

萬芳30·智耀未來·共創榮光

—— 跨域整合 × 數位轉型，引領醫療新未來 ——



2026 萬芳顯微重建外科國際研討會

2026 Reconstructive Microsurgery at Wanfang Hospital

115.06.27

08:00-18:00(星期六)

臺北市立萬芳醫院

6樓國際會議廳



Wayne Morrison



David Chwei-Chin
Chuang
莊垂慶



Shyh-Jou Shieh
謝式洲



Cheng-Hung Lin
林承弘

	Subject	Speaker	Moderator
07:30-08:00	Registration		
08:00-08:15	Welcome	Superintendent Tsan-Hon Liou - 劉燦宏	Wen-Kuan Chiu 邱文寬
	Course Introduction	Fellow: Jing Qin Tay	Jing Qin Tay 鄭靖勤
08:15-12:00	Live Surgery David Chwei-Chin Chuang 莊垂慶	Subject: Decompression Surgery for Thoracic Outlet Syndrome	Tommy Nai-Jen Chang 張乃仁 Shyh-Jou Shieh 謝式洲
12:00-13:00	Lunch time		
Lectures			
13:00-13:40	Lecture 1 History of Reconstructive Microsurgery	Wayne Morrison (Australia)	Shyh-Jou Shieh 謝式洲 Cheng-Hung Lin 林承弘
13:40-14:20	Lecture 2 Limb Amputation and Replantation	Shyh-Jou Shieh 謝式洲	David Chwei-Chin Chuang 莊垂慶 Wayne Morrison
14:20-15:00	Lecture 3 Limb Allotransplantation	Cheng-Hung Lin 林承弘	Chiehfeng Chen 陳杰峰 Wayne Morrison
15:00-15:20	Breaking time		
15:20-16:00	Lecture 4 What Has and Hasn’ t Changed in Adult Brachial Plexus Injury Reconstruction	David Chwei-Chin Chuang 莊垂慶	Tommy Nai-Jen Chang 張乃仁 Wayne Morrison
16:00-16:40	Lecture 5 Nerve Reconstruction for Sympathetic Nerve Injury	Tommy Nai-Jen Chang 張乃仁	Jung-Ju Huang 黃榕茹 Wayne Morrison
16:40-17:20	Lecture 6 Advances in MR Neurography for Nerve Injury Localization and Surgical Planning	Yenpo Lin 林彥伯	David Chwei-Chin Chuang 莊 垂慶 Han-Hsuan Liang 梁漢璇
17:20-18:00	Lecture 7 2026-2027 IMC-Chuang Scholarship Traveling Nerve Fellows		
	7-1 Restoring form and function - A journey in Reconstructive Microsurgery	Rebecca Lim (Singapore)	Tommy Nai-Jen Chang 張乃仁
	7-2 Reconstruction of circumferential finger defects: the toe wrap-around concept.	Amandine Ledoux (Luxemburg)	David Chwei-Chin Chuang 莊 垂慶
	7-3 Shoulder External Rotation Reconstruction in Neonatal Brachial Plexus Palsy at Two Years of Age	Pablo Zancolli (Argentina)	
18:00	Meeting close		

教育積分
注意事項

積分申請中，以會議當天公告為主

1. 本課程需親筆簽名，嚴禁代簽及蓋章。
2. 本課程免收取費用
3. 無停車優惠，請搭乘大眾運輸工具前往。

報名方式：<https://forms.gle/g9CJd8hZCmh8YM2V8>

報名資料僅申請各學會繼續教育積分使用，及餐點人數統計

若有任何疑問歡迎致電 本院外科部 02-2930-7930分機8104、8105。
E-mail：97302@w.tmu.edu.tw 許秘書



Curriculum Vitae

Shyh-Jou Shieh, M.D., Ph.D. 謝式洲

台灣整形外科醫學會理事長

President, Taiwan Society of Plastic Surgery (TSPS).

國立成功大學醫學院附設醫院整形外科教授

Professor and Attending Plastic Surgeon, Department of Plastic and Reconstructive Surgery, National Cheng Kung University Hospital and College of Medicine, National Cheng Kung University, Tainan, Taiwan.



Education

1979~1986 M.D., College of Medicine, Taipei Medical University, Taiwan.

1998~2001 Ph.D., Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Taiwan.

Fellowship

1996 Clinical Fellowship, Department of Plastic and Reconstructive Surgery, University of Tokyo, Japan.

1996 Clinical Fellowship, Department of Plastic and Reconstructive Surgery, National Cancer Center, Tokyo, Japan.

2001~2003 Postdoctoral Research Fellowship, Laboratory for Tissue Engineering and Organ Fabrication, Massachusetts General Hospital, Harvard Medical School, USA.

Administrative Career

2018~2024 Chair, School of Medicine, National Cheng Kung University, Tainan, Taiwan.

2021~2022 President, Taiwan Society for Reconstructive Microsurgery.

2016~2021 Chief, Division of Plastic and Reconstructive Surgery, Department of Surgery, National Cheng Kung University Hospital, Tainan, Taiwan.

2015~2016 & 2020~2022 Vice Dean for Student Affairs, College of Medicine, National Cheng Kung University, Tainan, Taiwan.

2013~2016 Director, International Research Center for Wound Repair and Regeneration (iWRR), National Cheng Kung University, Tainan, Taiwan.

Professional & Research Field

Plastic Surgery; Reconstructive Microsurgery; Hand Surgery; Tissue Engineering; Regenerative Medicine; Medical Education

Honors and Awards

2002 Partners in Excellence Award, Massachusetts General Hospital, Harvard University, Boston, MA, USA.

2009 Best Year Award of Reconstruction Save, Taiwan Society of Plastic Surgery.

2010 Best Year Award of Reconstruction Option, Taiwan Society of Plastic Surgery.

2016 Best Year Award of Reconstruction Option, Taiwan Society of Plastic Surgery.

2013 Excellent Teacher Award, National Cheng Kung University, Tainan, Taiwan.

2013 Outstanding Attending Physician Award, National Cheng Kung University Hospital, Taiwan.

2020 Honorably listed in the Book “Who’s Who in Biotechnology and Medicine of Taiwan, 1st ed.”.

Regeneration and Repair of Human Digits and Limbs: Fact and Fiction

Shyh-Jou Shieh, M.D., Ph.D. 謝式洲

President, Taiwan Society of Plastic Surgery (TSPS)

Professor, Division of Plastic and Reconstructive Surgery, Department of Surgery,
National Cheng Kung University Hospital, College of Medicine, National Cheng Kung
University, Tainan, Taiwan

Abstract

Across different clinical settings, a variety of methods have been developed for digit and limb repair and reconstruction, yet true regeneration remains every plastic surgeon's ultimate dream. Despite continuous advances in microsurgical salvage, many digits and limbs are still beyond replantation. In this presentation, we will review the spectrum of structural and functional salvage strategies currently used in clinical practice, from managing small distal fingertip injuries to reconstructing complex multisegmental amputations. We also explore how developmental biology and tissue-engineering breakthroughs are reshaping our understanding of human digit and limb regeneration.

Drawing insights from nature's masters of regeneration, such as salamanders, lizards, and mice, we will discuss how their regenerative processes may guide the design of future limb-building technologies. Although today's approaches are increasingly sophisticated, many scientific and clinical challenges remain before true human limb regeneration becomes a reality. Limited experience of neurotization of major limb replantation will also be presented. We hope this review helps bridge the critical gap between bench and bedside, inspiring new collaborations and innovations that will one day make limb regeneration not just a wish, but a clinical possibility.

Curriculum Vitae

Cheng-Hung Lin, M.D. 林承弘
臺灣顯微重建外科理事長
林口長庚醫院整形外科 主任教授
(President, Taiwan Society for Reconstructive Microsurgery)



Dr. Cheng-Hung Lin is Professor and Chair of the Department of Plastic and Reconstructive Surgery at Chang Gung Memorial Hospital in Taipei, Taiwan. He is a leading expert in reconstructive microsurgery with specialized focus on extremity reconstruction.

In addition to his work in traditional microsurgery, Dr. Lin has pioneered novel vascularized composite allotransplantation models for transplantation research. He has authored over 140 peer-reviewed publications and has received multiple prestigious awards for his contributions to transplantation science and reconstructive microsurgery.

As Director of Clinical Trials for Hand and Upper Extremity Allotransplantation at Chang Gung Memorial Hospital, Dr. Lin led the surgical teams responsible for Taiwan's first bilateral forearm transplantation in 2017 and the nation's first arm transplantation in 2018. Most recently, in late 2025, he successfully performed the third upper extremity transplantation for a high-level amputee.

Currently serving as President of the Taiwan Society for Reconstructive Microsurgery, Dr. Lin continues to lead advancements in the field through clinical excellence, scientific innovation, and the integration of cutting-edge technologies, including artificial intelligence, to optimize functional outcomes in extremity reconstruction.

From Auto- to Allotransplantation

Cheng-Hung Lin, M.D. 林承弘

Professor and Chair of the Department of Plastic and Reconstructive Surgery at Chang Gung Memorial Hospital in Taipei, Taiwan.

Over the past four decades, autologous free tissue transfer has stood as the cornerstone of reconstruction for cancer, trauma, and congenital deformities. Despite the vast accumulation of experience and high success rates in microsurgical reconstruction, certain complex and extensive defects remain challenging. These cases have led to the inevitable growth of allotransplantation—a new paradigm in reconstructive surgery. This revolutionary approach offers the potential to significantly enhance the quality of life for patients previously considered unreconstructable.

Globally, more than 200 patients have been given new hope through a variety of hand, abdominal wall, and facial allotransplantations. At Chang Gung Memorial Hospital, with IRB approval for hand and upper extremity allotransplantation, we surveyed 28 patients, and ultimately, five were placed on the waiting list. On March 6, 2017, our Hand VCA (Vascularized Composite Allotransplantation) team performed Taiwan's first bilateral forearm allotransplantation on a 45-year-old male patient. A year later, on March 14, 2018, the first unilateral arm allotransplantation in Taiwan was performed on a 43-year-old male patient. Most recently, in late 2025, the third upper extremity transplantation for a high-level amputee was conducted.

Our objectives are to restore reasonable function, minimize the adverse effects of immunosuppressant drugs, and ultimately improve social interaction and quality of life for amputees. We are working toward establishing human hand and upper extremity allotransplantation as a viable treatment option for patients with devastating deformities. This will be achieved through a rational immunosuppressive strategy aimed at promoting long-term graft acceptance.

Curriculum Vitae

David Chwei-Chin Chuang, M.D. 莊垂慶
萬芳醫院整形外科教授 (Senior Professor)



- Starting my microsurgical career as a peripheral nerve microsurgeon since 1984.
 - Six inspiring teachers:
 - 1- Dr. Samuel Noordhoff: inspiring me as a plastic surgeon,
 - 2- Dr. Fu-Chan Wei: inspiring me as a micro-surgeon,
 - 3- Dr. Julia K Terzis (USA)
 - 4- Dr. H Millesi (Austria)
 - 5- Dr. A Narakas (Switzerland)
 - 6- Dr. Toru Kondo (Japan).
- } the last four people inspire me as a peripheral nerve microsurgeon
- ***Summary of Microsurgical Contribution***

(1) Unprecedented Microsurgical Experience in Peripheral Nerve Surgery

- 1- More than 2500 cases of adult brachial plexus exploration and reconstruction.;
- 2- More than 1200 cases of functioning free muscle transplantation for face, upper and lower extremities and abdomen;
- 3- Numerous reconstructions for obstetrical brachial plexus palsy (more than 500 cases), facial paralysis (near 500 cases), compression neuropathy (carpal tunnel, cubital, thoracic outlet syndrome, femoral nerve, common peroneal nerve etc), and peripheral nerve injuries
- 4- Thousands of peripheral nerve tumors resection.

(2) Pioneering, Revolutionizing Concepts and Developing Innovative Techniques in Peripheral Nerve Surgery and Functioning Free Muscle Transfers:

- 1- Classification of level of brachial plexus injury.;
- 2- Classification of level of radial nerve injury;
- 3- Classification of traction avulsion amputation of the major limb.
- 4- Surgical treatment for postparalysis facial synkinesis;
- 5- Surgical treatment of thoracic outlet syndrome.
- 6- Sub-fascial anterior transfer for cubital tunnel syndrome
- 7- Operative methods of nerve transfer for irreparable brachial plexus avulsion injury.
- 8- Contralateral C7 transfer with free vascularized ulnar nerve graft for total root avulsion of the brachial plexus injury and spastic hand.

(3) Scientific Publication and Academic Pursue

- 1- Chapter author of the textbook of “**Adult brachial plexus injuries**” for the four editions of “**Plastic Surgery**” (2nd version, 2006, 3rd version 2013, 4th version 2018, and 5th version 2024).
- 2- Reviewer of the leading journal in reconstructive microsurgery, including PRS and PRS Global Open (international reviewer: 2014-2023), JPRAS, JHS(America), JHS (European), JRM, JPRS (Japanese), and PRS- ROC.
- 3- Visiting professor to many renown hospitals and universities.

(4) Leadership and National and International Recognition

- 1- Past Chief of Department of Plastic Surgery, CGMH, Taipei-Linkou.
- 2- Past President of Taiwan Plastic Surgical Association (13th, 2007-2008).
- 3- Past President of Taiwan Society for Surgery of the Hand (10th, 2009-2010).
- 4- First President of Taiwan Society for Reconstructive Microsurgery (2014-2016).
- 5- The 9th President of World Society for Reconstructive Microsurgery (WSRM, 2015-2017).
- 6- STANFORD UNIVERSITY’S TOP 2% MOST INFLUENTIAL SCIENTISTS (CAREER IMPACT) (1960-2020) LIST: ANALYSIS FROM CITATIONS AND MULTI-DISCIPLINARY RESEARCH ASPECTS
- 7- INDIAN RESEARCHERS IN STANFORD UNIVERSITY’S TOP 2% MOST INFLUENTIAL SCIENTISTS LIST FOR THE YEAR 2020
- 8- 2020 the year Outstanding Schoolmate of Kaohsiung Medical University and Hospital 高雄醫學院傑出年度校友 2020-10-16,
- 9- 2019 ASRM Harry J Buncke Lectureship winner (Lecturer), Feb 5, 2019 in ASRM Meeting. 2018-6-25
- 10- Numbers of research articles and books Publication (First author and corresponding author): from 1989 to 2023, 37 protocols in 35 years; 21 experimental research articles have been published.
- 11- Many inviting speeches in different meetings

(5) Recent honors:

- 1- 2024/10/30-31 invited and honored for “W Grand Lecture” (like Godina lecture in ASRM).
- 2- 2024/11/2 invited by KSSH for annual meeting, an international speaker, CHA Biocomplex, Seoul, Korea
- 3- 2024/11/28-29, invited by 51th annual meeting JSRM, a special lecture. Nara, Japan
- 4- 2025/8/27-29 5th Facial palsy hands on anatomical course” invited as a lecturer in Vienna, Austria
- 5- 2025/9/10-13 Annual Plastic Surgery meeting in Coimbatore, India, Selected as “Emperor Ashoka Oration” lecturer owner
- 6- 2025-10-9 to 2025-10-12, ASPS Annual Meeting in New Orleans, as “Maliniac lecturer”.

Brachial plexus surgery --- What has changed and what hasn't

David Chwei-Chin Chuang, M.D. 莊垂慶

Professor, Department of Plastic Surgery, WanFang Hospital, Taipei Medical University

The history of brachial plexus injury (BPI) reconstruction has evolved over the three centuries (19th-21st) and has had a dramatic changes from pessimism to optimism. The author has spent near 40 years (since 1985) in the brachial plexus patient's evaluation and surgical treatment, recognizing that there are still filled with biases and debates, not only in terminology but also in surgical treatment. Although "Once debates, always debates", the author listed 8 items of "Terminology changes" and 8 items of "Surgical treatment changes" in the presentation, trying to make such confusion or debates into universal acceptance in clinical application.

The "Terminology Changes" includes (1) postganglionic spinal nerve, not postganglionic root; (2) using number to level of BPI, not with words; (3) Sunderland 3° degree of peripheral nerve injury is one of neurotmesis (endoneurium disruption), not axonotmesis; (4) Level I BPI has 6 degrees (Yeow's classification) of root injury, in P1-P2 root injury the stump is still available, but in P4-5 root injury the stump is unavailable; (5) brachial plexus birth injury, not obstetric brachial plexus palsy; (6) nerve transfer, not neurotization; (7) types of nerve transfer (Chuang's classification); and (8) functioning free muscle transplantation, not functional muscle transfer'.

The "Surgical Treatment Changes" includes (1) exploration of brachial plexus should be generous (wide exploration), but manipulation of nerve should be gentle; (2) interfascicular repair is not good for direct nerve repair, but may be good for indirect nerve grafts; (3) tension-less suture is different from tension-free suture; (4) neuroma management: resection or neurolysis; (5) for total root avulsion of BPI, multiple nerve transfers vs. functioning free muscle transplantation, which is first in priority; (6) for incomplete root avulsion, proximal nerve graft/nerve transfer vs. distal nerve transfer, which is first in priority; (7) in gracilis musculocutaneous flap the skin flap is based on septocutaneous perforator, not on musculocutaneous perforator; and (8) deltoid muscle functional recovery should have the precondition of deltoid muscle contraction visible.

Hope the presentation can energize your interest in BPI recognition and treatment.

Curriculum Vitae

Tommy Nai-Jen Chang, M.D. 張乃仁

林口長庚醫院整形外科副教授

(Associated Professor)

世界顯微外科俱樂部主持人

(International Microsurgery Club Host)



- **Current Position**

Associate professor, Division of Reconstructive Microsurgery,
Plastic and Reconstructive Surgery, Department of Surgery,
Chang-Gung Memorial Hospital, Linkou Medical Cancer
Founder of International Microsurgery Club (IMC)

Sep 2012 - now

May 2016 - now

Executive Chairman of the International Conference:

- 2nd Instructional Course of Adult Brachial Plexus Injury
- 2018 International Course on SuperMicrosurgery (ICSM)
- 2nd Instructional Course of Facial Paralysis
- Chang Gung Micro 2025

Nov13-16, 2017

Oct 12-14, 2018

Oct 2-5, 2023

Oct 14-16, 2025

Editor in Chief: International Microsurgery Journal (IMJ)

Feb 2017 - now

Founder and Principal of International Microsurgery Website (IMW)

Oct 2018 - now

Chairman of General Affairs Committee, International Course on
SuperMicrosurgery

Oct 2018 - now

Founder of International Microsurgery Club Webinar Series

Feb 2020 - now

Associate Editor in Chief: Achieves of Plastic Surgery

Dec 2020 - now

台灣顯微重建外科醫學會第六屆理事

Dec 2024 - now

國際顯微外科醫學會第一屆理事長

Aug 2025 - now

- **Peripheral Nerve Fellowships**

Prof. David Chwei-Chin Chuang

Chang-Gung Memorial Hospital, Linkou, Taiwan

Sep 2012 - Feb 2015

Dr. Gregory H. Borschel and Dr. Tessa Gordon

The Hospital for Sick Children, Toronto, Canada

Mar 2015 - Jan 2017

- **Residency and Previous Staff Positions**

Chang Gung Memorial Hospital, Linkou, Taiwan

Department of General Surgery	<i>Sep 2005 - Aug 2007</i>
Department of Plastic and Reconstructive Surgery	<i>Sep 2007 - Aug 2011</i>
Plastic and Reconstructive Surgery Department of Surgery, Chang-Gung Memorial Hospital, Keelung and Xiamen branch	<i>Sep 2011 - Aug 2012</i>
Clinical Instructor, Department of Plastic Surgery	<i>Sep 2010 - Jun 2015</i>
Assistant Professor, Department of Plastic Surgery	<i>Jul 2015 - Jun 2020</i>

- **Education**

Department of Medicine, Chung-Shan Medical University, Taichung, Taiwan	<i>Sep 1998 –Jun 2005</i>
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- **Taiwan Qualifications**

Taiwan Medicine License	<i>Sep 2005</i>
Taiwan General Surgery License	<i>Dec 2009</i>
Taiwan Hand Surgery License	<i>June 2011</i>
Taiwan Plastic Surgery License	<i>Dec 2012</i>
Da Vinci Technology Console Surgeon	<i>Dec 2022</i>

- **Pre - graduate education**

Visitor of Sahlgrenska University Hospital, Goteborg, Sweden	<i>Jul 1-28, 2002</i>
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- **Post- graduate education**

Visitor of Brigham and Women Hospital, Boston, U.S.A	<i>Mar 16 - Apr 15, 2011</i>
Research fellowship of the Hospital for Sick Children, Toronto, Canada	<i>Mar 2015 - Dec 2016</i>

Evolution of Robotic-Assisted Sympathetic Trunk Reconstruction:

Technical Innovation and Clinical Experience

Tommy Nai-Jen Chang, M.D. 張乃仁

Associate Professor, Division of Reconstructive Microsurgery, Department of Plastic and Reconstructive Surgery, Chang Gung Memorial Hospital-Linkou, Chang Gung Medical College and University, Taoyuan, Taiwan

Endoscopic thoracic sympathectomy, while effective for palmar hyperhidrosis, results in devastating compensatory sweating and autonomic dysfunction affecting >80% of patients. We present our institutional evolution of robotic-assisted sympathetic trunk reconstruction (STR) for post-sympathectomy complications. Between 2017 and 2025, we've performed clinical 182 cases. Our prospective series of 23 patients underwent robotic STR with free nerve grafting (mean follow-up: 2 years). Six-month outcomes demonstrated significant improvement: Chest severity 9.4 ± 0.9 to 6.0 ± 2.4 ($p < 0.001$), back severity 9.3 ± 0.8 to 6.1 ± 2.6 ($p < 0.001$), with sustained gains at 2 years. To minimize donor site morbidity, we progressively transitioned to free intercostal nerve autografts, followed by vascularized intercostal nerve (vICN) grafting beginning January 2025. Vascularized grafts maintained immediate perfusion, enabling continuous Schwann cell proliferation and accelerated recovery. A propensity score-matched analysis of vICN versus free intercostal grafts achieved 100% technical success with no vascular complications. Six-month vICN recipients demonstrated continuous improvement without temporary worsening observed in controls. Recently, single-port robotic systems substantially reduced postoperative chest wall morbidity. These innovations demonstrate that precisely executed microsurgical technique, enabled by robotic precision and interdisciplinary expertise, offers viable treatment for carefully selected patients with intolerable post-sympathectomy complications.

Curriculum Vitae

Yenpo Lin, M.D. 林彥伯

林口長庚醫院影像學放射線科

**Department of Medical Imaging and Intervention,
Chang Gung Memorial Hospital, Taoyuan, Taiwan.**



• **EDUCATION/TRAINING**

INSTITUTION AND LOCATION	DEGREE (if applicable)	COMPLETION DATE MM/YYYY	FIELD OF STUDY
Taipei Medical University	M.D.	06/2014	Medicine
Mackay Memorial Hospital, Taipei, Taiwan	Medicine Intern	06/2015	Internal Medicine
Chang Gung Memorial Hospital, Taoyuan, Taiwan	Postgraduate Year One	06/2016	General Medicine
Chang Gung Memorial Hospital, Taoyuan, Taiwan	Radiology Resident	8/2020	General Radiology
Chang Gung Memorial Hospital, Taoyuan, Taiwan	Musculoskeletal MRI Fellow	8/2021	Musculoskeletal MRI
Hospital for Special Surgery, New York, NY	Research Fellow	10/2022-06/2024	Peripheral Nerve MRI

• **HONORS & AWARDS**

2025 **Young Attending Research Paper Award** for “Endometrial cancer risk stratification using MRI radiomics: corroborating with choline metabolism” from Department of Medical Imaging and Intervention, Chang Gung Memorial Hospital, Taoyuan, Taiwan. (*first author*).

2024 **Certificate of Merit** for “MR Neurography of the Occipital Nerves - Technical Considerations and Injury Patterns” from 2024 annual meeting of the Radiological Society of North America (RSNA), Chicago, IL, USA. (*first author*).

2024 **Prof. Hsu Cardiovascular Radiology Paper Award** for “The role of artificial intelligence in coronary calcium scoring in standard cardiac computed tomography and chest computed tomography with different reconstruction kernels” from Radiology Society of Taiwan, Taipei, Taiwan. (*first author*).

2023 **Certificate of Merit** for “MR neurography of lumbosacral plexus: Tips and patterns of injury” from 2023 annual meeting of the Radiological Society of North America (RSNA), Chicago, IL, USA. (*corresponding author*).

2019 **KSMRM Travel Scholarship** for “Magnetic Resonance Spectroscopy for Risk Stratification of Sonographically Indeterminate Ovarian Neoplasms” from International Congress on Magnetic Resonance Imaging & 24th Annual Scientific Meeting of KSMRM, Seoul, Korea. (*first author*).

2018 **Resident Academic Research Paper Award** for “Analysis and CT Findings of Lung Nodules Proved by Surgical Pathology After CT-guided Localization” from Radiology Society of Taiwan, Taipei, Taiwan. (*first author*).

Advances in MR Neurography for Nerve Injury Localization and Surgical Planning

Yenpo Lin, M.D. 林彥伯

Department of Medical Imaging and Intervention, Chang Gung Memorial Hospital,
Taoyuan, Taiwan.

Peripheral nerve injuries often present complex diagnostic and localization challenges, which can result in delays in proper intervention. Magnetic resonance neurography (MRN) has increasingly become a valuable part of the diagnostic and preoperative toolkit. Recent advancements in hardware and software technologies have greatly enhanced MRN's capabilities, turning it into a powerful modality for both preoperative planning and postoperative assessment of persistent neurological deficits.

As an adjunct to electrodiagnostic studies, high-resolution MRN provides a comprehensive overview of the neuromuscular system that enables precise localization of nerve injuries, assessment of severity, and visualization of surrounding muscles and adjacent structures. By directly depicting nerve signal abnormalities, discontinuities, and neuroma formation, MRN empowers clinicians with greater diagnostic confidence and equips surgeons with critical information to plan more effective interventions. Its integration into the surgical workflow can enhance targeting accuracy, allow for personalized surgical approaches, and ultimately lead to improved functional recovery and clinical outcomes.

Curriculum Vitae

Rebecca Qian Ru, LIM M.D.
Consultant Hand & Reconstructive Microsurgeon,
Singapore General Hospital

Brief Biography

Dr Rebecca Lim was the first to graduate from the Singapore Singhealth Hand Surgery Residency Program and received the Outstanding Resident Prize for three consecutive years. She now serves as a Hand & Reconstructive Microsurgery consultant at the Singapore General Hospital.



She completed her Advanced Robotics/Arthroscopy Hand & Wrist fellowship at the Beijing Ji Shui Tan Hospital (2023) and was the HKSSH Asia-Pacific Scholar and APWA Travelling Fellow (2024). She is well published in peer reviewed journals and holds multiple grants in medical innovations research.

She received the distinguished Wong Hock Boon Society- Singapore Medical Association Charity Fund Outstanding Mentor Award (2019) for developing medical students' research and is now both Clinical Assistant Professor of Duke-NUS Medical School and Senior Clinical Lecturer at the Yong Loo Lin School of Medicine and Imperial College London- NTU LKC School of Medicine.

In 2020, 2022 and 2025 she received the Singhealth Service with a Heart Award for her efforts in quality clinical service and the Singapore Health Quality Service Hero Award (2021) and Ministry of Health Holdings COVID-19 Resilience Medal (2023) for frontline pandemic contributions. She has a strong passion for humanitarian work and has served in numerous overseas missions since 2006.

Current Appointment Details

Institution of Primary Appointment : Consultant Hand & Reconstructive Microsurgeon, Singapore General Hospital

Secondary Appointments:

- Clinical Assistant Professor, Duke NUS Medical School
- Adjunct Lecturer, Imperial College London-NTU Lee Kong Chian School of Medicine
- Senior Clinical Lecturer, Yong Loo Lin School of Medicine NUS

Educational & Training Qualifications

Qualification	Country	Name of School / Institution / University	Date of Attainment
MBBS	Singapore	NUS	2012
MRCS	Edinburgh, UK	The Royal College of Surgeons	2014
FAMS	Singapore	Academy of Medicine (Hand Surgery)	2019

Restoring form and function - A journey in Reconstructive Microsurgery

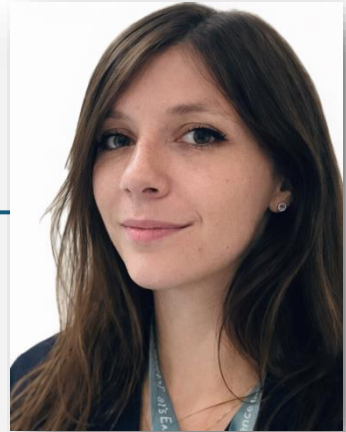
Rebecca Qian Ru, LIM M.D.

Abstract

Curriculum Vitae

Amandine Ledoux, M.D.

Orthopaedic & Hand Surgeon – Microsurgery



EDUCATION & QUALIFICATIONS

- Bachelor of Medicine – Université de Mons (UMONS), Belgium, 2013
- Doctor of Medicine – Université Libre de Bruxelles (ULB), Belgium, 2017
- University Diploma (DIU) in Microsurgery – Université de Lille, France, 2021
- Complementary Master in Orthopaedic & Traumatologic Surgery – ULB, 2024

POSTGRADUATE TRAINING

- Residency – General Surgery
2017–2019 | Epicura & CHU Charleroi, Belgium
(Visceral, vascular, cardiac, urologic surgery, neurosurgery, trauma & emergency care)
- Residency – Orthopaedic & Traumatologic Surgery
2019–2022 | CHU Tivoli, Erasme Hospital (ULB), CHU Marie Curie, Belgium
- Senior Residency / Subspecialty Training – Hand Surgery
2022–2023 | Institut Européen de la Main, Kirchberg, Luxembourg
- Fellowship – Hand Surgery & Microsurgery
2023–2024 | Institut Européen de la Main, Kirchberg, Luxembourg
- Consultant Hand Surgeon & Microsurgeon
2024–Present | Kirchberg Hospital – Institut Européen de la Main, Luxembourg

CLINICAL & SURGICAL EXPERTISE

- Reconstructive microsurgery
- Hand and wrist surgery
- Upper-limb trauma and post-traumatic reconstruction
- Sonography-guided hand surgery

Reconstruction of Circumferential Finger Defects :

The Toe Wrap-Around Concept

Amandine Ledoux, M.D.

Abstract

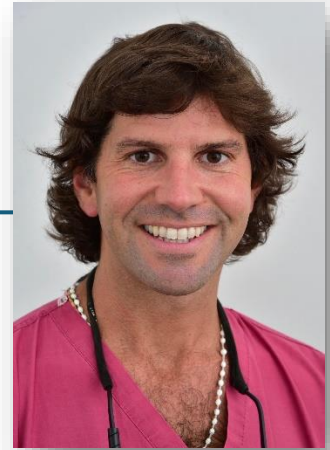
Circumferential skin defects of the finger are rare but represent a major reconstructive challenge, requiring restoration of durable coverage, sensibility, and functional mobility. Many conventional techniques provide soft-tissue resurfacing but may not adequately address simultaneous neurovascular reconstruction or achieve optimal aesthetic integration.

The toe “wrap-around” concept, as previously described, offers a microsurgical solution for complex circumferential digital defects. This approach uses a neurovascular flap harvested from the hallux or second toe, typically based on the first intermetatarsal neurovascular pedicle, while preserving key weight-bearing and nail structures when feasible. The technique enables circumferential resurfacing of the digit together with reconstruction of the neurovascular bundle.

By providing thin, pliable, sensate tissue with similar glabrous characteristics, the wrap-around flap allows restoration of both protective sensibility and digital function, with generally limited donor-site morbidity. The toe wrap-around flap remains an important option in selected cases of circumferential finger defects where both soft-tissue coverage and neurovascular reconstruction are required.

Curriculum Vitae

Eduardo Pablo Zancolli M.D. **Orthopaedic surgeon**



Postgraduate Training / Residency / Master's Degrees

- Master's Degree in Brachial Plexus and Peripheral Nerve Surgery (2018–2019). India, Egypt, Spain, and Mexico. Assiut University; Universidad Autónoma de Coahuila; Universitat Internacional de Catalunya; Brachial Plexus International School.
- University Fellowship in Brachial Plexus and Peripheral Nerve Surgery – Universidad Autónoma de Coahuila (Mexico, 2016–2018).
- Senior Fellowship in Hand Surgery and Microsurgery – CMKI, University of Louisville, Louisville, KY, USA (Aug/2015–Mar/2016).
- Senior Fellowship in Hand Surgery and Microsurgery – CMKI, University of Louisville, Louisville, KY, USA (Aug/2014–Jul/2015).
- Fellowship in Hand Surgery and Microsurgery – CMKI, University of Louisville, Louisville, KY, USA (Aug/2013–Jul/2014).
- Postgraduate Course / Specialization in Hand Surgery – AACM (2012–2013 / 2017–2018).
- Two-year Specialization Course in Orthopaedics and Traumatology – AAOT (2010–2012).
- Chief Resident – Orthopaedics and Traumatology, Hospital Naval Pedro Mallo (2012–2013).
- Residency in Orthopaedics and Traumatology – Hospital Naval Pedro Mallo (2008–2012).
- Medical Doctor – Universidad de Ciencias Empresariales y Sociales (UCES) (2000–2006). GPA: 9.11/10.
- Secondary education: St. George's College North (International Baccalaureate, 1994–1998).
- Primary education: St. George's College North (1989–1993).

Shoulder External Rotation Reconstruction in Neonatal Brachial Plexus Palsy at Two Years of Age

Eduardo Pablo Zancolli M.D.

Abstract

By two years of age, shoulder reinnervation in patients with neonatal brachial plexus palsy is generally complete, either through spontaneous recovery or following brachial plexus reconstruction. Shoulder external rotation is a critical function for activities of daily living. Limitation of external rotation may result from several etiologies, including glenohumeral dysplasia associated with internal rotation contracture, paralysis or weakness of the external rotator muscles, or cocontraction between internal and external shoulder rotators. We present a diagnostic and treatment algorithm for the evaluation and management of these patients, aimed at improving shoulder external rotation and functional outcomes in daily activities.