. Poon, K., **Lee EW**, Kee ST, Hoffman, C. H.: Uterine fibroid embolization at UCLA: A comprehensive review of UFE cases. Annual UCLA School of Medicine Josiah Brown Poster Fair 2009, Los Angeles, CA
 89. Totonchy M. B., **Lee EW**, Prieto, V., Wong, D., Dry, S., Loh CT, Kee. ST: Irreversible electroporation in the treatment of rabbit VX2 liver tumor. Annual UCLA School of Medicine Josiah Brown Poster Fair 2009, Los Angeles, CA
 90. **Lee EW**, Prieto, V., Dry, S., Liu DM, Loh CT, Kee S. T: Irreversible electroporation: a novel non-thermal tumor ablation technique (investigation in VX2 liver tumor model). CIRSE 2009, Lisbon, Portugal
 91. Chen, C., **Lee EW**, Hoffman, C. H., Loh CT, Liu DM, Kee ST: Evidence-based comprehensive review on vertebral intervention with radiographic findings (NM, MR, CT and angiography). CIRSE 2009, Lisbon, Portugal
 92. McWilliams, J. P., **Lee EW**, Kee ST, Loh CT, Liu DM: Distal protection of the gallbladder through embolization of the cystic artery prior to radioembolization: technical feasibility and safety. CIRSE 2009, Lisbon, Portugal
 93. Liu DM, Kee ST, **Lee EW**, Loh CT, Munk, P. L., McWilliams, J. P., Ho, S., Wasan, E.: Optimal method of doxorubicin loading and elution in superabsorbent polymer microspheres: in vitro analysis. CIRSE 2009, Lisbon, Portugal
 94. **Lee EW** Choi, D., Grant, J. D., Loh CT, Kee ST: TIPS for you: three dimensional analysis and a comprehensive review of the anatomical and pathological variants seen in Transjugular Intrahepatic Portosystemic Shunt (TIPS) placement. RSNA 2009, Chicago, IL
 95. Jourabchi, N., **Lee EW**, Grant, J. D., Lee J. S., Abtin, F. G., Suh, R. D.: What on-call radiologists should be aware of: missed occult findings in on-call chest radiographs. RSNA 2009, Chicago, IL
 96. **Lee EW**, Lance, V., Gomes, A. S., Douek, M., Loh CT, Choi, D., Kee ST: What pre-TIPS factors determine post-TIPS and transplant prognosis? RSNA 2009, Chicago, IL
 97. **Lee EW**, Moriarty, J., Wong D., Prieto, V., Totonchy, M., Loh CT, Kee ST: Irreversible electroporation (IRE) vs. Radiofrequency ablation (RFA) in treating rabbit VX2 liver tumors: Preliminary Data. GEST 2010, San Francisco, CA

98. **Lee EW**, Prieto, V., Wong, D., Germain, M., Lance V., Loh CT, Kee ST: Irreversible electroporation (IRE) in eradicating rabbit VX2 liver tumor. SIR 2010, Tampa, FL
99. Chiou, M., **Lee EW**, McWilliams, J. D., Wong, D., Loh CT, Kee ST: Interventional radiologists (IR) in Trauma Center: diagnostic imaging to interventional procedures. SIR 2010, Tampa, FL
100. Ma, C., **Lee EW**, Gomes, A. S., Loh CT, Hoffman, C. H., Kee ST: Saga of inferior vena cava filter (IVCF): the short-term and long-term complications in 724 IVCFs. SIR 2010, Tampa, FL
101. Hockett, M. M., **Lee EW**, Gomes, A. S., Loh CT, McWilliams, J. D., Kee ST: Transjugular liver biopsy: anatomic variants and complications. ARRS 2010, San Diego, CA
102. Lance, V., **Lee EW**, Kee. ST: Pictorial review of gastric cancer with rad-path correlation. ARRS 2010, San Diego, CA
103. Poon, K., **Lee EW**, Kee ST, Hoffman, C. H., Gomes, A. S.: Uterine fibroid embolization: a review of the radiological diagnosis, anatomy and treatment of leiomyoma. ARRS 2010, San Diego, CA
104. Chiou, M., **Lee EW**, McWilliams, J. D., Wong, D., Loh CT, Kee ST: Pelvic Trauma: Diagnostic Imaging to Interventional Procedures. ARRS 2010, San Diego, CA
105. **Lee EW**, McWilliams, J., Liu DM, Loh CT, Wong, D., Kee ST: Difficult TIPS (transjugular intrahepatic portosystemic shunt) - To do, or Not To Do: That is the question. SIR 2011, Chicago, IL
106. Wong, D., **Lee EW**, Prieto, V., Tran, C., Loh CT, Kee ST: Evaluating the Effects of IRE on VX2 Rabbit Head and Neck Tumor Model: A Preliminary results. SIR 2011, Chicago, IL
107. Jourabchi, N., **Lee EW**, Wong, D., Dry, S., Tran, C., Loh CT, Kee ST: Bio-equivalency of ECG-synchronized irreversible electroporation (esIRE) and non-synchronized IRE (nsIRE) ablation in a porcine animal model. SIR 2011, Chicago, IL
108. Wong, D., **Lee EW**, Prieto, V., Tran, C., Loh CT, Kee ST: Developing a VX2 Rabbit Head and Neck Tumor Model. SIR 2011, Chicago, IL
109. Jourabchi, N., **Lee EW**, Gomes, A. S., Loh CT, Liu DM, McWilliams, J., Kee ST: Updated Pharmacopeia for Interventional Radiology. SIR 2011, Chicago, IL
110. Wong, D., **Lee EW**, Prieto, V., Tran, C., Loh CT, Kee ST: Evaluating the Effects of IRE on VX2 Rabbit Head and Neck Tumor Model: A Preliminary results. SIR 2011, Chicago, IL
111. **Lee EW**, McWilliams, J., Liu DM, Loh CT, Wong, D., Kee ST: Difficult TIPS (transjugular intrahepatic portosystemic shunt) - To do, or Not To Do: That is the question. SIR 2011, Chicago, IL
112. **Lee EW**, Wong, D., Perez, A., Prikhodko, S., Tran, C., Loh CT, Kee ST: Electron Microscopic (EM) Demonstration and Evaluation of Irreversible Electroporation (IRE)-induced Nanopores on Hepatocyte Membranes: a preliminary data. SIR 2011, Chicago, IL
113. Ma, C., **Lee EW**, Kee ST, Gomes, A. S., Mcwilliams, J. P., Moriarty, J., Loh CT: Retrievable IVC Filters: Long-Term Safety in 480 Devices. SIR 2012, San Francisco, CA
114. Tafti, B, **Lee EW**, Loh CT, McWilliams J. P., Chung, Y. S., Prikhodko, S. V., Kee ST: Spatial and temporal consistency of nanopores created by IRE – SEM Evaluation. SIR 2012, San Francisco, CA

115. **Lee EW**, Gwon, D. I., Durazo, F., Saab, S., Loh CT, McWilliams, J. P., Tafti, B., Kee ST: Plug-Assisted Retrograde Transvenous Obliteration (PARTO): Initial experience at UCLA. SGI 2012, Seoul, Korea
116. **Lee EW**, Moriarty, J., Loh CT, McWilliams, J. P., Tafti, B., Kee ST: Minimally invasive CT-guided creation of mesocaval shunt. SGI 2012, Seoul, Korea
117. Al-Tariq, Q., Loh CT, **Lee EW**: Hemodialysis and the interventional radiology: assessing our role in assisted patency of AV fistula and loop grafts. RSNA 2012, Chicago, IL
118. Park, J., **Lee EW**: Meta-analysis of balloon-occluded retrograde transvenous obliteration (BRTO) of gastric varices. SIR 2013, New Orleans, LO
119. Lee A. J., Park, J., **Lee EW**: Double dragons (Kumpe) technique for gastrostomy to gastrojejunostomy conversion: A novel approach. SIR 2013, New Orleans, LO
120. **Lee EW**, Gomes, A. S., Loh CT, Moriarty, J., McWilliams, J. P., Cho, S. K., Gwon, D. I., Kee ST: Plug-assisted retrograde transvenous obliteration (PARTO): Preliminary U.S. experience. SIR 2013, New Orleans, LO
121. Park, J. K., Cho, S. K., Kee ST, **Lee EW**: The interventionalist's guide to the BRTO galaxy: How-to guide and overview of variant procedures. RSNA 2013, Chicago, I
122. **Lee EW**, McWilliams, J. P., Tafti, B., Kee ST: Is FISH a better closure device? Data from a pre-clinical trial. SIR 2014, San Diego, CA
123. **Lee EW**, Kee ST, McWilliams, J. P., Gomes, A. S., Durazo, F., Saab, S., Goldstein, L, Busuttil, R. W.: Modified-BRTO (Balloon-occluded retrograde transvenous obliteration) for the treatment of portal hypertensive variceal bleeding. SIR 2014, San Diego, CA
124. **Lee EW**, Tafti, B., McWilliams, J. P., Peterson, S., Kee ST: iGuide TIPS: an enhanced real-time 3D image guided TIPS – Preliminary results. SIR 2014, San Diego, CA
125. Al-Hakim, R., Kee ST, Olinger, K., **Lee EW**, Moriarty, J., McWilliams, J. P.: Effectiveness and complications of routine and advanced inferior vena cava filter retrieval techniques. SIR 2014, San Diego, CA
126. Park, J., Loh CT, Demanes, J., Kamrava, M., Kee ST, **Lee EW**: High dose rate (HDR) image-guided brachytherapy (IGBT): an introduction and pictorial review. SIR 2014, San Diego, CA
127. Bansal A., Kee ST, McWilliams, J. P., **Lee EW**: An overview of ultrasound-guided transnodal lymphangiography with percutaneous thoracic duct embolization. SIR 2014, San Diego, CA
128. Seal KF, Kee ST, **Lee EW**: Radiation Cataractogenesis in Interventional Radiology: A Review for the Interventional Physician. RSNA 2014, Chicago, IL
129. Nguyen Q, Park J, Kee ST, McWilliams J, **Lee EW**: The interventionalist's guide to BRTO and modified BRTO (MBRTO): a pictorial review. SIR 2015, Atlanta, GA
130. Tesoriero JA, Kee ST, McWilliams J, Gomes AS, **Lee EW**: Proximal versus distal splenic artery embolization prior to splenectomy for hypersplenism. SIR 2015, Atlanta, GA
131. Park J, **Lee EW**, Gomes AS, McWilliams J, Kee ST: Seeing into the future: what is the predictive value of portal vein pressure and porto-systemic gradient in determining post-TIPS and transplant

prognosis. SIR 2015, Atlanta, GA

132. Tseng J, **Lee EW**, McWilliams J, Gomes AS, Moriarty J, Kee ST: Empiric gastroduodenal and left gastric artery embolization in the management of patients with active upper gastrointestinal hemorrhage. SIR 2015, Atlanta, GA
133. Tafti BA, **Lee EW**, Peterson S, Kee ST: iGuide IVC filter placement: a real-time 3D image-guided IVC filter placement without contrast injection – preliminary results. SIR 2015, Atlanta, GA
134. **Lee EW**, Saab S, Cho SK, Busuttill RW, McWilliams J, Durazo F, Han SH, Gomes AS, Kee ST: CARTO (coil-assisted retrograde transvenous obliteration) for the treatment of hepatic encephalopathy. SIR 2015, Atlanta, GA
135. Al-Hakim RA, **Lee EW**, Kee ST, Seals K, Varghese B, McWilliams JP. Development of a method for ex vivo lumen surface modeling of stented peripheral arteries for computational hemodynamic analysis of covered and non-covered nitinol stents. SIR 2016, Vancouver, BC, Canada
136. Kuei A, **Lee EW**, Saab S, Busuttill RW, Park JP, McWilliams JP, Kee ST. Post-TIPS hepatic encephalopathy: Does stent size really matter? SIR 2016, Vancouver, BC, Canada
137. Tafti BA, **Lee EW**, Moriarty J, Tabsh K, Alanis L, McWilliams JP, Park JP, Kee ST. Intra-Operative Aortic Balloon Occlusion (IOABO) – a safe and effective treatment option for postpartum hemorrhage in placenta praeceta. SIR 2016, Vancouver, BC, Canada
138. Kuei A, **Lee EW**, Saab S, Busuttill RW, Park JP, McWilliams JP, Kee ST. Inpatient cost assessment of Transjugular Intrahepatic Portosystemic Shunt (TIPS) in the United States from 2001 to 2012. SIR 2016, Vancouver, BC, Canada
139. Sue M, **Lee EW**, McWilliams JP, Gomes AS, Moriarty J, Genshaft S, Park JP, Kuo M, Kee ST. Transjugular liver biopsy – safer than ever. SIR 2016, Vancouver, BC, Canada
140. Fletcher S, **Lee EW**, Saab S, Busuttill RW, McWilliams JP, Gomes AS, Park JP, Kee ST. Size matters: a correlation of TIPS outcome and the size of liver. SIR 2016, Vancouver, BC, Canada
141. Park JP, **Lee EW**, Saab S, Kuei A, Kee ST. Yttrium-90 selective internal radiation therapy (SIRT) for the treatment of non-conventional liver tumors: An overview. SIR 2016, Vancouver, BC, Canada
142. Ni J, Park JP, **Lee EW**, Chen AS, Lee HY, Walsworth MK. Retrograde popliteal arterial access for recanalization of lower extremity chronic total occlusion. SIR 2016, Vancouver, BC, Canada
143. Suthar M, Mahjoubfar A, Seals K, **Lee EW**: Diagnostic tool for pneumothorax. 2016 IEEE Photonics Society Summer Meeting.
144. Tafti BA, Kee S, **Lee EW**: Prevention of contrast-induced nephropathy through selective inhibition of protein kinase C delta, SIR 2017, Washington DC, USA

145. Seals K, Dubin B, Leonards L, **Lee EW**, McWilliams JP, Kee S, Suh R: Utilization of deep learning techniques to assist clinicians in diagnostic and interventional radiology: Development of a virtual radiology assistant, SIR 2017, Washington DC, USA