Diabetic Limb Salvage Conference

APRIL 16-18, 2020 | JW MARRIOTT | WASHINGTON, D.C.

A Paradigm Shift in Limb Salvage: Function, Function, Function!



Conference Chairmen: Christopher E. Attinger, MD • John S. Steinberg, DPM

Course Directors: Cameron M. Akbari, MD • Karen Kim Evans, MD • J. P. Hong, MD, PhD











Christopher E. Attinger, MD MedStar Georgetown University Hospital Georgetown University Medical Center Washington, D.C.



John S. Steinberg, DPM MedStar Georgetown University Hospital MedStar Washington Hospital Center Washington, D.C.

COURSE DIRECTORS



Cameron M. Akbari, MD MedStar Georgetown University Hospital MedStar Washington Hospital Center MedStar Heart & Vascular Institute Washington, D.C.



Karen Kim Evans, MD MedStar Georgetown University Hospital Georgetown University Medical Center Washington, D.C.



Joon Pio (JP) Hong, MD, PhD, MBA Asan Medical Center University of Ulsan

Seoul, SOUTH KOREA

INVITED FACULTY

David G. Armstrong, DPM

Southwestern Academic Limb Salvage Alliance Keck School of Medicine of University of Southern California Los Angeles, CA

Thalia A. Attinger, CRNP

MedStar Georgetown University Hospital Washington, D.C.

Jayson N. Atves, DPM

MedStar Georgetown University Hospital Washington, D.C.

Carol Deane Benedict, MD

Medstar Georgetown University Hospital Georgetown University Medical Center Washington, D.C.

Peter A. Blume, DPM

Yale New Haven Health Systems Yale School of Medicine New Haven, CT

Andrew J.M. Boulton, MD, DSc

Worldwide Initiative for Diabetes Education Manchester Royal Infirmary University of Manchester Manchester, UNITED KINGDOM

Andrea Casini, MD

Humanitas Gavazzeni Bergamo, ITALY

Ernest S. Chiu, MD

Helen L. & Martin S. Kimmel Hyperbaric & Advanced Wound Healing Center New York University Langone Health New York, NY

Paul Cooper, MD

MedStar Georgetown University Hospital Washington, D.C.

Kara S. Couch, MS, CRNP

George Washington University Hospital George Washington University Washington, D.C.

Ketan Dhatariya, MD, MS, PhD

NHS Foundation Trust Norwich, UNITED KINGDOM

Amara E. Ellis, BSN

MedStar Georgetown University Hospital Washington, D.C.

Tammer Elmarsafi, DPM

MedStar Georgetown University Hospital Washington, D.C.

Stephen R. T. Evans, MD

MedStar Health Columbia, MD

Kenneth L. Fan, MD

MedStar Georgetown University Hospital MedStar Washington Hospital Center Washington, D.C.

Roberto Ferraresi, MD

Clinica San Carlo Paderno Dugnano Milano, ITALY

Frances Game, MD

Royal Derby Hospital University Hospitals of Derby and Burton **NHS Foundation Trust** Derby, UNITED KINGDOM

Gary W. Gibbons, MD

South Shore Hospital Center for Wound Healing Weymouth, MA

Katherine J.S. Hubley, RN

MedStar Georgetown University Hospital Washington, D.C.

Byron L. Hutchinson, DPM

Franciscan Foot & Ankle Associates Burien, WA

William J. Jeffcoate, MB, MRCP

Nottingham University Hospitals Trust Nottingham, UNITED KINGDOM

Misaki M. Kiguchi, MD, MBA

MedStar Washington Hospital Center MedStar Heart & Vascular Institute MedStar Georgetown University Hospital Washington, D.C.

Paul J. Kim, DPM, MS

University of Texas Southwestern Medical Center University of Texas Southwestern Dallas, TX

Grant M. Kleiber, MD

MedStar Georgetown University Hospital Georgetown University Medical Center Washington, D.C.

Lawrence A. Lavery DPM, MPH

University of Texas Southwestern Medical Center Dallas, TX

Frank Lee Bowling, MSc, DPM, PhD, DSc

Manchester University NHS Foundation Trust University of Manchester Manchester, UNITED KINGDOM

Ho Kwong Li, MBBS, DTMH

Imperial College London London, UNITED KINGDOM

Benjamin A. Lipsky, MD

University of Washington University of Oxford Oxford, UNITED KINGDOM

David J. Margolis, MD, PhD

Perelman School of Medicine University of Pennsylvania Philadelphia, PA

David Zachary Martin, MD

Medstar Good Samaritan Hospital Georgetown University Medical Center Baltimore, MD

Nancy R. Megas, MS, CRNP

MedStar Georgetown University Hospital Washington, D.C.

Bijan Najafi, PhD

Baylor College of Medicine Rice University Houston, TX

Dennis P. Orgill, MD, PhD

Brigham and Women's Hospital Harvard Medical School Boston, MA

Helena B. Pasieka, MD

MedStar Washington Hospital Center MedStar Georgetown University Hospital Washington, D.C.

Ketan M. Patel, MD

Keck School of Medicine University of Southern California Los Angeles, CA

Amber Pennel, BSN, RN

MedStar Georgetown University Hospital Washington, D.C.

Mark E. Pollard

NYU Langone Health NYU Langone Hospitals New York, NY

Ali Rahnama Vaghef, DPM

MedStar Washington Hospital Center Georgetown University Medical Center Washington, D.C.

Venkatesh K. Raman, MD

MedStar Georgetown University Hospital MedStar Washington Hospital Center Washington, D.C.

Allen H. Roberts II, MD

MedStar Georgetown University Hospital Washington, D.C.

Peter Rubin, MD

University of Pittsburgh Medical Center Pittsburgh, PA

Michael C. Sachtleben

MedStar Georgetown University Hospital MedStar Health Washington, D.C.

Brinder Singh

MedStar Georgetown Physician Group Washington, D.C.

Niten Singh, MD

Harborview Medical Center Seattle, WA

Sarah R. Sher, MD

MedStar Georgetown University Hospital Washington, D.C.

Allen J. Taylor, MD

MedStar Washington Hospital Center Georgetown University Medical Center Washington, D.C.

Tara D. Wallace

MedStar Georgetown University Hospital Washington, D.C.

Ian P. Weston

MedStar Health Washington, D.C.

Dane K. Wukich, MD

University of Texas Southwestern Medical Center Dallas, TX

Caitlin S. Zarick, DPM

Medstar Georgetown University Hospital Georgetown University Medical Center Washington, D.C.

MEDSTAR GEORGETOWN DISTINGUISHED ACHIEVEMENT AWARD IN DIABETIC LIMB SALVAGE: BENJAMIN A. LIPSKY, MD



Dr. Lipsky is currently Professor of Medicine Emeritus at University of Washington, Seattle, where he has been on the faculty for 42 years. He was previously based at the Veterans Administration Puget Sound Medical Center where he was Chair of Infection Control, Hospital Epidemiologist, Director of the Primary Care Clinic, and directed a Wound Infection Research Clinic that conducted over 60 randomized clinical trials. He then was Visiting Professor of Medicine at the University of Oxford, and the University of Geneva. Dr. Lipsky has authored more than 300 peerreviewed publications and over 100 other medical papers and textbook chapters, as well as four books on infectious diseases and diabetic foot complications. He has been the Chair of the guideline committees on diabetic foot infections of both the Infectious Diseases Society of America and the International Working Group on the Diabetic

Foot (IWGDF) since their inception, and is a member of the Editorial Board of the IWGDF. He has been the recipient of the DFCon's Edward James Olmos award, the ADA Roger Pecoraro award, the IWGDF Karel Bakker award and the VA's Lifetime Achievement award for infectious diseases.

WWW.DLSCONFERENCE.COM WWW.DLSCONFERENCE.COM | 2

Agenda | THURDAY April 16

7:00 a.m.

LOWER EXTREMITY CADAVER WORKSHOP*

*Limited availability. T	his track is not certified for CE credit.
9:00 a.m.	Continental Breakfast
8:00 a.m.	Lecture: The Complex Wound
8:15 a.m.	Lecture: Integra Bilayer as a Recon Option
8:30 a.m.	Lecture: Skin and Muscle Flap Planning
8:45 a.m.	Lab: Application of Integra Bilayer
9:00 a.m.	Lab: Local Skin Flaps
10:00 a.m.	Lab: Local Muscle Flaps Foot
11:30 a.m.	Lab: Local Muscle Flaps Ankle/Leg
12:30 p.m.	Lunch
1:00 p.m.	Lecture: Incisional/Instillation Negative Pressure Wound Therapy
1:30 p.m.	Lab: Negative Pressure Wound Therapy with Instillation
2:30 p.m.	Lab: Incisional Negative Pressure Wound Therapy
3:00 p.m.	Adjourn





PRE-CONFERENCE ADMINISTRATIVE TRACK*

*Limited availability: additional registration fees apply This

*Limited availability; track is not certified for	additional registration fees apply. This or CE credit.
9:00 – 11:00 a.m.	Tours of MedStar Georgetown University Hospital Center for Wound Healing
1:00 p.m.	Opening Remarks Brinder Singh, Mark E. Pollard
1:15 p.m.	Starting From Scratch: The Genesis of the Georgetown Model Mark E. Pollard
1:45 p.m.	Leveraging Your Resources to Increase Productivity in the Wound Center Brinder Singh
2:00 p.m.	Regionalization of Limb Salvage and Wound Care Centers for a Health System Ian P. Weston
2:15 p.m.	Nuts and Bolts of Running a Hospital Based Wound Center Tara D. Wallace
2:30 p.m.	Break
3:00 p.m.	Optimizing Relations with Industry to Benefit Patient Care
3:15 p.m.	Case Management Done the Right Way Amber D. Pennel, BSN, RN
3:30 p.m.	Putting Together the Right Team of Providers Cameron M. Akbari, MD
3:45 p.m.	Coding for the Facility: The CEO Perspective Gary W. Gibbons, MD
4:00 p.m.	Coding for the Provider: Navigating the Insanity David Zachary Martin, MD
4:15 p.m.	30 Years of Great Patient Care and Avoiding Lawsuits Katherine J.S. Hubley, RN
4:30 p.m.	Integrating the Inpatient Care to Your Wound Care Unit Thalia A. Attinger, CRNP
4:45 p.m.	Nurse Manager: Care, Coordination, Compliance Amara E. Ellis, BSN

Adjourn

5:00 p.m.

Registration & Continental Breakfast

SESSION I: DIABETES: THE ELEPHANT IN THE ROOM

8:00 a.m.	Welcome and Introduction Christopher E. Attinger, MD; John S. Steinberg, DPM
8:05 a.m.	DFU by the Numbers: Is There Any Hope? David J. Margolis, MD, PhD
8:20 a.m.	Revascularization in the Face of Increased Comorbity Cameron M. Akbari, MD
8:35 a.m.	The Sobering Facts on DLS: What Should Our Goals Be? William J. Jeffcoate, MB, MRCP
8:50 a.m.	Have the Rules Changed? Current Consensus in Charcot Foot Management Peter A. Blume, DPM
9:05 a.m.	Unlocking the Mystery of Peripheral Neuropathy in Diabetes Andrew J.M. Boulton, MD, DSc
9:20 a.m.	Offloading Science vs Offloading Nonsense Lawrence Lavery, DPM, MPH
9:35 a.m.	Panel Discussion
10:00 a.m.	Break and Visit the Exhibits and Abstract Posters

SESSION II: IT'S COMPLICATED, VERY COMPLICATED: CARDIAC AND RENAL RISK FACTORS

10:30 a.m.	Tipping the Scale: Cardiac Impact of Diabetes Venkatesh K. Raman, MD
10:45 a.m.	Complex Renal Impact of Diabetes and its Influence on Amputation Frances Game, MD
11:00 a.m.	This Amputation Functions BETTER Than Your Salvage Christopher E. Attinger, MD
11:15 a.m.	Diabetes is NOT for Beginners. The Hard Facts of this Disease Ketan Dhatariya, MD, MS, PhD
11:45 a.m.	Frailty and Mobility Degeneration in Diabetes and DFU Bijan Najafi, PhD, M.Sc.
12:00 p.m.	Panel Discussion
12:20 p.m.	MedStar Georgetown Distinguished Achievement Award in Diabetic Limb Salvage Honoree: Benjamin A. Lipsky, MD Michael C. Sachtleben
12:30 p.m.	Lunch and Visit the Exhibits and Abstract Posters

Agenda | THURSDAY April 16, continued

SESSION III: DIABETIC FOOT OSTEOMYELITIS

A Real World Approach to Treating Osteomyelitis 1:45 p.m.

Benjamin A. Lipsky, MD

Oral vs IV Antibiotics: The Data Has Conquered the Dogma 2:00 p.m.

Ho Kwong Li, MBBS, DTMH

VIDEO A Chance to Cut is a Chance to Cure: Surgical Management of Osteomyelitis 2:15 p.m.

Peter A. Blume, DPM

Charcot and Infection in Diabetes 2:30 p.m.

Dane K. Wukich, MD

2:45 p.m. **Advanced Options in Managing Infected Joints and Hardware**

What Do Those Cultures Really Mean? 3:00 p.m.

Paul J. Kim, DPM, MS

Panel Discussion 3:15 p.m.

3:30 p.m. **Break and Visit the Exhibits and Abstract Posters**

SESSION IV: THE PATIENT CENTERED APPROACH

4:00 p.m. Workhorse Local Flaps for the Foot, Ankle and Leg

Christopher E. Attinger, MD

Nutrition, Obesity, and Activity: Death Markers in Diabetes 4:15 p.m.

John S. Steinberg, DPM

4:30 p.m. Latest Updates from the NIH NIDDK: Biomarkers for DFU

Peter Rubin, MD

Panel Discussion 4:45 p.m.

5:00 p.m. **Georgetown Limb Salvage Patient Panel**

5:30 p.m. **Welcome Reception with Exhibitors**



Agenda | FRIDAY April 17

7:00 a.m. **Registration & Continental Breakfast**

SESSION V: INFLOW, OUTFLOW, AND EDEMA

8:00 a.m. VIDEO | Evolution of Endovascular Limb Salvage for the Surgeon

Cameron M. Akbari, MD

When is it TOO Much? Managing CLI in 2020 8:15 a.m.

Roberto Ferraresi, MD

8:30 a.m. VIDEO | Can We Reliably Turn Veins into Arteries for Limb Salvage?

Andrea Casini, MD

8:45 a.m. VIDEO | Veins Are Cool Too: Surgical Management of Chronic Venous Hypertension

Misaki M. Kiguchi, MD, MBA

VIDEO | Advanced Options to Address the Neglected Lymphatic Component of Edema 9:00 a.m.

Ketan M. Patel, MD

9:15 a.m. Is the Distal Bypass Dead?

Niten Singh, MD

Panel Discussion 9:30 a.m.

10:00 a.m. Break and Visit the Exhibits and Abstract Posters

SESSION VI: PLASTIC SURGERY IS NOT OPTIONAL...IT IS ESSENTIAL FOR LIMB SALVAGE

10:30 a.m. VIDEO | Free Tissue Transfer in DLS: Lessons Learned and Best Practice

Karen Kim Evans, MD

VIDEO | Super Microsurgery for DLS 10:45 a.m.

JP Hong, MD, PhD

VIDEO | STSG: Sometimes the Simple Things are Best

Sarah R. Sher, MD

11:15 a.m. **Case Management and Critical Care of Complex Inpatients**

Allen H. Roberts II, MD

11:30 a.m. Fat Grafting for Wound Healing: Does it Have Staying Power?

Peter Rubin, MD

11:45 a.m. The Science and Practicality of Tissue Products for Wound Healing

Ernest S. Chiu, MD

12:00 p.m. **Panel Discussion**

Lunch and Visit the Exhibits and Abstract Posters 12:30 p.m.

KEYNOTE LECTURE | Prepared for Disruption? The Future of Healthcare Delivery 1:45 p.m.

Stephen R. T. Evans, MD

Agenda | FRIDAY April 17, continued

Agenda | SATURDAY April 18



SESSION VII: COMPLEX CHARCOT FOOT DEFORMITY

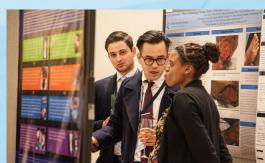
2:30 p.m.	The International Public Health Crisis of Diabetic Foot Complications David G. Armstrong, DPM
2:45 p.m.	Internal Fixation for Charcot Reconstruction Peter A. Blume, DPM
3:00 p.m.	VIDEO IM Nails for Charcot Foot Deformity Byron L. Hutchinson, DPM
3:15 p.m.	VIDEO Surgical Complications and Revision in the Charcot Foot Dane K. Wukich, MD
3:30 p.m.	Soft Tissue Coverage in the Complex Charcot Reconstruction Ketan M. Patel, MD
3:45 p.m.	Case Presentation Ali Rahnama Vaghef, DPM
4:00 p.m.	Break and Visit the Exhibits and Abstract Posters

SESSION VIII: ORAL MANUSCRIPT AND POSTER ABSTRACT PRESENTATIONS

Moderators: Jayson Atves, DPM; Tammer Elmarsafi, DPM

4:30 p.m.	Oral Abstract #1
4:40 p.m.	Oral Abstract #2
4:50 p.m.	Oral Abstract #3
5:00 p.m.	Panel Discussion
5:30 p.m.	Reception with Moderated Discussions with Poster Authors





7:00 a.m.	Registration & Continental Breakfast
-----------	--------------------------------------

SESSION IX:	WOUNDS, ATYPICAL WOUNDS, AND AMPUTATION
8:00 a.m.	Dressing for Success: Optimize Your Toolbox <i>Kara S. Couch MS, CRNP</i>
8:15 a.m.	Simple Options in Lower Extremity Reconstruction Dennis P. Orgill, MD, PhD
8:30 a.m.	Autoimmune, Coagulopathy, and the Inflammatory Factors of Non Healing <i>Carol Deane Benedict, MD</i>
8:45 a.m.	Atypical Leg Ulcers: Diagnose BEFORE You Grab the Blade Helena B. Pasieka, MD
9:00 a.m.	UK Approach of Medical vs Surgical Wound Management Frank L. Bowling, MSc, DPM, PhD, DSc
9:15 a.m.	VIDEO TMR and the Revolution in Amputation Surgery Grant M. Kleiber, MD
9:30 a.m.	The Revolution in Amputation Rehabilitation TBD
9:45 a.m.	Panel Discussion
10:15 a.m.	Break and Visit the Exhibitors and Abstract Posters

SESSION X: THE GEORGETOWN TEAM APPROACH TO THIS COMPLEX PROBLEM

0:30 a.m.	The Georgetown Data: DFU Surgical Outcomes Kenneth L. Fan, MD
):45 a.m.	VIDEO Prophylactic Surgery in DLS John S. Steinberg, DPM
1:00 a.m.	VIDEO Debridement is the Key to it All Christopher E. Attinger, MD
1:15 a.m.	VIDEO Tendon Balancing for Pressure Offloading Caitlin S. Zarick, DPM
1:30 a.m.	Orthopaedic Lessons Learned in Diabetic Foot and Ankle Surgery Paul Cooper, MD
1:45 a.m.	The Team Quarterbacks and How to Get Across the Goal Line Nancy R. Megas, MS, CRNP; Katherine J.S. Hubley, RN
2:00 p.m.	Panel Discussion
2:25 p.m.	Closing Remarks & Adjourn Christopher E. Attinger, MD; John S. Steinberg, DPM

Continuing Education Credit Information

Venue Information

COURSE DESCRIPTION

MedStar Georgetown University Hospital's *Diabetic Limb Salvage Conference* is a multidisciplinary team approach meeting that provides each member of the healthcare team with the education and resources needed to heal wounds and prevent amputations. It features a prominent international faculty that promotes the importance of a multispecialty approach in limb salvage. The course is designed for healthcare practitioners of all specialties and promotes an evidence-based approach with emphasis on take-home points, techniques, and functional outcomes. The meeting format will include didactic lectures, specialty symposia, and video surgical case demonstrations for the purpose of providing an interactive learning experience.

LEARNING OBJECTIVES

- Analyze the public health crisis of diabetic limb loss.
- Discuss the pain of sensory loss and non-compliance to care.
- Examine the options in vascular interventional technology and techniques, both surgical and endovascular.
- Promote the practice of functional limb salvage so that patients maximize their active ambulatory status.
- Navigate the complexities of biomechanics, limb salvage, the problem wound, wound based infection, preserving limb length.
- Cite the financial and social impact of diabetic limb salvage and amputation.

Additional learning objectives can be found on DLSconference.com

TARGET AUDIENCE

This conference is intended for diabetes and would care specialists, vascular surgeons, orthopaedic surgeons, podiatric surgeons, plastic surgeons, endocrinologists, family practice physicians, infectious disease specialists, cardiovascular and endovascular specialists, nurse practitioners, physician assistants, physical therapists, nurses, peripheral nerve specialists, certified diabetes educators. administrators and other members of the healthcare team involved in diabetic foot and limb salvage.

ACCREDITATION



In support of improving patient care, MedStar Health is jointly accredited by the Accreditation Council for JOINTLY ACCREDITED PROVIDER™ Continuing Medical Education INTERPROFESSIONAL CONTINUING EDUCATION (ACCME), the Accreditation

Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC) to provide continuing education for the healthcare team.

CREDIT DESIGNATION



This activity was planned by and for the healthcare team, and learners will receive 18.5 Interprofessional Continuing Education (IPCE) credits for learning and change.

CPME CREDIT INFORMATION

An application has been submitted to the Council on Podiatric Medical Education for continuing education in podiatric medicine. Please visit www.dlsconference.com for more information.

JW MARRIOTT WASHINGTON, D.C.

1331 Pennsylvania Avenue, NW Washington, DC 20004 800-393-2503

RESERVATIONS

ROOM BLOCK RATE:

\$299 (+ applicable tax) Be sure to mention "DLS" or "Diabetic Limb Salvage" when making your room reservations.

HOTEL ROOM BLOCK CUTOFF DATE:

March 25, 2020 at 5 p.m. EST

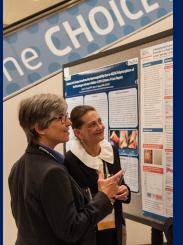
Hotel reservations may be made online or by phone. For more information, please visit:

www.DLSconference.com/hotel-travel Toll Free (US & Canada): 800-393-2503

Book today to secure your space and take advantage of the special rate!







Call for Abstracts

MedStar Georgetown University Hospital is please to invite you to submit an abstract for oral or poster presentation at the 2020 Diabetic Limb Salvage Conference. This is an excellent opportunity for you and your colleagues to share your latest work and research with world-renowned experts in the field!

Abstracts should be 250 words and must describe work with relevance to diabetic foot and limb salvage. Abstracts will be reviewed and selected based on their scientific merit and content quality. Submitted abstracts meeting the eligibility requirements will be considered for oral and poster presentation from Thursday, April 16 - Saturday, April 18, 2020, with a special poster viewing evening reception. The top 3 oral abstracts will be presented on Friday, April 17,

Visit www.DLSconference.com for additional submission criteria and deadlines. Don't miss your chance to network with, educate and expose your work to diabetic foot, limb salvage and wound healing specialists from around the

WWW.DLSCONFERENCE.COM WWW.DLSCONFERENCE.COM

Registration Information

	Unitl 4/14/20	Onsite	One Day Only
Physician	\$750	\$850	\$375
Resident/Fellow*	Complimentary	Complimentary	Complimentary
Advanced Practice Clinician	\$450	\$550	\$325
Nurse	\$450	\$550	\$325
Allied Health Professional	\$450	\$550	\$325
Medical Student*	Complimentary	Complimentary	Complimentary
Industry Professional	\$900	\$1000	N/A
Pre-Conference Administrative Track Add-on	\$75	N/A	N/A
Pre-Conference Administrative Track ONLY	\$150	N/A	N/A

*proof of status required

ONLINE REGISTRATION PREFERRED

you have questions regarding registration or do not information. We are unable to accept registrations All registrations will be confirmed by email only. If receive an email confirmation of your registration address on the registration form with your check or cancellations by telephone. If you wish to pay your registration fee by check, please download and print a registration form and mail it to the Please visit our website at www.dlsconference. within 1-2 business days, please contact us at MedStarDLS@gmail.com or 202-780-1655. com for updated program and registration

CANCELLATION POLICY

will be given after February 15, 2019. Cancellations 2020 will be subject to a 50% penalty. No refunds will not be accepted by telephone. In the unlikely Health will refund the registration fee, but is not Cancellations made in writing by February 15, event that the course is cancelled, MedStar esponsible for any travel costs.

MedStarDLS@gmail.com if you have any questions or need any additional information Please call 202-780-1655 or email

Salvage Conference <u> Diabetic Limb</u>

APRIL 16–18, 2020 | JW MARRIOTT | WASHINGTON, DC

A Paradigm Shift in Limb Salvage: Function, Function, Function!

DLS Conference

MedStar Georgetown University Hospital 3007 Tilden Street, NW, Suite 3N Washington, DC 20008



facebook.com/DLSconference



MedStar Georgetown

University Hospital