

ANDREW R. HSU, M.D.

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PROFESSIONAL TRAINING

- 07/2009 – 06/2010 **Rush University Medical Center**, Chicago, IL 60612
Intern in General Surgery
- 07/2010 – 06/2014 **Rush University Medical Center**, Chicago, IL 60612
Resident in Orthopaedic Surgery
- 08/2014 – 07/2015 **OrthoCarolina Foot & Ankle Institute**, Charlotte, NC 28207
Fellow in Foot & Ankle Surgery
- 10/2015 – Present **University of California-Irvine**, Orange, CA 92868
Chief, Division of Foot & Ankle Surgery
Board Certified, Diplomate of the ABOS
Assistant Clinical Professor of Orthopaedic Surgery (Step IV)



EDUCATION

- 09/1995 – 06/1999 **Phillips Academy Andover**, Andover, MA 01810
Graduated Cum Laude, Honor Roll all quarters
- 09/1999 – 06/2003 **Stanford University**, Palo Alto, CA 94305
Bachelor of Science, Major: Biology, with Honors
- 08/2005 – 06/2009 **Stanford University School of Medicine**, Palo Alto, CA 94305
Doctor of Medicine

RESEARCH EXPERIENCE

- 08/2003 – 07/2005 **Palo Alto Veterans Affairs Hospital – Clinical Studies Unit**
- Effects of lowering core temperature on aerobic training and endurance performance and the effects of Sildenafil on sea level and high altitude activity (Biology, Applied Physiology).
- 08/2005 – 06/2009 **Stanford University School of Medicine – Departments of Orthopaedic Surgery, Radiology, Neurosurgery**
- Clinical: Outcome measures for surgical treatment of pediatric femoral shaft fractures and neurodegenerative spinal disorders with Dr. Lawrence Rinsky.
 - Basic Science: Multimodality molecular imaging and therapy of tumor-induced angiogenesis in a glioblastoma multiforme brain tumor mouse model (Radiology, Neurosurgery).
- 07/2009 – 06/2014 **Rush University Medical Center – Department of Orthopaedic Surgery**
- Outcomes of Achilles tendinopathy treatment with ultrasound stimulation and hallux valgus management with a suture-button device with Dr. George Holmes.
 - Effects of total joint arthroplasty on serum metal ion levels and complications with pseudotumor formation with Drs. Joshua Jacobs and Brett Levine.
- 09/2013 – 08/2015 **Illinois Bone and Joint Institute, LLC – Division of Foot & Ankle Surgery**
- Outcomes of intramedullary referencing total ankle arthroplasty, revision total ankle arthroplasty, compression wrap dressings for ankle and hindfoot procedures, and surgeon training for total ankle arthroplasty with Dr. Steven Haddad.
- 08/2014 – 08/2015 **OrthoCarolina Foot & Ankle Institute – Department of Orthopaedic Surgery**
- Outcomes of limited incision Achilles repair and calcaneus fracture fixation, patient-specific total ankle arthroplasty, and advances in surgical management of sports foot and ankle injuries with Drs. Robert Anderson, W. Hodges Davis, and Bruce Cohen.

10/2015 – Present

University of California-Irvine – Department of Orthopaedic Surgery

- Investigation of advanced surgical techniques and their outcomes to improve recovery and function after surgical reconstruction of the foot and ankle.

PUBLICATIONS: PEER REVIEWED

1. **Hsu AR**, Hagobian TA, Jacobs KA, Attallah H, and Friedlander AL. Effects of Heat Removal Through the Hand on Metabolism and Performance During Cycling Exercise in the Heat. *Canadian Journal of Applied Physiology* 30(1): 87-104, 2005.
2. Hou LC, Veeravagu A, **Hsu AR**, and Tse V. Recurrent Glioblastoma Multiforme: A Review of Natural History and Management Options. *Neurosurgical Focus* 20(4):E5 1-9, 2006.
3. **Hsu AR**, Barnholt KE, Grundmann NK, Lin JH, McCallum SW, and Friedlander AL. Sildenafil Improves Cardiac Output and Exercise Performance During Acute Hypoxia, but not Normoxia. *Journal of Applied Physiology* 100(6): 2031-2040, 2006.
4. **Hsu AR**, Hou LC, Veeravagu A, Greve JM, Vogel H, Tse V, and Chen X. *In Vivo* Near-Infrared Fluorescence Imaging of Integrin $\alpha_v\beta_3$ in an Orthotopic Glioblastoma Model. *Molecular Imaging and Biology* 8(6):315-323, 2006.
5. Holloway L, Moynihan S, Abrams SA, Kent K, **Hsu AR**, and Friedlander AL. Effects of Oligofructose-Enriched Insulin on Intestinal Absorption of Calcium and Magnesium and Bone Turnover Markers in Postmenopausal Women. *British Journal of Nutrition* 97(2): 365-72, 2007.
6. Hou LC, Veeravagu A, **Hsu AR**, Enns GM, and Huhn SL. Glutaric Acidemia Type I: A Neurosurgical Perspective. Report of Two Cases. *Journal of Neurosurgery* 107(2):167-172, 2007.
7. Veeravagu A, **Hsu AR**, Cai W, Hou LC, Tse V, and Chen X. Vascular Endothelial Growth Factor and Vascular Endothelial Growth Factor Receptor Inhibitors as Anti-Angiogenic Agents in Cancer Therapy. *Recent Patents on Anti-Cancer Drug Discovery* 2(1):59-71, 2007.
8. Hou LC, **Hsu AR**, Veeravagu A, and Boakye M. Spinal Gout in a Renal Transplant Patient: A Case Report and Literature Review. *Surgical Neurology* 67(1):65-73, 2007.
9. Cai W, **Hsu AR**, Li Z, and Chen X. Are Quantum Dots Ready for *In Vivo* Imaging in Human Subjects? *Nanoscale Research Letters* 2(6):265-281, 2007.
10. **Hsu AR**, Veeravagu A, Cai W, Hou LC, Tse V, and Chen X. Integrin $\alpha_v\beta_3$ Antagonists for Anti-Angiogenic Cancer Treatment. *Recent Patents on Anti-Cancer Drug Discovery* 2(2):143-158, 2007.
11. **Hsu AR**, Cai W, Veeravagu A, Mohamedali KA, Chen K, Kim S, Vogel H, Hou LC, Rosenblum M, and Chen X. Multimodality Molecular Imaging of Glioblastoma Growth Inhibition with Vascular-Targeting Fusion Toxin VEGF₁₂₁/rGel. *Journal of Nuclear Medicine* 48(3):445-454, 2007.
12. Veeravagu A, Liu Z, Niu G, Chen K, Jia B, Cai W, Jin C, **Hsu AR**, Connolly AJ, Tse V, Wang F, and Chen X. Integrin $\alpha_v\beta_3$ -Targeted Radioimmunotherapy of Glioblastoma Multiforme. *Clinical Cancer Research* 14(22):7330-7339, 2008.
13. Xie J, Chen K, Lee HY, Xu C, **Hsu AR**, Peng S, Chen X, and Sun S. UltraSmall c(RGDyK)-coated Fe₃O₄ Nanoparticles and Their Specific Targeting to Integrin $\alpha_v\beta_3$ -rich Tumor Cells. *Journal of the American Chemical Society* 130(24):7542-7543, 2008.
14. Lee HY, Li Z, Chen K, **Hsu AR**, Xu C, Xie J, Sun S, and Chen X. PET/MRI Dual-Modality Tumor Imaging Using Arginine-Glycine-Aspartic (RGD)-Conjugated Radiolabeled Iron Oxide Nanoparticles. *Journal of Nuclear Medicine* 49(8):1371-1379, 2008.
15. Veeravagu A, Hou LC, **Hsu AR**, Cai W, Greve JM, Chen X, and Tse V. The Temporal Correlation of Dynamic Contrast-Enhanced Magnetic Resonance Imaging with Tumor Angiogenesis in a Murine Glioblastoma Model.

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Neurological Research 30(9):952-959, 2008.

16. **Hsu AR** and Chen X. Advances in Anatomical, Functional, and Molecular Imaging of Angiogenesis. *Journal of Nuclear Medicine* 49(4):511-514, 2008.
17. Cai W, Guzman R, **Hsu AR**, Wang H, Chen K, Sun G, Gera A, Choi R, Bliss T, He L, Li ZB, Maag AL, Hori N, Zhao H, Moseley M, Steinberg GK, and Chen X. Positron Emission Tomography Imaging of Poststroke Angiogenesis. *Stroke* 40(1):270-277, 2009.
18. **Hsu AR**, Hou LC, Veeravagu A, Barnes PD, and Huhn SL. Resolution of Syringomyelia After Release of Tethered Cord. *Surgical Neurology* 72(6):657-661, 2009.
19. **Hsu AR**, Diaz HM, Penaranda RP, Cui HD, Evangelista RHA, Rinsky LA, and Gracilla RV. Dynamic Skeletal Traction Spica Casts for Paediatric Femoral Fractures in a Resource-Limited Setting. *International Orthopaedics* 33(3):765-771, 2009.
20. **Hsu AR**, Vaughn Z, and Huddleston JI. Early Catastrophic Failure of a Porous-Coated Acetabular Cup due to Bead Shedding. A Case Report. *Hip International* 19(4):392-395, 2009.
21. Haus BM, **Hsu AR**, Yim ES, Rinsky LA, and Meter JJ. Long-Term Follow-up of the Surgical Management of Neuropathic Arthropathy of the Spine. *The Spine Journal* 10(6):e6-16, 2010.
22. Ellman MB, Gregory JM, Bhatia S, **Hsu AR**, Ghodadra N, and Romeo AA. An Evidence-Based Review of the Etiology, Classification, Diagnosis, and Treatment of Rotator Cuff Tears. *Minerva Ortopedica e Traumatologica* 62(2):89-108, 2011.
23. **Hsu AR**, Ghodadra NS, Provencher MT, Lewis P, and Bach BR. Biceps Tenotomy Versus Tenodesis: A Review of Clinical Outcomes and Biomechanical Results. *Journal of Shoulder and Elbow Surgery* 20(2):326-332, 2011.
24. **Hsu AR** and Hsu PA. Unusual Case of Isolated Lunate Fracture Without Ligamentous Injury. *Orthopedics*, 34(11):e785-789, 2011.
25. **Hsu AR**, Kim JD, Fabi D, and Levine BR. Adverse Reactions in Metal-on-Metal Total Hip Arthroplasty: Two Cases Presenting as Pseudo-septic Acetabular Component Loosening. *The American Journal of Orthopaedics* 40(10):509-513, 2011.
26. Bhatia S, **Hsu AR**, Lin EC, Chalmers PN, Ellman M, Cole BJ, and Verma NN. Surgical Treatment Options for the Young and Active Middle-Aged Patient with Glenohumeral Arthritis. *Advances in Orthopaedics*, 2012:846843, 2012.
27. Bhatia S, **Hsu AR**, Harwood D, Toleikis JR, Mather RC, and Romeo AA. The Value of Somatosensory Evoked Potential Monitoring During Scapulothoracic Arthrodesis: Case Report and Review of Literature. *Journal of Shoulder and Elbow Surgery* 21(7):e14-18, 2012.
28. **Hsu AR**, Bhatia S, Kang RW, Arvanitis L, Nicholson G, and Virkus WW. Extranodal Rosai-Dorfman Disease Presenting as an Isolated Glenoid Lesion in a High School Athlete. *Journal of Shoulder and Elbow Surgery* 21(1):e6-11, 2012.
29. **Hsu AR**, Kim JD, Bhatia S, and Levine BL. Effect of Training Level on Accuracy of Digital Templating in Primary Total Hip and Knee Arthroplasty. *Orthopedics* 35(2):e179-183, 2012.
30. **Hsu AR**, Gross CE, and Levine BR. Pseudotumor from Modular Neck Corrosion after Ceramic-on-Polyethylene Total Hip Arthroplasty. *The American Journal of Orthopaedics* 41(9):422-426, 2012.
31. **Hsu AR**. Cost-Effective Solutions to Prevent Orthopedic Infections. *The American Journal of Orthopaedics* 41(5):E76-77, 2012.
32. **Hsu AR** and Hsu JW. Topical Review: Skin Infections in the Foot and Ankle Patient. *Foot and Ankle International*

33(7):612-619, 2012.

33. **Hsu AR**. Topical Review: Barefoot Running. *Foot and Ankle International* 33(9):787-794, 2012.
34. **Hsu AR**, Gross CE, Bhatia S, and Levine BR. Template-Directed Instrumentation in Total Knee Arthroplasty: Cost Savings Analysis. *Orthopedics* 35(11):e1596-1600, 2012.
35. **Hsu AR**, Gross CE, and Lin JL. Bilateral Hallux Varus Deformity Correction with a Suture Button Construct. *The American Journal of Orthopedics* 42(3):121-124, 2013.
36. Levine BR, **Hsu AR**, Skipor AK, Hallab NJ, Paprosky WG, Galante JO, and Jacobs JJ. Ten-Year Outcome of Serum Metal Ion Levels after Primary Total Hip Arthroplasty. A Concise Follow-up of a Previous Report*. *Journal of Bone and Joint Surgery Am* 95(6):512-518, 2013.
37. Holmes GB and **Hsu AR**. Correction of Intermetatarsal Angle in Hallux Valgus Using Small Suture Button Device. *Foot and Ankle International* 34(4):543-549, 2013.
38. Gross CE, **Hsu AR**, Chahal J, and Holmes GB. Injectable Treatments for Achilles Tendinosis: A Systematic Review. *Foot and Ankle International* 34(5):619-628, 2013.
39. **Hsu AR**, Gross CE, and Lee S. Intraoperative O-arm Computed Tomography Evaluation of Syndesmotic Reduction: Case Report. *Foot and Ankle International* 34(5):753-759, 2013.
40. Bhatia S, Mather RC, **Hsu AR**, Ferry AT, Romeo AA, Nicholson GP, Cole BJ, and Verma NN. Arthroscopic Management of Recalcitrant Stiffness Following Rotator Cuff Repair: A Retrospective Analysis. *Indian Journal of Orthopaedics* 47(2):143-149, 2013.
41. Hsu PA, **Hsu AR**, Sutter EG, Levitz S, Rose DM, Segalman K, and Lee SK. Effect of Anterior vs. Posterior In Situ Decompression on Ulnar Nerve Subluxation. *The American Journal of Orthopaedics* 42(6):262-266, 2013.
42. Gross CE, **Hsu AR**, Lin JL, Holmes GB, and Lee S. Revision MTP Arthrodesis for Failed MTP Arthroplasty. *Foot and Ankle Specialist* 6(6):471-478, 2013.
43. **Hsu AR**, Levine BR, Skipor AK, Hallab NJ, Paprosky WG, and Jacobs JJ. Effect of a Second Joint Replacement on Metal Ion Levels after Primary Total Hip Arthroplasty. *The American Journal of Orthopedics* 42(10):E84-87, 2013.
44. Frank RM, **Hsu AR**, Gross CE, Walton DM, and Lee S. Open and Arthroscopic Surgical Anatomy of the Ankle. *Anatomy Research International*, ID: 182650, Epub Oct 29, 2013.
45. **Hsu AR**. Comment on "Multimodal Analgesia Therapy Reduces Length of Hospitalization in Patients Undergoing Fusions of the Ankle and Hindfoot." *Foot and Ankle International* 34(12):1747, 2013.
46. **Hsu AR**, Gross CE, Lee S, and Carreira D. Extended Indications for Foot and Ankle Arthroscopy. *Journal of the American Academy of Orthopaedic Surgeons* 22(1):10-19, 2014.
47. Bhatia S, Frank RM, Ghodadra NS, **Hsu AR**, Romeo AA, Bach BR, Boileau P, and Provencher MT. The Outcomes and Surgical Techniques of the Latarjet Procedure: A Systematic Review. *Arthroscopy* 30(2):227-235, 2014.
48. **Hsu AR**, Coetzee JC, Haddad SL, and Berlet GC. Effects of Total Ankle Arthroplasty Training Course on Physician Practice Patterns and Complication Rates. *Foot and Ankle Specialist* 7(3):193-198, 2014.
49. **Hsu AR** and Haddad SL. Will Total Ankle Arthroplasty Become the New Standard for End-Stage Ankle Arthritis? *Orthopedics* 37(4):221-223, 2014.
50. **Hsu AR**, Franceschina D, and Haddad SL. A Novel Method of Postoperative Wound Care Following Total Ankle Arthroplasty. *Foot and Ankle International* 35(7):719-724, 2014.

51. **Hsu AR**. Rethinking How We Use Surgical Antibiotics. *The American Journal of Orthopedics* 43(5):E105-E106, 2014.
52. Haddad SL, **Hsu AR**, Templin CR, Ren Y, Stewart B, Kohli NS, and Zhang L. Effects of Continuous Irrigation During Burring on Thermal Necrosis and Fusion Strength in a Rabbit Arthrodesis Model. *Foot and Ankle International* 35(8):796-801, 2014.
53. Cvetanovich GL, **Hsu AR**, Frank RM, An HS, and Andersson GB. Spontaneous Resorption of a Large Cervical Herniated Nucleus Pulposus. *The American Journal of Orthopedics* 43(7):E140-145, 2014.
54. **Hsu AR** and Haddad SL. "No Two Arthritic Ankles are the Same," Commentary on an article by Joshua N. Tennant, MD, MPH, et al: Risks to the Blood Supply of the Talus with Four Methods of Total Ankle Arthroplasty. *Journal of Bone and Joint Surgery Am eLetter*, August 2014.
55. Frank RM, Rosenberg AG, and **Hsu AR**. Letter to the Editor: Editorial: "Transition from Training to Practice – Is there a Better Way?" *Clinical Orthopaedics and Related Research* 472(11): 3585-3587, 2014.
56. Campbell PA, Kung MS, **Hsu AR**, and Jacobs JJ. Do Retrieval Analysis and Blood Metal Measurements Contribute to Our Understanding of ALTR? *Clinical Orthopaedics and Related Research* 472(12):3718-3727, 2014.
57. **Hsu AR**, Garras DN, and Lee S. Syndesmotom Injuries in Athletes. *Operative Techniques in Sports Medicine: Foot and Ankle* 22(4):270-281, 2014.
58. **Hsu AR**, Anderson RB, and Cohen BE. 5 Points on Total Ankle Arthroplasty. *The American Journal of Orthopedics* 43(10):451-457, 2014.
59. **Hsu AR** and Anderson RB. What Have We Learned From Taking Care of Elite Athletes? *Orthopedics* 37(11):724-726, 2014.
60. Balaram A, **Hsu AR**, Rapp T, Mehta V, and Bindra R. Large Solitary Glomus Tumor of the Wrist Involving the Radial Artery. *The American Journal of Orthopedics* 43(12):567-570, 2014.
61. Novak CC, **Hsu AR**, Della Valle CJ, Skipor AK, Campbell PA, Amstutz HC, Jiranek WA, Onyike A, Pombar XF, and Jacobs JJ. Metal Ion Levels in Maternal and Placental Blood Following Metal-on-Metal Total Hip Arthroplasty. *The American Journal of Orthopedics* 43(12):E304-E308, 2014.
62. **Hsu AR** and Lee S. Evaluation of Tarsal Navicular Stress Fracture Fixation using Intraoperative O-arm Computed Tomography. *Foot and Ankle Specialist* 7(6):515-521, 2014.
63. Gross CE, Gitelis S, Frank RM, **Hsu AR**, and Diaz A. External Beam Radiation Therapy for Orthopaedic Pathology. *Journal of the American Academy of Orthopaedic Surgeons* 23(4):243-252, 2015.
64. **Hsu AR** and Szatkowski J. Early Tibiotalocalcaneal Arthrodesis Intramedullary Nail for Treatment of a Complex Tibial Pilon Fracture (AO/OTA 43-C). *Foot and Ankle Specialist* 8(3):220-225, 2015.
65. **Hsu AR** and Haddad SL. Early Clinical and Radiographic Outcomes of Intramedullary-Fixation Total Ankle Arthroplasty. *Journal of Bone and Joint Surgery Am* 97(3):194-200, 2015.
66. **Hsu AR**, Haddad SL, and Myerson MS. Evaluation and Management of the Painful Total Ankle Arthroplasty. *Journal of the American Academy of Orthopaedic Surgeons* 23(5):272-282, 2015.
67. **Hsu AR**, Anderson RB, and Cohen BE. Advances in Surgical Management of Intra-Articular Calcaneus Fractures. *Journal of the American Academy of Orthopaedic Surgeons* 23(7):399-407, 2015.
68. **Hsu AR** and Davis WH. The Challenge of Surgeon Self-Improvement, *The American Journal of Orthopedics* 44(8):E298-E299, 2015.

69. **Hsu AR**, Ellington JK, and Adams SB. Tibiotalocalcaneal Arthrodesis Using a Nitinol Intramedullary Hindfoot Nail, *Foot and Ankle Specialist* 8(5):389-396, 2015.
70. **Hsu AR** and Ellington JK. Patient-Specific 3-Dimensional Printed Titanium Truss Cage with Tibiotalocalcaneal Arthrodesis for Salvage of Persistent Distal Tibia Nonunion. *Foot and Ankle Specialist* 8(6):483-489, 2015.
71. **Hsu AR**, Davis WH, Cohen BE, Jones CP, Ellington JK, and Anderson RB. Radiographic Outcomes of Preoperative CT Scan-Derived Patient-Specific Total Ankle Arthroplasty, *Foot and Ankle International* 36(10):1163-1169, 2015.
72. **Hsu AR**, Lareau CR, and Anderson RB. Repair of Acute Superficial Deltoid Complex Avulsion During Ankle Fracture Fixation in National Football League Players, *Foot and Ankle International* 36(11): 1271-1278, 2015.
73. **Hsu AR**, Jones CP, Cohen BE, Davis WH, Ellington JK, and Anderson RB. Clinical Outcomes and Complications of Percutaneous Achilles Repair System Versus Open Technique for Acute Achilles Tendon Ruptures, *Foot and Ankle International* 36(11):1279-1286, 2015.
74. Schipper ON, **Hsu AR**, and Haddad SL. Reduction in Wound Complications After Total Ankle Arthroplasty Using a Compression Wrap Protocol, *Foot and Ankle International* 36(12):1448-1454, 2015.
75. Lareau CR, **Hsu AR**, and Anderson RB. Return to Play in National Football League Players after Operative Jones Fracture Treatment, *Foot and Ankle International* 37(1):8-16, 2016.
76. **Hsu AR** and Holmes GB. Preliminary Treatment of Achilles Tendinopathy Using Low-Intensity Pulsed Ultrasound, *Foot and Ankle Specialist* 9(1):52-57, 2016.
77. **Hsu AR**, Ardoin GT, Davis WH, and Anderson RB. Intermediate and Long-Term Outcomes of the Modified Brostrom-Evans Procedure for Lateral Ankle Ligament Reconstruction, *Foot and Ankle Specialist* 9(2):131-139, 2016
78. **Hsu AR** and Scolaro JA. Posteromedial Approach for Open Reduction and Internal Fixation of Talar Process Fractures, *Foot and Ankle International* 37(4):446-452, 2016.
79. **Hsu AR** and Anderson RB. Foot and Ankle Injuries in American Football, *The American Journal of Orthopedics* 45(6):358-367, 2016.
80. **Hsu AR**. Limited Incision Knotless Achilles Tendon Repair, *The American Journal of Orthopedics* 45(7):E487-E492, 2016.
81. Holmes GB, Bitterman A, **Hsu AR**, Sclamberg JS, and Gitelis S. Intraoperative Ultrasound Guidance for the Removal of Nonmetallic Foreign Body from the Foot, *Foot and Ankle Specialist* 10(1):82-85, 2017.
82. **Hsu AR** and Anderson RB. Mini-Open Achilles Tendon Rupture Repair, *Techniques in Foot and Ankle Surgery* 16(2):55-61, 2017.
83. **Hsu AR** and Lindsay AD. Management of a Tibia Plafond Lung Cancer Metastasis Using an Intramedullary Hindfoot Fusion Nail. *Foot and Ankle Specialist* 11(1):82-87, 2018.
84. **Hsu AR**. Transfemoral Amputation Adductor Myodesis Using FiberTape and Knotless Anchors. *Foot and Ankle International* 39(7):874-879, 2018.
85. **Hsu AR**. Treatment of Deltoid Injuries Associated with Ankle Fractures. *Techniques in Foot and Ankle Surgery* 17(3):115-120, 2018.
86. **Hsu AR**. Complex Ankle and Hindfoot Arthrodesis Using Circular External Fixation. *The American Journal of Orthopedics* 47(9), 2018.

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87. Wright DJ, Bariteau JT, and **Hsu AR**. Advances in the Surgical Management of Ankle Fractures. *Foot and Ankle Orthopaedics* 4(4):1-11, 2019.
88. **Hsu AR**. Repair of Combined Midsubstance and Insertional Achilles Tendon Ruptures. *Orthopedics* 43(1):e57-e64, 2020.
89. Schwartz AM, Runge WO, **Hsu AR**, and Bariteau JT. Fractures of the Talus: Current Concepts. *Foot and Ankle Orthopaedics* 5(1):1-10, 2020.
90. Ochoa JK, Anderson RB, and **Hsu AR**. Lower Extremity Soft Tissue Injections in Athletes. *Sports Health*, In Press, 2020.

PUBLICATIONS: OTHER

1. **Hsu AR**. Physician-Owned Distributorships; Ancillary Revenue; Non-Physician Extenders; Expert Testimony / Expert Review. *Orthomind.com*, 2011.
2. **Hsu AR**, Levine BR, Skipor AK, Hallab NJ, Paprosky WG, and Jacobs JJ. Metal Ion Levels after a Second Joint Arthroplasty. *Rush Orthopedics Journal*, June 2012.
3. **Hsu AR** and Virkus WW. 16 Year-old High School Football Player with Right Shoulder Pain: *What's Your Diagnosis Feature*, *AAOS Now* 6(1): 2012.
4. **Hsu AR**. Looking at the Past to Improve the Present: Dilute Povidone-Iodine Lavage to Prevent Infection in Orthopaedic Procedures. *AAOS Now* 6(5): 2012.
5. **Hsu AR**. Commentary from the Resident Advisory Board regarding "Effects of Extracorporeal Shock Wave Therapy in Fracture Nonunion." *The American Journal of Orthopedics* 41(9), 2012.
6. **Hsu AR**. The Future of Digital Health Technologies: Reimagining the Clinic and OR with New Technology. *AAOS Now* 7(6): 2013.
7. Bhatia S, **Hsu AR**, and Bush-Joseph CA. A 31-Year-Old Baseball Pitcher with Elbow Pain. *Orthopedics Today: Grand Rounds*, July 2013.
8. **Hsu AR**, Bhatia S, and Lee S. A 24-Year-Old Elite Gymnast with Foot Pain. *Orthopedics Today: Grand Rounds*, August 2013.
9. Gross CE, **Hsu AR**, Lee S, and Gitelis S. A 53-Year-Old Woman with Foot Pain. *Orthopedics Today: Grand Rounds*, November 2013.
10. **Hsu AR** and Zussman MA. An 81-Year-Old Woman with Right Knee Pain. *Orthopedics Today: Grand Rounds*, February 2014.
11. **Hsu AR**. Interview with Dr. Mark S. Myerson. *Orthopedics Today: Pioneers in Orthopedics Section*, April 2014.
12. **Hsu AR**. Cost-Effective Surgical Training Simulator Combines Accessible Supplies, Quick Setup. *Orthopedics Today*, April 2014.
13. **Hsu AR** and Anderson RB. A 15-Year-Old Athlete with Ankle Pain. *Orthopedics Today: Grand Rounds*, December 2014.
14. Gururajan K, **Hsu AR**, Singh J, and Braun RM. A 51-Year-Old Presents with Plantar Foot Pain and Nonhealing Ulcers Lasting 2 Months. *American College of Radiology: Case in Point*, January 2015.
15. **Hsu AR** and Anderson RB. High, Inside Starting Point and IM Reaming are Keys for Jones Fracture Fixation in Athletes. *Orthopedics Today*, February 2015.

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16. **Hsu AR**, Anderson RB, and Davis WH. INBONE II Total Ankle Arthroplasty Tips and Tricks: Surgical Technique Guide, *Wright Medical Technology, Inc.*, February 2015.
17. **Hsu AR**, Anderson RB, and Davis WH. PROPHECY-Infinity Total Ankle Arthroplasty Tips and Tricks: Surgical Technique Guide, *Wright Medical Technology, Inc.*, March 2015.
18. **Hsu AR**. Surgical Implant Generation Network (SIGN) Fracture Care International: Tibiotalocalcaneal Arthrodesis Technique Guide. Signsurgeons.org, April 2015.
19. **Hsu AR** and Cohen BE. Percutaneous Fracture Reduction and Low-profile Plating are Keys for Limited Incision Calcaneus Fracture Fixation. *Orthopedics Today*, June 2015.
20. **Hsu AR**. Minimal Soft Tissue Dissection, Careful Suture Placement are Keys to Limited Incision Repair of Acute Midsubstance Achilles Tendon Ruptures. *Orthopedics Today*, February 2016.
21. **Hsu AR**. Joint Prep, Compression, and Rigid Fixation Among Keys to Hallux MTP Joint Arthrodesis. *Orthopedics Today*, July 2016.
22. **Hsu AR**. Early Injury Detection, Joint Inspection, Stable Fixation Aid Lisfranc ORIF in Athletes. *Orthopedics Today*, July 2017.
23. **Hsu AR**. A 17-Year-Old Athlete with Recurrent Ankle Sprains. *Orthopedics Today: Grand Rounds*, August 2017.
24. **Hsu AR**. Commentary on Risk of Surgical Site Infection After Lower Limb Implant Removal Not Reduced with Cefazolin. *Orthopedics Today*, January 2019.
25. **Hsu AR**. Commentary on ORIF for Lisfranc Injuries Yielded Lower Cost, Complication Rate vs. Arthrodesis. *Orthopedics Today*, July 2019.
26. **Hsu AR**, Berlet GC, and Anderson RB. Minimally Invasive Repairs Are Used for Midsubstance Achilles Tendon Ruptures. *Orthopedics Today*, September 2019.
27. **Hsu AR**, Berlet GC, and Anderson RB. Midsubstance Repair is an Alternative Technique to Treat Achilles Tendon Ruptures. *Orthopedics Today*, October 2019.
28. **Hsu AR**. Commentary on Subtalar Arthrodesis with Adipose-Derived Cellular Bone Matrix Had Lower Fusion Rate vs. Autograft. *Orthopedics Today*, December 2019.

BOOK CHAPTERS

1. **Hsu AR** and Chen X. Biomedical Applications of Quantum Dot Semiconductor Nanoparticles. *Encyclopedia of Nanoscience and Nanotechnology*. Editor: Nalwa HS, American Scientific Publishers, Volume 1, 235-253, 2007.
2. Provencher MT, **Hsu AR**, Ghodadra NS, and Romeo AA. Iliac Crest Graft and the Distal Tibia Allograft Procedure, *Shoulder Instability – Alternative Surgical Techniques*. Editors: Di Giacomo G, Costantini A, De Vita A, and De Gasperis N. Springer Italia, 2011.
3. Hsu JW, Lo S, **Hsu AR**, Lin CH. Adjunct and Secondary Procedures for Functional Improvement in Lower Extremity Reconstruction, *Reconstructive Surgery of the Lower Extremity*. Editors: Lee E, Pu LQ, Levine J, and Wei FC. Quality Medical Publishing, 2012.
4. **Hsu AR**. Clavicle Fractures; Proximal Humerus Fractures; Hip Synovial Disease; Charcot Arthropathy; Tarsal Coalition, *Acing the Orthopedic Boards: The Ultimate Crunch Time Resource*. Editor: Levine BR. SLACK Incorporated, 2015.
5. Haddad SL and **Hsu AR**. Deformity Correction in Total Ankle Arthroplasty, *American Academy of Orthopaedic Surgeons Total Ankle Arthroplasty Monograph*. Editor: Haddad SL. Springer, 2015.

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6. Lareau CR, **Hsu AR**, and Cohen BE. Acute and Chronic Syndesmotic Injuries, *Foot and Ankle Sports Orthopaedics*. Editors: Valderrabano V and Easley ME. Springer, 2016.
7. **Hsu AR** and Anderson RB. Sesamoid and Capsule Lesions of the First Metatarsophalangeal Joint, *Foot and Ankle Sports Orthopaedics*. Editors: Valderrabano V and Easley ME. Springer, 2016.
8. **Hsu AR**, Cohen BE, and Anderson RB. Open Reconstruction with Gastrocnemius V-Y Advancement, *The Achilles Tendon – Atlas of Surgical Procedures*. Editors: Thermann H. Springer, 2017.
9. Akoh CC, Schweitzer KM, **Hsu AR**, Davis WH, and Anderson RB. PROPHECY Infinity Total Ankle Replacement, *Operative Techniques in Orthopaedic Surgery*. Editors: Easley ME and Wiesel SM. Lippincott Williams & Wilkins, In Press, 2020.

PRESENTATIONS

1. Veeravagu A, Hou LC, **Hsu AR**, Greve JM, Moseley M, Chen X, and Tse V. Characterization of Angiogenesis in GL26 Murine-Derived Glioblastoma Multiforme. 23rd Stanford Medical School Research Symposium, Palo Alto, CA, May 2006.
2. **Hsu AR**, Hou LC, Veeravagu A, Greve JM, Vogel H, Chen X, and Tse V. *In vivo* bioluminescence and near-infrared fluorescence imaging of orthotopic U87MG-luciferase xenografts: tumor volume correlation with magnetic resonance imaging and visualization of integrin $\alpha\beta 3$ expression. Stanford Medical School Research Symposium, Palo Alto, CA, May 2006.
3. **Hsu AR**, Diaz H, Reyes E, and Gracilla RV. An Overview of Alignment after SIGN Intramedullary Nailing in a Limited Resource Environment. Surgical Implant Generation Network Annual Meeting, Pasco, WA, August 2007.
4. **Hsu AR** and Nho SJ. Femoroacetabular Impingement, Rush University Medical Center – Grand Rounds, Chicago, IL, February 2011.
5. **Hsu AR**, Levine B, Skipor A, Flahive J, Avram M, Michelutti S, Hallab N, Paprosky W, and Jacobs JJ. Effect of a Second Joint Replacement on Metal Ion Levels after Primary Total Hip Arthroplasty. 14th Annual OREF/ORS Heartland Resident Research Symposium, St. Louis, MO, March 2011.
6. **Hsu AR**. Options for Joint Preservation in Young Patients, Rush University Medical Center – OREF/Andersson Lectureship with Dr. Daniel Berry, Chicago, IL, October 2011.
7. **Hsu AR** and Gitelis S. Ewing's Sarcoma, Rush University Medical Center – Grand Rounds, Chicago, IL, February 2012.
8. **Hsu AR** and Holmes GB. Achilles Tendinopathy, Rush University Medical Center – Grand Rounds, Chicago, IL, April 2012.
9. **Hsu AR**, Levine B, Paprosky W, and Jacobs JJ. Effect of a Second Joint Replacement on Metal Ion Levels after Primary Total Hip Arthroplasty. Mid-America Orthopaedic Association Annual Meeting, Bonita Springs, FL, April 2012.
10. **Hsu AR** and Holmes GB. Treatment of Achilles Tendinopathy Using Ultrasound Stimulation. Mid-America Orthopaedic Association Annual Meeting, Bonita Springs, FL, April 2012.
11. **Hsu AR** and Lee S. Total Ankle Arthroplasty, Rush University Medical Center – Thesis Day with Dr. Judith Baumhauer, Chicago, IL, June 2012.
12. Holmes GB and **Hsu AR**. Correction of Hallux Valgus with the Mini TightRope Device. American Orthopaedic Foot & Ankle Society Annual Meeting, San Diego, CA, June 2012.
13. **Hsu AR** and Levine BR. Pseudotumor after Total Hip Arthroplasty, Rush University Medical Center – Grand Rounds, Chicago, IL, September 2012.

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14. Levine BR, **Hsu AR**, Skipor AK, Hallab NJ, Paprosky WG, Galante JO, and Jacobs JJ. Ten-Year Outcome of Serum Metal Ion Levels after Primary Total Hip Arthroplasty. American Association of Hip and Knee Surgeons Annual Meeting, Dallas, TX, November 2012.
15. **Hsu AR** and Lee S. Navicular Stress Fractures, Rush University Medical Center – Grand Rounds, Chicago, IL, January 2013.
16. Gross CE, **Hsu AR**, Lin JL, Holmes GB, and Lee S. Revision MTP Arthrodesis for Failed MTP Arthroplasty. American Association of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2013.
17. **Hsu AR**, Levine BR, Paprosky WG, Galante JO, and Jacobs JJ. Ten-Year Outcome of Serum Metal Ion Levels after Primary Total Hip Arthroplasty. 16th Annual OREF/ORS Heartland Resident Research Symposium, Indianapolis, IN, April 2013.
18. Bhatia S, Saigal A, **Hsu A**, Ellman M, Bach BR Cole BJ, Romeo AA, and Verma NN. Glenoid Diameter is an Inaccurate Method for Glenoid Bone Loss Quantification. Arthroscopy Association of North America Annual Meeting, San Antonio, TX, April 2013.
19. **Hsu AR**, Levine BR, Skipor AK, Hallab NJ, Paprosky WG, Galante JO, and Jacobs JJ. Ten-Year Outcome of Serum Metal Ion Levels after Primary Total Hip Arthroplasty. Mid-America Orthopaedic Association Annual Meeting, Physician in Training Award Presentation, Amelia Island, FL, April 2013.
20. **Hsu AR** and Szatkowski J. Management of the Difficult Pilon Fracture, Rush University Medical Center – Thesis Day with Dr. Lawrence Marsh, Chicago, IL, June 2013.
21. **Hsu AR** and Lin JL. Talar Osteochondral Lesions, Rush University Medical Center – Grand Rounds, Chicago, IL, November 2013.
22. **Hsu AR**, Coetzee JC, Haddad SL, and Berlet GC. Effects of Total Ankle Arthroplasty Training Course on Physician Practice Patterns and Complication Rates. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, April 2014.
23. **Hsu AR** and Haddad SL. Early Clinical and Radiographic Outcomes of Intramedullary Referencing Total Ankle Arthroplasty. 16th Annual OREF/ORS Midwest Resident Research Symposium, Chicago, IL, May 2014.
24. **Hsu AR** and Haddad SL. Early Outcomes of Intramedullary Referencing Total Ankle Arthroplasty. Rush University Medical Center – Thesis Day with Dr. Frank Eismont, Chicago, IL, June 2014.
25. **Hsu AR** and Haddad SL. Reduction in Wound Complications After Total Ankle Arthroplasty Using a Compression Wrap Protocol. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, March 2015.
26. **Hsu AR**, Schipper ON, and Haddad SL. Reduction in Wound Complications After Total Ankle Arthroplasty Using a Compression Wrap Protocol. American Orthopaedic Foot and Ankle Surgery Annual Meeting, Long Beach, CA, July 2015.
27. **Hsu AR**, Jones CP, Cohen BE, Davis WH, Ellington JK, and Anderson RB. Clinical Outcomes and Complications of Percutaneous Achilles Repair System Versus Open Technique for Acute Achilles Tendon Ruptures. American Orthopaedic Foot and Ankle Surgery Annual Meeting, Long Beach, CA, July 2015.
28. **Hsu AR**. Athletic Injuries of the Foot & Ankle, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, February 2016.
29. **Hsu AR**. Hallux MTP Fusion and Cotton Osteotomy, Instructional Course Lecture: Osteotomy and Arthrodesis of the Forefoot and Hindfoot, Moderator: Hunt KJ. American Academy of Orthopaedic Surgeons Annual Meeting, Orlando, FL, March 2016.
30. **Hsu AR**. Management of Foot Drop, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange,

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CA, July 2016.

31. **Hsu AR.** Hallux MTP Fusion and Cotton Osteotomy, Instructional Course Lecture: Osteotomy and Arthrodesis of the Forefoot and Hindfoot, Moderator: Hunt KJ. American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA, March 2017.
32. **Hsu AR.** The Wide World of Bunions, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, April 2017.
33. **Hsu AR.** Ankle Fractures: Lessons Learned, UC-Irvine Department of Orthopaedic Surgery – Symposium on Advances in the Management of Lower Extremity Injuries, Newport Beach, CA, June 2017.
34. **Hsu AR.** Controversies in Ankle Fracture Management, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, May 2018.
35. **Hsu AR.** Ankle Fusion vs. Total Ankle Replacement, UC-Irvine Department of Orthopaedic Surgery – Symposium on Orthopaedic Trauma in the 21st Century, Huntington Beach, CA, June 2018.
36. **Hsu AR.** Foot & Ankle Fractures: Fix vs. Fuse, UC-Irvine Department of Orthopaedic Surgery – Symposium on Orthopaedic Trauma in the 21st Century, Huntington Beach, CA, June 2018.
37. **Hsu AR.** Achilles Tendon Injuries, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, August 2018.
38. **Hsu AR.** Foot & Ankle Fractures: Challenges and Controversies, Orange County Podiatric Medical Association (OCPMA) – Advancements in Foot & Ankle Surgery, Huntington Beach, CA, September 2018.
39. **Hsu AR.** Bunions: I Don't-Not-Dislike You, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, December 2018.
40. **Hsu AR.** Complex and Charcot Foot & Ankle, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, February 2019.
41. **Hsu AR.** Flatfoot Reconstruction: Flexible, Rigid, and Complex, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, May 2019.
42. **Hsu AR.** Total Ankle Replacement: Where Are We Now?, UC-Irvine Department of Orthopaedic Surgery – Contemporary Perspectives in Joint Replacement, Huntington Beach, CA, May 2019.
43. **Hsu AR.** Talar Osteochondral Lesions, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, December 2019.
44. **Hsu AR.** Lisfranc Injuries, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, February 2020.
45. **Hsu AR.** Advanced Surgical Management of Syndesmotic Injuries, UC-Irvine Department of Orthopaedic Surgery – Grand Rounds, Orange, CA, June 2020.

RELEVANT EXPERIENCE

- 06/2006 – 06/2009 **Health Volunteers Overseas (HVO), Surgical Implant Generation Network (SIGN)** – Volunteer
Provided educational tools and service abroad as a member of HVO and SIGN. Worked with Stanford University, HVO, SIGN, and the AAOS to help improve Orthopedic care internationally.
- 05/2011 – 09/2013 **Rush University Orthopaedic Interest Group (OIG)** – Resident Coordinator
Provide educational lecture and mentorship to medical students interested in pursuing careers in Orthopaedic Surgery through weekly meetings with Residency Program Director Dr. Brett Levine.

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- 10/2011 – 07/2015 **Hearts to Soles** – Coordinator / Volunteer
Educate medical students and patients and perform free foot exams and footwear donations to homeless individuals in Chicago, IL, Charlotte, NC.
- 10/2011 – 01/2015 **Resident Editor** – AOFAS Online Physician Resource Center
Resident member of the AOFAS Online Resources committee developing content and educational materials for the collaborative orthopaedic knowledgebase.
- 01/2012 – 07/2015 **Resident Advisory Board** – *The American Journal of Orthopedics*
Editorial writer and consultant for journal in regards to topics focused on resident education, career development, and recent advances in orthopedics.
- 01/2012 – 06/2014 **Resident Advisory Board** – OrthoMind.com
Content contributor and advisor regarding practice management and research opportunities for the residency section of website.
- 06/2012 – 06/2013 **Resident Council Member** – Illinois State Medical Society Economics Council and Resident-Fellow Governing Council
Elected council member dealing with relationships with third party payers and health care cost and utilization review activities for Illinois physicians.
- 02/2013 – 06/2014 **Department Editor for Resident Section** – *The American Journal of Orthopedics*
Appointed by 2013 Editor in Chief Dr. Peter McCann to review and provide feedback on the Resident Advisory Board column and writing opportunities including bi-monthly editorials.
- 03/2013 – 06/2014 **Section Co-Editor** – *Orthopaedics Today* Rush Grand Rounds Feature
Appointed by Editor in Chief Dr. Anthony Romeo to serve as co-editor for the case-based Rush Grand Rounds Section of the monthly publication *Orthopaedics Today*.
- 06/2013 – 06/2014 **Surgical Techniques Author and Editor** – *Orthobullets.com*
Appointed by Orthobullets.com to serve as content author and editor for operative techniques section.
- 07/2013 – 07/2017 **Member** – AOFAS Research Committee
Resident member of the AOFAS Research Committee evaluating research grant applications, making funding recommendations, and organizing Annual Meeting Research Forum.
- 10/2013 – 10/2017 **Review Panel** – *OREF Total Ankle Arthroplasty Grants*
- 11/2015 – 6/2019 **Editorial Board** – *The American Journal of Orthopedics*
- 03/2015 – 10/2019 **Review Panel** – *The American Journal of Orthopedics*
- 10/2015 – Present **Review Panel** – *Orthopedics*
- 10/2015 – Present **Review Panel** – *Foot & Ankle International*
- 10/2015 – Present **Review Panel** – *Foot & Ankle Specialist*
- 08/2016 – Present **Review Panel** – *Foot & Ankle Orthopedics*
- 01/2018 – Present **Editorial Board, Foot & Ankle Section** – *Orthopedics Today*
- 2018 – Present **Super Doctors Southern California Rising Star**

PROFESSIONAL SOCIETIES

- 07/2010 – Present American Academy of Orthopaedic Surgeons (AAOS) – Active Member

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07/2011 – Present American Orthopaedic Foot and Ankle Society (AOFAS) – Active Member

CERTIFICATION

06/2007 USMLE Step 1
04/2009 USMLE Step 2 CK, CS
06/2009 Basic Life Support, American Heart Association
06/2009 Advanced Cardiac Life Support, American Heart Association
07/2009 Physician License (#125-056856), Illinois Department of Financial and Professional Regulations
03/2010 USMLE Step 3
05/2011 Advanced Cardiac Life Support, American Heart Association (Renewal)
05/2013 Advanced Cardiac Life Support, American Heart Association (Renewal)
07/2014 Physician License (#2014-00906), North Carolina Medical Board
07/2014 American Board of Orthopaedic Surgeons (Part 1)
06/2015 Physician License (A136753), Medical Board of California
10/2015 Radiography and Fluoroscopy Supervisor and Operator Permit (RHD 00200179)
08/2017 American Board of Orthopaedic Surgeons (Part 2)

EDUCATIONAL COURSES INSTRUCTED

03/2016 AAOS Instructional Course Lecture: Osteotomy and Arthrodesis of the Forefoot and Hindfoot – Orlando, FL.
08/2016 Arthrex Advanced Ankle Instability, Arthroscopy, and Sports Injuries Symposium – San Diego, CA
03/2017 AAOS Instructional Course Lecture: Osteotomy and Arthrodesis of the Forefoot and Hindfoot – San Diego, CA.
03/2017 Arthrex Foot and Ankle Orthopaedic Technology and Innovation Forum – Naples, FL
05/2017 Arthrex Foot and Ankle Fellowship Forum – Naples, FL
06/2017 Course Director: Symposium on Advances in the Management of Lower Extremity Injuries – Newport Beach, CA
08/2017 Arthrex Advanced Ankle Instability, Arthroscopy, and Sports Injuries Symposium – San Diego, CA
01/2018 Arthrex Advanced Ankle Instability, Arthroscopy, and Sports Injuries Symposium – Naples, FL
02/2018 Arthrex Foot & Ankle Orthopedic Technology & Innovation Forum – Naples, FL
04/2018 Arthrex Advanced Ankle Instability, Arthroscopy, and Sports Injuries Symposium – San Diego, CA
04/2018 Arthrex Foot & Ankle Trauma – Naples, FL
05/2018 Arthrex Sports Medicine Fellowship Forum – Naples, FL
06/2018 Arthrex National Futures Forum – Naples, FL
08/2018 Arthrex West Coast Foot & Ankle Summit – Newport Beach, CA
10/2018 Arthrex Faculty Forum – Singapore
12/2018 Arthrex Foot and Ankle Symposium – Naples, FL
01/2019 Arthrex Orthopedic Technology & Innovation Forum – Bonita Springs, FL
03/2019 Arthrex Foot and Ankle Revision Surgery Symposium – Naples, FL
04/2019 Arthrex Foot and Ankle Fellowship Forum – Naples, FL
05/2019 AOFAS Surgical Complications Course – Memphis, TN
05/2019 Arthrex Sports Medicine Fellowship Forum – Naples, FL
06/2019 Arthrex Latin America Foot & Ankle Summit – Naples, FL
08/2019 Arthrex West Coast Foot & Ankle Summit – Newport Beach, CA
10/2019 Arthrex Foot and Ankle Orthopedic Technology & Innovation Forum – Naples, FL
11/2019 UC Irvine Medical School Foot & Ankle Anatomy Lab – Irvine, CA
01/2020 Arthrex Foot and Ankle Summit – Naples, FL