LYMPHATIC MALFORMATIONS

Lecture
Lee B.B. (USA): Truncular and extra-truncular malformations
President: Papendieck C. (Argentina)
Chairmen: Mattassi R. (Italy) - Lee B.B. (USA) – Forner-Cordero I. (Spain)

• Lymphatic malformations combined with other vascular defects: how to manage them
  Mattassi Raul
  Umanitas Centre, Italy

• New diagnostic and treatment approaches for neonatal idiopathic lymph-related ascites and pleural effusion
  Hara Hisako
  The University of Tokyo Hospital, Department: Plastic and Reconstructive Surgery, Japan

• Present role of Lymphangio-CT (LAG-CT) in the diagnosis of chylous disorders
  Boccardo F., Campisi C.C., Molinari L., Spinaci S., Dessalvi S., Campisi C.
  Department of Surgery, Unit of Lymphatic Surgery, IRCCS S. Martino, Ist. National Cancer Institute, University of Genoa, Italy

• The value of multi-detector computed tomography direct-lymphangiography in pulmonary lymphangioleiomyomatosis
  Wang Rengui
  Captial Medical University, Beijing Shijitan Hospital, Department of Radiology, China

• An update on lymphodynamics in the fetus and newborn
  Bellini C., Boccardo F., Campisi C., Bellini T., Ramenghi L.A.
  Servizio di Patologia e Terapia Intensiva Neonatale, Dipartimento di Pediatria, Università di Genova, Istituto G. Gaslini, Genova, Italy

• Classification of lymphatic-system malformations in primary lymphoedema based on MR lymphangiography
  Liu Ningfei, Yan Z.X., Wu X.F.
  Institution Shanghai 9th People’s Hospital, Shanghai Jiao Tong University School of Medicine, Department: Lymphology Center of Department of Plastic & Reconstructive Surgery P.R., China

The deepening of the Expert
Papendieck Cristobal (Argentina): Holistic therapeutical approach in lymphatic malformations

H. 10.45 - 11.00 a.m. Coffee Break
IMAGING IN LYMPHATIC DISEASES

Lecture

Bourgeois P. (Belgium): *Lymphoscintigraphy and Clinic: a twinning forced*

President: Bourgeois P. (Belgium)
Chairmen: Ningfei Liu (China Rep) - Mango L. (Italy) - Leong Stanley (USA)

- **CT and MRI findings of skeletal abnormalities associated with primary lymphatic dysplasia**
  
  Wang Rengui  
  Capital Medical University, Beijing Shijitan Hospital, Department of Radiology, China

- **Indocyanine green lymphography for pathophysiological evaluation of obstructive lymphedema**
  
  Yamamoto Takumi  
  The University of Tokyo, Department of Plastic and Reconstructive Surgery, Japan

- **High-accuracy diagnosis and regional classification of lymphedema using indocyanine green fluorescent lymphography after gynecologic cancer treatment**
  
  Mihara Makoto  
  The University of Tokyo, Department: Plastic and Reconstructive Surgery, Japan

- **Near infrared fluoroscopy: overview of possible applications related to lymphoedema**
  
  Université Libre de Bruxelles, Belgium, Lymphology Research Unit; Plastic Surgery Dpt - CHU St Pierre; Bio Electro and Mechanical Systems Dpt.; Nuclear medicine Dpt.; Vascular Surgery Dpt Institut Bordet; University Hasselt, Belgium

- **Unobserved swellings: roles of MRI in visualizing the pathogenesis and hence designing the treatment strategy of lymphedema**
  
  Ekataksin Wichai  
  Lymphology Institute of Thailand, Department: Lymphedema Day Care Center, Bangkok, Thailand

- **Assessment of skin hardness and imaging of the skin, subcutaneous tissue and muscle using dual-frequency ultrasonography before and just after lymph drainage in breast cancer-related lymphedema patients**
  
  Dai Misako  
  Kanazawa University, Department of Clinical Nursing, Division of Nursing Science, Kanazawa City, Japan

The deepening of the Expert

Ningfei Liu (China Rep.): *Lymphoscintigraphy and dynamic magnetic resonance lymphangiography in lymphedema management*

H. 1.30 - 2.15 p.m. Lunch (ISL Executive Committee - Sala Tecla)
Session 6 • H. 2.15 - 4.00 p.m.

Main Session (Aula Magna)

(CLINICAL ASPECTS

Lecture

Olszewski W. (Poland): Primary and secondary lymphoedema: clinical patterns
President: Roztolic (Czech Rep.)
Chairmen: Pissas A. (France) - Gasbarro (Italy) - Andrade (Brazil)

• Imaging and lymphoedema treatment
Iker E., Glass E.
Lymphedema Center of Santa Monica, Medical Imaging of Southern California

• How does lymphoedema influence functioning of people’s life?
Ricci M.
Rehabilitative Medicine, Azienda Ospedaliero-Universitaria of Ancona, Italy

• Incidence of lymphoedema pre-treatment for gynaecological cancer
Hayes S.C.¹, Ward L.², Janda M.¹, Reul-Hirche H.³, Obermair A.⁴
Institute(s): ¹ Institute of Health and Biomedical Innovation, Queensland University of Technology;
² University of Queensland; ³ Royal Brisbane and Women’s Hospital, Physiotherapy; ⁴ Royal Brisbane and Women’s Hospital, Queensland Centre of Gynaecological Research, Brisbane, QLD, Australia

• Modified “Lymphangitis Score” for physician, nurses and physiotherapists: early diagnosis for the best therapy
Campisi C.
Capital Medical University, Beijing Shijitan Hospital, Department of Radiology, China

• An update on lymphodynamics in the fetus and newborn
Bellini C., Macioì A.
AReSS Piedmont, University of Genoa, Department: AReSS Piedmont, University of Genoa, Italy

The deepening of the Expert

Pissas Alexandre (France): Current relevance of the Stemmer’s sign and its meaning in clinical practice

H. 4.15 p.m. Excursion to Ostia Antica (5.00-7.15 p.m.) and INFORMAL DINNER (Departure by bus shuttle from the Conference Venue at 4.15 p.m.)
**Physical treatment 1**

*Chairmen:* Ricci M. (Italy), Ohlin K. (Sweden), Adriaenssens N. (Belgium)

- **Two year follow-up results of a randomized clinical trial comparing incidence of breast cancer related lymphedema and health related quality of life between early breast cancer patients treated with short course image guided radiation therapy and conventional post surgery radiation therapy**
  
  Vrije Universiteit Brussel, Department: Physical Therapy, Jette, Belgium

- **The use of controlled compression therapy to repair a relapse of arm lymphedema caused by septic arthritis - A case report**
  
  Karin Ohlin, Barbro Svensson, Håkan Brorson  
  Department of Clinical Sciences, Lund University; Department of Plastic and Reconstructive Surgery, Skåne University Hospital, Malmo, Sweden

- **The assessment by questionnaire of satisfaction degree of users of compression garments for lymphedema of the upper limb**
  
  Onorato Alberto  
  A.S.S. n. 4 Medio Friuli (Health Public Company n. 4 Medio Friuli) Department: S.O.C. Riabilitazione Intensiva Precoce (Complex Operative Unit “Early Intensive Rehabilitation”), Udine, Italy

- **Conservative management of lymphoedema in children - A systematic review**
  
  Phillips J. Jane  
  James Cook University, Department of Physiotherapy, Victoria, Australia

- **Hard to heal ulcers at patients with lymphoedema stage III**
  
  Planinsek Rucigaj Tanja  
  University Clinical Centre, Department of Dermatovenerological Clinic, Ljubljana, Slovenia

- **Self-bandaging instruction for lymphedema patients: a key to independence - Report on 30 cases**
  
  Tidhar Dorit  
  Maccabi Healthcare Services, Department: Physiotherapy, Klachim, Israel

- **Verification of effectiveness of kinesiotaping in post-mastectomy lymphoedema related**
  
  Ricci M.*, Serrani R.*, Nonni M.**, Fornarelli D.**  
  * Rehabilitative Medicine, Azienda Ospedaliero-Universitaria, Ospedali Riuniti of Ancona  
  ** Nuclear Medicine, INRCA Ancona, Italy
• Management of complicated lymphoedema patients
Iker E.
Lymphedema Center of Santa Monica, California, USA

• Lymphedema and the patient with PAD: use of physical sources in the combined treatment and in reducing edema
Rossella Liani1, Mario Liani2, Ernesto Trabassi2, Francesco Lione3
1 CeSI, Università Gabriele D’Annunzio, Chieti
2 Centro Nefrologia e Dialisi, P.O. “San Massimo”, Penne (ASL PESCARA)
3 UO Medicina Interna Presidio Ospedaliero Morelli, Azienda Ospedaliera B.M.M., Reggio Calabria, Italy

• Lympho-taping to reduce hematoma after liposuction: a randomized clinical trial
Vandermeeren L2, Belgrado J.P.1, Valsamis J.B.3, Pierre P.1, Kinet J.1, Lenne A.2, Failla A.4, Moraine J.J.1, Deraemaeker R.2
1 Université libre de Bruxelles 1 Lymphology Researches Unit; 2 ULB Plastic Surgery Dept.; 3 ULB Bio Electric and Mechanical System Dept.; 4 San Giovanni Battista Hospital, Rome, Italy

H. 11.00 a.m. - 1.00 p.m. Lymphoedema and unabiliting social aspects
Chairmen: Piller N. (Australia), Moneta G. (Italy), Viehoff P. (The Neederlands)

• The lymphoedema functioning disability and health questionnaire for lower limb lymphoedema (Lymph-ICF-LL): reliability and validity
Adriaenssens Nele
University Hospitals Leuven, Department: Physical Medicine and Rehabilitation, Belgium

• Developement of ICF core sets for lymphoedema: qualitative research
Viehoff Peter
Erasmus Medical Centre Rotterdam Dermatology, The Neetherland

• The use of clinimetric instruments according to the International Classification of Functioning, Disability and Health in a multidisciplinary setting
Hendrickx A.A.
Expert Centre for Lymphology Nij Smellinghe Drachten, The Netherlands, Department: Lymphology, Drachten, Neetherlands

• Lower extremity lymphedema presents earlier and has a greater impact on quality of life than upper extremity lymphedema in melanoma patients
Janice N. Cormier, M.D., Kate D. Cromwell, M.S., M.P.H, Yi-Ju Chiang, MSPH, Jane M. Armer, RN, PHD, Kristi Mungovan, M.S., PA-C, Jeffrey E. Gershenwald, M.D., Jeffrey E. Lee, M.D., Richard E. Royal, M.D., Anthony Lucci, M.D., Merrick I. Ross, M.D.
Anderson Cancer Center, Department of Surgical Oncology, USA

Piller Neil
Flinders Medical Center, Lymphoedema Research Unit, Department of Surgery, Australia

• Satisfaction gaining control over the habit of wearing efficiant compression garment for a woman with secondary Arm Lymphoedema
Hallestrand Kerstin
Red Cross Hospital, Stockholm, Sweden
**Surgery 1**

*Chairmen:* Becker C. (France), Tashiro K. (Japan), Brorson H. (Sweden)

- **Vascularized lymph node transfer for patients with secondary inferior limb lymphedema**
  
  **Batista Bernardo**
  
  *Hospital Sirio Libanes, Department: Plastic Surgery, São Paulo, Brazil*

- **Congenital lymphedema: strategy**
  
  **Becker Corinne**
  
  *Lymphedema Centre, Clinique Jouvenet, Paris, France*

- **Our 3 years experience in microsurgical treatment of lymphedema adopting LVA: principles, outcomes and perspectives**
  
  **Gennaro P., Gabriele G.**
  
  *Siena University, Department of Maxilla-facial Surgery, Italy*

- **Surgical reduction of male genital lymphedema and defect closure with local flaps: techniques and outcomes**
  
  **Vincenzo Penna**¹, Filip Simunovic¹, G. Björn Stark¹, Etelka Földi², Nestor Torio-Padron¹
  
  ¹*Department of Plastic and Hand Surgery, University Medical Centre Freiburg, Hugstetterstrasse 55, D-79106 Freiburg, Germany; ²Földi Klinik, Spezialist Clinic for Lymphology, Hinterzarten, Germany*

- **Integrative therapeutic concept for surgical treatment of severe cases of lymphedema of the lower extremity**
  
  **Penna V., Martini V., Földi E., Stark G.B., Torio N.**
  
  *University Medical Center Freiburg, Department of Plastic and Hand Surgery, Germany*

- **Minimally invasive lymphatic supermicrosurgery (MILS) for early-stage lymphedema**
  
  **Yamamoto Takumi**
  
  *The University of Tokyo, Department of Plastic and Reconstructive Surgery, Japan*

- **Supraclavicular fascio-cutaneous lymph node island flap for axillary lymphatic reconstruction in the treatment of lymphedema after breast cancer**
  
  **Thiha Aung**¹,², Jörg Wilting³, Gunther Felmerer¹
  
  ¹*Institution University Medicine Goettingen, Department: 1) Division of Plastic Surgery, Department of Trauma Surgery, Plastic and Reconstructive Surgery, University Medicine Goettingen, Germany; ²Department of Hematology and Oncology, University Medicine Goettingen, Germany; ³Department of Anatomy and Cell Biology, University Medicine Goettingen, Germany*

- **Multidisciplinary management of advanced lymphoedema at Macquarie University - The first 12 months**
  
  **Boyages John**, Katrina Kastanias, Louise A. Koelmeyer, Lisa M. Sedger, Thomas C. Lam, Quan D. Ngo, Asha Heydon-White, Kerry A. Sherman, Caleb Winch, John S. Magnusson, David A. Munnoch, Helen Mackie
  
  *Macquarie University Cancer Institute, Sydney, Australia*
- **Lymph collector transplantation for lymphedema management in cancer patients: 10 years of lymphatic surgery**
  Gunther Felmerer, Mikhail Zvonik, Dalia Tobbia-Sattler, Jörg Wilting, Thiha Aung
  University of Medicine, Goettingen, Department: Division of Plastic Surgery, Department of Trauma Surgery, Plastic and Reconstructive Surgery, Goettingen, Germany

- **The Guide Wire Method: a new technique for easier side-to-end lymphaticovenular anastomosis**
  Yoshimatsu Hidehiko
  University of Tokyo Hospital, Department of Plastic and Reconstructive Surgery, Tokyo, Japan

- **LYMPHA original technique in the prevention of secondary lymphedema: from the idea to 5 years clinical application**
  Boccardo F., Campisi C.C., Molinari L., Spinaci S., Dessalvi S., Campisi C.
  Department of Surgery, Unit of Lymphatic Surgery, IRCCS S. Martino, IST, National Cancer Institute, University of Genoa, Italy

- **Lymph-Chiuls reflux: literature review and case report of a young man with delayed diagnosis**
  Campisi C., Macciò A.
  ARcSS Piedmont University of Genoa, Italy

- **LVA for facial lymphoedema**
  Tashiro Kensuke
  The University of Tokyo, Department of Plastic and Reconstructive Surgery, Tokyo, Japan

- **Amelioration of secondary lymphedema of lower extremity by endovascular management**
  Wen Hsien Hsu MD, FACS
  Lymphovascular Surgery, Dept of Surgery Taipei Medical University, Wan Fang Hospital, Taiwan

- **Lymphoedema reconstruction with microvascular free tissue transfer and lymphovenous anastomoses**
  Leif Perbeck, Martin Halle, Åsa Edsander-Nord, Ann-Charlott Docherty Skogh
  Department of Breast and Endocrine Surgery and Department of Reconstructive Plastic Surgery, Karolinska University Hospital, Stockholm, Sweden
Projection in sequence on screen 30 posters that will be discussed in the afternoon of the same day in the same room

Each poster will be screened with 5 slides, in the following order:
1) Authors, title, and home institution,
2) Background and Aim of the study,
3) Materials and Methods,
4) Results,
5) Discussion and conclusion with any bibliography.

By the discussion in the afternoon the Author will present the paper for 5', including any questions.

H. 2.00 - 5.00 p.m.

Poster Discussion 2

Chairmen: Eliska O. (Czech Rep.), Failla A. (Italy), Guerreiro Godoy M. de F. (Brazil)

- Examination about that the measurement of bioelectric impedance (BI) is useful in the stage judgment for secondary lower extremity lymphedema
  Akazawa Chiharu
  Kyoto University, Department of Graduate School of Medicine, Japan

- Implementing a multi-layered architecture for source-agnostic lymphedema data storage and analysis
  Anderson Black
  University of Missouri, Department of Informatics Institute, Columbia, USA

- Normal lymhatics motor activity and its treatment
  Chernyshev O.B., MD, PhD, Borisova R.P., prof. and Bubnova N.A., prof.
  Saint-Petersburg City, Hospital of Saint-George, Surgical Infections Department, Saint-Petersburg, Russia

- Cervical lymphatic therapy reduces lymphedema caused by the treatment of laryngeal cancer
  Silva Buzato, Pereira de Godoy, Dias Guimarães, Guerreiro Godoy Edivanda, José Maria Tânia, Maria de Fátima
  Godoy Clinic, São José do Rio Preto, Brazil

- Intra-abdominal fat in patients with arm lymphedema after the surgical treatment of breast cancer
  Buzato E., Brigidio P., Barufi S., Guerreiro Godoy M. de F., Pereira de Godoy J.M.
  Godoy Clinic, São José do Rio Preto, Brazil
• The analysis of tissue compressibility pattern using ultrasonography in lymphedema patients after breast cancer surgery
Chanhyuk Kwon
Seoul National University Hospital, Department of Rehabilitation Medicine, South Korea

• Feasibility of an IR camera system for surface mapping and volume measurements in lymphedema of the head and neck, torso and extremity
Dinniwell R.
Radiation Oncology University of Toronto, Canada

• Axillary Web Syndrome or Fibrotic Lymph Collector: what is the most adequate name and how to treat it? - A review
Figueira P.V.G., PT, Marx A.G., PT
Post-graduate in Physical Therapy in Oncology, FACIS, São Paulo, Brazil; 1 PHD in Oncology, FACIS, São Paulo, Brazil

• Pain in breast cancer treatment, aggravating factors and coping mechanisms
Guerreiro Godoy, Pereira de Godoy, Barufi, Dias Guimarães
Godoy Clinic, Department of Rehabilitation, São José do Rio Preto, Brazil

• Genital Dermal Backflow (GDB) stage based on the concept of lower-abdomen-to-genitalia sequence: indocyanine green lymphography for pathophysiological evaluation and early diagnosis of genital lymphedema
Nobuko Hayashi
University of Tokyo, Department of Plastic and Reconstructive Surgery, Japan

• Indocyanine green lymphography for pathophysiological evaluation of head-and-neck lymphedema
Akitatsu Hayashi
University of Tokyo, Department of Plastic and Reconstructive Surgery, Japan

• Implementing lymphedema prevention in clinical practice
Katarina Karlsson, Polymnia Nikolaidis
Department of Cancer Rehabilitation at Radiumhemmet, Karolinska University Hospital, Stockholm, Sweden

• Operative correction of lymph outflow at the lower limbs lymphedema
Katorkin Sergey
Samara State Medical University Clinic and Department of Hospital Surgery Vascular, Russia

• The analysis of tissue compressibility pattern using ultrasonography in lymphedema patients after breast cancer surgery
Kwon Chanhyuk
Seoul National University Hospital, Department: Rehabilitation Medicine, South Korea

• Comparison of approaches for microscopic imaging of skin
Liu Ningfei, Xiufeng Wu, Zheyuan Yu
Shanghai 9th People’s Hospital, Shanghai Jiao Tong University School of Medicine, Department: Lymphology Center of Department of Plastic & Reconstructive Surgery P.R., China
• Angiopoietin-2 promotes inflammatory lymphangiogenesis and its effect can be blocked by the specific inhibitor L1-10

Liu Ningfei
Shanghai 9th People’s Hospital, Shanghai Jiao Tong University School of Medicine, Department: Lymphology Center of Department of Plastic & Reconstructive Surgery P.R., China

• Diagnosis of inguinal lymph node metastases using contrast enhanced high resolution MR lymphangiography

Liu Ningfei
Shanghai 9th People’s Hospital, Shanghai Jiao Tong University School of Medicine, Department: Lymphology Center of Department of Plastic & Reconstructive Surgery P.R., China

• Microscopic analysis of lymphatic vessels in primary lymphedematous skin

Wu Xiufeng
Shanghai 9th People’s Hospital, Shanghai Jiao Tong University School of Medicine, Department: Lymphology Center of Department of Plastic & Reconstructive Surgery P.R., China

• New rehabilitation processes in the Public Health Organization in Sallentum: an a hoc idea to solve a bug in the Public Health System

Lecce, Italy

H. 5.00 - 6.00 p.m. Latin-Mediterranean Chapter of ISL Reunion

Sala Lucia

Tuesday 17 September

H. 11.00 a.m. - 1.00 p.m. Workshop JUZO
H. 2.00 - 5.00 p.m. Workshop CIZETA medicali: “Linforoll: a new device for lymphoedema treatment”

Sala Tecla

Tuesday 17 September

H. 1.00 - 2.00 p.m. ISL Executive Committee
H. 2.00 - 5.00 p.m. Staff Meeting