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Nota di contenuto	Intro -- Preface -- Contents -- About the Editors -- Part I: Facial Paralysis -- 1: Facial Paralysis: Etiology, Diagnosis, and Medical Treatment -- 1.1 The Facial Nerve -- 1.2 Facial Nerve Pathways -- 1.3 Terminology and Grading of Facial Palsy -- 1.4 Evaluation of Peripheral Facial Palsy -- 1.5 Causes of Peripheral Facial Palsy -- 1.6 Differential Diagnosis of Peripheral Facial Palsy -- 1.7 Bell's Palsy -- 1.8 Acquired Peripheral Facial Palsy in Children -- 1.9 Herpes Zoster Oticus or Ramsay Hunt syndrome -- 1.10 Lyme Disease (Neuroborreliosis) -- 1.11 Sarcoidosis -- 1.12 Guillain-Barre Syndrome -- 1.13 Melkersson-Rosenthal Syndrome -- 1.14 Ear Infection -- 1.15 Intratemporal Facial Nerve Trauma -- 1.16 Extratemporal Facial Nerve Trauma -- 1.17 Iatrogenic Facial Nerve Trauma -- 1.18 Tumor -- 1.19 Peripheral Facial Palsy in Newborn, Congenital Facial Palsy -- References -- 2: A Multi-modal Approach to Outcome Tracking in Facial Palsy -- 2.1 Introduction -- 2.2 Patient-Reported Outcome Measures -- 2.3 Clinician Grading Scoring Systems -- 2.4 Objective Assessment Systems -- 2.5 Emerging Systems -- 2.6 Conclusion -- References -- 3: Documentation and Imaging in Facial Palsy -- 3.1 Documentation in Facial Palsy -- 3.1.1 Overview -- 3.1.2 Patient

Assessment -- 3.2 Imaging in Facial Palsy Overview -- 3.2.1  
Composition and Positioning -- 3.2.2 Post-paralytic Facial Synkinesis  
(PPFS) -- 3.3 Conclusion -- References -- 4: Pre- and Post-op  
Rehabilitation in Facial Palsy Patients -- 4.1 Facial Nerve Grading  
Instruments -- 4.2 House-Brackmann Score -- 4.3 Sunnybrook Score  
-- 4.4 Chuang's Smile Excursion Score -- 4.5 Exercise Therapy -- 4.6  
Electromyography-Biofeedback (EMG-Biofeedback) -- 4.7 Electrical  
Stimulation -- 4.8 Massage -- 4.9 Manual Lymphatic Drainage --  
4.10 Botulinum Toxin.  
4.11 Postoperative Facial Rehabilitation -- 4.11.1 Rehabilitation After  
Temporalis and Masseter Muscle Transposition -- 4.11.2  
Rehabilitation After Labbe Technique -- 4.11.3 Rehabilitation After  
Nerve Transfers and Cross-Facial Nerve Grafting -- 4.11.4  
Rehabilitation After Free Gracilis Muscle Transfer for Reconstruction  
of the Smile in Irreversible Facial Palsy -- References -- 5:  
Electrophysiology in Facial Paralysis -- 5.1 Nerve Conduction Studies  
(NCS) -- 5.1.1 Recording -- 5.1.2 Parameter -- 5.2  
Electromyography (EMG) -- 5.3 Blink Reflex Studies -- 5.4 Magnetic  
Stimulation -- 5.5 Outcome Indicators -- References -- Part II: Facial  
Nerve Reconstruction -- 6: Principles of Facial Nerve Reconstruction --  
6.1 Introduction -- 6.2 Types of Facial Nerve Injuries -- 6.3 Methods  
of Facial Nerve Reconstruction -- 6.4 The Distal Target in Facial Nerve  
Reconstruction: Innervation of Mimetic Muscles -- 6.5 Timing of Facial  
Nerve Reconstruction -- 6.5.1 Timing of Nerve Reconstruction in Open  
Facial Nerve Injuries with Facial Nerve Deficits or Oncological  
Resections Including the Facial Nerve -- 6.5.2 Timing for Nerve  
Reconstruction in Acquired Facial Paralysis with Unknown Facial Nerve  
Status -- 6.6 Classification of Levels of Facial Nerve Injuries in Relation  
to Facial Reconstruction Method -- 6.6.1 Level 1: Central Nerve System  
or Intratemporal Nerve Injuries with Not Available Facial Nerve Stump  
-- 6.6.2 Clinical Example -- 6.6.3 Level 2: Intratemporal  
and Extratemporal Intraparotid Nerve Injuries with Available Facial  
Nerve Stump -- 6.6.4 Clinical Example -- 6.6.5 Level 3: Extratemporal  
Extraparotid or Distal Nerve Injuries -- 6.6.6 Clinical Example --  
References -- 7: Anatomy of the Facial Nerve -- 7.1 Cranial Nerve (CN)  
7 -- 7.1.1 Targets of CN7 -- 7.2 Facial Nerve: Motoric Portion of CN7  
-- 7.2.1 Intracerebral Segment.  
7.2.2 Intracranial Segment -- 7.2.3 Extracranial Segment -- 7.2.4  
Parotid Plexus -- 7.2.5 Innervation of Facial Muscles -- References --  
8: Nerve Transfers to the Facial Nerve -- 8.1 Background -- 8.2  
Patient Presentation -- 8.3 Nerve Transfers: Goals, Indications,  
and Rationale -- 8.3.1 Goals -- 8.3.2 Indications -- 8.3.3 Rationale  
-- 8.3.4 Advantages of Nerve Transfers -- 8.3.5 Disadvantages  
of Nerve Transfers -- 8.4 Masseteric to Facial Nerve Transfer -- 8.5  
Cross-Facial Nerve Grafting -- 8.6 Dual Innervation -- 8.7 Summary  
-- References -- 9: Vascularized Nerve Grafts in Facial Nerve  
Reconstruction -- 9.1 Introduction -- 9.2 A Historical Overview -- 9.3  
The Blood Supply of Nerves -- 9.4 Evidence for Vascularized Nerve  
Grafts -- 9.4.1 Blood Supply -- 9.4.2 Motor Versus Sensory Nerve  
Grafts -- 9.5 Clinical Applications -- 9.5.1 The Dilemma -- 9.5.2  
Facial Nerve Defects in the Head and Neck Cancer Patient -- 9.6  
Pedicle Nerve Graft Options -- 9.7 Vascularized Nerve Grafts  
and the ALT Free Flap -- 9.8 Clinical Example of a Chimeric Free Flap  
Reconstruction of Soft Tissue and Facial Nerve -- 9.9 Clinical Example  
of Vascularized Nerve Graft to the Marginal Mandibular Nerve -- 9.10  
Conclusion -- References -- 10: Non-vascularized Nerve Grafts --  
10.1 Introduction -- 10.2 Donor Nerves -- 10.2.1 Sural Nerve --  
10.2.1.1 Surgical Technique for Sural Nerve Harvest -- 10.2.2 Greater

Auricular Nerve -- 10.2.3 Motor Nerves -- 10.3 Ipsilateral Nerve Repair -- 10.4 Cross-Face Nerve Grafts -- 10.4.1 Timing of Surgery -- 10.4.2 Donor Branch Selection -- 10.4.3 Augmentation of Partial Function -- 10.4.4 Sensory Pathway Protection -- 10.5 Coaptation Techniques -- References -- 11: Avoiding Damage of the Facial Nerve in Parotid Surgery -- 11.1 Introduction -- 11.2 Type of Parotidectomy -- 11.2.1 Extracapsular Dissection. 11.2.2 Superficial Parotidectomy -- 11.2.3 Total Parotidectomy -- 11.3 Pre- and Perioperative Considerations -- 11.3.1 Facial Nerve Monitoring -- 11.3.2 Surgical Microscope or Surgical Loupes for Parotidectomy? -- 11.3.3 Single Shot Antibiotic Treatment -- 11.4 Superficial Parotidectomy -- 11.4.1 Positioning and Skin Incision -- 11.4.2 SMAS Flap -- 11.4.3 Landmark I: Posterior Belly of the Digastric Muscle -- 11.4.4 Landmark II: Tragal Pointer -- 11.4.5 Dissection -- 11.4.6 Wound Closure, Dressing, and Postoperative Antibiotic Treatment -- 11.5 Neck Dissection and Facial Nerve -- 11.5.1 Level I: Boundaries -- 11.5.2 Risk for Damage of the Marginal Mandibular Branch -- 11.6 Level Ib Neck Dissection -- 11.6.1 Skin Incision -- 11.6.2 Elevation of Platysma Flaps -- 11.6.3 Identification of the Marginal Mandibular Branch -- References -- 12: Avoiding Facial Nerve Injury in Oral and Maxillofacial Surgery -- 12.1 Introduction -- 12.2 Retromandibular Approach to the TMJ -- 12.2.1 Surgical Anatomy -- 12.2.2 Retromandibular Anteroparotid Transmasseteric Approach -- 12.2.3 Retromandibular Transparotid Approach -- 12.3 Preauricular Approach to the TMJ -- 12.3.1 Surgical Anatomy -- 12.3.2 Subfascial Approach -- 12.3.3 Deep Subfascial Approach -- 12.4 Approaches to the TMJ and Risk for Facial Nerve Injury -- References -- Part III: Smile Reanimation in Long Standing Facial Paralysis -- 13: Principles of Smile Reanimation -- 13.1 Introduction -- 13.1.1 History of the Smile -- 13.1.2 Evolution of the Human Smile -- 13.1.3 Social and Cultural Aspects of the Smile -- 13.1.4 Types of Smile and Anatomical Variations -- 13.1.5 The Dimple and the Smile -- 13.2 Preoperative Evaluation of the Smile -- 13.2.1 Mouth Corner Vector for Smile Reanimation -- 13.2.2 Donor Nerves and Muscles in Smile Reanimation. 13.3 Intraoperative Evaluation of the Smile -- 13.4 Postoperative Care of the Smile -- 13.4.1 Immediate Postoperative Care -- 13.4.2 Long-Term Postoperative Care -- References -- 14: One-Stage Facial Reanimation Using Masseter Nerve Free Flap -- 14.1 Anatomy -- 14.2 Diagnostics -- 14.3 Indications -- 14.4 Technique -- 14.5 Summary -- References -- 15: Spinal Accessory Nerve-Innervated Gracilis (XI-Gracilis) for Facial Reanimation: Chang Gung Experience -- 15.1 Introduction -- 15.2 Materials and Methods -- 15.3 Anatomy Review -- 15.3.1 Spinal Accessory Nerve (XI) -- 15.4 Technique of XI-Gracilis for Facial Reanimation, One-Stage Procedure -- 15.4.1 Preoperative Evaluation -- 15.4.2 Operative Method -- 15.5 Postoperative Care and Rehabilitation -- 15.6 Outcome Assessment -- 15.7 Statistical Analysis -- 15.8 Results -- 15.8.1 Denervation Time -- 15.8.2 Ischemic Time for Gracilis Transfer -- 15.8.3 Complications -- 15.8.4 Smile Excursion Score -- 15.8.5 Cortical Adaptation Stage -- 15.8.6 Patient Questionnaire -- 15.8.7 Hadlock's SMILE Lip Excursion Scale -- 15.8.8 Terzis's Functional and Aesthetic Grading System -- 15.9 Discussion -- 15.9.1 Why Is the XI-Gracilis Not Popular? -- 15.9.2 Sequelae by XI Transect -- 15.9.3 Why Patients of Postparalysis Facial Synkinesis Are Included? -- 15.9.4 Cortical Adaptation -- 15.9.5 Result Evaluation -- 15.9.6 Indication and Contraindication -- 15.10 Summary -- References -- 16: One-Stage Latissimus Dorsi Muscle Transfer for Facial Reanimation: Comparison Between Single and Dual

Innervation -- 16.1 History of One-Stage Latissimus Dorsi Muscle Transfer -- 16.2 Dual-Innervation Technique -- 16.2.1 Emergence of the Dual-Innervation Technique -- 16.2.2 Surgical Technique -- 16.2.2.1 Preoperative Planning -- 16.2.2.2 Preparation of the Cheek Pocket.  
16.2.2.3 Harvesting the Latissimus Dorsi Muscle Segment.

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long-term tax strategy? -- Chapter 10 Teaching operating cash flow: one matrix for analysis two methods for presentation -- Index.

**Sommario/riassunto**

"Advances in Accounting Education: Teaching and Curriculum Innovations 18 publishes both non-empirical and empirical articles dealing with accounting pedagogy. All articles explain how teaching methods or curricula/programs can be improved. Non-empirical papers are academically rigorous, and specifically discuss the institutional context of a course or program, as well as any relevant tradeoffs or policy issues. Empirical reports exhibit sound research design and execution, and develop a thorough motivation and literature review, including references from outside the accounting field, where appropriate." -- Publisher's description.

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The brain functions within an internal environment that is determined and controlled by morphological structures and cellular mechanisms present at interfaces between the brain and the rest of the body. In vertebrates these interfaces are across cerebral blood vessels (blood-brain barrier) choroid plexuses (blood-cerebrospinal fluid barrier) and pia-arachnoid. There is a CSF-brain barrier in the neuroepithelium lining the ventricular system that is only present in embryos. There is now substantial evidence that many brain barrier mechanisms develop early and that in some cases they are functionally more active and even

more specialized compared to adult barriers. Therefore barriers in developing brain should be viewed as adapted appropriately for the growing brain and not, as is still widely believed, immature. Considerable advances in our understanding of these barrier mechanisms have come from studies of the developing brain and invertebrates. A striking aspect, to be highlighted in this special edition, is that many of the molecular mechanisms in these very diverse species are similar despite differences in the cellular composition of the interfaces. This *Frontiers Topic* comprises articles in three sections: Original studies, Reviews and Myths & Misconceptions. Original articles provide new information on molecular and cellular barrier mechanisms in developing brains of primates, including human embryos (Brøchner et al., Ek et al., Errede et al.), rodents (Bauer et al., Liddelow, Strazielle & Gherzi-Egea, Saunders et al., Whish et al.), chick (Bueno et al.) and zebrafish (Henson et al.) as well as studies in *Drosophila* (Hindle & Bainton, De Salvo et al., Limmer et al.). The Reviews section includes evolutionary perspectives of the blood-brain and blood-CSF barriers (Bueno et al., Bill & Korzh). There are also detailed reviews of the current state of understanding of different interfaces and their functional mechanisms in developing brain (Bauer et al., Strazielle & Gherzi-Egea, Liddelow, Richardson et al., Errede et al., Henson et al., Brøchner et al.) and in invertebrates (Hindle & Bainton, De Salvo et al., Limmer et al.). Different aspects of the relationship between properties of the internal environment of the brain and its development are discussed. (Stolp & Molnar, Johansson, Prasongchean et al.). A neglected area, namely barriers over the surface of the brain during development is also covered (Brøchner et al.). Clinically related perspectives on barrier disruption in neonatal stroke are provided by Kratzer et al. and other aspects of dysfunction by Morretti et al. and by Palmeta et al. on the continuing problem of bilirubin toxicity. Progress in this field is hampered by many prevailing myths about barrier function, combined with methodologies that are not always appropriately selected or interpreted. These are covered in the Misconceptions, Myths and Methods section, including historical aspects and discussion of the paracellular pathway, a central dogma of epithelial and endothelial biology (Saunders et al.) and a review of markers used to define brain barrier integrity in development and in pathological conditions (Saunders et al.). Use of inappropriate markers has caused considerable confusion and unreliable interpretation in many published studies. Torbett et al. deal with the complexities of the new field of applying proteomics to understanding blood-brain barrier properties as do Huntley et al. with respect to applying modern high throughput gene expression methods (Huntley et al.). The Editorial summarizes the contributions from all authors. This includes mention of some of the main unanswered but answerable questions in the field and what the impediments to progress may be.

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