25th World Congress of Lymphology

CONGRESS PROGRAM

Sentinel Node Oncology
Foundation/Sentinel Lymph Node Working Group

CONGRESS DIRECTOR
Joseph L. Feldman, MD, CLT-LANA

CONGRESS CO-PRESIDENTS
Stanley P.L. Leong, MD
Saskia R.J. Thiadens, RN
Marlys H. Witte, MD
The 25th World Congress of Lymphology has gone mobile!

We encourage you to download our mobile guide to enhance your experience at 25th World Congress of Lymphology. You'll be able to plan your day with a personalized schedule and browse exhibitors, faculty, and general show information.

The app is compatible with iPhones, iPads, iPod Touches and Android devices.

To get the guide, choose one of the methods below:

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Welcome to San Francisco!

Dear Lymphologists, Lymphedema Activists, and Colleagues:

We would like personally to welcome you to the 25th World Congress of Lymphology. The conference promises to be our most exciting and rewarding one yet with clinicians, basic and clinical scientists, therapy professionals, and patient advocates as well as leading faculty and international guest speakers. They will all join together in discussions and presentations about some of the latest advances and share their frontline knowledge and experiences in all the various fields of interest in Lymphology, the study of the integrated lymphatic system (lymph, lymphatics, lymph nodes, and lymphocytes) in health and diseases such as body swelling, develop-mental disorders, infections (e.g., filariasis and HIV), and cancer.

The 25th World Congress of Lymphology is organized jointly by the International Society of Lymphology (celebrating 50 years and 25 Congresses since its founding), the National Lymphedema Network (celebrating 27 years), and the Sentinel Node Oncology Foundation/Sentinel Lymph Node Working Group. This collaborative approach ensures an interdisciplinary and comprehensive illumination of the lymphatic system, its pathophysiology, and state-of-the-art evaluation and treatment regimens 50 years after the founding of the field of Lymphology and the ISL. The congress promises to advance our international presence and to bring together members of each organization in full collaboration and celebration.

The opportunities for discourse and dialogue among participants make this international congress unique. The 2015 World Congress of Lymphology provides an unequaled opportunity to see old friends, meet new ones, learn about the latest advances in the many disciplines of lymphology and treatment of patients with lymphedema, interact with patients, and participate in discussions about some of the most important issues facing us in daily clinical practice. On behalf of Joseph Feldman, MD, CLT-LANA, Program Director, the Organizing Committee, and the three of us, we welcome you to the Congress and thank you for joining us in the Golden Gate State!

Sincerely,

Stanley PL Leong, MD
Congress Co-President
Chief of Cutaneous Oncology and Associate Director,
Center for Melanoma Research and Treatment
California Pacific Medical Center / Research Institute
Professor Emeritus of Surgery, UCSF
President, Sentinel Lymph Node Foundation
Executive Committee of the ISL

Saskia RJ Thiadens, RN
Congress Co-President
Founder and Executive Director, National Lymphedema Network, Inc.
ISL member

Marlys H Witte, MD
Congress Co-President
Professor of Surgery
Director, NIH-Student Research Programs
University of Arizona College of Medicine and Secretary-General of the ISL
Who We Are

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MEDICAL COMMITTEE
Marlys H. Witte, MD

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Marcella Johanson
Sarah Lackenbaur
Livia Montelone
Learning Objectives

At the conclusion of this congress, participants will be able to:

1) Understand and discuss the general anatomy, physiology and pathophysiology of the lymphatic system and its components (lymphatic vessels, lymph nodes, lymph, and lymphocytes).

2) Differentiate lymphedema from other types of peripheral edema and specifically venous edema and the different treatment options.

3) Highlight some of the latest basic and clinical research in the field of Lymphology.

4) Describe the genetics, diagnosis, and treatment options for hereditary and other primary lymphedemas.

5) Provide the opportunity to practice and enhance clinical skills related to lymphatic disorders.

6) Develop a fundamental appreciation of the burden, spectrum, and etiology of lymphatic disorders worldwide.

Accreditation Statement

Accreditation Statement: This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of The University of Chicago Pritzker School of Medicine, NorthShore University HealthSystem, and National Lymphedema Network. The University of Chicago Pritzker School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation Statement: The University of Chicago Pritzker School of Medicine designates this live activity for a maximum of 32.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses and other healthcare professionals will receive a Certificate of Participation. For information on the applicability and acceptance of Certificates of Participation for educational activities certified for AMA PRA Category 1 Credit(s)™ from organizations accredited by the ACCME, please consult your professional licensing board.

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USB Drive - We have provided you with a USB drive of the abstracts that we have received. You will see in the schedule at the end of the talks either a 3 digit number or a 3 digit-xx number. (e.g., (001) or (002-244)) The numbers before the dash, or without a dash, are as they appear on the USB drive. The numbers after the dash match the Abstract Control Number.
Acknowledgments

We would like to thank the following supporters for their generous funding.

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We would like to thank the following exhibitors for the participation. Please be sure to stop by their booths and visit each of them in the hall Monday-Wednesday.

Academy of Lymphatic Studies
ALPS South
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Sunflower Wellness
SunMed Medical Solution
Tactile Medical
The Lipedema Foundation
University of California San Francisco
WearEase Inc.
Monday, September 7, 2015

7:00 am – 8:00 am
Breakfast/ Exhibits
Grand Ballroom

8:00 am
Opening/Welcome
Congress Director, Co-Presidents and ISL President:
Joseph L. Feldman, MD, CLT-LANA
Stanley P.L Leong, MD
Saskia R.J. Thiadens, RN
Marlys H. Witte, MD
Hakan Brorson, MD

Continental Ballroom
8:15 am -10:30 am
Session 1: Lymphology Then and Now: A Historical Panorama of 50 Years of Pioneers, Questions, Discoveries and the Evolution of Lymphology in Health and Disease
Moderators/Panel: Conference Co-Presidents, International highlights from around the world

10:30 am -11:00 am Break/Exhibits

11:00 am - 1:00 pm
Session 2: Genomics/Proteomics/Clinical Syndromes
Moderators: R Erickson, S Michelini, M Vikkula, C Papendieck, F McCormack

Keynote: Raoul Hennekam, MD: "Genotype-Phenotype Correlations in Primary/Congenital Lymphatic Disorders" (25 min) (001)

The Lymphatic Phenotype in Turner Syndrome: An Evaluation of Nineteen Patients And Literature Review. Vaughan Keeley (002-244)
Mutations in VEGFR3 Signaling Pathway Explain a Third of Familial Primary Lymphedema. Mikka Vikkula (003-190)
Immunological Role of the Lymph Proteome and Degradome. Laura Santambrogio (004-65)
Actual Genetics Knowledge in Primary Lymphoedema. Sandro Michelini (005-254)
Potassium (K+) Channel Genes are Associated with the Development of Secondary Lymphedema (LE) Following Breast Cancer Surgery. Betty Smoot (006-163)
No Evidence of Locus Heterogeneity in Familial Microcephaly with or without Chorioretinopathy, Lymphedema, or Mental Retardation Syndrome. Mikka Vikkula (007-110)

Discussion/Q&A

1:00 pm - 2:00 pm Lunch Break / Exhibits

2:00 pm - 3:00 pm
Session 3: AIDS and Global Infections of the Lymphatic System
Moderators: M Witte, T Ryan, W Olszewski

Keynote: Nobel Laureate Françoise Barré-Sinoussi, PhD "Translational Science on HIV/AIDS, a Good Lesson for the Responses Against Other Emerging Diseases" (008)

Discussion/Q&A

3:00 pm - 3:30 pm Break/ Exhibits

3:30 pm - 5:30 pm
Session 4: Surgical and Non-Surgical Approaches to Treatment of Lymphatic Disorders – Clinical Protocols and Treatment Case Presentations
Panelists: M Witte, J Granzow, C Campisi, H Brorson, J Masia, T Yamamoto, F Boccardo, A Szuba, C Papendieck, W Olszewski

Discussion/Q&A

6:00 pm - 7:00 pm Reception in Exhibit Hall

Supported by BSN Jobst
### Tuesday, September 8, 2015

**6:30 am - 7:30 am**
Exercise Session for Professionals
Union Square 15/16

**7:00 am - 8:00 am**
Breakfast/Exhibits, Meet the Professor
Grand Ballroom

**8:00 am - 10:00 am**
Concurrent Sessions – Continental Ballroom Section 1-4
Session 5: Imaging of the Lymphatic System in Health and Disease I
Moderators: M Itkin, N Liu, M Witte

**Keynotes:**
- Max Itkin, MD: "New Frontier in Lymphatic Interventional Imaging" (25 min) (009)
- A Pecking, MD: "Multimodal/Fusion Imaging of the Lymphatic System" (20 min) (010)

- The Imaging Features of Chest Chylous Reflux on MSCT Lymphangiography In 151 Patients. Rengui Wang (011-226)
- Functional Lymphatic Collectors in Breast Cancer-Related Lymphedema. Ningfei Liu (012-243)
- 18 MHz Frequency Ultrasound Examination of Skin in Lymphedema. Eiko Adachi (013-303)
- Ultrasound Visualization of the Lymphatic Vessels in the Lower Leg. Hidehiko Yoshimatsu (014-109)
- The Use of Magnetic Resonance Angiography in Work-Up and Treatment of Lymphedema with Vascularized Lymph Node Transfer. Joseph Dayan (015-300)
- Relationships of Lymphoscintigraphic Findings to Quantitative Indices of Lymph Transport in Lymphedema and Lipedema. Edwin Glass (016-223)

Discussion/Q&A

**10:00 am - 10:30 am**
Break/Exhibits

**10:30 am - 12:30 pm**
Concurrent Sessions – Continental Ballroom Section 1-4
Session 7: Lymphangiogenesis/Hemangiogenesis and Vascular Growth Factors: Physiology and Pathophysiology including Cancer Metastasis
Moderators: M Dellinger, S Leong, M Hendrix, L Chen

**Keynotes:**
- Kari Alitalo, MD, PhD: "Lymphangiogenesis: Molecular and Translational Perspectives" (25 min) (025)
- Napoleone Ferrara, MD: "Hem/Lymphangiogenesis and Anti-Angiogenesis: Discoveries and Frontiers" (25 min) (026)

- Molecular Regulation of Tumor Lymphangiogenesis in Non-small Cell Lung Cancer. Michael Dellinger (027)
- New Insights into Corneal Lymphangiogenesis and Beyond. Lu Chen (028)
- Treatment of Lymphangiectasia in Mice. Donald McDonald (029)
- Lymphatics, Lymphangiogenesis and Hypertension in Humans - Is There a Link? Andrzej Szuba (030-169)

Discussion/Q&A
Tuesday, September 8, 2015

10:30 am - 12:30 pm
Concurrent Sessions - Continental Ballroom Section 5-9
Session 8: Imaging of the Lymphatic System in Health and Disease II
Moderators: R Witte, J-P Belgrado

- Dynamic Contrast MR Lymphangiography for Imaging of Lymphatic Flow Disorders. Yoav Dori (032-283)
- Deep Infrared Imaging to Identify Venous Impairment after Breast Cancer Surgery. Jean-Paul Belgrado (034-187)
- Movement of Lymph during Pneumatic Compression Treatment in Lymphedema Subjects Visualized By Near-Infrared Fluorescence Lymphatic Imaging. Melissa Aldrich (035-289)
- Enhancing Lymphatic Transport in Chronic Venous Insufficiency. John Rasmussen (036-256)
- Assessing Lymphatic Response to Cancer Treatments in Head and Neck Using Near-Infrared Fluorescence Imaging. John Rasmussen (037-72)
- Pathophysiologic Evaluation of Obstructive Lymphedema Using Indocyanine Green Lymphography. Takumi Yamamoto (038-179)
- Lymphatic Response Following Soft Tissue Reconstruction of Compound Lower Limb Fractures. Malou V. Zanten (039-224)
- Non-Invasive Imaging of Architectural and Lymphatic Changes in Mice with Regional Lymphadenectomy. Sunkuk Kwon (040-205)
- Ultrasound Elastography and Echography for Study of Hardness of Epifascial Tissues in Arm Lymphedema: Our Experience. Alberto Onorato (041-276)

Discussion/Q&A

12:30 pm - 1:30 pm Lunch Break/Exhibits

1:30 pm - 3:30 pm
Concurrent Sessions – Continental Ballroom Section 1-4
Session 9: Frontiers in Immunology and Immunotherapy, Cancer Metastasis through the Lymphovascular System, and Checkpoint Inhibitors and Adoptive Cell Therapies
Moderators: S Leong, M. Witte

- Keynote: David Jackson, PhD: "Immune Cell Trafficking and the Lymphatic System: Signals and Processes" (25 min) (043)
- Mini-Symposium: Cancer Immunotherapy – Checkpoint Inhibitors and Adoptive Cell Therapies
  - Moderators: Kevin Kim and Stanley Leong
  - Checkpoint Inhibitors in Cancer Immunotherapy Kevin Kim (044)
  - Expanded and Activated Autologous T-lymphocytes Effective to the Treatment of Cancers and Chronic Viral Infections Teruaki Sekine (045)
  - TIL Transfer Therapy Cassian Yee (046)

- Keynote: Mary JC Hendrix, PhD: "Vascular Mimicry and Cancer Metastasis" (25 min) (047)

Discussion/Q&A

1:30 pm - 3:30 pm
Concurrent Sessions – Continental Ballroom Sections 5-9
Session 10: Basic Lymphology (Anatomy and Physiology, Regional Lymph)
Moderators: M Amore, A Pissas, Y Dori, M Andrade

- Unraveling the Pathophysiology of Lymphedema. Epameinondas Gousopoulos (048-228)
- A Follow-Up Study of Collateral Pathways Established after Lymphadenectomy in Rats. Yukari Takeno (050-182)
- Three-Dimensional Tissue Engineering of Lymphatic and Blood Vascular Networks and Their Microanatomical Characteristics. Hiroshi Shimoda (051-155)
- The Occlusion Pressure of the Superficial Lymphatic Network - A Near Infrared Lympho-fluoroscopy Approach in the Upper Extremity of Healthy Volunteers. Jean-Paul Belgrado (052-7)
- Role of Lymphatics in the Cardiomyopathic Heart. Federico Quaini (053-21)
- Anatomical Study of the Lymphatic Drainage Pathways of the Mammary Region and the Upper Limb in the Axillary Region. Mauro Andrade (054-69)
- The Anatomical Study of the Digestive Lymphatic System. Alexandre Pissas (055-168)

Discussion/Q&A

3:30 pm - 4:00 pm Break/Exhibits

4:00 pm - 6:00 pm Patient Clinic (Expert Panel will lead discussion on Case Presentations of patients with lymphatic disorders including congenital, cancer, cancer treatment-related and other acquired lymphedema: Discussion and Q&A, J Feldman, L Boyle, R Hennekam, M Witte, A Szuba, K Herbst, T Ryan F Boccardo)
Wednesday, September 9, 2015

7:00 am - 8:00 am
Breakfast/Exhibits
Young Lymphologist Meeting
Grand Ballroom

8:00 am - 10:00 am
Session 11: Physical Treatments for Lymphatic Disorders II
Continental Ballroom
Moderators: M Fu, A Szuba

Breast Cancer Related Lymphedema: Redefining Phenotype, Technology, Genotype and Bi-omarkers.
Mei Fu (056-150)
Lymphedema and Fibrosis in Head and Neck Cancer Patients: A Qualitative Study. Jie Deng (057-67)
Manual Lymph Drainage: Do We Need It? Karin Johansson (058-159)
Effectiveness of Single MLD Treatment on Reduction of Limb Size and Subjective Patient Outcomes in Breast Cancer Associated Unilateral Lymphoedema. Sarah Coffey (059-293)
Observational Study on Efficacy in Treatment by CDP -with Mainly Elastic Stockings - Rather Than Bandaging Pre- Post LVA Based on Severity of Lymphatic Dysfunction in Lymphoscintigraphy. Kokichi Hashimoto (060-41)
The Effects of Three-Years Pneumatic Compression of Postinflammatory and Posttraumatic Edema of Lower Limbs. Marzanna Zaleska (062-76)
Intermittent Pneumatic Compression Pump and Gloves Invented for Hands. Wichai Ekataksin (063-301)

Discussion/Q&A

10:00 am - 10:30 am Break/ Exhibits

10:30 am - 12:30 pm
Concurrent Sessions – Continental Ballroom
Session 12: Surgical Treatment of Lymphatic Disorders I
Panel: C Campisi, H Borson, R Baumeister, F Boccardo, J Granzow

Does Liposuction of Arm Lymphedema Lead to Long Lasting Results? Hakan Borson (064-267)
Liposuction for Advanced Lymphoedema - Physical and Functional Outcomes of Liposuction Surgery in Australia. Thomas Lam (065-297)
The Facts of Our Multi-Site Lymphatic Venous Anastomosis Using Our Super- Microsurgery. Makoto Mihara (066-15)
Cumulative Patency Rate and Outcomes of Lymphatic Venous Side-To-End Anastomosis for Treatment of Breast Cancer Related Lymphedema. Jiro Maegawa (067-242)
The Treatment of Advanced Lymphedema: While The Early Bird Catches The Worm, The Late Riser Still Benefits. Corrado Campisi (068-92)
The Influence of Microsurgical Lymph Node Transplantation and Lymph-Venous Anastomoses in Women with Upper Limb Lymphedema on Limb Volume Change and Health Related Quality of Life. Nele Adriaenssens (070-191)
Investigation of the Existence of Intra-Flap Peripheral Physiological Lymphovenous Communications and Their Significance in Vascularized Lymph Node Transfers. Maria Miranda (072-L11)

Discussion/Q&A

* Union Square 22
** Union Square 23/24
*** Union Square 15/16
Session 9c: Managing Interventions for Lymphedema

Session 5: Novel Therapeutic Instructional

NCBTMB, CMT, DPT, MTC, CLT; K Ashforth, Treatment.

Session 6: Lipedema: Challenges and Treatment Options. K Herbst, PhD, MD; LA Kahn, CLT-LANA; SLA-MS, OTR, CHT, CLT-LANA * (IS5)

Session 9c: Managing Lymphedema Before, During and After Lymphedema Surgery. J Granzow, MD *** (IS9c)

Session 7: Current Measurement Tools and Clinical Outcomes. N Stout, DPT, CLT-LANA; N Piller, PhD; P Viehoff, S Ridner, MSN, RN, PhD* (IS7)

Session 8: Global Management Strategies for Underserved Areas. T Ryan, MD; A Braman ** (IS8)

Session 9d: Chances and Treatment of Lymphedema Patients. H von Zimmermann*** (IS9d)

Union Square 22

Union Square 23/24

Union Square 1/2

Union Square 15/16

Wednesday, September 9, 2015

10:30 am – 12:30 pm Concurrent Sessions – Union Square 1/2

Session 13: Rare Diseases of the Lymphatic System
Moderators: M Dellinger, C Papendieck, M Witte, D Stoa

Etiology, New Treatment, and Short-Term Outcome of Plastic Bronchitis in Patients Treated with Selective Lymphatic Duct Embolization. Yoav Dori (074-278)
The Diagnostic Value of MDCT after Direct Lymphangiography in Diffuse Pulmonary Lymphangiomatosis. Rengui Wang (075-207)
NIRF Lymphatic Imaging of Lymphangiomatosis. John Rasmussen (076-100)
Characterization of LAM Cells in Pulmonary Lymphangioleiomyomatosis. Andrzej Szuba (077-213)
Cervical Stimulation Therapy in a Case of Vascular Malformation around the Eye Sockets. Daniel Zucchi Libanore (078-88)
Treatment for Primary Lymphedema in Turner Syndrome and Noonan Syndrome. Takafumi Saito (079-233)
Thoracic Duct and Venous Anastomosis for Idiopathic Lymphangiectasia. Yukiko Yoshino (080-236)

Discussion/Q&A

12:30 pm – 1:30 pm Lunch Break/Exhibits

1:30 pm – 3:00 pm Continental Ballroom

Session 14: Lymphatic Development and Pediatric Lymphology
Keynote: Guillermo Oliver, PhD. “Development of the Lymphatic System: Models, Mechanisms, and Unanswered Questions” (25 min) (081)

Panel: C Papendieck, R Hennekam, M Dellinger

Lymphatic Malformations Caused by Somatic Activating Mutations in PIK3CA. Miikka Vikkula (082-115)
Multiple Mouse Models of Primary Lymphedema Exhibit Distinct Defects in Lymphovenous Valve Development. Xin Geng (083-119)
WNT5A Controls Morphogenesis and Differentiation of the Embryonic Lymphatic Vascular System in the Murine Dermis. Kerstin Butler (084-162)
Adipose Overgrowth in Pediatries. Cristobal Papendieck (085-219)
Cerebrospinal Fluid Circulation: Brain, Lymphatics, Glymphatics, or Both? Carlo Bellini (Not able to Attend)

Discussion/Q&A

3:00 pm – 3:30 pm Break/Exhibits

3:30 pm – 5:30 pm Continental Ballroom

Session 15: Quality of Life Issues in Lymphedema and other Lymphatic Disorders/Prevention
Moderators: S Thiadens, S Ridner

Head and Neck Lymphedema, Fibrosis, and Psychosocial Symptoms. Sheila Ridner (086-313)
A Prospective Evaluation of Lymphedema Quality of Life Following Vascularized Lymph Node Transfer. Chia-Yu Lin (087-61)
Quality of Life (QOL) and Lymphedema in Breast Cancer Patients: An Initial Assessment of Inter-national Breast Cancer Dragon Boat Racers. Sandra Rosenberg (088-194)
Lymphedema Quality of Life Inventory (Lyqli) - Investigation of Responsiveness. Preliminary Results. Pia Klemm (089-260)
Treatment of Edema Patients in a Specialized Clinic in Germany: Does Inpatient Treatment Improve Patient’s Work Ability? Winfried Schneider (090-199)
Pain Perception Among Chinese Patients with Non-Cancer Related Lower Limb Lymphedema. Kun Li (092-37)
Mind Lymphatic Flows in Your Breast Surgery? Shoji Tsunekawa (093-292)

Discussion/Q&A
Wednesday, September 9, 2015
Cancer and the Lymphovascular System: Molecules, Mechanisms, Metastasis, Sentinel Nodes, and Therapeutic Frontiers Symposium (Grand Ballroom)

7:00 am - 8:00 am Breakfast/Exhibits

8:00 am - 9:00 am Current and Emerging Technologies for Imaging Sentinel Lymph Nodes
Moderators: Alessandro Testori and Renato Valdes Olmos
8:00 am Preoperative Imaging of Sentinel Lymph Nodes Alain Pecking (094)
8:15 am Intraoperative Imaging of Sentinel Lymph Nodes for Melanoma and Breast Cancer Sergi Vidal Sicart (095)
8:30 am Intraoperative Imaging of Sentinel Lymph Nodes for Head & Neck and Prostate Cancer Renato Valdes Olmos (096)
8:45 am Discussion/Q&A

9:00 am - 10:15 am Cancer Metastasis through the Lymphovascular System
Moderators: Mary Hendrix and Stanley Leong
9:00 am The Cancer Microenvironment: Selection of the Fittest Clones to Spread Stanley Leong (097)
9:12 am Mechanical Aspects of Sentinel Lymph Node Metastasis David Nathanson (098)
9:24 am Circulating Tumor Cells and Cell free Circulating DNA as Biomarkers in Liquid Biopsy for Metastatic Melanoma David Hoon (099)
9:36 am Discussion/Q&A

9:50 am - 10:20 am Break/Exhibits

10:20 am - 11:35 am Biological and Clinical Significance of Sentinel Lymph Nodes
Moderators: Jonathan Zager and Blake Cady
10:20 am The Biological Roles of Lymph Nodes B Cady (100)
10:35 am Is Sentinel Lymph Node Micrometastasis Important in Melanoma? M Faries (101)
10:47 am Is Sentinel Lymph Node Micrometastasis Important in Breast Cancer? S Kimberg (102)
10:59 am Lymphadenectomy for Cancer? Debate: Pro: M Faries and Con: B Cady (103)
11:15 am Discussion/Q&A

11:35 am - 12:50 pm Mini-Symposium: Melanoma as a Cancer Model for Multidisciplinary Therapy
Moderators: S Leong and J Zager
11:35 am Clinical and Molecular Subgrouping of Primary Melanoma M Kashani-Sabet (104)
11:50 am The Management of In Transit Metastases J Zager (105)
12:05 pm Role of Lymph Node Dissection in Melanoma C Balch (106)
12:20 pm Adjuvant and Systemic Therapy against Metastatic Melanoma K Kim (107)
12:35 pm Discussion/Q&A

12:50 pm - 1:35 pm Role of Imaging and Radiotherapy for Cancer
Moderators: Dino Stea and Alain Pecking
12:50 pm Advances in Imaging of Cancer A Pecking (108)
1:05 pm Radiotherapy for Local, Regional and Systemic Metastases D Stea (109)
1:20 pm Discussion/Q&A

1:35 pm - 2:00 pm Horizons for Prevention and Reduction of Lymphedema Morbidity
1:35 pm Reverse Axillary Mapping S Kimberg (110)
1:45 pm LMPHA Surgical Technique F Boccardo (111)
1:55 pm Discussion/Q&A

2:00 pm - 2:30 pm Break/Exhibits

2:30 - 5:00 pm Late-Breaking and Free Papers on Cancer Metastasis, Sentinel Nodes, and the Lymphatic System
Moderators: B Pockaj and R White
Is a Wider Margin (2 cm Vs. 1cm) for a 1.0 -2.0 Mm Melanoma Necessary? Maki Yamamoto (112-LL7)
The Lymphosome Concept: Comparative Anatomy for a Better Understanding of the Sentinel Node. Hiroo Suami (113-63)
Clinical Application of Noninvasive and Nonradioactive Determination of Microscopic Lymph Node Tumor Status by Multispectral Optoacoustic Imaging. Ingo Stoffels (114-25)
Adequacy of Sentinel Lymph Node Counts with 99mtc-Tilmanocept across Multiple Solid Tumors. Nathan Hall (115-238)
Is There a Single or Are There Multiple Sentinel Lymph Nodes for Melanoma? Daniel Balkin (116-246)
Evidence for a Better Nodal Staging System for Cancers: The Clinical Relevance of Metastatic Disease Confined to the Sentinel Lymph Nodes. Michael Reintgen (117-32)
CCL21/CCR7 Axis Activate EMT Process of Cancer Cells to Accelerate Cancer Lymph Node Metastasis. Hua Tian (118-36)
Prognostic Risk Factors and Risk for Lymphedema Following Breast Cancer Treatment: A Prospective Cohort Study from a Screening Program. Alphonse Taghian (119-160)
Does Adjuvant Taxane-Based Chemotherapy Increase Risk of Breast Cancer-Related Lymphedema? Meyha Swaroop (120-161)
Subcutaneous Delivery of Docetaxel and Carboplatin Accumulate Preferentially in Lymphatic Circulation as Compared to Intravenous Delivery in Rats with Surgically Created Lymph and Venous Fistulae. Deanna Worley (121-216)
Lymphotropic Chemotherapy. Nadezhda Gariaeva (122-280)
Discussion/Q&A

5:00 pm – 5:30 pm Festschrift Lecture and Presentation of Donald L Morton Memorial Award
A Journey through the Immune System: New Insights for Cancer Immunotherapy S Leong (123)
Thursday, September 10, 2015

7:00 am - 8:00 am
Breakfast/ Meet the Professor
Continental Foyer

8:00 am - 10:00 am
Concurrent Sessions - Continental Ballroom

Session 16: Lymphedema - Diagnosis, Measurements, and Protocols I
Moderators: M Fu, S Ridner, M Van Zanten

- Patterns of Obesity and Lymph Fluid Level during the First Year of Breast Cancer Treatment: A Prospective Study. Deborah Axelrod (125-311)
- The Prevalence of Chronic Lower Limb Oedema (CLOO) in Multiple Sclerosis (MS). Vaughan Keeley (126-237)
- Increased Risk for the Development of Lymphedema in Lower Limb Trauma with Extensive Soft Tissue Loss. Malou Van Zanten (127-287)
- Head and Neck Cancer Lymphedema and Fibrosis and Physical Symptoms. Sheila Ridner (128-314)
- Quality of Life and Related Factors in Patients with Breast Cancer Related Lymphedema. Aysegul Yaman (129-L7)
- Prospective Lymphedema Surveillance in a Clinic Setting. Janet Chance-Hetzler (130-196)
- ICF Core Sets for Lymphedema: Guidelines for Describing the Patient. Peter Viehoff (131-124)
- The Impact of Compliance on Outcomes: Results of a Trial of Intermittent Multi-chambered Pneumatic Compression. Neil Piller (133-281)

Discussion/Q&A

8:00 am - 10:00 am
Concurrent Sessions - Imperial A

Session 17: Lipedema
Keynote: K Herbst (25 Min) (134)
Panel: S Michellini, A Szuba, LA Kahn

- Lipedema, Diagnosis and Treatment According to the New Dutch Guideline (2014). A.A. Hendrickx (135-L10)
- Lipedema - A Common Syndrome in a Specialized Clinic? Winfried Schneider (136-193)
- Lipedema Can Be Life-Threatening: Increased Rates of Suicide Attempts, Depression, and Eating Disorders among Women with Lipedema. Josef Stutz (137-L55)
- Parrots Digital Angiosterrometre for Classifying Lipoedema Distinct From Lymphoedema. Mark McEwen (138-151)
- Fatty Acid Change in Lymphedema after Treatment. Moriya Ohkuma (139-126)

Discussion/Q&A

8:00 am - 10:00 am
Concurrent Sessions - Imperial B

Session 18: Surgical Treatment Of Lymphatic Disorders II
Moderators: H Brorson, T Yamamoto, F Boccardo, J Masia, J Granzow, W Olszewski

- Surgical Management of Primary Lymphedema - Chinese Experience. Ningfei Liu (140-60)
- True Pathophysiology of Secondary Lymphedema And New Strategy Of Treatment. Makoto Mihara (141-166)
- Can Liposuction Remove Lymphedema Induced Adipose Tissue Hypertrophy in Elephantiasis of the Leg? Hakan Brorson (142-269)
- Laparoscopic Free Omental Lymphatic Flap for the Treatment of Lower Extremity Lymphedema. Alexander Nguyen (143-221)
- Combined Surgical Treatment for Severe Leg Lymphedema. Katsunori Takagi (144-186)
- Lymphatic Microsurgical Preventive Healing Approach (LYMPHA) for Primary Prevention of Breast Cancer-Related Lymphedema. Sheldon Feldman (146-210)
- “Single Site” Lymphatic Venous Anastomoses in the Treatment of Peripheral Lymphedema: Rationale and Clinical Experience. Corrado Campisi (147-97)
- Indication of Lymphatico-Venous Anastomosis for Primary Lower Limb Lymphedema. Hisako Hara (148-154)
- Combined Surgical Treatment for Genital Lymphedema and Lymphorrhea. Yui Nakayama (150-239)

Discussion/Q&A

10:00 am - 10:30 am Break
Thursday, September 10, 2015

10:30 am - 12:30 pm
Concurrent Sessions - Continental Ballroom

**Session 19: Chylous and Non-Chylous Syndromes: Mechanisms, Diagnosis, and Treatment**
*C Campisi, F Boccardo, M Itkin, C Papendieck, Y Dori, M Witte*

Thoracic Duct and Chylous Disorders: The Key Role of the Anatomy on the Clinical and Surgical Treatment. *Miguel Amore* (151-312)
Chyloperitonoeum: Diagnostic and Therapeutic Options. *Sara Dessalvi* (152-153)
Waldmann Disease with Chylous Reflux and Primary Lymphedema, in Pediatrics. *Lucrecia Barbosa* (154-277)
The Value of MSCT Following Direct Lymphangiography to Patients with Intestinal Lymphangiectasia. *Hai-Liang Wei* (155-286)

Discussion/Q&A

10:30 am - 12:30 pm
Concurrent Sessions - Imperial A

**Session 20: Lymphedema and Lymphatic-Related Free Papers I**
*Moderators: S Michelini, M Fu*

Lipofilling of the Axilla to Reduce Secondary Lymphedema after Axillary Lymph Node Dissection. *Liesbeth Vandermeeren* (159-LL23)
Demonstrating the Clinical Utility of L-Dex® Measurements in Assessing Breast Cancer Related Lymphedema. *Alison Laidley* (160-LL14)

Measurement of Lymphedema: Pythagoras vs Archimedes vs High-tech. *Jean-Baptiste Valsamis* (162-99)
Synthetic Crsph-1Lyve-1 Ligands Increase Lymphatic Fluid Drainage in Edema-Related Diseases. *Jung Huang* and *Imran Shaikh* (164-LL12)

Lymphedema - Experience from a Tropical Country. *Shashi Gogia* (165-117)
New Method for Detection of Dormant Bacteria in Lymphematous Tissues. *Waldermar Olszewski* (166-94)

Discussion/Q&A

10:30 am - 12:30 pm
Concurrent Sessions - Imperial B

**Session 21: Lymphedema – Diagnosis, Measurements, and Protocols II**
*Moderators: T Ryan, M Andrade*

Volumetry Versus Lymphedema Index: Importance of Body Type-Corrected Lymphedematous Volume Evaluation. *Hidehiko Yoshimatsu* (170-181)
Does Tissue Dielectric Tissue Constant (TDC) Provide a Solution for Midline Oedema Assessment? *Jane Wigg* (171-164)
Comparison of Multi Frequency Bioimpedance with Perometry for the Early Detection of Lymphoedema after Axillary Node Clearance (ANC) for Breast Cancer. *Katie Riches* (173-201)

Tissue Dielectric Constant and Bioelectrical Impedance Spectroscopy in the Assessment of Early Breast Cancer Related Lymphedema with Mild or Moderate Skin Swelling. *Tapani Lahtinen* (174-271)
The Axillary Vein Compression Test. *Jean-Paul Belgrado* (175-5)
Worse and Worse Off: The Impact of Lymphoedema on Women’s Work, Career and Financial Status. *John Boyages* (176-LL3)

Discussion/Q&A

12:30 pm - 1:30 pm Lunch Break

1:30 pm – 3:00 pm
Concurrent Sessions – Continental Ballroom

**Session 22: Education In Lymphology/Networks**
*Moderators: S Thiadens*

Postgraduate Lymphology Training in Europe. *Catarina Hadamitzky* (177-45)
Update on the American Lymphedema Framework Project’s Systematic Reviews: Maintaining Best Practices Through Evidence-Based Lymphedema Treatment Guidelines. *Jane Armer* (178-91)
The Importance of Awareness and Patient Education on Breast Cancer-Related Lymphedema. *Pinar Borman* (180-L5)
The International Compression Questionnaire: Reliability and Validity. *Sarah Thomis* (181-LL22)

Discussion/Q&A
Thursday, September 10, 2015

1:30 pm - 3:00 pm
Concurrent Sessions - Imperial A
Session 23: Lymphedema And Lymphatic-Related Free Papers II
Moderators: L Chen, M Amore

Effects of Lymphatic Insufficiency on Inflammatory Bowel Disease and Progression to Colorectal Cancer in an Experimental Mouse Model. Sarah Daley (182-LL4)
Transfusion of Lymph. Ivan Yarema (183-51)
Synergic Effect of Erysipelas on Aggression to the Lymphatic System in Patients Submitted to the Excision of a Saphenous Vein. Jose Maria Pereira De Godoy (184-80)
Mobilization of Body Fluids in Primary Lymphedema during Five Days of Intensive Treatment. Henrique Jose Pereira De Godoy (185-114)

Discussion/Q&A

3:00 pm - 3:30 pm Break

3:30 pm - 5:00 pm
Continental Ballroom
Session 24: ISL Consensus Document
Moderator: M Bernas

6:00 pm - 10:00 pm Gala Dinner excursion with Music by Alice and the Wave and Awards/Prizes/Special Recognition on San Francisco Bay

Buses will depart from the Hilton Union Square at 5:15 pm.
Friday, September 11, 2015

7:00 am – 8:00 am Breakfast
Continental Foyer

8:00 am – 10:00 am
Continental Ballroom
Session 25: Lymphology – The Next 50 years: Research/Action Agenda: Lingering Questions
Moderator: M Witte, S Thiadens, S Leong

Discussion/Q&A

10:00 am – 10:30 am Break

10:30 am ISL General Assembly

12:30 pm Congress Adjourns
American Lymphedema Framework Project Open-Space Stakeholder Meetings: Aiming to Shape the Future of Lymphedema Care in the Unites States. (P1-90) Jane Armer
Lymphedema: Italian National Guidelines. (P2-257) Sandro Michelini
Pilot Study on Proprioception Sense in Lymphedema Affected Upper Limbs. (P3-203) Marco Cardone
The Contribution to the Modern Theory of Lymphangion by the Perm School of Lymphology. (P5-279) Nadezhda Gariaeva
Lymphedema Program: Cancer Institute of Greenville Health System (CI-GHS). (P6-17) Kathie Beldon
Knowledge Translation in Patient Care with Breast Cancer Lymphedema: Case of Chile. (P7-309) Paulina Araya
Developing the Role of Occupational Therapy in the Care of Individuals with Head and Neck Cancers and Case Studies. (P8-LL26) Mahjabeen Aftab Hashmi
Two Year Follow-Up of Breast Edema Following Breast Cancer Surgery and Radiotherapy. (P9-241) Karin Johansson
Health Related Quality of Life on Patients with Lymphedema in Various Anatomical Regions. (P10-209) Pia Kiernan
Limb Volume Trajectories after Breast Cancer Treatment (P11-211) Judy Mastick
Motivational Interviewing: Evidence-Based Communication to Increase Adherence (P12-208) Elizabeth McMahon
Evolution of Depression in a Group Of Patients with Breast Cancer-Related Lymphedema Treated by a Transdisciplinary Approach (P13-143) Karina Paludetto Lopes
Evolution of Anxiety in a Group of Patients with Breast Cancer-Related Lymphedema Treated by a Transdisciplinary Approach (P14-170) Karina Paludetto Lopes
Lymphology in Japan. (P15-152) Moriya Ohkuma
The Clinical Characteristics of Breast Cancer Survivors Referring to Lymphedema Unit of a Tertiary Hospital. (P16-6) Aysegul Yaman
Comparison of Mobilization of Fluids in the Intensive Treatment of Primary and Secondary Lymphedema. (P17-127) Maria de Fatima Guerreiro Godoy
Fluid Variation in the Intensive Treatment of Legs with Primary and Secondary Lymphedema. (P18-137) Maria de Fatima Guerreiro Godoy
Pilot Study on the Association of Compression Mechanisms to Maintain the Results of Lymphedema Treatment Over One Year. (P19-141) Maria de Fatima Guerreiro Godoy
Complete Occupational Rehabilitation as a Goal in the Treatment of Breast Cancer-Related Lymphedema. (P20-171) Maria de Fatima Guerreiro Godoy
Evaluation of Impedance, Reactance and Alpha Angle in the Intensive Treatment of Lymphedema. (P21-38) Jose Maria Pereira de Godoy
Reduction of Pain And Edema of the Legs by Walking Wearing Elastic Stockings. (P22-40) Jose Maria Pereira de Godoy
Clinical Lymphedema Immediately after Breast Reconstruction Surgery. (p24-49) Jose Maria Pereira de Godoy
"You're Naked, You're Vulnerable": Challenges to Sexual Well Being in Women with Upper or Lower Limb Lymphedema. (P25-LL25) Kerry Sherman
Surgical Adaptation in Clinical Rehabilitation Due to Disability Caused by Elephantiasis. (P26-172) Henrique Jose Pereira de Godoy
Observational Study on Efficacy of Treatment of Lower Extremity Lymphedema Using Elastic Stockings for the Intensive Drainage Period (Phase1) in Two-Phase Complex Decongestive Physiotherapy-Case Study. (P27-156) Nanae Matsuda
Compression Intervention in Breast Cancer Related Lymphedema. (P28-165) Katarzyna Ochalek
Pressures Exerted By Circular or Flat Knitted Arm Sleeves During Simulated Muscular Contractions. (P29-215) Frédéric Pastouret
Circaid®: Pressures Reproducibility With BPS® Guide Card (Built-In Pressure System). (P30-217) Frédéric Pastouret
Effectiveness of Arm Night Sleeve for the Treatment of Secondary Breast Cancer Lymphedema. (P31-131) Alessandro Toccafondi
Choices Made by Skin Therapist in Treatment of Secondary Lymphedema after Breast Cancer. (P32-285) Esther Reefman
Lymphatic Yoga - An Affordable Self-Management Care in Chronic Diseases. (P33-298) Edely Wallace
Lymphatic Yoga - A Relife for Autoimmune Conditions? (P34-LL24) Edely Wallace
Hydromechanics of Tissue Edema Fluid Under Compression Bandages. (P35-93) Marzanna Zaleska
Use of Excess Volume as the Standard in Reporting Lymphedema Limb Size. (P36-177) Hakan Brorson
Measuring Treatment Outcome and Follow-Up. How We Do It! (P37-262) Hakan Brorson
Limb Measurement Software for Lymphoedema Patients. (P38-101) Shashi Gogia
Medical Evaluation of 'Total Body Swelling'. (P39-58) Kenley Schmidt
The Addition of Exercise to Self-Lymphatic Drainage Improves BCRL Related Symptoms. (P40-56) Yoko Aringaga
Mechanical Lymph Drainage in Chronic Plantar Fasciitis. (P41-105) Stelamarys Barufi
Effects of Manual Lymphatic Drainage. (P42-64) Jung Ok Oh
A Clinical Audit to Demonstrate the Use of a Negative Pressure Device in a Mld Sequence to Improve Both Clinical and Patient Perceptron Treatment Outcomes. (P43-229) Justine Whitaker
The Benefit of One Session on a Negative Pressure Device When Used in a Manual Lymphatic Drainage Sequence in Primary Lymphoedema. (P44-235) Justine Whitaker
Abdominal Lymphatic Pump Technique to Decrease Upper Extremity Lymphedema. (P45-L12) Julie Wong
Mechanical Lymph Drainage in the Treatment of Breast Cancer-Related Lymphedema. (P46-140) Daniel Zucchi Libanore
The Unit of Treatment of Edema: A New and Social Concept. (P47-214) Alexandre Pissas
Intensive Treatment Strategy in Respect to Major Deformities in Elephantiasis. (P48-86) Karina Paludetto Lopes
Transdisciplinary Approach to Treatment of Patients with Breast Cancer-Related Lymphedema. (P49-144) Karina Paludetto Lopes
Performance of Self-Care in Female Cancer Survivors with Secondary Lymphedema: Frequency and Predictors. (P51-53) Helene Lindquist
Lower Extremity Lymphedema Management of a Patient with Congestive Heart Failure. (P52-9) Virtu Arora
The Prevalence of Winged Scapula (Scapula Alata) after Breast Cancer Treatment. (P53-89) Stelamarys Barufi
Is There Any Chance to Stop Using Garments for Patients with Breast Cancer Related Lymphedema? (P54-57) Roser Belmonte
The Efficacy of Complex Decongestive Therapy in Breast Cancer-Related Lymphedema. (P55-L4) Pinar Borman
From The Origin of Bad Lymph, Ankle Arthropathy, to Diverse Symptomatology, Easily Aggravated by Animal-Based Diet. (P56-252) Wichai Ekataksin
How a Lymphologist Can Cure Series:II. Chronic Pruritus. (P58-261) Wichai Ekataksin
Intensive Treatment of Arm Lymphedema after Breast Cancer. (P60-39) Maria de Fatima Guerreiro Godoy
Lymphatic Drainage Technique of the Lower Extremities Shows Reduction of Edema in the Upper Limbs in Children with Lymphedema. (P61-50) Maria de Fatima Guerreiro Godoy
Effect of Exercising Utilizing a Device Along with an Arm Compression Sleeve in Reducing Lymphedema. (P62-78) Maria de Fatima Guerreiro Godoy
Grosgrain Stockings as Monotherapy in the Treatment of Lower Leg Lymphedema. (P63-79) Maria de Fatima Guerreiro Godoy
Adaptation of Lymph Therapy for Mentally Challenged Patients: Case Report. (P64-83) Maria de Fatima Guerreiro Godoy
Control of Lymphedema of the Lower Limbs with Grosgrain Stocking as Monotherapy. (P65-113) Maria de Fatima Guerreiro Godoy
Lymphology vs Mental Diseases: Schizophrenia Bipolar or Maniaco-Depression How Plasma Proteins Produce the Condition at the Brain Cells Level of Chemical Imbalance Causing Mental Diseases. (P66-28) Dr Jo
Use of Cutimed Select Total Contact Cast and Jobst Advanced Wound Dressing to Treat Diabetic Foot Ulcer in the Setting of Lymphedema and Morbid Obesity. (P67-176) Suzie Ehmman
Modest Diuretics Strikingly Augments Twisting Tourniquet© Technique Therapeutic Effectiveness. (P68-234) Narumon Chanwimalueang
PRO-BNP and Therapeutical Options in Lower Limbs Edema in Elderly Subjects. (P70-263) Sandro Michelini
Linforoll - A New Massaging Device, Hydromechanics of Edema Fluid. (P71-96) Waldemar Olszewski
Can Early Intervention with Physiotouch®'s Mechanical Leverage in the Functioning of Initial Lymphatic Vessels Help Promote Long Term Physiological Homeostasis as Well as Fluid Volume Reduction in a Locally Impacted Lymphatic Territory? (P72-294) Julia Osborne
Implementation of a Lymphedema Screening Clinic Utilizing Bioimpedance Spectroscopy in a Community Based Accredited Cancer Center. (P73-274) Kymbley van Ysseldyk
Model Guide for Patients. (P74-166) Lucia Wachowicz
Evaluation of the Therapeutic Efficacy of Clindamycin in Patients Hospitalized with Erysipelas. (P75-77) Jose Maria Pereira de Godoy
Maintenance of Results after Normalization of Grade II Lymphedema. (P76-81) Jose Maria Pereira de Godoy
Is It Possible to Normalize Lymphedema in Klippel-Trenaunay Syndrome? (P77-103) Jose Maria Pereira de Godoy
Penile Grosgrain Compression Mechanism Associated with Elastic Bandage Around the Scrotum. (P78-104) Jose Maria Pereira de Godoy
Pilot Study Using Bioimpedance to Evaluate Lymphedema Treatment of the Arm with Diosmin and Micronized Hesperidin. (P79-116) Jose Maria Pereira de Godoy
Developments in the Treatment of Lymphedema of the Lower Limbs in the Last Two Years at the Clínica Godoy. (P80-145) Jose Maria Pereira de Godoy
Therapeutic Strategy in the Retraction of Skin During the Treatment of Major Deformities in Elephantiasis. (P81-84) Henrique Jose Pereira de Godoy
Surgical Treatment for Primary Lymphedema with Monomac Syndrome. (P82-258) Shuji Yamashita
Transport Index Score in Lymph Node Transfer for Lymphedema Patient. (P83-253) Kiyoshi Yamada
Whole Body Lymphangioscintigraphy and SPECT-CT In Neonate, Infants and Small Children with Chylous Reflux Syndromes. (P84-LL5) Sean Behan
Magnetic Resonance Imaging Shows Increased Content of Epifascial and Subfacial Fat and Muscle Tissue/Water in Arm and Leg Lymphedema. (P85-273) Hakan Brorson
Dynamic Lymphoscintigraphy. (P86-248) Piero Eleuteri
Pattern of Fluid Accumulation in the Lymphedematous Arm Revealed by Magnetic Resonance Imaging (MRI). (P87-184) Etsuko Fujimoto
Correlation Between Indocyanine Green (ICG) Patterns and Real-Time Elastography Images in Lower Extremity Lymphedema Patients. (P88-33) Nobuko Hayashi
Preoperative Ultrasound Detection Technique of Lymphatic Vessels For LVA. (P89-132) Akitatsu Hayashi
How to Make an ICG Fluorescence Imaging Device for Lymphography. (P90-34) Daisuke Mito
Lymph Circulation in the Breast after Radiotherapy and Breast Conservation. (P91-24 Leif Perbeck
Advanced Lymphatic Imaging Modalities to Delineate and Treat Protein-Losing Enteropathy (PLE) in Surgically Corrected Complex Congenital Heart Disease (CHD). (P92-LL21) Tiffany Pouldar
NIRF Lymphatic Imaging in a May-Thurner Patient with Contra lateral Lymphedema. (P93-266) John Rasmussen
Classification of Primary Lymphedema Based on Indocyanine Green (ICG) Lymphography. (P94-180) Takumi Yamamoto
Can Liposuction Decrease Incidence of Erysipelas in Patients with Postmastectomy Arm Lymphedema. (P95-275) Hakan Brorson
The History and Future of the Surgical Treatment of Lymphedema. (P96-240) Isao Koshima
Vascularized Lymph Node Transfers for Treatment of Upper Extremity Lymphedema after Breast Cancer Therapy. (P97-158) James Kotick
A Randomized Study for Lymphocele and Lymphorrhea Control Following Inguinal and Axillary Radical Lymph Node Dissection. (P98-43) Maria-Laure Matthey-Gie
Surgical Treatment of Recidivist Lymphedema (P99-L1) Sandro Michelini & Constantino Eretta
Lymphedema Meeting on Assimilation of Conservative snd Surgical (MACS) Treatment in Japan. (P100-14) Makoto Mihara
Postinfectious and Postsurgical Lymphedema of Lower Limbs- Replacement of Obliterated Lymphatic Collectors by Silicone Tubing Implants. (P101-74) Waldemar Olszewski
Prophylactic LVA after Mastectomy. (P103-231) Takafumi Saito
Lipofilling of the Axilla to Reduce Secondary Lymphedema after Axillary Node Dissection. (P104-185) Liesbeth Vandermeeren
Efferent Lymphatic Vessel Anastomosis (ELVA) for Subclinical Lymphedema. (P105-178) Takumi Yamamoto
Efficacy of Lymphovenous Bypass for Stewart-Treves Syndrome. (P106-249) Shuji Yamashita
Diagnosis and Treatment of Intraoperative Damage of Lymphatic Vessels. (P107-52) Ivan Yarema
Perceived Barriers to Adherence to Breast Cancer-Related Lymphedema Self-Management. (P108-L1) John Boyages
Psychosocial Factors Associated with Psychological Distress in Women with Breast Cancer-Related Lymphedema. (P110-L2) John Boyages
Can This be Lymphedema? (P113-174) Suzie Ehmann
Complex Decongestive Therapy: Reduces Limb Volume, But What do Patients Think? (P114-197) Anna Finnane
The Patient in the Lead, Monitoring Lymphedema, the Role of the Patient and the Professional. (P115-L2) AA Hendrickx
The Lymphedema Intensive Drainage Treatment Which Changes the Compression Stocking Based on Lymph-Vessel Functional Evaluation. (P116-220) Ayako Tosaki
Physical Therapy Forum of Lymphedema Treatment. (P117-173) Lucia Wachowicz
The Short Term Efficacy of Complex Decongestive Therapy in a Muscular Dystrophy Patient with Lower Extremity Lymphedema. (P118-L8) Aysegul Yaman
A Protocol for Pneumatic Compression Home Use. (P119-70) Karen Ashforth
Group Care for Lymphedema. (P120-148) Arun Gogia
Degree of Satisfaction to Perform Self-Care Using Pneumatic Pump in a Home Setting Following Lymphedema. (P121-42) Kerstin Hallestrand
Anatomical Deformation of Tissue in Lymphedema- Fluid Channel Formation, Effect of Intermittent Pneumatic Compression. (P122-75) Marzanna Zaleska
A Novel Clinical Test for Setting Intermittent Pneumatic Compression Parameters Based on Edema Fluid Hydromechanics in the Lymphedematous Calf. (P123-95) Marzanna Zaleska
Evolution of the Skin in the Rehabilitation of a Patient with Elephantiasis Undergoing Intensive Treatment. (P124-85) Henrique Jose Pereira de Godoy
Impedance and Reactance in the Intensive Treatment of Secondary Lymphedema. (P125-106) Henrique Jose Pereira de Godoy
The Use of Bioimpedance to Assess Mobilization of Body Fluids During Five Days of Intensive Treatment for Secondary Lymphedema. (126-107) Henrique Jose Pereira de Godoy
Maintenance of Leg Size after the Normalization of Edema Using Elastic Stockings for Four Months. (P127-111) Henrique Jose Pereira de Godoy
Lymphoscintigraphic Evaluation of Mechanical Lymphatic Therapy Using The Ragodoy® Device: Case Report. (P128-128) Henrique Jose Pereira de Godoy
Measurement of the Phase Angle in the Treatment of Lymphedema. (P129-136) Henrique Jose Pereira de Godoy
Open Primary Vascular Malformation Deforming the Leg and Part of Abdomen Involving the Lymphatic System (P130-142) Stelamarys Barufi
Clinical Characteristics of Children with Lymphatic System Disorders (P131-10) Aysen Bingol
Aligned Nanofibrillar Collagen Scaffolds Guide Lymphangiogenesis or Treatment of Secondary Lymphoedema. (P132-44) Catarina Hadamitzky
Lymphoedema: Mobile Platform for at Home Observation, Early-Detection and Management of Lymphoedema. (P133-LL11) Kyungmin Han

The Role of Sentinel Lymph Node Biopsy in Treating Children with Controversial Pigmented Skin Lesions. (P134-31) Lauren Kerivan

Doxycycline Use in Lymphatic and Lymphovenous Treatment of Children with Malformations in the Head and Neck Area. (P135-198) Dmitrii Komelyagin

Treatment Experience of a Child with Extensive Lymphatic Malformations in Head and Neck. (P136-204) Dmitrii Komelyagin

The Stewart-Treves Syndrome (Lymphangiosarcoma) and Lymphangitis (Dermo-Ipodermitis Complicated Lymphedema) Represent Two Faces of the Same Immunodeficiency Connected to Chronic Lymphostasis of the Tissue. (P137-265) Alberto Maccio

Real-Time Lymph Flow in the Superficial Lymph Vessels of the Lower Limb by Intermittent Pneumatic Compression in the Healthy Volunteers and Lymphedema Patients. (P138-245) Jiro Maegawa

A New Method to Detect Lymphatic Vessels - A Preliminary Study to Use an Extra Thin Guide Wire. (P139-200) Shinobu Matsubara

On the Reliability of Tonometry: A Pilot Study of Inter-Rater Consistency and Related Psychosocial Factors Underlying the Formulation of Tonometric Judgments. (P140-251) Sandro Michelini

Bacteria are Present in Subcutaneous Tissue in Obstructive Lymphedema - Long Term Penicillin Prevents Their Proliferation and Subsequent Host Response. (P141-LL19) Waldemar Olszewski

Skin and Subcutis Structure in Obstructive Lymphedema - Lympho-Fibro-Adipo-Edema. (P142-LL20) Waldemar Olszewski

Lymphatic Transport Pathway in Small Fish. (P143-225) Erina Saito

The Chondroepitrochlearis Muscle: A Rare Cause of Axillary Vein Thrombosis and Lymphedema. (P144-188) Liesbeth Vandermeer

Using Tissue Dielectric Constant (TDC) to Determine Three Skin Types. (P145-133) Jane Wigg

Correction of Endothelial Dysfunction in Patients with Lymphedema of the Lower Extremities Using the Kinesio Taping Method. (P146-102) Tatiana Aphkanova

Not Able to Present in Person

Thoracic Duct Lymph Cells Mitoses of Immature Rabbits. (PNP1-27) Alexander Kuznetsov
Disclosure Declarations

As a provider accredited by the ACCME, The University of Chicago Pritzker School of Medicine, requires everyone who is in a position to control the content of an education activity to disclose all relevant financial relationships with any commercial interest. The ACCME defines "relevant financial relationships" as financial relationships in any amount, occurring within the past 12 months, including financial relationships of a spouse or life partner, which could create a conflict of interest.

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Faculty Presenters:
The following would like to disclose:

Melissa Aldrich is an investigator for Lympha Press. Will be discussing the off-label use of indocyanine green, a fluorescent dye which is still investigational, or not labeled for use, by the FDA.

Kari Alitalo owns stock options in Herantis Pharma.

Karen Ashforth has received consulting fees for Lympha Press USA.

Charles Balch has received fees for being a consultant and speaker on behalf of Merck. Has received fees for being a consultant for Amgen.

Narumon Chanwimalueang spouse has a financial interest in the device Twisting Tourniquet.

Suzie Ehmann has received fees for key opinion leader and speaking on behalf of Jobst, received fees for consulting for Lohmann & Rauscher, and received fees for speaking and consulting for SunMed.

Mark Faries has received fees for consulting on behalf of Amgen, Astellas Pharma, Inc. and Myriad Genetics, Inc.

Arun Gogia is an owner of AMLA MEDIQUIP.

Catarina Hadamitzsky owns stock options in Fibralign Corporation. Will be discussing that during investigation they used aligned collagen nanofibers to assess the effects of this biomedical product (BioBridge) in our secondary lymphoedema pig model which is still investigational, or not labeled for use, by the FDA.

Jung Huang has an equity position in Auxagen Inc.

Kevin Kim has received fees for being a speaker for Bristol Myers Squibb and Merck. Has received fees for being a speaker/advisor on behalf of Genentech. Will be discussing he investigational use is a combination of ipilimumab and nivolumab which is still investigational, or not labeled for use, by the FDA.

Tapani Lahtinen has received fees for being a research manager, and board member of Delfin Technologies. Will be discussing comparison of tissue dielectric constant technique and electrical bioimpedance in the detection of early lymphedema, which is still investigational, or not labeled for use, by the FDA.

Alison Laidley has received fees for being a speaker on behalf of Impedimed.

Sandro Michelini will be discussing Mechanical device for lymphdrainage so called linforol, which is still investigational, or not labeled for use, by the FDA.

Neil Piller has received grant to conduct research on behalf of Tactile.
John Rasmussen has received fees for being a consultant on behalf of NIRF Imaging. Will be discussing near-infrared fluorescence lymphatic imaging is an investigational technique which utilizes the off-label, intradermal injection of indocyanine green, which is still investigational, or not labeled for use, by the FDA.

Pamela Scarborough is a salaried employee of American Medical Technologies.

Eva Sevick-Muraca has received grants to perform research on behalf of Tactile & Kimberly Clark; is a speaker on behalf of Klose; and has ownership in NIRF imaging. She will be discussing NIH, State of Texas, and Tactile Medical Systems Research in which she will describe IRB and FDA investigational use of an imaging device and off-label administration of an imaging agent, Indocyanine green, to image lymphatics in human subjects, which is still investigational, or not labeled for use, by the FDA.

Nicole Stout has served on the BSN Advisory Board.

Alessandro Toccafondi has received educational fees on behalf of Thuasne Group, Levallois-Paris.

Sergi Vidal-Sicart will be discussing potential applications in different tumor, which is still investigational, or not labeled for use, by the FDA.

Hans von Zimmermann has received fees for being a speaker on behalf of BSN.

Jane Wigg has received fees for being Innovations Manager for Haddenham Healthcare.

Deanna Worley will be discussing subcutaneous delivery of two commonly used chemotherapeutics (carboplatin and docetaxel) with discussions limited to the rat model. These two chemotherapeutics are commonly delivery intravascularly in humans; carboplatin is delivered intracavitary as well as intravascularly in dogs, a species she works with predominately. These are still investigational, or not labeled for use by the FDA.

Maki Yamamoto has received fees for consulting on behalf of Castle Bioscience.

Jonathan Zager has received fees for serving on the advisory board for Amgen; has performed trials thru grant funding for Provegetus, and will be discussing TVEC PHASE III and PV-10 PHASE II, which are still investigation, or not labeled for use, by the FDA.

The following faculty/poster presenters have no financial disclosures:

Eiko Adachi
Nele Adriaensens
Mahjabeen Aftab Hashmi
Jessica Alcorso
Miguel Amore
Mauro Andrade
Tatiana Apkhanova
Paulina Araya
Yoko Arinaga
Jane Armer
Virtu Arora
Deborah Axelrod
Daniel Balkin
Maria Barbosa
Françoise Barré-Sinoussi
Stelamarys Barufi
Ruediger Baumeister
Sean Behan
Kathie Beldon
Jean-Paul Belgrado
Carlo Bellini
Roser Belmonte
Michael Bernas
Aysen Bingol
Francesco Boccardo
Pinar Borman
Robyn Box
John Boyages
Ashley Braman
Håkan Brorsen
Kerstin Buttler
Blake Cady
Corrado Campisi
Corrado Campisi
Marco Cardone
Janet Chance-Hetzler
Lu Chen
Bruno Chikly
Sarah Coffey
Sarah Daley
Joseph Dayan
An De Groef
Michael Dellinger
Jie Deng
Sara Dessalvi
Nele Devoogdt
Robert Dinniwell
Yoav Dori
Wichai Ekataksin
Piero Eleuteri
Constantino Eretta
R Erickson
Kevin Farrell
Joseph Feldman
Sheldon Feldman
Napoleone Ferrara
Carlo Frigo
Mei Fu
Etsuko Fujimoto
Nadezhda Gariaeva
Xin Geng
Edwin Glass
Henrique Godoy
Shashi Gogia
Epameinondas Gousopoulos
Jay Granzow
Maria Guerreiro Godoy
Nathan Hall
Kerstin Hällestrand
Kyungmin Han
Hisako Hara
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<td>Daisuke Mito</td>
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Visit us at medi booth 102 to learn more about how your lymphedema patients will experience a new level of freedom with the CIRCAID® reduction kit.

Customized for your specific patient's needs
Enable self donning and independence during acute phase
Attain full edema control before fitting for a maintenance garment
The International Society of Lymphology (ISL) was founded during the First International Symposium of Lymphology in Zurich, July, 1966. Now, in its 50th year of existence, the Society has some 350 members from 44 nations. Affiliated groups are: The European Society of Lymphology, The German Speaking Society of Lymphology, The Latin-Mediterranean Chapter, The Indian Society of Lymphology, The Association de Lymphologie de Langue Française, The British Lymphology Interest Group, The Japanese Society of Lymphology, Club de Linfologia (Spain), and the Asociation Argentina de Linfologia.

AIMS

The object of the Society is the promotion of all activities which propose to:

- Advance and disseminate knowledge in the field of lymphology and allied topics.
- Stimulate and strengthen experimental and clinical investigation.
- Establish relations between basic researchers and clinicians working in the field of lymphology.
- Further personal contact and exchange of ideas among lymphologists.
- Organize working groups (e.g., lymphology in filariasis, lymphedema treatment, lymphatic imaging, endolymphatic radiotherapy, AIDS-Kaposi sarcoma) or regional chapters.
- Cooperate with other national and international organizations.
- Organize international congresses and post-graduate courses.

For more information, go to http://www.u.arizona.edu/~witte/ISL.htm
To become a member: http://www.u.arizona.edu/~witte/ISL.htm

National Lymphedema Network, Inc.

The National Lymphedema Network (NLN) is an internationally recognized non-profit organization founded in 1988 to provide education and guidance to lymphedema patients, healthcare professionals and the general public by disseminating information on management of primary/secondary lymphedema and related disorders, and education in risk reduction practices for all individuals at risk for or affected by lymphedema.

The NLN is supported by tax deductible donations and is the driving force behind the movement in the US to standardize quality treatment for lymphedema patients nationwide. In addition the NLN supports research into the causes and alternative treatment for this often incapacitating, long neglected condition

The NLN Provides:

- LymphLink (quarterly 40 page newsletter)
- Position Papers
- Patient Support Groups
- Searchable therapist/clinic database online
- Marilyn Westbrook Garment Fund (MWGF)
- Patient Data Base
- Biennial International Lymphedema Conference for Professionals
- Patient Hotline – 800-541-3259

Resource Website: www.lymphnet.org
To become a member: http://lymphnet.org/aboutNLN/membership.htm

Sentinel Node Oncology Foundation

The Sentinel Node Oncology Foundation (SNOF) is a non-profit foundation that recruits medical institutions to participate in the Sentinel Lymph Node Working Group (SLNWG); the SNOF Statistics Center (SNOFSC) collects and manages cancer clinical data from SLNWG members.

The mission of the SNOF is to advance the care and treatment of patients with solid cancers and to help develop new preventative strategies, diagnostics, and treatments.

With advancements in cancer care and treatment, cancer survivors today live longer and enjoy a vastly improved quality of life than thought imaginable. Recent discovery has found that the sentinel lymph node in the body is the gateway for cancer to spread. Therefore, the SNOF was created in 2003 on the premise that the next level of cancer research and treatment is to understand more about this important gateway. It is now known that the same type of cancer is different from one person to the other. The genetic signature of cancer of each patient may be determined so that treatment can be tailored to each cancer patient more precisely and efficiently. The SNOF is building a robust sentinel lymph node databank so that the natural history of patients with solid cancer can be accurately defined.

The SNOF is currently in the process of analyzing numerous data points that might lead to information that can aid in determining the chances of survival for different patients diagnosed with cancer. This would lead to more precise treatment recommendations and the avoidance of severe toxic effects from over-treatment.