

PODIATRY INSTITUTE

UPDATE 2017

2017 CORPORATE SPONSORS

Special thanks for their outstanding support of The Podiatry Institute and the continued development of excellence in post-graduate continuing education.

Please support these companies that support your profession.

PLATINUM

Bako Integrated Physician Solutions PICA

STRYKER FOOT & ANKLE

GOLD

AMERX HEALTH CARE
ARTHROSURFACE
MARLINZ PHARMACEUTICALS
VALEANT PHARMACEUTICALS

SILVER

Delta Surgical Instruments
In2Bones USA
The Tetra Corporation

BRONZE

Dia-Foot Redi-Thotics Wright Medical

CONTRIBUTORS

Tee Adeleke, DPM

Fellow, American Foundation of Lower Extremity Surgery and Research, Alamogordo, New Mexico

Ugo Adigweme, DPM

Second-Year Resident, Westchester General Hospital, Miami, Florida

David C. Alder, DPM

Private Practice, Decatur, Georgia
Former Residency Director, DeKalb Medical, Decatur, Georgia
Fellow, American College of Foot and Ankle Surgeons
Diplomate, American Board of Foot and Ankle Surgery
Faculty, The Podiatry Institute, Decatur, Georgia

Nicholas Amalfetano, DPM

First-Year Resident, Aria-Jefferson Health, Philadelphia, Pennsylvania

J. Joseph Anderson, DPM

Fellowship Director, American Foundation of Lower Extremity Surgery and Research, Alamogordo, New Mexico Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery

Elizabeth Ansert

Second-Year Student, Barry University School of Podiatric Medicine, Miami, Florida

Robert W. Appling

Fourth-Year Student, Barry University School of Podiatric Medicine, Miami, Florida

Brian Asencio, DPM

First-Year Resident, Mount Sinai Medical Center, Miami Beach, Florida

Jannah F. Bacchus, DPM

First-Year Resident, Northport Veteran's Affairs Medical Center Residency Program, Northport, New York

Hani Badahdah, DPM, MD, CWSP, MS

Fellow, Reconstructive Foot & Ankle Surgery at University of Texas Health Science Center, San Antonio, Texas

Trevor Baddaloo, MS

Fourth-Year Student, Barry University School of Podiatric Medicine, Miami, Florida

Adam M. Bressler, MD

Partner, Infectious Disease Specialists of Atlanta Medical Director of Microbiology, Infection Prevention, and Antibiotic Stewardship, DeKalb Medical, Decatur, Georgia

Jacqueline Brill, DPM

Associate Professor, Barry University School of Podiatric Medicine, Miami, Florida Residency Director, Mount Sinai Medical Center, Miami Beach, Florida Fellow, American College of Foot and Ankle Surgeons

Jacqueline Saxe Buchman, DPM

Associate Professor, Barry University School of Podiatric Medicine, Miami, Florida

Mario Cala, DPM

Assistant Professor, Barry University School of Podiatric Medicine, Miami, Florida Residency Director, Jackson North Hospital, Miami, Florida

Brian Carpenter, DPM

Professor, University of North Texas Health Science Center, Fort Worth, Texas Surgeon, John Peter Smith Hospital, Department of

Orthopaedics, Fort Worth, Texas Fellow, American College of Foot and Ankle Surgeons Diplomate American Board of Foot and Ankle Surgery Faculty, The Podiatry Institute, Decatur, Georgia

Harold Cesar, DPM

Private Practice, Jacksonville, Florida Chief Section Chair of Podiatry, St. Vincent Medical Center, Riverside, Florida

Carly Chapman, DPM

Third-Year Resident, Atlanta VAMC, Decatur, Georgia

Devin W. Collins, BA

Fourth-Year Student, Nova Southeastern University, Fort Lauderdale, Florida

Cayla Conway, DPM

Third-Year Resident, DeKalb Medical, Decatur, Georgia

Charles Cook, MD

Private Practice, The Center for Foot and Ankle Restoration, Dallas, Texas Fellow, American Academy of Orthopaedic Surgeons

Corine L. Creech, DPM

Private Practice, Lake Ridge, Virginia

Cherison A. Cuffy, DPM, CWS

Assistant Professor, Barry School of Podiatric Medicine, Miami, Florida

John Davidson, DPM

Second-Year Resident, Scripps Mercy-Kaiser Residency Program Scripps Mercy Hospital, San Diego, California

William T. DeCarbo, DPM

St. Clair Orthopedic Associates, Pittsburgh, Pennsylvania Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery

Kevin Doulens, MD

Staff, Ochsner Medical Center, Slidell, Louisiana Fellow, American Academy of Orthopaedic Surgeons

Michael D. Dujela, DPM

Washington Orthopaedic Center, Centralia, Washington Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery

Mark B. Ellis, DPM

Surgical Attending, VAMC, Salt Lake City, Utah Research Coordinator, Intermountain Healthcare Residency, Salt Lake City, Utah Associate, American College of Foot and Ankle Surgeons

Mohanad Eltahir, DPM

Private Practice, Mercy Hospital, Miami, Florida

Norman Espinosa, MD

Universitätsklinik Balgrist, Zürich, Switzerland

Kent Feldman, DPM

Private Practice, San Diego, California Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery

William D. Fishco, DPM

Private Practice, Anthem, Arizona Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery Faculty, The Podiatry Institute, Decatur, Georgia

Jesus Garcia, DPM

First-Year Resident, Mercy Hospital, Miami, Florida

Matrona Giakoumis, DPM

Surgical Instructor, Surgery Department, New York College of Podiatric Medicine, New York, New York Associate, American College of Foot and Ankle Surgeons Faculty, The Podiatry Institute, Decatur, Georgia

Alejandro Gonzalez, DPM

Third-Year Resident, Jackson North Medical Center, Miami, Florida

Jose M. Gonzalez, DPM

Third-Year Resident, DeKalb Medical, Decatur, Georgia

Donald Green, DPM

Director of Podiatric Residency Training, Scripps Mercy Hospital, San Diego, California Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery Faculty, The Podiatry Institute, Decatur, Georgia

Mack Jav Groves IV, DPM

Private Practice, Covington, Louisiana Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery Faculty, The Podiatry Institute, Decatur, Georgia

Amir Hajimirsadeghi, DPM

Scripps Mercy and Kaiser Permanente Hospitals, San Diego & Sacramento, California Sharp Rees-Stealy Medical Group, San Diego, California

Patrick B. Hall, DPM

Private Practice, Baton Rouge, Louisiana Diplomate, American Board of Foot and Ankle Surgery Faculty, The Podiatry Institute, Decatur, Georgia

Samuel Hammer-Nahman, DPM

Second-Year Resident, Scripps Mercy-Kaiser Residency Program Scripps Mercy Hospital, San Diego, California

Myron Holbert Hansen, DPM

Private Practice, Chandler, Arizona Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery

Pamela Hong, DPM

Third-Year Resident, Scripps Mercy-Kaiser Residency Program Scripps Mercy Hospital, San Diego, California

John Houseworth, DPM

Assistant Professor, Barry University School of Podiatric Medicine, Miami, Florida

Christopher F. Hyer, DPM, MS

Orthopedic Foot and Ankle Center, Westerville, Ohio Fellow, American College of Foot and Ankle Surgeons

Hamed Jafary, DPM

Second-Year Resident, Jackson North Medical Center, Miami, Florida

A. Louis Jimenez, DPM

Private Practice, Snellville, Georgia
Program Director, Atlanta VAMC Podiatric Residency Program
Past President, American College of Foot and Ankle Surgeons
Fellow, American College of Foot and Ankle Surgeons
Diplomate, American Board of Foot and Ankle Surgery
Faculty, The Podiatry Institute, Decatur, Georgia

Kyle Johnson

Fourth-Year Student, Barry University School of Podiatric Medicine, Miami, Florida

Carl A. Kihm, DPM

Private Practice, Louisville, Kentucky Faculty, The Podiatry Institute, Decatur, Georgia

Kevin Lam, DPM, DABLES, DABFAS

Fellowship Director, Advanced Reconstructive Rearfoot Ankle Surgery, Naples, Florida Fellow, American College of Foot and Ankle Surgeons

David R. Larson, DPM

Orthopedic Foot and Ankle Center, Westerville, Ohio

Joshua Jae Lee, DPM

Second-Year Resident, DeKalb Medical, Decatur, Georgia

Sara E. Lewis, DPM

Second-Year Resident, DeKalb Medical, Decatur, Georgia

Jessica A. Lickiss, DPM

Private Practice, Falls Church, Virginia

Raymond J. Lopez, DPM

First-Year Resident, Mount Sinai Medical Center, Miami Beach, Florida

James Losito, DPM

Professor and Sports Medicine Fellowship Director, Barry University School of Podiatric Medicine, Miami, Florida Fellow, American College of Foot and Ankle Surgeons

Kevin Y. Lu, DPM

Third-Year Resident, DeKalb Medical, Decatur, Georgia

Kieran T. Mahan, DPM

Clinical Professor, Department of Podiatric Surgery, Temple University School of Podiatric Medicine, Philadelphia, Pennsylvania Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Podiatric Medicine Faculty, The Podiatry Institute, Decatur, Georgia

Sara Mahmood, BS

Fourth-Year Student, Barry University School of Podiatric Medicine, Miami, Florida

Joshua J. Mann, DPM

Private Practice, Jonesboro, Georgia Associate, American College of Foot and Ankle Surgeons Diplomate, American Board of Podiatric Medicine Faculty, The Podiatry Institute, Decatur, Georgia

Christopher Martin, DPM

Second-Year Resident, DeKalb Medical, Decatur, Georgia

Michael C. McGlamry, DPM

Private Practice, Cumming, Georgia Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery Faculty, The Podiatry Institute, Decatur, Georgia

Natalie Mendez, DPM

First-Year Resident, Mercy Hospital, Miami, Florida

Thomas Merrill, DPM

Professor of Surgery, Barry University School of Podiatric Medicine, Miami, Florida Residency Director, Mercy Hospital, Miami, Florida Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery Faculty, The Podiatry Institute, Decatur, Georgia

Andrew J. Meyr, DPM

Clinical Associate Professor, Department of Podiatric Surgery, Temple University School of Podiatric Medicine, Philadelphia, Pennsylvania

Nenad Milanovic, DPM

Second-Year Resident, Scripps Mercy-Kaiser Residency Program Scripps Mercy Hospital, San Diego, California

Travis Motley, DPM, MS

Professor, University of North Texas Health Science Center, Fort Worth, Texas

Surgeon, John Peter Smith Hospital, Department of Orthopaedics, Fort Worth, Texas

Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery

Jasmine N. Neal, DPM

Third-Year Resident, DeKalb Medical, Decatur, Georgia

Christine K. Nolan, DPM

Susquehanna Health System, Susquehanna, Pennsylvania

Paula Nuguid, DPM

Second-Year Resident, Scripps Mercy-Kaiser Residency Program Scripps Mercy Hospital, San Diego, California

Robert G. O'Keefe, DPM

Private Practice, Des Plaines, Illinois Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery

Abiola J. Oki, DPM

Second-Year Resident, Mercy Hospital, Miami, Florida

Rikhil Patel, DPM

Fellow, Advanced Reconstructive Rearfoot Ankle Surgery, Naples, Florida

Sohan P. Patel, DPM

Second-Year Resident, Northwest Medical Center, Margate, Florida

Sofie L. Pinney, DPM, MS

Private Practice, Pikeville, Kentucky Faculty, The Podiatry Institute, Decatur, Georgia

Alayna Puccinelli, DPM

Third-Year Resident, Scripps Mercy-Kaiser Residency Program Scripps Mercy Hospital, San Diego, California

Ralph Ramos, DPM

Second-Year Resident, Mercy Hospital, Miami, Florida

Brittany Rice, DPM

Second-Year Resident, Scripps Mercy-Kaiser Residency Program Scripps Mercy Hospital, San Diego, California

George Rivello, DPM

Private Practice, San Diego, California Fellow, American College of Foot and Ankle Surgeons

Jay D. Ryan, DPM

Private Practice, Fairfax, Virginia
Fellow, American College of Foot and Ankle Surgeons
Diplomate, American Board of Foot and Ankle Surgery
Faculty, The Podiatry Institute, Decatur, Georgia

Gabriel Santamarina, DPM

Third-Year Resident, Mercy Hospital, Miami, Florida

Vilayvanh Saysoukha, DPM, MSc

Second-Year Resident, Northwest Medical Center, Margate, Florida

Naim Shaheed, DPM

Private Practice, Lithonia, Georgia Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery Faculty, The Podiatry Institute, Decatur, Georgia

Derek Smith, DPM

Scripps Mercy and Kaiser Permanente Hospitals, San Diego and Sacramento, California

Robert J. Snyder, DPM, CWS, MSc

Professor, Barry School of Podiatric Medicine, Miami, Florida

Spenser Soldano

Third-Year Student, Barry University School of Podiatric Medicine, Miami, Florida

Charles C. Southerland Jr., DPM, DABPM, CWS, DABDA, FACFAP

Professor, Barry University School of Podiatric Medicine, Miami, Florida Fellow, American College of Foot and Ankle Surgeons

Mickey Stapp, DPM

Private Practice, Augusta, Georgia
Fellow, American College of Foot and Ankle Surgeons
Diplomate, American Board of Foot and Ankle Surgery
Faculty, The Podiatry Institute, Decatur, Georgia

Alexandria Stern, DPM

Third-Year Resident, Scripps Mercy-Kaiser Residency Program Scripps Mercy Hospital, San Diego, California

Zflan Swayzee, BS

Research Assistant, American Foundation of Lower Extremity Surgery and Research, Alamogordo, New Mexico

H. Thomas Temple, MD

Orthopedic Surgery, Musculoskeletal Oncology, Nova Southeastern University, Department of Orthopedic Surgery, Fort Lauderdale, Florida Center for Orthopedic Innovations, Mercy Hospital, Miami, Florida

John V. Vanore, DPM

Private Practice, Gadsden, Alabama
Fellow, American College of Foot and Ankle Surgeons
Diplomate, American Board of Foot and Ankle Surgery
Faculty, The Podiatry Institute, Decatur, Georgia

Jill Waalen, MD, MPH

Associate Professor, The Scripps Research Institute, La Jolla, California Clinical Biostatistics Consultant and Instructor at the Scripps Translational Research Institute, La Jolla, California Diplomate, American Board of Preventive Medicine Fellow, American College of Preventive Medicine

Matthew R. Wagoner, DPM

Triad Foot Center, Greensboro, North Carolina

Jeffrey S. Weber, DPM

Orthopedic Foot and Ankle Center, Westerville, Ohio

Robert B. Weinstein, DPM

Private Practice, Fayetteville, Georgia Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery Faculty, The Podiatry Institute, Decatur, Georgia

Philip Wrotslavsky, DPM

Director, Advanced Foot and Ankle Center, San Diego, California Fellow, American College of Foot and Ankle Surgeons Diplomate, American Board of Foot and Ankle Surgery

CONTENTS

SECTION ONE Hallux Valgus and Forefoot Surgery	Medicine		
<u>Chapter</u>	<u>Page</u>	<u>Chapter</u>	<u>Page</u>
1 / Modifications of the Pan Metatarsal Head Resection for Increased Postoperative Stability David C. Alder	1	10 / Stingray Spine Envenomation Impalement in the Foot: A Case Report Nicholas Amalfetano, Gabriel Santamarina, Mario Cala, Thomas Merrill	t 45
2 / Minimally Invasive Bunionectomy: The Lam Modification of the Traditional Distal First Metatarsal Osteotomy Bunionectomy	3	11 / Forensic Podiatry: A Brief Compendium Elizabeth Ansert, Gabriel Santamarina, John Houseworth, Thomas Merrill	n 47
 Kevin Lam, Rikhil Patel, Thomas Merrill 3 / Plantar Incision Approach for Hammertoe Correction Jacqueline Brill, Raymond J. Lopez, Brian Asencio, Thomas Merrill 	9	12 / Management of a Recurrent Metastatic Renal Cell Carcinoma to the Foot With Medial Column Reconstruction: A Case Study H. Thomas Temple, Mohanad Eltahir, Jannah F. Bacchus, Thomas Merrill	53
4 / Conversion of a Failed First Metatarsophalangeal Joint Arthrodesis to a Dual Stem Silastic Total Joint Implant: A Case Report John Davidson, Amir Hajimirsadeghi, Derek Smith	13	13 / Risk of Infection and Disease Transmission with Allogenic Bone Graft Use in Foot and Ankle Surgery Corine L. Creech, Christine K. Nolan, Matthew R. Wagoner, Kieran T. Mahan, Andrew J. Meyr	59
5 / Weight-Bearing Computed Tomography Evaluation of First Metatarsal Frontal Pla Rotation in Hallux Abducto Valgus Deformity	ne 17	14 / Factitious Disorder Imposed on Self Jose M. Gonzalez	63
Alayna Puccinelli, Kent Feldman, Donald Green, Jill Waalen	1/	15 / Are You Prepared? Office Emergencies Joshua J. Mann	65
6 / "Problematic" Implant or Complications of First Metatarsophalangeal Joint Implant Arthroplasty – 2.0 John V. Vanore, Robert G. O'Keefe	23	16 / Acral Lentiginous Melanoma: A Case Presentation Jacqueline Saxe Buchman, Spenser Soldano, Thomas Merrill	69
7 / Compression Staples for Transverse Metaphyseal First Metatarsal Base Wedge Osteotomy Paula Nuguid, Donald R. Green	33	17 / Comprehensive Care and Management of Foot Infection in an Immunocompromised Patient: A Case Report Cherison A. Cuffy, Sohan P. Patel, Vilayvanh Saysoukha, Robert J. Snyder, Thomas Me	73 errill
SECTION TWO Rearfoot and Ankle		18 / Levamisole-Induced Vasculitis	
8 / Bilateral Adult Cavoadductovarus Deformity: Literature Review and	27	Affecting the Lower Extremity From Contaminated Cocaine Mark B. Ellis, William D. Fishco	81
Case Presentation Carly Chapman, A. Louis Jimenez	37	19 / An Update on the Literature for Foot And Ankle Surgery 2016: Are We	
9 / Posterior Incision for Subtalar Arthrodesis Patrick B. Hall	43	Practicing Evidence-Based Medicine? Matrona Giakoumis	85

<u>Cha</u> j	<u>pter</u>	<u>Page</u>	<u>Chapter</u> <u>I</u>	<u>Page</u>
20 /	Malignant Melanoma Management and Long-Term Follow-Up in Five Feet Pamela Hong, George Rivello, Donald Green	89	31 / Tendon Orthobiology Jasmine N. Neal	150
21 /	Systemic Steroids in Podiatric Medicine Mickey Stapp	95	32 / Surgical Treatment of Peroneus Brevis Tendon Repair With and Without Human Amniotic Allograft:	150
22 /	Update on Hemoglobin A1c Joshua Jae Lee	99	A Comparison Study J. Joseph Anderson, Tee Adeleke, Brittany Rice, Zflan Swayzee	152
23 /	Bacterial Soft Tissue Infections Following Water Exposure Sara E. Lewis, Devin W. Collins, Adam M. Bressler	101	33 / Peroneal Treatment Options Following Failed Tenodesis: Two Staged Hunter Rod Technique	157
	Common Snake and Insect Bites in Georgia Christopher Martin	105	Sofie L. Pinney 34 / Application of Placental Membrane Graft in Management of Recalcitrant Venous Ulcer: A Case Report	162
	TION FOUR Techniques and Technologies		Hani Badahdah, Sara Mahmood, Jesus Garcia, James Losito, Thomas Merrill	
25 /	Reverse Peroneus Brevis Muscle Flap for Dorsal Foot Wound Coverage: A Case Study Mario Cala, Hamed Jafary, Alejandro Gonzalez,	109	35 / A Rare Case of Cuboid-Navicular Coalition in a Nine-Year-Old Girl Nenad Milanovic, Pamela Hong, George Rivello, Donald Green	166
26 /	Thomas Merrill Charcot Neuroarthropathy Reconstruction Using External Fixation: A Long-Term Follow-Up	115	36 / Framework for Understanding Medical Device Development Robert B. Weinstein	169
	Trevor Baddaloo, Natalie Mendez, Ralph Ramos, Mario Cala, Thomas Merrill		37 / Medial and Lateral Column Beaming: A Literature Review Cayla Conway, Naim Shaheed	173
27 /	27 / Tibiocalcaneal Arthrodesis as a Limb Salvage Solution for a Patient With Rearfoot Charcot Neuroarthropathy and Avascular Necrosis of the Talus Ugo Adigweme, Abiola J. Oki, Kyle Johnson, Trevor Baddaloo, Mario Cala, Thomas Merrill	121	SECTION FIVE Trauma	
			38 / Calcaneal Fracture Management Via a Combination of Approaches:	
28 /	Human Amniotic Allograft Used on Talar Dome Lesions: A Comparative Study J. Joseph Anderson, Zflan Swayzee, Myron Holbert Hansen, Alexandria Stern	126	Double External Fixation Distraction With Minimally-Invasive and Percutaneous Repair Carl A. Kihm	176
29 /	Preload Arthrodesis Technique: A Corrected Position, Bone-Preserving, and Realigning Procedure Mack Jay Groves, IV	131	39 / Multiple Foot Fractures Treated With Multiple Minirail External Fixation: A Case Report Hamed Jafary, Ralph Ramos, Cherison A. Cuffy, Thomas Merrill	183
30 /	Evolution of Total Ankle Replacement Within the US Michael D. Dujela, William T. DeCarbo, Norman Espinosa, Jeffrey S. Weber, David R. Larson, Christopher F. Hyer	139	40 / Combined Reconstruction of the Deltoid and Spring Ligament Complex in an Acute Ligamentous Injury Samuel Hammer-Nahman, Philip Wrotslavsky	192

<u>Chapter</u>	<u>Page</u>	<u>Chapter</u>	Page
41 / Management of Traumatic Wounds to Lower Limbs Resulting From Projectiles of Various Eras	198	44 / Local Infiltration Analgesia Technique Closed Reduction of Ankle Fractures Kevin Y. Lu	s for 213
Charles C. Southerland, Jr., Robert W. Applir Thomas Merrill	ng,	45 / Posterior Malleolar Fractures Jessica A. Lickiss, Jay D. Ryan	217
42 / Minimally Invasive Open Reduction Internal Fixation of Calcaneus Fract With Plate Fixation: A Five-Year Follow-Up Analysis Brian Carpenter, Harold Cesar, Travis Motley	ctures 204	SECTION SIX PICA Risk Management 46 / The Podiatrist's Role in Pain Management	221
43 / Restoration of Lateral Ankle Stabil With Augmentation: Two Variation and Results Brian Carpenter, Kevin Doulens, Charles Con	ns 208	Michael C. McGlamry	