

ROOM MAGENTA A

07.30 - 08.20	<p>INSTRUCTIONAL COURSES</p> <p>IC01 - Bionic limb replacement</p> <ul style="list-style-type: none"> • Direct intraneural interfacing for motor control and sensory feedback <i>Stanisa Raspopovic</i> • Regenerative Peripheral Nerve Interfaces for the Control of Prosthetic Devices <i>Paul S. Cederna</i> • Neuromusculoskeletal limb prostheses <i>Max Jair Ortiz Catalán</i> • Targeted Muscle Reinnervation for prosthetic control and the treatment of nerve pain <i>Jason Ko</i>
10.00 - 10.20	<p>K-NOTE LECTURES</p> <p>K01 Orthoplastic Surgery</p> <p>Orthoplastic Surgery - Defined and Illustrated <i>L. Scott Levin</i></p>
10.20 - 11.40	<p>PANEL SESSION</p> <p>P01 Orthoplastic Surgery</p> <p>Conceptual background and clinical applications <i>President: L. Scott Levin Moderators: Hyunsuk Peter Suh, Riccardo Giunta</i></p> <ul style="list-style-type: none"> • From the clinical case to the concept <i>Marco Innocenti</i> • Perforator to perforator supermicrosurgery <i>Joon Pio Hong</i> • A systematic approach to flap selection in lower extremity reconstruction <i>Stephen Kovach</i> • Versatility of free gracilis flap in reconstruction of the extremities <i>Riccardo Giunta</i>
11.40 - 12.00	<p>SELECTED FREE PAPERS</p> <p>SFP 01 Orthoplastic Surgery <i>Moderators: Hyunsuk Peter Suh, Riccardo Giunta</i></p> <ul style="list-style-type: none"> • Treatment of complex lower leg injuries by emergency free flaps <i>Zoran Marij Arnež</i> • Gastrocnemius-Propeller Extended Myocutaneous Flap: a new chimaeric flap for soft tissue reconstruction of the knee <i>Sara Calabrese, Giulio Menichini, Marco Innocenti</i> • Microsurgical reconstruction of the achillean-calcaneal area - armamentarium discussion and algorithm for management <i>Horácio Zenha, Gustavo Coelho, Carolina Gaspar, Horácio Costa</i>
12.00 - 13.20	<p>PANEL SESSION</p> <p>P07 Orthoplastic Surgery</p> <p>Orthoplastic concepts in ballistic injuries <i>President: Marko Bumbaširević Moderators: Randy Sherman, Batia Yaffe</i></p> <ul style="list-style-type: none"> • Introduction - Microsurgery and war injuries <i>Marko Bumbaširević</i>

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	<ul style="list-style-type: none"> • Early microsurgical approach of brachial plexus bullet injuries <i>Joseph Bakhach</i> • Aesthetic restoration of the craniofacial region after gunshot and ballistic injuries, strategic plan based on 3d printing and microsurgery <i>Tarek Elbanoby</i> • Lower extremity reconstruction of Yemeni war victims <i>Mohamed Ellabban</i> • Our experience in the management of nerve war lesions in Syria <i>Ghassan Kaadan</i> • War and terror injuries to the upper extremity <i>Batia Yaffe</i> • Lessons learned from 11 years of microsurgical reconstruction of war injuries <i>Roderick Dunn, Alexandra Crick</i>
13.20 - 14.20	Lunch
14.20 - 15.40	<p>PANEL SESSION P13 Orthoplastic Surgery Microsurgical reconstruction of complex defects of extremities <i>President: Stephen Kovach Moderators: Luca Vaienti, Suk Ho Moon</i></p> <ul style="list-style-type: none"> • Flap choice in extremity reconstruction <i>Zaher Jandali</i> • Adjunctive means to heal extremity defects: Micrografts and dermal substitutes <i>Michele Riccio</i> • The functional perforator flap and its role for complex limb defects in addition to resurfacing <i>Chen Hong</i> • Proximal peroneal artery perforator free flap: an alternative option for hand and foot reconstruction <i>Suk Ho Moon</i> • Lower leg soft-tissue reconstruction with local perforator flaps: our experience <i>Luca Vaienti</i> • Medialis pedis flap for weight bearing heel reconstruction <i>Jae Hoon Lee</i>
15.40 - 16.50	<p>FREE PAPERS FP 05 Orthoplastic Surgery <i>Moderators: Francesco Moschella, Damir Kosutic</i></p> <ul style="list-style-type: none"> • The sooner the better? Patients' satisfaction following orthoplastic treatment of lower limb open fractures within and after one week from injury Chiara Stocco, Vittorio Ramella, Silvia Galici, Federico Facchin, Giovanni Papa, Zoran Marij Arnez

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- The spreaded gracilis flap revisited: comparing outcomes in lower limb reconstruction
Niclas Broer, Lukas Prantl, Milomir Ninkovic, Paul Heidekrueger
- Microsurgical flaps in general orthopedic surgery: indications and results in adults
Raquel Bernardelli Iamaguchi, Gustavo Bersani Silva, Alvaro Baik Cho, Teng Hsiang Wei, Felipe Burgos, Marcelo Rosa de Rezende, Rames Mattar Jr
- Reconstruction of huge soft tissue defects of limbs by combined transplantation of perforator flaps
Ju-Yu Tang
- Clinical application of circumflex scapular artery perforator flap for repairing the skin and soft tissue defects of extremities in children
Panfeng Wu, Juyu Tang
- Flow through anterolateral thigh flap transfer combined with bone transport technique for repairing the segmental mutilating injury in lower extremity
DongLiu liu
- Donor site morbidity after the harvest of free flaps from the femoral condyle region: objective, radiologic and patient-reported outcome of a multicenter trial
Maximilian Neuwirth, Matthias Rab, Michel Müller-Eggenberger, Madeleine Mischitz, Wolfgang Palle, Karina Hönck, Helmut Schöllnast, Elmar Janek, Thomas Ziegler, Raimund Winter, Stefan Benedikt, Lars-Peter Kamolz, Michael Schintler, Heinz Bürger
- Reconstruction with local fasciocutaneous flaps of soft tissue defects resulting from malleolar fractures
Eyup Cagatay Zengin, Hakan Ertem, Sertaç Saruhan, Cumhuri Davulcu, Muhittin Sener
- Long term results of cross leg vascularized fibular graft transfer to reconstruct tibial bone defects with poor ipsilateral blood supply
Waleed Riad Saleh
- Repair of complicated extremities defects with Multi-method chimeric transplantation or combined flow-through
Xiaoju Zheng
- Defect reconstruction using the propeller-fashioned flaps based on the perforators derived from the lateral circumflex femoral artery system
Shan Zhu, Yuanbo Liu, Mengqing Zang, Shengji Yu, Chen Bo, Shan Shan Li, Tinglu Han, Tingjun Xie
- Spontaneous reinnervation of thin free perforator skin flaps in lower limb reconstruction
Jeong Mok Cho, Joon Pio Hong, Hyun Suk Suh, Usama Abdelfattah
- Latissimus dorsi free flap - 40 years of microvascular transfer in Ljubljana for lower leg reconstruction
Luka Emeršic, Albin Stritar, Marko Mikša, Anže Arhar
- Expanded application of the DIEP flap: useful modality for lower extremity reconstruction
Seung Yul Lee, Ik Hyun Seong, Bo-Young Park

16.50 - 17.05

Break

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FREE PAPERS

FP 11 Flaps

Moderators: Rakesh Khazanchi, David T. W. Chiu

- Comparison of clinical outcomes of heterodigital artery island flap, reverse homodigital artery island flap, and cross-finger flap used for fingertip reconstruction
Kaan Gürbüz, Yalcin Yontar
- Vascularized Posterior Iliac Crest Graft for Spinal Deformities
Edward Reece
- The versatility of the superficial iliac artery perforator (SCIP) flap
Dariush Nikkhah, Juan Enrique Berner, Jade Zhao, Tiew Chong Teo
- Characteristics of the Superficial Circumflex Iliac Artery Perforator (SCIP) Flap in a Western Population and a Practice Approach for Free Flap Reconstruction
Martin Carney, Michael Mirzabeigi, Kris Tantillo, Jason Weissler, Charles Messa IV, Tessa Cook, Stephen Kovach
- Innovations in Microsurgery with Free Serratus Fascia Flap - Anatomical Study and Novel Versatile Clinical Applications
Lars H. Evers, Gottfried Lemperle, Richard Bodor
- Various SCIP Flaps: Chimeric SCIP Flaps including Skin, Fat, Lymph Vessel/Node, Fascia, Nerve, Muscle, and Bone
Reiko Tsukuura
- SCIP flap sub-classification: Indications and Surgical Strategies in Microsurgical Reconstruction with Superficial Circumflex Iliac Perforator Flap
Matteo Amoroso, Shih-Heng Chen, Joon Pio Hong, Isao Koshima, Hung-Chi Chen
- Functional reconstruction of limb using free vascularized fascia flap
Solji Roh
- Comparison of deepithelialized perforator flaps and muscle flaps in filling of deep defects in the pelvic region
Seyda Güray Evin, Ahmet Bilirer, Mustafa Sutcu, Osman Akdag, Zekeriya Tosun
- Freestyle perforator flap in anterolateral thigh flap donor site reconstruction
Domenico Pagliara, Maria Lucia Mangialardi, Stefano Vitagliano, Marzia Salgarello
- Profunda Artery Perforator flap in a vertical fashion: an alternative to the Anterolateral Thigh flap
Luís Saraiva, Diogo Ribeiro, Bruno Rosa, Hugo Freitas, Victor Fernandes
- Free style pedicled perforator flap for reconstruction after oncosurgical resection
Reem Zakka Bactor, Mohamed Ahmed Ellabban, Mohamed Hamdallah Zedan, Mohamed Ahmed Rifaat, Ayman Abdel-Wahab Amin
- Analysis of the Perforators' Location Penetrating Superficial Fascial Plane in Anterolateral Thigh Perforator Flap: Novel Elevation Technique for Super-thin ALT flap 'NOT' based on Free Style Approach
Young Chul Suh, Ma Rhip Ahn, Jung Ho Lee, Joon Pio Hong
- Recycled flap in Pressure ulcers treatment
Luigi Troisi, Ayman Saeed, Nitisha Narayan

17.05 - 18.15

ROOM CIANO

07.30 - 08.20	<p>INSTRUCTIONAL COURSES IC02 - Planning 3D reconstruction in craniofacial surgery <i>Matthew M. Hanasono, Ming-Huei Cheng, Jamie Levine</i></p>
10.00 - 10.20	<p>K-NOTE LECTURES K02 Head & Neck Microsurgical nose reconstruction <i>Robert L. Walton</i></p>
10.20 - 11.40	<p>PANEL SESSION P02 Head & Neck The Evolution of Microsurgical Techniques in Total and Subtotal Nasal Reconstruction <i>President: Robert L. Walton Moderators: Jong Woo Choi, Wei Wang</i></p> <ul style="list-style-type: none"> • Modified Aesthetic subunit principle in Nose reconstruction <i>Jong Woo Choi</i> • The Media Condyle Flap: a novel donor site for Nasal Reconstruction <i>Alexander Gaggi</i> • Engineered Flaps in Nasal Reconstruction <i>Julian Pribaz</i> • Super Microsurgical Nasal Reconstruction <i>TC Teo</i> • Aesthetic Refinements after Nasal Reconstruction <i>Riccardo Cipriani</i>
11.40 - 12.00	<p>SELECTED FREE PAPERS SFP 02 Head & Neck <i>Moderators: Jong Woo Choi, Wei Wang</i></p> <ul style="list-style-type: none"> • Medial Femoral Condyle Free Flap for nasal reconstruction a case series Mario Cherubino, <i>Luigi Valdatta, Federico Tamborini, Francesca Maggiulli, Danilo Di giovanna</i> • Subtotal nasal reconstruction using custom 3-d porous polyethylene construct Brent Robinson, <i>Robert L. Walton</i> • Total nasal reconstruction with forehead flap based on new facial aesthetic unit including nose Min Ji Kim, <i>Jong Woo Choi</i>
12.00 - 13.20	<p>PANEL SESSION P08 Head & Neck Current trends in head & neck soft tissue reconstruction <i>President: Ming Huei Cheng Moderators: Julian Pribaz, Frederic Kolb</i></p> <ul style="list-style-type: none"> • Aesthetic refinements in soft tissues microsurgical reconstruction of the face <i>Amresh Baliarsing</i> • Comprehensive facial reconstruction incorporating microsurgical and non-microsurgical techniques <i>Stefan O.P. Hofer</i>

ROOM CIANO

	<ul style="list-style-type: none"> • Technique development of perforator flaps in OMS-Head and Neck reconstruction <i>Yue He</i> • New local and loco-regional perforator flaps for Head and Neck reconstruction <i>Frederic Kolb</i> • Pedicled flap innovations: changing our current trend in head and neck reconstruction <i>Amin Ayman</i> • New Classification of Mandibular Defects and Reconstructions <i>Ming Huei Cheng</i>
13.20 - 14.20	Lunch
14.20 - 15.40	<p>PANEL SESSION P14 Head & Neck Innovations in maxillofacial reconstruction <i>President: Matthew M. Hanasono</i> <i>Moderators: Eric Santamaría Linares, Giorgio De Santis</i></p> <ul style="list-style-type: none"> • Extended and unusual indications in jaws reconstruction with the fibula flap <i>Giorgio De Santis</i> • Bony foundation for facial aesthetics <i>Fu-Chan Wei</i> • Immediate Implants in maxillary and mandibular reconstruction <i>Evan Matros</i> • New refinements with Fibula free flap for Maxillofacial Reconstruction <i>Eric Santamaría Linares</i> • The possible future of CAD/CAM in maxillofacial surgery <i>Roman Skoracki</i> • Challenging cases in oncologic maxillofacial reconstruction <i>Matthew M. Hanasono</i>
15.40 - 16.50	<p>FREE PAPERS FP 06 Head & Neck <i>Moderators: Horácio Costa, Prabha Yadav</i></p> <ul style="list-style-type: none"> • First Dorsal Metacarpal Island Free Flap for Salvage of Nasal Reconstructions <i>Robert L. Walton, Emily Harris</i> • Microvascular reconstruction for complex nasal defects <i>Konstantinos Gasteratos, Georgia-Alexandra Spyropoulou, Efterpi Demiri</i> • Nasal reconstruction with free temporoauricular flap vs traditional frontalis flap <i>Valeria Navach</i> • Total nasal reconstruction with prelaminated forehead or radial forearm flap? <i>Georgia-Alexandra Spyropoulou, Leonidas Pavlidis, Ioannis Tilaveridis, Kostantinos Vahntsevanos, Kostantinos Antoniadis, Efterpi Demiri</i> • Herpetic Corneal Keratopathy management by Ipsilateral Supratrochlear Nerve Transfer for Corneal Neurotization <i>Chihhung Lin</i>

ROOM CIANO

	<ul style="list-style-type: none"> • Corneal neurotization following unilateral trigeminal nerve injury: the italian experience Federico Bolognesi, Paolo Fogagnolo, Giuseppe Giannaccare, Claudio Marchetti, Emilio Campos, Federico Biglioli • The Surgical Management of Trigeminal Nerve Palsies Ruben Yap Kannan, Elena Pescarini, Jagtar Dhana, Sameer Hamada, Raman Malhotra, Charles Nduka • Trigeminal microsurgery: from lingual sensitive recovery to corneal neurotization <i>Paolo Gennaro</i>, Guido Gabriele, Ikenna Valentine Abho, Flavia Cascino, Federico Zerini, Gianluca Niccolai, Ugo Amadi • Tip tongue reconstruction with prelaminate free flap Francesco Mattioli • Composite and compound flaps in microsurgical head and neck reconstruction Franco Bassetto, Regina Sonda, Andrea Monticelli, Eleonora De Antoni, Diego Faccio, Gianpaolo Azzena, Cesare Tiengo • Functional reconstruction of the tongue using the latissimus dorsi and serratus anterior chimeric flap with motor innervation Alexander Mordovskiy, Andrey Polyakov, Michail Ratushny, Irina Rebrikova, Oleg Matorin • The Contralaterally Based Submental Flap for Reconstruction of the Tongue and Floor of Mouth Defects: Reliability and Oncological outcome Ayman Amin • Tongue reconstruction: algorithm approach free flaps for optimizing speech and swallow on defect size <i>Andrey Polyakov</i>, Alexander Mordovskiy, Michail Ratushnyy, Irina Rebrikova, Oleg Matorin • The thin suprafascial profunda artery perforator flap for tongue reconstruction Susana Heredero, Alba Sanjuan, Maria Isabel Falguera, Alicia Dean
<p>16.50 - 17.05</p>	<p>Break</p>
<p>17.05 - 18.15</p>	<p>FREE PAPERS FP 12 Head & Neck <i>Moderators: Amresh Baliarsing, Hung Chi Chen</i></p> <ul style="list-style-type: none"> • Facial animation in patients with congenital facial palsy Bernardo Bianchi, Andrea Varazzani, Andrea Ferri • Combined Orbicularis Oculi Muscle Reinnervation and Static Lid Support Provides Advantages in Corneal Protection over Static Lid Support Alone in the Subacute Facial Palsy Patient Ahneesh J. Mohanty, Justin Perez, Austin Hembd, Nikhitha Thrikutam, Jeremy Bartley, Shai M. Rozen

ROOM CIANO

- Neurovascular anatomy of the depressor anguli oris muscle and implications for synkinetic facial paralysis
Andreas E. Krag, *Danielle Dumestre, Austin Hembd, Samuel Glick, Ahneesh Mohanty, Shai M. Rozen*
- Sternohyoid flap for facial reanimation. Acinical evaluation of a novel technique
Carmen Higuera Suñe, *David Priego Carrillo, Cristian Carrasco Lopez, Maria del Rio Escribano, Jordi Vila Poyatos, Oihane Garcia Senosein, Paloma Malagon Lopez, Lia Huesa Barcelo*
- A 2 vector reanimation in late facial nerve palsy using gracilis free flap and temporalis muscle flap
Matei Iordache, *Dragos Zamfirescu, Amit Beedasy, Iulia Muraru*
- The Free Functional Vascularized Platysma Transfer in Facial Paralysis: an Analysis of Patient Outcomes, Cadaveric Samples, and Imaging Studies
Alap U. Patel, *Miranda A. Chacon, Drew A. Mitchell, Jonathan L. Leckenby, A.O. Grobbelaar*
- Brain activity after dual-innervated facial reanimation: exploration with functional MRI
Takeichiro Kimura, *Keigo Narita, Akihiko Takushima*
- Medial femoral condyle free flap in head and neck reconstruction
Sara Tanini, *Elena Lucattelli, Gerardo Malzone, Mirco Raffaini, Marco Innocenti*
- The Pedicled Thoracodorsal Artery Perforator Flap for Head and Neck Reconstruction
Sherif Khairalla, *Mohamed H. Zedan, Mohamed A. Ellabban, Abdalwahab R. Abdalwahab, Mohamed A. Rifaat, Ayman A. Amin*
- Chimeric free scrotal and free suprapubic flaps for buccal mucosa and mustache reconstruction: the first case report
Ngamcherd Sitpahul, *Kidakorn Kiranantawat*
- A 15-year Analysis of Preferred Surgical Strategies for Subsequent Free Flap Failures in Head and Neck Reconstruction
Lisa Wen-Yu Chen, *Tommy Nai-Jen Chang, Ana Elena Avina-Estrada, Chung-Kan Tsao, Jung-Ju Huang*
- The role of peri-modiolar perforator flaps in the reconstruction of oral commissural defects
Shazrinizam Shaharan, *Charles Nduka, Ruben Kannan*
- The Supraclavicular Artery Island (SCAI) Flap for post Oncologic Head and Neck Reconstruction
Ehab Abdelmaksoud, *Mohamed Zedan, Mohamed Rifaat, Ayman Amin*
- Radial Artery Forearm Flap: a versatile reconstructive option for non-malignant HFN defects
Vinita Puri, Raghav Shrotriya

ROOM ITALIA

07.30 - 08.20	<p>INSTRUCTIONAL COURSES IC03 - Evolution and Revolution of Perforator Flaps <i>Jeong Tae Kim, Youn Hwan Kim, Sang Wha Kim</i></p>
10.00 - 10.20	<p>K-NOTE LECTURES K03 Lymphoedema Lymphatic microsurgery: a life journey experience <i>Hung Chi Chen</i></p>
10.20 - 11.40	<p>PANEL SESSION P03 Lymphoedema VLNT and lymphatic channel flaps: how and why they work <i>President: Hung Chi Chen Moderators: Isao Koshima, Joseph Dayan</i></p> <ul style="list-style-type: none"> • Future of free lymph node transfer-combining lymph nodes with growth factor therapy <i>Sinikka Suominen</i> • Lymph channel transfer for severe lymphedema against LVAs <i>Isao Koshima</i> • Various modalities of surgical treatment for lymphedema <i>Pedro Ciudad</i> • Mechanism of Vascularized Lymph Node Transfer <i>Ming Huei Cheng</i> • Lessons learned after more than 10 years performing autologous lymph node transfer for lymphedema treatment <i>Gemma Pons</i>
11.40 - 12.00	<p>SELECTED FREE PAPERS SFP 03 Lymphoedema <i>Moderators: Isao Koshima, Joseph Dayan</i></p> <ul style="list-style-type: none"> • Lymphatic Microsurgery versus Complex Decongestive Therapy in Unilateral Extremity Lymphedema: Outcome Based on Objective Clinical Findings and Lymphoscintigraphy <i>Marco Pappalardo, Ming-Huei Cheng</i> • Planning of lymphedema surgery using CT scanner and MRI <i>Assaf Zeltzer</i> • Surgical treatment in children with lymphoedema <i>Corinne Becker</i>
12.00 - 13.20	<p>PANEL SESSION P09 Lymphoedema LVA: how and why they work <i>President: Takumi Yamamoto Moderators: Akitatsu Hayashi, Yukio Seki</i></p> <ul style="list-style-type: none"> • Optimal Timing and Sites for LVA from the Lymphodynamic Point of View <i>Takumi Yamamoto</i> • Importance of Recipient Vein in LVA <i>Giuseppe Visconti</i>

ROOM ITALIA

	<ul style="list-style-type: none"> • Efferent Lymphatic Vessel Anastomosis (ELVA) for Subclinical Lymphedema <i>Yuma Fuse</i> • LVA for Uncommon Lymphedema <i>Guido Giacalone</i> • LVA for Lymphorrhoea and Lymphocyst <i>Johnson Chia-Shen Yang</i> • Multiple Lymphatic Venous Anastomoses in a single surgical site: the Genoa Experience, from 1973 until today <i>Corradino Campisi</i>
13.20 - 14.20	Lunch
14.20 - 15.40	<p>PANEL SESSION P15 Lymphoedema WSRM guidelines on combined treatment: physiotherapy, lymphology, microsurgery <i>President: Peter C. Neligan Moderators: Isao Koshima, Jaume Masia</i></p> <ul style="list-style-type: none"> • Microsurgical Options in Lymphedema Management <i>Peter C. Neligan</i> • The role of compression therapy in the treatment of lymphedema <i>Roberto Bartoletti</i> • How to start a microsurgical lymphedema program: beginners guide <i>Carolyn De La Cruz</i> • The TBAR procedure <i>Jaume Masia</i> • Treating Core Lymphedema Surgically <i>Isao Koshima</i>
15.40 - 16.50	<p>FREE PAPERS FP 07 Lymphoedema <i>Moderators: Corrado Rubino, Gerardo Malzone</i></p> <ul style="list-style-type: none"> • Indocyanine-green Lymphography (ICG), lymphoscintigraphy and genetic analysis in non syndromic primary lymphedema Maria Lucia Mangialardi, Valerio Lorenzano, Stefano Gentileschi, Giuseppe Visconti, Marzia Salgarello • Right Gastroepiploic-Vascularized Lymph Node Transfer: "String of Pearls" Technique for Increased Surface Area and Lymphedematous Fluid Drainage Cara K. Black, Kenneth L. Fan, David H. Song, Gabriel A. Del Corral • Compartmental harvesting of dual lymph node flap from the right supraclavicular area for the treatment of lower extremity lymphedema: a case series Alessandro Bianchi, Giuseppe Visconti, Girolamo Tartaglione, Roberto Bartoletti, Marzia Salgarello • Surgical options for Secondary Lymphedema Savaş Serel

ROOM ITALIA

- A comparative analysis of Photoacoustic and near-infrared imaging techniques for the evaluation of lower extremity lymphatic vessels in healthy individuals
Yushi Suzuki
- Photoacoustic Imaging for the Planning of Lymphaticovenular Anastomosis
Anna Oh
- Three-dimensional Analysis of Dermal Backflow Using Photoacoustic Imaging
Shiho Watanabe, Hiroki Kajita, Anna Oh, Hikaru Kono, Marika Otaki, Nobuaki Imanishi, Moemi Urano, Yoshifumi Takatsume, Keisuke Okabe, Hisashi Sakuma, Tetsuya Tsuji
- Multi-area lymphaticovenous anastomosis with multilymphosome injection in indocyanine green lymphography and echography: a prospective study
Hisako Hara
- Strategy for Primary Lymphedema Treatment based on ICG Lymphography Classification
Nana Yamamoto, Yuma Fuse, Takumi Yamamoto
- The upper jugular lymph node flap as a novel donor site for the treatment of extremity lymphedema
Wan-Sze Pek, Bien-Keem Tan, Lin-Hon Terence Goh, Fumio Onishi, Yu-Ming Lai, Yee-Siang Ong
- Total Extremity Anatomy Reconstruction: the TEAR Approach. Introduction of a Novel Concept for Prevention and Treatment of Post-Traumatic Lymphedema
Nicolas Pereira, Alvaro Cambara, Matias Kufek, Ricardo Roa
- Multiple Lymphaticovenular anastomosis for longstanding facial lymphedema
Hirofumi Imai, Isao Koshima, Shuhei Yoshida, Ayano Sasaki, Shogo Nagamatsu, Kazunori Yokota
- Quality of life after lymph node transfer for the treatment of chronic lymphedema - A prospective study
Christian Krammer, Min-Seon D. Kwak, Daniel Müller, Hans-Günther Machens, Nikolaos Papadopoulos
- Two-Compartment Lymphoscintigraphy Guide to the Appropriate Lymphatic Microsurgery
Corrado Cesare Campisi

16.50 - 17.05

Break

17.05 - 18.15

FREE PAPERS

FP 13 Lymphoedema

Moderators: Giulio Menichini, Corradino Campisi

- Super-microsurgical lymphaticovenous anastomosis using preoperative Ultrasound: end-to-end anastomosis versus side-to-end anastomosis
Makoto Mihara

ROOM ITALIA

- Early outcome of an arterial flow-through vascular construction of the gastroepiploic vascularized lymph node transfer: Bangkok garland technique
Kidakorn Kiranantawat, *Ngamcherd Sitpahul, Chairat Supsamutchai*
- Complications After Jejunal Mesenteric Vascularized Lymph Node Transfer: A 3-year experience
Casey Kraft, *Steven Schulz, Sumanas Jordan, Daniel Eiferman, Roman Skoracki*
- Vascular anatomy of lateral thorathic lymph node: a clinical findings from donor site of lymph node transfer
Kiyoshi Yamada
- Computational fluid dynamics analysis of a novel lymphaticovenular anastomosis with venoplasty and clinical application
Yoshihisa Yamaji
- Barriers and Challenges in Initiating a Modern Surgical Lymphedema Practice
William Casey, **Danielle Thornburg**, *Alanna Rebecca*
- Brescia's experience in lymphedema treatment: omental lymph nodes free flap transfer and lymphatic venous anastomosis
Gianpaolo Faini, *Sarah Calabrese*
- Evaluation of the efficacy of Lymphaticovenular Anastomosis (LVA) by thirds of lymphedematous extremities
Cristina Gómez
- Pronounced cyanosis after lympho-venous anastomosis (LVA): do not panic!
Guido Giacalone, *Takumi Yamamoto, Florence Belva, Akitatsu Hayashi*
- Variations of greater omental flap for lymphedema treatment. An alternative to vascularized lymph node transfer
Jose M. Lasso
- The combination of lymphatic-venous anastomoses with the lipotransfer in the axillary region as a minimally invasive and effective method of treatment of the upper limb lymphoedema
Karolina Donocik, *Rafal Ulczok, Dominik Walczak, Piotr Drozdowski, Lukasz Krakowczyk, Ryszard Szumniak, Maciej Grajek, Janusz Wierzgon, Mirosław Dobrut, Michał Kalemba, Adam Maciejewski*
- Evaluation of Venous Complication in Vascularized Lymph Node Flaps for the Management of Upper and Lower Lymphedema and Assessment of Their Long-term Outcome
Satomi Koide, *Ming-Huei Cheng, Miffy Chia-Yu Lin*
- Significance of Multiregional Approach for Lymphaticovenular Anastomosis
Fumio Onishi, *Yuki Morishige, Wataru Tsugu, Toshiharu Minabe, Ayumi Suzuki*
- Klippel-Trenaunay Syndrome with lymphedema. The proposal of an algorithm for surgical treatment
Rossella Elia, *Giuseppe Di Taranto, Shih-Heng Chen, Luigino Santecchia, Vittoria Amorosi, Ngamcherd Sitpahul, Jeffrey Chan, Michele Maruccia, Giuseppe Giudice, Hung-Chi Chen*

ROOM MAGENTA B

<p>07.30 - 08.20</p>	<p>INSTRUCTIONAL COURSES IC04 - Short gap nerve repair</p> <ul style="list-style-type: none"> • Do we actually know what a short nerve gap is? <i>Ignazio Marcoccio</i> • Japanese experience in short nerve gap treatment with 2nd generation nerve conduits <i>Hitoshi Hirata</i> • Limits of hollow conduits in short nerve gap repair <i>Pierluigi Tos</i> • The end-to-side neuroorrhaphy as Schwann cells provider to acellular nerve graft or conduit <i>Ayato Hayashi</i> • Electrical stimulation of nerves to enhance nerve regeneration <i>Gregory H. Borschel</i>
<p>10.00 - 10.20</p>	<p>K-NOTE LECTURES K04 Nerves Update in brachial plexus repair <i>Anil Bhatia</i></p>
<p>10.20 - 11.40</p>	<p>PANEL SESSION P04 Nerves Total and Near Total Brachial plexus Injuries- What can we expect in 2019? <i>President: Anil Bhatia Moderators: David C.C. Chuang, Piero Raimondi</i></p> <ul style="list-style-type: none"> • Hand function in total palsies using a combination of nerve transfers and free muscle transfers <i>Margaret Fok</i> • Near total palsies - muscles to be reinnervated options and ideal outcomes <i>Jorge Clifton</i> • Use of phrenic nerve in total brachial plexus palsy: is it safe? <i>Nicola Felici</i> • Contralateral C7 Transfer in Total Brachial Plexus Palsy - a case series <i>Alexandru Stoian</i>
<p>11.40 - 12.00</p>	<p>SELECTED FREE PAPERS SFP 04 Nerves <i>Moderators: David C.C. Chuang, Anil Bhatia</i></p> <ul style="list-style-type: none"> • Benefits of continuous brachial plexus nerve blocks for reimplantation surgery for traumatic amputations of the upper extremity Jack Berger • Functioning free muscle transfer after failed primary reconstruction of brachial plexus injury Yasunori Hattori

ROOM MAGENTA B

	<ul style="list-style-type: none"> • Transfer of contralateral C7 nerve to upper trunk via prespinal route for neuropathic pain after total brachial plexus avulsion: a novel and effective approach to relieving the intractable pain <i>Zhong-Gen Dong</i>
12.00 - 13.20	<p>PANEL SESSION P10 Nerves</p> <p>OBPP: Timing and new techniques of nerve repair <i>President: Alexandre Muset Lara Moderators: Filippo Senes, Willem Pondaag</i></p> <ul style="list-style-type: none"> • Updated Technical details in upper lesions OBPP <i>Jorge Clifton</i> • Results in late surgery in OBPP <i>Filippo Senes</i> • Neurotisations in upper extremity peripheral nerve reconstruction changed paradigms <i>Riccardo Giunta</i> • The role of free muscular flaps in OBPP reconstruction <i>Annabel Moratona Capdevila</i> • Updated technical details for hand reconstruction results in total OBPP <i>Alexandre Muset Lara</i> • Direct coaptation to ventral roots in upper and total palsies <i>Willem Pondaag</i>
13.20 - 14.20	Lunch
14.20 - 15.40	<p>PANEL SESSION P16 Nerves</p> <p>Peripheral nerve microsurgery for pain management <i>President: Giorgio Pietramaggiori Moderators: Ivica Ducic, Shai M. Rozen</i></p> <ul style="list-style-type: none"> • Microsurgical approaches to treat of groin and genital pain <i>Shai M. Rozen</i> • Minimally invasive surgical management of thoracic outlet syndrome <i>Robert R. Hagan</i> • Diagnosis and treatment of neurological knee joint pain <i>Saja Scherer</i> • Targeted muscle reinnervation for the treatment of the sensitive nerve neuroma in the amputation stumps <i>Valerio Ian</i> • Diagnosis and treatment of neurological ankle pain <i>Giorgio Pietramaggiori</i> • Surgical management of chronic breast pain <i>Ivica Ducic</i>
15.40 - 16.50	<p>FREE PAPERS FP 08 Nerves</p> <p><i>Moderators: David C.C. Chuang, Kazuteru Doi</i></p> <ul style="list-style-type: none"> • Restoring elbow flexion in brachial plexus palsy by nerve transfers <i>Teodor Stamate, Camelia Tamas, Radu Aurelian Budurca, Costel Dobre, Mariana Georgeta Stamate, Ionut Topa, Ionut Atanasoae, Tiberiu Hrisca</i>

ROOM MAGENTA B

- Results of Pronator Quadrates (PQ) to Extensor Carpi Radialis Brevis (ECRB) nerve transfer in C5-7 or C5-8 brachial plexus injuries for independent wrist extension reconstruction
Mahmoud Salama
- Age as a Predictor of outcomes in Patients with upper Brachial Plexus injuries Undergoing Surgical Repair
Raman Sharma, Sunil Gaba, Manish Modi
- Restoration of contralateral representation of motor and somatosensory cortex in a case of total complete brachial plexus injury treated by contralateral C7 nerve crossing in end to side fashion with more than 18 years follow-up
Minoru Shibata
- Concepts of nerve regeneration and repair with nerve grafts applied to brachial plexus traumatic lesions. A personal experience
Irina-Mihaela Jemnoschi-Hreniuc, Teodor Stamate, Camelia Tamas
- Distal nerve transfer versus supraclavicular nerve grafting: shoulder outcome in neonatal brachial plexus palsy with C5-C6 involvement
Rafael Aquino, João Recalde, Rudolf Kobig, Marcelo Machado, Marcel Azevedo, Gustavo Mendes, Taissa Recalde
- Results of free functional gracilis transfer to restore elbow flexion in children with brachial plexus injuries
Moamen Bakr, Amr Elsayed, Ahmed Mousa, Ayman Shaker
- Fascicular Shifting in the Reconstruction of Global Obstetric Brachial Plexopathies - From Bench to Bedside
Matthias Sporer, Martin Aman, Johannes Mayer, Agnes Sturma, Peter Brugger, Bruno Podesser, Oskar Aszmann
- Results of surgical treatment of total obstetric brachial plexus palsy: a report of 110 cases
Mugahed Hussein, Amr Eisa, Mohamed Morsy, Mohamed Kotb, Amr Elsayed, Tarek El-Gammal
- The use of Neuragen® Integra in obstetrical brachial plexus palsy case report
Carmen-Ioana Mocanu, Crina-Victoria Onciu, Alexandru Stoian, Sorin Tarnoveanu, Dragos Zamfirescu
- Novel Method of Double Innervated Free Gracilis Muscle Functional Transfer for Facial Reanimation
Mo Boonipat, Malke Asaad, Diya Sabbagh, Samir Mardini
- Determining Axonal Load in all branches of the VIIth cranial nerve to Improve Facial Reanimation Surgery - Results from 1084 Biopsies Analyzed
Simon Engelmann, Marc Rütwe, Veronika Mandlik, Christian Taeger, Ernst Tamm, Ronald Bleys, Lukas Prantl, Andreas Kehrer

16.50 - 17.05

Break

ROOM MAGENTA B

FREE PAPERS

FP 14 Nerves

Moderators: Luigino Santicchi, A. Lee Dellon

- Modified Somsak Nerve Transfer in Upper Brachial Plexus Injuries
Nikolas Klappis, *Alkiviadis Alkiviadous, Christian Fessas*
- Nerve Transfer for Radial Palsy
Rodrigo Leite Ferreira, *Rui Ferreira, Gizelly Verissimo, Renata Leal*
- OBPP Surgical Strategy
Mohamed Kotb
- A Retrospective Study of Depression and Life Quality in Patients with Neuropathic Pain after Brachial Plexus Injury
Zhehui Tu, *Liqiang Gu*
- Evaluation modified technique of u-shape gracilis muscle flap in facial reanimation surgery
Mai Anh Bui, *Trung Truc Vu*
- Treatment of recent facial palsies
Andrea Ferri, *Andrea Varazzani, Bernardo Bianchi*
- Cross-face nerve grafting versus masseteric-to-facial nerve transposition for reanimation of incomplete facial paralysis: a comparative study using the facial climax evaluating system
Jesus Olivas-Menayo
- Early cases of facial nerve injury. Classification of zones of injury and strategy for reconstruction of each zone
Tarek Amer
- The masseteric nerve for facial reanimation: Macroscopic and microscopic characteristics regarding axonal load, fascicle structure, diameter and number of branches in 106 human cadavers
Andreas Kehrer, Marc Ruewe, Simon Engelmann, Veronika Mandlik, Christian Taeger, Ernst Tamm, Ronald Bleys, Lukas Prantl
- Correlation of Axonal Capacity with Microscopic Diameter of Facial Nerve Branches relevant for Facial Reanimation in 106 facial halves
Marc Ruewe, *Veronika Mandlik, Simon Engelmann, Christian Taeger, Ernst Tamm, Ronald Bleys, Lukas Prantl, Andreas Kehrer*
- Acute vs Late Extracranial Facial Nerve Branch(s) Repair: a Comparative Study
Alexander Hills, Ruben Kannan
- A Comparative Analysis between Selective Neurotisation, Selective Neurectomy and a 'Combo' Neurectomy-Neurotisation Procedure in the Management of Non-Flaccid Facial Paresis
Elena Pescarini, *Catriona Neville, Tamsin Gwynn, Karen Young, Charles Nduka, Ruben Yap Kannan*
- The Challenges of Nerve graft in nerve gap
Raj Kumar Manas
- Auto-allo graft parallel juxtaposition for improved neuroregeneration in peripheral nerve reconstruction based on acellular nerve allografts
Filippo Boriani, *Nicola Fazio, Nicoletta Zini, Francesca Pedrini, Nicolò Nicoli Aldini, Milena Fini, Lucia Martini, Marco Bernardini, Nicola Baldini, Claudio Marchetti, Davide Gravina, Federico Bolognesi*

17.05 - 18.15

ROOM INDACO

07.30 - 08.20	<p>INSTRUCTIONAL COURSES IC05 - Mastering CAD-CAM Technology and immediate dental rehabilitation <i>Evan Matros, Fu-Chan Wei</i></p>
10.00 - 10.20	<p>K-NOTE LECTURES K05 Hand Tip and tricks in toe-to-hand <i>Francisco del Piñal</i></p>
10.20 - 11.40	<p>PANEL SESSION P05 Hand Microsurgical versus conventional reconstruction in unsalvageable thumb <i>President: Francisco del Piñal Moderators: Wayne Morrison, Hiroyuki Gotani</i></p> <ul style="list-style-type: none"> • Overview <i>Wayne Morrison</i> • Conventional techniques <i>Neil Jones</i> • Partial great toe transfer (distal thumb reconstruction, when and why?) <i>Roberto Adani</i> • Thumb reconstruction using microsurgical, pedicled and Ilizarov <i>Hiroyuki Gotani</i> • Unusual reconstructions <i>Samir Kumta</i>
11.40 - 12.00	<p>SELECTED FREE PAPERS SFP 05 Thumb Reconstruction <i>Moderators: Wayne Morrison, Hiroyuki Gotani</i></p> <ul style="list-style-type: none"> • Functional outcomes of Toe transfers following Traumatic Thumb loss in Children <i>S. Raja Sabapathy, Hari Venkatramani</i> • Versatility and Customization of the Hallux Transfer for Reconstruction of the Defects of the Fingers and Thumb <i>Jorge Boretto, Gerardo Gallucci, Javier Bennice, Ezequiel Zaidenberg, Pablo De Carli</i> • One-stage reconstruction of thumb and first web space soft tissue defect by using toe-to-thumb transfer and free neurocutaneous flap <i>Xuanzhe Liu, Yimin Chai</i>
12.00 - 13.20	<p>PANEL SESSION P11 Urogenital Microsurgical management of complex urogenital defects <i>President: Jens Berli Moderators: Salvatore D'Arpa, Maija Kolehmainen</i></p> <ul style="list-style-type: none"> • Comparison between RFF And ALT flap phalloplasty based on 413 cases <i>Salvatore D'Arpa</i> • Minimizing Severity of Complications in Phalloplasty <i>Jens Berli</i>

ROOM INDACO

	<ul style="list-style-type: none"> • Vulvar and Vaginal Reconstruction using the “Angel Wing” Perforated-Based Island Flap <i>Sang Wha Kim</i> • Reconstruction of the pelvic floor, perineum and vaginal wall after perineal exenteration <i>Maija Kolehmainen</i> • Functional reconstruction of paralyzed bladder <i>Milomir Ninkovic</i> • Management of penile trauma <i>Mario Cherubino</i>
13.20 - 14.20	Lunch
14.20 - 15.40	<p>PANEL SESSION P17 Upper limb Complex nerve injuries reconstruction in upper limb: timing and techniques <i>President: Jason Ko Moderators: Taçkin Özalp, Bruno Battiston</i></p> <ul style="list-style-type: none"> • The influence of perfect revascularization for nerve regeneration in mangled hands with vascular and nerve damage <i>Ernesta Magistri</i> • Five times for peripheral nerve injury and surgery. The Chang Gung Memorial Hospital experience <i>David C.C. Chuang</i> • Restoring function for nerve injuries sustained in the battlefield: a US military perspective <i>Jason M. Souza</i> • Maximizing function using nerve transfers from shoulders to fingertips <i>Jason Ko</i> • Late reconstruction of elbow flexion using free and pedicled muscle flaps in complex nerve injuries <i>Mehmet Armangil</i> • Pitfalls in evaluating the outcomes of nerve transfers <i>Kazuteru Doi</i>
15.40 - 16.50	<p>FREE PAPERS FP 09 Upper limb <i>Moderators: Franco Bassetto, Marko Bumbaširevic</i></p> <ul style="list-style-type: none"> • Aspects of toe to hand transfers in children with the macrodactyly of the hand <i>Tatiana Tikhonenko, Sergey Golyana, Natalia Zaytseva</i> • Propeller flap of the 1st webspace of the hand <i>Albin Stritar, Marko Mikša, Luka Emeršic, Anže Arhar</i> • Twenty-four-year follow-up of type IIIB hypoplastic thumb reconstruction using a vascularized toe PIP joint transfer <i>Souichi Ohta, Naoki Nishijima, Ryosuke Ikeguchi, Takashi Noguchi, Hisataka Takeuchi, Sadaki Mitsuzawa, Shuichi Matsuda</i>

ROOM INDACO

- Thumb Reconstruction with Combination of the Wrap-Around Flap Prefabricated by Medialis Pedis Perforator Flap with Nail Bed and Phalanx Banked from the Amputated Thumb: a Case Report
Jia Xu, Gen Wen, Yimin Chai
- Reconstruction of hypoplastic thumb using hemi-metatarsal composite tissue transfer
Bin Wang
- Cleft Hand/Foot Toe-to-Hand Transfer: a Review of 18 Transfers in 14 Patients
Erin Taylor, Amir Taghinia, Jonathan Winograd, Joseph Upton
- A case of thumb fostering secondary replantation combined with metacarpophalangeal joint transplantation for treatment of thumb dislocation merge with first metacarpophalangeal joint damage
Wei Li, Bing Peng, HongYan Song, Bo Xiong
- Thumb Reconstruction with Transpositional Digital Replantation using Amputated Fingers in Multiple Digital Amputations
Heechan Ahn
- Infection rate in immediate vs delayed toe-to-thumb transfer
Matteo Ornelli, Giovanni Ruocco, Juste Kaciulyte, Nicola Felici
- Toe to thumb transfers - The Cyprus Experience 2005-2018
Alkiviadis Alkiviadous, Christian Fessas
- Toe to Hand Transfer in Children and Teenagers
Rui Ferreira, Rodrigo Leite Ferreira, Renata Leal, Gizelly Verissimo
- Venous mapping of volar forearm veins to select the optimum course of long vein grafts in replantation of avulsed thumb: a preliminary report to avoid discrepancy problem at anastomoses sites
Ahmed Hweidi, Ahmed Gad
- Replantation in children: literature review and experience of a major hand center
Davide Ciclamini, Stefania Vanni, Elisa Dutto, Matteo Ferrero, Chiara Arrigoni, Bruno Battiston
- Shunt-Restricted Arterialised Venous Flaps (SRAVF's) for Coverage Of Hand Defects
Sean Leow, Justin Yousef, Michael Findlay, Ross Farhadieh

16.50 - 17.05

Break

17.05 - 18.15

FREE PAPERS

FP 15 Upper limb

Moderator: Francisco del Piñal

- Microsurgical treatment of 41 complete ring amputations
Roberto Adani
- Our experience the last 4 years with degloving finger injuries
Ioannis Kaloudis, Georgia-Alexandra Spyropoulou, Leonidas Pavlidis, Anastasios Pagkalos, Theodoros Garoufalias, Efterpi Demiri

ROOM INDACO

- Study and follow up of semi hallux nail flap for fingertip reconstruction
Baoshan Wang
- Remote results of skin-bone reconstructions in severe injuries of hand and fingers
Timur Minaev, Shuhrat Muminov, Oleg Nizov, Jahongir Davlatov, Dilshod Hudaynazarov, Olimjon Ganiev
- Reconstruction of Finger and Hand Defects using the Perfotator Free Posterior Interosseous Artery Flap
Alper Aksoy, Daghan Dağdelen, Emin Sir
- Pediatric fingertip replantation: minimum 10-year follow-up
Feng Zhu, Weiwen Zhang
- Modification of a Free Radial Artery Superficial Palmar Branch Flap in Reconstruction of Various Finger tip Defects
Jong-Ick Whang
- Dorsal ulnar artery perforator free flap for finger soft tissue defect reconstruction
Janis Zarins, Dzintars Ozols
- Reconstruction of a phalangeal articular and bone loss using a vascularized osteochondral graft from the ulnar base of the little finger metacarpal
Maxim Melenciuc, Olesea Catarau, Anatolie Calistru
- Reliability of capillary refilling time for predicting early venous congestion in digit replantation
Yi Sun, Yimin Chai
- Reconstruction of finger composite defects with 4 types of free flaps
Olesea Catarau, Maxim Melenciuc, Anatolie Calistru
- Predictors of Survival Rate in Fingertip Replantation
Young Woo Kim
- Sensate ulnar parametacarpal perforator flap for finger resurfacing
Satoshi Usami
- Clinical experience of replantation of rotational avulsion thumb with retained metacarpophalangeal joints
Xuekai Fan, Xin Wang, Feng Zhu

ROOM BIANCA

07.30 - 08.20	<p>INSTRUCTIONAL COURSES IC06 - DIEP flap refinements: sensation, speedy, aesthetics <i>Aldona J. Spiegel, Rieka Taghizadeh, Maria Mani</i></p>
10.00 - 10.20	<p>K-NOTE LECTURES K06 VCTA Face Critical revision of face transplant <i>Laurent Lantieri</i></p>
10.20 - 11.40	<p>PANEL SESSION P06 VCTA VCTA. What is the future <i>President: Laurent Lantieri Moderator: Samir Mardini, Maria Siemionow</i></p> <ul style="list-style-type: none"> • Face Transplantation-The Past, the Present and the Future <i>Maria Siemionow</i> • Penile Transplantation - Is It Ready For Prime Time? <i>Curtis Cetrulo</i> • Eye transplant: where are we now? <i>Vijay S. Gorantla</i> • Technical challenges and refinements in face transplantation <i>Samir Mardini</i> • Hand allotransplantation: Benefit or Risk? <i>Yur-Ren Kuo</i>
11.40 - 12.00	<p>SELECTED FREE PAPERS SFP 06 VCTA <i>Moderators: Samir Mardini, Maria Siemionow</i></p> <ul style="list-style-type: none"> • Ten-year Follow-up on the First Face transplant in the United States and the Longest Living Composite Tissue Allograft Containing Vascularized Bone Maria Siemionow, Rebecca Knackstedt, James Gatherwright, Frank Papay, Steven Bernard, Graham Schwarz, Brian Gastman, Antonio Rampazzo, Bahar Bassiri • Technical Pearls and long term functional outcome of five double upper limb transplants from the Indian Subcontinent Mohit Sharma, Subramania Iyer • Abdominal wall transplantation with microsurgical technique: Bologna experience Valentina Pinto, Federico Contedini, Chiara Gelati, Antonio Daniele Pinna, Riccardo Cipriani
12.00 - 13.20	<p>PANEL SESSION P12 Nerves Traumatic nerve lesions in lower limb <i>President: Piero Raimondi Moderators: Bruno Battiston, A. Lee Dellon</i></p> <ul style="list-style-type: none"> • Introduction <i>Piero Raimondi</i>

ROOM BIANCA

	<ul style="list-style-type: none"> • Lumbosacral plexus lesions <i>Stefano Ferraresi</i> • Nerve repair with grafts <i>Nicola Felici</i> • Neurolysis of lateral femoral and femoral nerves after injury <i>A. Lee Dellon</i> • Nerve transfers <i>Jason M. Souza</i> • The anterior tibialis tendon rerouting technique in common peroneal nerve palsy <i>Ignazio Marcoccio</i>
13.20 - 14.20	Lunch
14.20 - 15.40	<p>PANEL SESSION P18 Bone reconstruction Epiphyseal transplant: state of the art <i>President: Marco Innocenti Moderators: Simo K. Vilkki, Jiantao Yang</i></p> <ul style="list-style-type: none"> • Epiphyseal transplant after sarcoma resection in children: long-term results <i>Marco Innocenti</i> • Vascular anatomy of the proximal fibular epiphysis <i>Jiantao Yang</i> • Retrospective review of free fibule transfer in pediatric sarcoma: a single centre study of epiphyseal transfers <i>Paul Roblin</i> • Vascularized proximal fibular epiphyseal transfer for Bayne and Klug type III radial longitudinal deficiency in pediatric patient <i>Jiantao Yang</i> • The Vilkki procedure in radial longitudinal deficiency <i>Simo K. Vilkki</i>
15.40 - 16.50	<p>FREE PAPERS FP 10 VCTA <i>Moderators: Adriana Cordova, Günter Germann</i></p> <ul style="list-style-type: none"> • Developing abdominal wall allotransplantation program-preliminary cadaveric studies Andreea Grosu-Bularda, Adrian Pelinaru, Luana Lazarescu, Liviu Cojocaru, Matei Iordache, Alexandru Stoian, Ioan Lascar • Progress Report of Hand Allotransplantation Program in Taiwan Yur-Ren Kuo, Chien-Chang Chen, Cheng Hung Lin, Fu-Chan Wei • Anatomical study and model for a face, mandible and temporomandibular joints allotransplantation <i>Teresa Núñez-Villaveirán, Vahe Fahradyan, Edoardo Dalla Pozza, Majid Rezaei, Rosario Madero, Richard L. Drake, Lyman Jellema, Bahar Bassiri-Gharb, Frank Papay, Antonio Rampazzo</i>

ROOM BIANCA

- Occlusal and Dental Outcomes Following Facial Allotransplantation
Fatma Betul Tuncer, Bahar Bassiri Gharb, Risal Dhojan, Brian Gastman, Steven Bernard, Mark Hendrickson, Graham Schwarz, Raffi Gurunluoglu, Maria Siemionow, Frank Papay, Antonio Rampazzo
- A European Perspective of Cost Effectiveness of the Facial CTA
Tiffanie-Marie Borg, Seema Yalamanchili, Shadi Ghali, Simon Myers, Simon Holmes, Ali Ghanem
- Metabolic Profiling of Skeletal Muscle During Ex-Vivo Normothermic Limb Perfusion
Elizabeth Rohde, Maryam Goudarzi, Maria Madajka, Carlos Ordenana, Majid Rezaei, Sayf Al deen Said, Vahe Fahradyan, Edoardo Dalla Pozza, Henri Brunengraber, Srinivasan Dasarathy, Antonio Rampazzo, Bahar Bassiri Gharb
- Ex Vivo Normothermic Perfusion Preserves Human Upper Extremities for Up to 50 hours
Carlos Ordenana, Majid Rezaei, Sayf Al deen Said, Vahe Fahradyan, Edoardo Dalla Pozza, Maria Madajka, Michael Annunziata, Francis Papay, Antonio Rampazzo, Bahar Bassiri Gharb
- Restoring Facial Form and Function With Vascularised Composite Autologous Transplantations
Rumi Kisyova, Elena Pescarini, Brian Bisase, Paul Norris, Charles Nduka, Jagtar Dhanda, Isao Koshima, Ruben Yap Kannan
- Reconstruction of Segmental Nonunion of the Clavicle - The Vascularized Medial Femoral Condyle Free Flap
Tony C.T. Huang, M. Diya Sabbagh, Chun-Kuan Lu, Scott P. Steinmann, Steven L. Moran
- Anatomical study of pedicled vascularized fibula graft and its clinical applications in the reconstruction of distal femur
Hideo Hasegawa, Takamasa Shimizu, Shohei Omokawa, Kenji Kawamura, Kanit Sananpanich, Pasuk Mahakkanukrauh, Yasuhiro Tanaka

16.50 - 17.05

Break

FREE PAPERS

FP 16 Lower limb

Moderators: Zoran M. Arnež, Lawrence Colen

17.05 - 18.15

- Plantar reconstruction: long-term outcomes and quality of life
Paul Heidekrueger, Lukas Prantl, Aung Thiha, Milomir Ninkovic, Denis Ehrl, Niclas Broer
- EMPFF - extended medial plantar free flap
Tomas Kempny, Martin Knoz, Jakub Holoubek, Bretislav Lipový
- Clinical application of computer assisted technique to design polyfoliate perforator flap pedicled on the descending branch of the circumflex femoral lateral artery to reconstruct the defects of the heel
Zhengbing Zhou
- Long term follow up for total calcaneal bone reconstruction using vascularized composite pedicle fibula growth plate transplantation for 5 years old boy. Case report
Maris Krumins, Dzintars Ozols, Kristaps Blums

ROOM BIANCA

- Plantar flap preformed by fascial anterolateral thigh flap for the heel region reconstruction
Elena Afonina, *Andrey Sheleg, Rodion Osipov*
- A modified technique to improve reliability of distally-based sural fasciocutaneous flap: sloped design of skin island
Ling-Li Zhou
- Comparison between peroneal artery perforator-plus sural neurofasciocutaneous flaps with high and low pivot point
Ping Peng
- Medial Sural Artery Perforator flaps (MSAP): a versatile and multi-purpose flap for lower extremity reconstruction
Sarah Alhimdani, *Andrew Simpson, Thomas Wright, Thomas Chapman, Umraz Khan*
- The Recontouring of Soft Tissue Defects Around Foot and Ankle with Free ALT Perforator Flaps
Turan Mehdizade, *Osman Kelahmetoglu, Musa Kemal Keles, Mustafa Unal, Ethem Guneren*
- The free calcaneus osteocutaneous fillet flap after traumatic amputation in lower extremities: flap design and harvest technique
Shengdi Lu
- Posterior tibial artery perforator pedicle propeller flaps for soft tissue coverage of the lower leg and foot defects
Fang Yu, *Juyu Tang*
- Repair of complex lower extremity defects with cross-leg free latissimus dorsi flap
Mohamed Elyounsi, *Mugahed Hussein, Omar Refai, Yasser Farouk, Waleed Riad, Amr Elsayed Ibrahim, Tarek Elgammal*
- Lateral Calcaneal artery: Recipient vessel for post traumatic microsurgical heel and foot reconstruction
Rajendra Nehete, *Al Iqyuan Hidvi*

ROOM VERDE

FREE PAPERS

FP 01 Flaps

Moderators: Amin Ayman, Randy Sherman

- Free abdominal flap breast reconstruction using internal mammary vessels as recipient vessels. A clinical study investigating perfusion dynamics in abdominal skin using Dynamic Infrared Thermography
Solveig Nergaard, James Brian Mercer, Louis de Weerd
- A less invasive and continuous free flap monitoring procedure using transcutaneous carbon dioxide pressure measurements
Yoshiro Abe, Ichiro Hashimoto
- Transplanting the posterior interosseous artery perforator lobulated flap to repair soft tissue defect on fingers
Xiaoming Cai, Feng Zhu, Hong Chen, Jian Zhang
- The application of freestyle concept in anterolateral thigh flap with oblique branch
Haoliang Hu, Xueyuan Li, Wenquan Ding, Yaopeng Huang
- Repairing donor site of foot after improved toe-to-thumb reconstruction utilizing superficial circumflex iliac artery perforator chimeric flap
Yaopeng Huang, Jiadong Pan, Miao Zhong Li, Hong Chen
- Repairing skin defect of the finger with the free flap which with tendon pedicled on the palmar branch of the supracarpal perforator of ulnar artery
Jianwu Qi, Libing Cai, Xueyuan Li, Weiwen Zhang
- A treatment of the severed palm with degloved or avulsed skin
Yitong Chai, Weiwen Zhang, Hong Chen, Junjie Li
- Low Temperature Burn on Replanted Fingers and Free Flaps in Hand
Saehwi Ki
- Perforator flaps based on the terminal perforators of the pectoral branch of thoraco-acromial vessels axis: a viable option in the head and neck reconstructions
Badamutlang Dympep, Thalaivirithan Margabandu Balakrishnan, Janardhanam Jaganmohan
- Free vascularized medial femoral condyle osteoperiosteal flaps for the treatment of recalcitrant upper limb nonunions
Mehmet Ali Acar, Ali Özdemir, Egemen Odabaşı
- Modified Lateral Gastrocnemius Myocutaneous Flap with extended anterior boundary: anatomic study and clinical application
Jian-Wei Wei
- Supracondylar Femur Fracture: a Rare Complication in Vascularized Medial Supracondylar Femur Bone Grafting
Sotetsu Sakamoto, Yasunori Hattori, Kouta Hayashi, Kazuteru Doi
- Vascular mapping in free-based flaps planning. Comparative study between different methods in detecting perforators
Asia Torres Pérez, María Gijón Vega, Jesús González Martínez, Javier Montón Echevarría, Miguel Dobón Roux, Óscar Pérez González
- Donor site pain control after free fibular flap using mini-catheter Ropivacaine infusion
Stefan Cocis

10.00 - 11.40

ROOM VERDE

- A New Lymphatic Reconstruction using Lymph-Axiality-Based (LAB) Flaps: No Supermicrosurgery, No Lymph Node
*Rico Yamamoto, Yuma Fuse, **Takumi Yamamoto***
- Skinless hand by degloving injury: reconstruction & rehabilitation
***Xin Wang**, Jiadong Pan, Miaozhong Li, Yaopeng Huang*
- Clinical studying on the reconstruction of extremity skin defect by free iliogroin skin flap
***Weiwen Zhang**, Jianwu Qi, Xueyuan Li, Jiadong Pan*
- Free flap monitoring, salvage and failure timing: systematic review
*Sarah Lonie, Amanda Shen, Hannah Farthing, Ayushica Saran, Lachlan Shaw, David Hunter-Smith, **Warren Rozen***
- New design of lateral intercostal artery perforator flap for closing breast defects
***Ilya Kazantsev**, Alexandr Tsucanov*
- Anterolateral Thigh Perforator Flap Design by Using Computed Tomographic Angiography
***Zülfükar Ulaş Bali**, Yavuz Kececi, Yüksel Pabuçcu, Aziz Parspanci, Levent Yoleri*

Moderators: Carolyn De La Cruz, William C. Pederson

- The clinical application of type I venous flap of volar forearm in complicated replantation of fingers
***Bin Zhu**, Jiadong Pan, Feng Zhu, Jian Zhang*
- Perfusion assessment of DIEP flaps based on near-infrared fluorescence imaging: a pilot study
***Marlies Michi**, Babs G. Sibinga Mulder, Alexander L. Vahrmeijer, Pieter S. Verduijn*
- Lower limbs Gustilo III B - III C damage a period fixed flap coverage and lessons
Yuqi Zheng
- Indocyanine green to demonstrate the viability of a free flap using the retrograde internal mammary artery as recipient vessel in breast reconstructions
***Evelien T. van Lierop**, Babs G. Sibinga Mulder, Richelle J.M. Hoveling, Alexander L. Vahrmeijer, Pieter S. Verduijn*
- Routine venous supercharge of reverse sural flaps
***Timur Igimbayev**, Konstantin Vasilev, Sergey Smidth*
- Chimeric Multiple Perforator Fibula Flap (CMPFF): Expanding Single Flap Reconstruction and Optimizing Donor Site Morbidity
*Luiz Henrique Silva Borges, **Guilherme Barreiro**, Chelsea Snider*
- The clinical application of digital assisted technique in repairing limb wounds with anterolateral femoral free flap
***Yipeng Wu**, Yongqin Xu*
- Bone junction and consolidation in case of long bone defect reconstructed by free vascularized fibula graft
***Maksim Sautin**, Bella Gazimieva, Andrey Maksimov, Oleg Bushuev, Maksim Merkulov, Ilya Kutepov, Igor Golubev*
- Smartphone-operated near-infrared thermal imaging as monitoring and survival prediction tool in perforator flaps. An experimental model on pigs
***Johannes Schmidt**, Bogdan Hoinoiu, Mihai Ionac, Alexandru Nistor*
- Rosuvastatin decreases weight instead of decreasing skin flap necrosis
***Ahmet Demir**, Emrah Kagan Yasar*

11.40 - 13.20

ROOM VERDE

- Medial femoral condyle corticoperiosteal flap: anatomic study
Gustavo Bersani Silva
- Neurovascular Anatomy at the “Box Junction”: Considerations in the Anterolateral Thigh Flap
Max Stewart, Ahid Abood, Cecilia Brassett
- Surgical Anatomy of the Chimeric Free Ulnaris Forearm - Pronator Quadratus Muscle Flap for the Reanimation of the paralyzed face: a Fresh Cadaveric Study and Clinical Implications
Aaron Metz
- The Use of Intercalary Vascularized Fibula Flap and Massive Bone Graft for Oncological Reconstruction, Saudi Arabia, 2018
Asmaa Z. Bin Mahmoud, Muhammad Almutairi, Khawlah Ateeq, Ahmed Aljumaiha, Wazzan Aljuhani, Salah Aldekhayel, Nasser Alhodaib
- Five-Year Review Outcome of Microvascular Free Flaps of a Single Operator in Jakarta
Sara Ester Triatmoko, Parintosa Atmodiwiryo
- Decibel meter for perforator flap assessment and planning
Beatriz Hatsue Kushida-Contreras, Miguel Angel Gaxiola-Garcia
- Latissimus dorsi-rib osteomyocutaneous flap for composite cranial defects: a case series and anatomical study
Majid Rezaei, Michael Annunziata, Richard Drake, Bahar Bassiri Gharb, Antonio Rampazzo
- Risk for Venous Thromboembolism Events in patients undergoing breast reconstruction with autologous free abdominal flap (DIEP). Emphasis in individualized treatment
Antonios Tsimponis, Alexandros Sarafis, Dimitrios Dionyssiou, Georgia-Alexandra Spyropoulou, Eferpi Demiri
- Vascularised Free Fibula Flap with Extracorporeal irradiated Autogenous Intercalary Bone Graft for Long Bone Reconstruction Following Tumour excision
Abhijeet Sawant, Amresh Baliarsing, Manish Agarwal
- Vascular anatomy and Clinical Application of Free Ulnar Artery Proximal Perforator Flaps
Alberto Bolletta, Mario Cherubino, Corrado Rubino

13.20 - 14.20

Lunch

FREE PAPERS

FP 03 Basic Research and Microsurgical Training

Moderators: Paul S. Cederna, Martin Halle

- Treatment of delayed nerve repair with chitosan tubes enriched by fresh skeletal muscle fibers: an experimental study
Alessandro Crosio, Giulia Ronchi, Stefania Raimondo, Bendetta Elena Fornasari, Giovanna Gambarotta, Bruno Battiston, Stefano Geuna, Pierluigi Tos
- Decellularized nerve: research of the more reliable method
Simona Odella, Alessandro Crosio, Arianna Lovati, Stefania Raimondo, Marwa Mohamed Emadeldin Ali Mahmoud El Soury, Stefano Geuna, Pierluigi Tos
- Effects of Various Selective Nerve Transfers on the Adult and Neonatal Motor Unit
Dieter Depisch, Matthias Sporer, Martin Aman, Bruno Podesser, Oskar Aszmann
- Extracellular vesicles from mesenchymal stem cells: can they modulate ischemia-reperfusion injury in microsurgical free skin flaps?
Alberto Ballestín, Javier G. Casado, Elena Abellán, F. Javier Vela, Jose Luis Campos, Verónica Álvarez, Rebeca Blázquez, Francisco Miguel Sánchez-Margallo

14.20 - 15.40

ROOM VERDE

- Transit Time Ultrasound Flow Measurement as Intraoperative Decisional Tool for Flap Revision and Monitoring in Sub-Millimeter Flap Vessels. An experimental model in rats
Phillip Meibert, Horatiu Adrian Nistor, Bogdan Hoinoiu, Mihai Ionac, Alexandru Nistor
- Low Dose Propranolol Significantly Decreases Surgical Hand Tremor in Microsurgery - A Randomised, Double-Blinded, Placebo-Controlled Experimental Study
Ana-Maria Ciura, Adina Ionac, Mihai Ionac, Alexandru Nistor
- Rapid Prototyping using Additive Manufacturing applied in Microsurgery: a 3D-printed retractor for open surgery on rats
Jonas Berken, Bogdan Hoinoiu, Mihai Ionac, Alexandru Nistor
- A Quantitative Analysis of the Sensory and Motor Fibres of the Major Nerves in the Human Arm
Oskar Aszmann, Bernhard Gesslbauer, Johannes Mayer
- Technical difficulty in identification of lymph node during vascularized submental lymph node flap harvest with special reference to micro-lymph nodes
Nutcha Yodrabum
- Effect of Curcumin and Platelet-Rich Plasma on Axonal Regeneration in Acute Sciatic Nerve Injuries: an Experimental Study in a Rat Model
Abraham Zavala, Peggy Martinez, Geovanna Gutierrez, Marino Dante Vara, Wieslawa De Pawlikowski
- Underrepresentation of Women in Plastic Surgery Editorial Boards
Lacey Pflibsen, Shelley Noland, Brittany Foley
- Micro-anastomosis made easy with shira clamp - a series of 20 cases for head and neck reconstruction
Amit Mulay, Vishwanath Jigjinni
- Onlay vascularized fibular grafting as a salvage procedure for the management of nonunion after reconstruction of the femur following tumor resection
Jin Sung Park, Jae Hoon Lee, Jong Hun Baek, Duke Whan Chung, Young Jun Kim, Seung Hyun Song
- Studying nerve transfers: searching for a consensus in nerve axons count
Michele R. Colonna, Riccardo Giunta, Konstantinos Natsis, Nikolaos A. Papadopoulos, Robert Schmidhammer, Christine Radtke, Oscar Aszmann, Adriana Cordova, Francesca Toia, Massimiliano Tripoli, Alfio Costa, Francisco Soldado, Jayme Augusto Bertelli, Franco Bassetto, Cesare Tiengo, Bruno Battiston, Paolo Titolo, Pierluigi Tos, Andrea Porzionato, Stefano Geuna
- Microsurgical induced secondary lymphedema in-vivo model resembles stadium migration associated to high TGFβ1 expression and myofibroblast mesenchymal transition
Patrick Will
- Effects of vasopressors on circulation of porcine abdominal island flap model
Jae Ho Chung

ROOM VERDE

Moderators: Hannu Kuokkanen, Filippo Maria Senes

- Vascular microsurgery training course: 40 years at CMN 20 de Noviembre, ISSSTE
Luis Padilla
- Application of Innovative Adventitia holding Microclamps by Trainee Surgeons: our Experience
Shivangi Saha, Maneesh Singhal, Shashank Chauhan, Raja Tiwari
- Synthetic tissue and organ models for surgical simulations
Ozge Akbulut, Burcin Ustbas, Deniz Kilic, Cem Yilmaz, Mehmet Bayramicli
- Over 30 years of Microsurgical Training in Slovenia
*Marko Mikša, **Albin Stritar***
- The effect of stress on quality of microsurgical anastomosis
Mai Rostom, Jill Baker
- Microvascular anastomotic coupler application learning curve in ex-vivo simulation: deliberate practise versus proficiency?
Georgios Pafitanis
- In Support of Competency Based Training for Microsurgery Fellowship Applicants
Anna Schoenbrunner, Adrian Diaz, Matthew Chetta
- Prospective Trial Comparing 3D vs. Conventional Microscope During Reconstructive Microsurgery: do We See a Difference?
Krishna Vyas, Oscar Manrique, Brian Carlsen, Mark Morrey, Pedro Ciudad, Joseph Banuelos, Hung-Chi Chen
- Evaluation of a Longitudinal Residency-Integrated Microsurgery Course (RIMC)
*Paige Myers, **Miranda Chacon**, Alap Patel, Drew Mitchell, Jonathan Leckenby*
- Development of a 3D-printed training tool with multi-axial/angular vessel orientation for microvascular anastomosis
Feras Alshomer, Abdulaziz Alhujayri, Ghazi Althubaiti
- A Structured Educational Course Can Greatly Enhance Resident Comfort and Enthusiasm in Microsurgical Training
*Nicholas Albano, Weifeng Zeng, Nikita Shulzhenko, Sarah Lyon, Aaron Weiland, Ashish Mahajan, **Samuel Poore***
- Applying the conditions of Deliberate Practice to microsurgery training: exceptional development, not talent is key
Mark Gorman, Theodore Nanidis, Julia Ruston
- Do-It-Yourself Home Training Tool for Improvement of Microsurgical Skill Acquisition
Tanita Man, Corina Borza, Mihai Ionac, Alexandru Nistor
- Microsurgical training opportunities in a high volume UK-based breast reconstruction service
John Henton, Juan Enrique Berner, Alex Molina
- The Microsurgical Training Program of the Italian Society for Microsurgery
Pierluigi Tos, Salvatore D'Arpa, Ignazio Marcoccio, Andrea Antonini, Roberto Baraziol, Marco Pignatti, Cristina Garusi, Alessandro Crosio, Francesco Moschella, Filippo Maria Senes

15.40 - 16.50

16.50 - 17.05

Break

ROOM VERDE

FREE PAPERS

FP 17 Miscellaneous

Moderators: TC Teo, Nicola Felici

- Microsim: a novel portable optic microscope and synthetic vessels kit for remote microsurgery training
Alfonso Navia, Rodrigo Tejos, Sebastian Canahuate, Eduardo Machuca, Alvaro Cuadra, Bruno Dagnino
- Microsurgical training with arteriovenous fistulas
Mitja Oblak, Saša Hlede, Oleg Stanic Gruden, Krunoslav Margic
- Cognitive Distraction in Microsurgical Skills Training and its Effect on Performance in Plastic Surgery Trainees
Shane Carr, Shirley Potter
- Teaching MicroSurgery: 1 Method, 1 Teacher with more than 800 trained worldwide
Gustavo Perez-Abadia, Lukas Pindur, Johannes Frank, Ingo Marzi, Sean M. Carroll, Luis Schnapp, Paul Werker, Xavier Libouton, Markus Spingler, John H. Barker, Michael Sauerbier
- “Like with like?” - a principle for microsurgery training
Nikolaos Vlassis, Ali M. Ghanem
- The microsurgical training, on ex-vivo ovine model, for the facial nerve reanimation surgery
Michael Ghirelli, Marco Bonali, Ignacio Javier Fernandez, Francesco Mattioli, Livio Presutti
- How to build and run a standardized nationwide basic microsurgery course: a 20 years experience of Turkish Society for Reconstructive Microsurgery
Serhan Tuncer
- Study of lymph node vascular relationships of the inferior epigastric veins: the solve anatomical study
Cynthia de Courcey, Christopher Macdonald, Katy Wallis, Joseph Hardwicke, Joanna Skillman
- Putting Flaps Back To Work: Restoring Limb Function Through Innovative Flap Design
Juan Rendon, Rajiv Chandawarkar
- Surgical zones of ulnar nerve: an algorithm for management of ulnar nerve injuries (sunderland grade V)
Samir Ghoraba
- Nerve transfer vs. nerve grafts outcomes in axillary nerve isolated lesion
Nicola Felici, Giovanni Ruocco, Juste Kaciulyte, Matteo Ornellì
- Targeted muscle reinnervation: TMR
Andrea Morellini, Rossella Sgarzani, Francesca Vincitorio, Irene Fascie, Andrea Giovanni Cutti, Diego Garbadossa, Davide Melandri, Guido Staffa
- Preoperative EMG evaluation predicts synchronicity of smile development in facial palsy patients undergoing reanimation with the masseteric nerve: a prospective cohort study
Jurij Kiefer, Yvonne Lenz, G. Bjoern Stark, Steffen U. Eisenhardt

17.05 - 18.15

FREE PAPERS

FP 02 Lower Limb

Moderators: Pierluigi Tos, Erkki Tukiainen

- Limb Salvage rates and functional outcomes using a Longitudinal Slit Arteriotomy End to Side Anastomosis for Limb threatening defects in a High-risk, Comorbid Patient Population
*Kenneth L. Fan, **Cara K. Black**, Kyle B. Luvisa, Vikas S. Kotha, Michael V. Defazio, Karen K. Evans*
- Is Early Compression Therapy after Perforator Flap Safe and Reliable?
***Han Gyu Cha**, Hyunsuk Peter Suh, Joon Pio Hong*
- Femoral Cutting Guides: CAD-CAM aided fibula free flap reconstruction for the treatment of femoral non-union
***Federico Facchin**, Vittorio Ramella, Luigi Murena, Andrea Frasca, Zoran Marij Arnež*
- Extensor Digitorum Brevis Muscle Flap - Excelent option in lateral malleolar defects
***Luís Mata Ribeiro**, Luís Vieira, Sara Carvalho, Diogo Guimarães, Manuel Vilela*
- Patient reported outcomes in free flap reconstruction for complex lower limb trauma
***Nalin Nagrath**, Andrew Hotchen, Maria Dudareva, Ahid Abood*
- Comparative Effectiveness Analysis of Complex Lower Extremity Reconstruction: Outcomes and Costs for Biologic-Based, Local Tissue Rearrangement, and Free Flap Reconstruction
***Geoffrey Kozak**, Jesse Hsu, Robyn Broach, Sameer Shakir, Catherine Calvert, John Stranix, Stephen Kovach, John Fischer, Joseph Serletti*
- Matched Comparison of Microsurgical Anastomoses Performed with Loupes Magnification Versus Operating Microscope in Traumatic Lower Extremity Reconstruction
*John T. Stranix, Said Azoury, Z-Hye Lee, **Geoffrey Kozak**, Natalie Plana, Vishal D. Thanik, Pierre B. Saadeh, Jamie P. Levine, L. Scott Levin, Stephen J. Kovach*
- Venous Duplex ultrasound screening for occult deep vein thrombosis in lower limb injury requiring microsurgical reconstruction
***Charlotte Bendon**, Alexandra Crick*
- Distal Perforator-Only Retrograde Flow ALT Flap For Closure Of ALT Donor Site
***Apostolos Vlachogiorgos**, Nikolaos Tsapralis, Damir Kosutic*
- A Novel Approach to Improve Safety in 2-Stage Microsurgical Reconstruction of Complex Lower Limb Defects
***Justin Yousef**, Anna Dargan, Michael Findlay, Ross Farhadieh*
- Induced membrane technique combined with anteriolateral thigh flap transfer for repair of complex tissue defect of the lower extremity
Yunsheng Teng Teng
- Is Profunda Artery Perforator Flap promising for lower limb reconstruction?
***Megha Sodhi**, Raja Tiwari, Maneesh Singhal*
- Lower Extremity Reconstruction using Lateral Circumflex Femoral Vessel Interposition Graft
Changsik Pak

10.00 - 11.40

ROOM ROSSA

- Comparison of subacute and delayed period free flap reconstructions in the treatment of open lower extremity fractures
Anil Demiroz, Hakan Arslan
- Current Concepts: Techniques in Lower Extremity Hernia Repair
*Brendan Alleyne, Paul Durand, **Risal Djohan***
- Complications and outcomes of different treatments used for reconstruction of severe open tibial fractures
Kristaps Blums, Janis Zarins, Dzintars Ozols, Janis Krustins, Aivars Tihonovs, Ervins Lavrinovics, Martins Kapickis, Kalvis Pastars
- Staged Reconstruction in Patients with Massive Soft Tissue Defects
Hii Sun Jeong, Seong Joo Lee, Jun Won Lee, In Suck Suh
- Preserving The Blood Flow of Recipient Arteries in Cross-leg Free Flaps for Lower Extremity Reconstruction
Berrak Karatan, Ulas Bali, Yavuz Kececi, Levent Yoleri
- Anatomical variability of the sural nerve: its significance and applications in the distally based reverse rural flap in lower limb reconstruction
Cheryl Hui, Bien Keem Tan
- A Comparison of Fasciocutaneous and Adipofascial Methods
*Jae Hoon Lee, **Seung Hyun Song, Tae Woog Kim***

Moderators: Andres Rodriguez Lorenzo, Andrea Figus

- A retrospective audit of lower limb ALT flaps at a major trauma unit in western Australia
*Shahriar Raj Zaman, Dariush Nikkhhah, Elnaz Masoumi, Edmund Fitzgerald-O'Connor, **Jeremy Rawlins***
- The medial sural artery perforator flap is an optimal flap in lower limb reconstruction
Patrik Velander
- Comparative study of sole of foot reconstruction with free latissimus dorsi flap versus anterolateral thigh flap
Akshay Kumar Rout
- Patient Height, Weight, BMI and Age as Predictors of Gracilis Muscle Free-Flap Mass in Lower Extremity Reconstruction
Carlo Maria Oranges, Mathias Tremp, Wenjin Wang, Srinivas Madduri, Pietro Giovanni di Summa, Reto Wettstein, Dirk Johannes Schaefer, Daniel Felix Kalbermatten
- Angiosome of the chimeric SLGA perforator flap - anatomical study and clinical considerations
Clemens Gstöttner, Johannes A. Mayer, Martin Aman, Stefan Salminger, Heinz Bürger, Lena Hirtler, Wolfgang Weninger, Oskar C. Aszmann
- Clinical application of three dimensional printed navigation templates for treatment of osteonecrosis of femoral head with pedicled iliac bone graft
Xingbo Cai, Yongqin Xu
- Risk Factors for Amputation Following Lower Extremity Free Tissue Transfer in a Chronic Wound Population
Vikas Kotha, Peter Wirth, Elliot Walters, Cara K. Black, Christopher Attinger, Karen Evans

11.40 - 13.20

ROOM ROSSA

- Potential virulence of MRSA and Enterococcus in patients undergoing free tissue transfer for chronic, non-healing lower extremity wounds
*Liz Zolper, **Vikas Kotha**, Elliot Walters, Emilie Fortman, Cara K. Black, Christopher Attinger, Karen Evans*
- A 'new' toe island flap
Luciano Torres, Daniel Rebolledo, Marcelo Kohara, Luiz Sorrenti, Marco Yanes, Rames Mattar Jr.
- Hsu-Hsi Cheng and the enlarged gastrocnemius musculocutaneous versatile flap
*Luiz Sorrenti, Rames Mattar Jr., **Luciano Torres**, Raquel Iamaguchi, Ana Carolina, Silva Aline, Guimaraes-Gubolin*
- Availability of Recanalized Vessels with Percutaneous Transluminal Angioplasty as A Recipient in Patients with Peripheral Obstructive Arterial Disease
Donghyeok Shin
- Treatment of osteomyelitis in lower extremity using free vascularized bone graft
Ryosuke Ikeguchi, Souichi Ohta, Hisataka Takeuchi, Sadaki Mitsuzawa, Shuichi Matsuda
- pMFC+C: the periosteal Medial Femoral Condyle free flap plus Cerament for the treatment of extremity osteomyelitis
Kavan Johal, Nadine Hachach-Haram, Asmat Din, Ash Vasireddy, Paul Harnett, Edmund Fitzgerald O'Connor, Victoria Rose
- Time to Intravenous antibiotic Administration (TibiA) in severe open tibial fractures: impact of change to national guidance
Susan Hendrickson, Richard Donovan, Luke Harries, Thomas Wright, Michael Whitehouse, Umraz Khan
- Outcome post functional reconstruction of posterior thigh compartmentectomy
*Daniel Rittirsch, James Wiffen, Daniel Keating, **Eldon Mah***
- Open tibial fractures in Major Trauma Centres: a national prospective cohort study of current practice
Katie Young
- Tailored ALT Free flap for Three-Dimensional Reconstruction of Composite Leg Defect Following Trauma
*Hari Venkatramani, **Mohamad Rachadian Ramadan**, S. Raja Sabapathy, Ravindra Bharathi R., Sanjai Ramkumar, M. Senthil Kumaran, Madhu Periasamy, Raja Shanmuga Krishnan*
- Role of Cross leg flap in modern era - undervalued saviour in microsurgical centre - analysis of 198 patients
*Krishnan Srinivasan, **Ravi Mahajan***

13.20 - 14.20

Lunch

ROOM ROSSA

FREE PAPERS

FP 04 Upper Limb

Moderator: Alexandru Nistor

- Use of medial femoral condyle flap for treatment of non-union and avascular necrosis of the upper limb. Cadaveric study and morbidity analysis of 18 cases
Gonzalo Mallarino, Camilo Romero
- Histologic Analysis of the Nail Apparatus in Regard to Subungual Melanoma: Anatomical Study in 21 Cadavers
*Hyeonwoo Kim, Julong Hu, **Hyokyung Yoo**, Na Hee Yu, Kyung-Won Minn, Young-Eun Kim, Hak Chang, Sung Tack Kwon, Byung Jun Kim*
- Reconstruction after high-pressure injection injury to dominant hand
Elisabeth Zetlitz, Christina Miksch, Torunn Nesvik, Kristin Furholt
- Escharotomy-like procedure for prevention of digits autoamputation in Harlequin ichthyosis
Yu-Ying Chu, Han-Tsung Liao, Che-Hsiung Lee
- Indications of medial femoral trochlea (MFT) free flap in the treatment of different stages of Kienböck's disease
Christian Windhofer, Josef Schauer, James Higgins, Heinz Bürger
- Antibacterial prophylaxis in hand trauma
Vadims Nefjodovs, Dzintars Ozols, Janis Zarins, Kalvis Pastars, Martins Kapickis, Aivars Tihonovs
- A sensory free proximal ulnar artery perforator flap based on pure perforator anastomosis for the hand reconstruction
Jiadong Pan, Weiwen Zhang, Xueyuan Li, Xiaofeng Teng
- Upper Limb Salvage: a Management Algorithm from The Royal London Hospital Plastic Surgical Trauma Unit
Natalie Pease, Robert Miller, G.S. Pahal
- Transverse versus Vertical perforator free flap originated from radial artery superficial palmar branch
Emin Sir, Alper Aksoy, Daghan Dagdelen
- Predictable anatomic relation between the Deep Branch of the Ulnar Nerve and Kaplan line
Alfio Luca Costa, Marco Romeo, Antonina Fazio, Konstantinos Natsis, Michele Rosario Colonna
- Innovations in man-machine interface for control and feedback of bionic prostheses
Martin Aman, Matthias Sporer, Christopher Festin, Konstantin Bergmeister, Oskar Aszmann
- Sonoelastography in carpal tunnel syndrome diagnosis: a Systematic Review of diagnostic value
*Yu-Te Lin, **Che-Hsiung Lee**, Chen-Te Wu, Cheng-Hung Lin, Shih-Heng Chen, Chung-Chen Hsu*
- First Metatarsal Artery Perforator Flaps - The Cyprus Experience 2016-2018
Christian Fessas, Alkiviadis Alkviadous
- Pedicled osteoperiosteocutaneous radial forearm flap for treatment of ulna or radius shaft defects - long term follow-up study
Marek Molski, Maria Molska

15.20 - 16.50

ROOM ROSSA

	<ul style="list-style-type: none"> • The first Targeted Muscle Reinnervation (TMR) in Finland - a case report Ian Barner-Rasmussen, <i>Emilia Siponen, Matti Hakkarainen, Simo Mattila, Georgios Pierides, Eero Waris</i> • Alt flap versatility from the plastic and reconstructive surgery resident's point of view after Chang Memorial Hospital observership Erman Ak, <i>Burak Sercan Erçin, Ömer Berköz, Mehmet Erdem, Atakan Aydın</i> • Shark Attack! A case of complex upper limb reconstruction following shark bite <i>Peter Van Den Bosch</i>, Log Murugesan, <i>Emily Kenefick, Juliette Bray, Alex Woollard</i> • Nonvascularized autogenous bone graft and axial flap for treatment of hook nail deformity Toshihiro Ishiko, <i>Koh Ogawa, Kozo Ishikawa</i>
16.50 - 17.05	Break
17.05 - 18.15	<p>FREE PAPERS FP 18 Nerves <i>Moderators: Ronald Zuker, Stefano Geuna</i></p> <ul style="list-style-type: none"> • Effectiveness of ultrasonography to diagnose nerve injuries of the wrist and hand Yoshitaka Tanaka • Application of Human Epineural Sheath Conduits Supported with Human Mesenchymal Stem Cells Enhances Nerve Regeneration and Prevention of Denervation Atrophy in Athymic Nude Rat Experimental Model <i>Marcin Strojny</i>, Maria Siemionow • Endoscopic cubital tunnel release <i>Muhittin Sener, Eyup Cagatay Zengin, Sertaç Saruhan, Kemal Kayaokay</i>, Cumhur Davulcu • Nerve repair and regeneration by biological tubulization of Amnion Muscle Combined Graft (AMCG): from bench to bedside Michele Riccio, <i>Francesco De Francesco, Pierfrancesco Pugliese, Andrea Marchesini</i> • Pilot study investigating the role of the scratch collapse test in a New Zealand tertiary referral centre for hand surgery Richard Tee, <i>Kim Sent-Doux, Joseph Chen, Terrence Creagh, Jeremy Simcock</i> • Different Surgical Methods and Results for Facial Paralysis Proprius and Postparalysis Facial Synkinesis David Chwei-Chin Chuang • Supercharging of partial facial nerve paralysis by end to side masseteric transfer: preliminary report Ahmed Gad, <i>Ahmed Hweidi</i> • Can muscle recovery improve with input of additional sensory neurotization into the nerve graft? - Experimental study in a brachial plexus rodent model Bassem W. Daniel, <i>Tommy N.J. Chang, David Chwei-Chin Chuang</i>

ROOM ROSSA

- Clinical Application of Vascularized Ulnar Nerve Graft (VUNG) in Early Severe Root Injuries of Brachial Plexus
Jennifer An-Jou Lin, Ahmet Hamdi Sakarya, David Chwei-Chin Chuang
- Sensory recovery in innervated flaps
Brian Boyd, Jay Granzow, Mytien Goldberg
- Idea and Innovation: Venous flap carrying vascularized nerve for reconstruction of bilateral recurrent laryngeal nerve
Li Ying Liao, Hung-Chi Chen, Ngamcherd Sitpahul, Reza Alamuti, Giuseppe Di Taranto, Rosella Elia
- How to repair nerve injuries involving a bifurcation point with a nerve autograft and an end-to-side neurorrhaphy: a case report
Francesco Zanchetta, Luigi Troisi
- Multimodal Approaches to Reconstructions for Facial Paralysis
Yueh-Bih Tang Chen, Hung-Chi Chen

EUROPA AUDITORIUM

08.30 - 08.45

Congress Chairman & Scientific Committee Chairman Welcome
Giorgio De Santis, Marco Innocenti

08.45 - 09.15

L01 Presidential Lecture
“Supermicro to Nanomicrosurgery for Iatrogenic Disasters”
Chair: Marco Innocenti Speaker: Isao Koshima

09.15 - 09.45

L02 S&T Lecture
“Defining the Microsurgeon: Anatomist, Innovator, Pioneer and Leader”
Chair: Giorgio De Santis Speaker: L. Scott Levin

09.45 - 10.00

Break

18.25 - 19.25

Master of Disaster
Jury: Paul S. Cederna, Lawrence J. Gottlieb, Joon Pio Hong, Michael Neumeister