

Alessio Redaelli
Frédéric Braccini

MEDICAL RHINO PLASTY

BASIC PRINCIPLES AND
CLINICAL PRACTICE



Officina Editoriale Oltrarno

PRESENTATION

The number of aesthetic procedures performed worldwide is constantly increasing both in the surgical as well as in the non-surgical plastic surgery sector. According to the annually released statistics report of the International Society of Aesthetic Plastic Surgery (ISAPS, 2020 statistics), medical rhinoplasty was ranked amongst the five most frequently performed aesthetic surgical procedures in 2020. In addition, medical rhinoplasty is the only TOP 5 procedure that maintained its constant growth and increase in numbers since 2014.

This increase in world-wide performed procedures not only reflects the high demand but reflects also on the increase in knowledge and competence of the rhinoplasty community.

The emergence of soft tissue fillers and their possibility for a minimally invasive aesthetic nasal procedure has substantially opened up the accessibility for “rhinomodulation”, “profiloplasty”, “nasal sculpting”, or “liquid rhinoplasty”.

Despite the significantly smaller aesthetic range of non-surgical rhinoplasty procedures, the required knowledge and skillset is substantial and should not be underestimated. Concepts of beauty, 3-dimensional anatomy, and age-related changes all need to be factored in when aiming for superior and long-lasting aesthetic outcomes.

Drs. Redaelli and Braccini have summarized and enlarged the present knowledge of this field in their third edition of their excellent work: Medical Rhinoplasty. Reading page after page, doors to a new and unknown aspect of aesthetic surgical and non-surgical nasal treatments will be opened up for the audience. Up to date anatomic knowledge, clinical pearls, and guided case by case presentations are comprehensively described in this book. I congratulate the authors for their success, but I also congratulate the audience for the learning experience that is waiting for each of them in every page that follows.



Sebastian Cotofana MD, PhD

Associate Professor of Anatomy
Platform Leader Translational Research
Medical Director Clinical Anatomy Laboratory
Medical Director Mayo Clinic Body Donation Program
Department of Clinical Anatomy, Mayo Clinic, Rochester, USA

PRESENTATION



“This monument, when do we visit it?”
Cyrano de Bergerac by Edmond Rostand

This third edition, masterfully rewritten under the direction of Alessio Redaelli and Frédéric Bracini, is undoubtedly a performance.

All the paths of the face lead to the nose, this visual crossroads, so small, so large, so short, so long, so thin, so big... is the object of all attention. This book on medical rhinoplasty will be a discovery or rather a rediscovery. Thank you to all the contributors because its fascinating reading brings the novelties and the precautions to embellish or respect it.

Respect.

Huges Cartier

Centre Medical Saint-Jean,
8 Square Saint-Jean Arras. France
huguescartier@gmail.com

PREFACE TO THE THIRD REVISED EDITION

Dear friends and colleagues, only a few years have passed since the second edition of our medical rhinoplasty manual. Many details have changed, and it has become necessary to publish this third edition, as there have been great developments in many contents and clinical cases. Often traveling the world for courses and congresses, it happens that Fred and I find previous editions and leaf through them, only to immediately realize how many small, or sometimes substantial, details have changed. Sometimes, details change to the point where a technique becomes immediately obsolete if not sometimes dangerous. Therefore, the much-improved study of anatomy has allowed us to refine techniques, making procedures much safer; the study of new devices and new materials has allowed us to improve the integration into the tissues, substantially increasing the safety of our implants; lastly, the best aesthetic perception and the best study of aesthetic rules have allowed us to minimize unnatural aesthetic results, giving us and our patients that invisibility that makes a result something exceptional.

We thought, as always happens in our manuals, that favoring the practical part is always the right choice. Therefore, we continue to use simple photographs to make our concepts better understood. We also believe that good videos can help learners to visualize how to correctly find the balance between delicacy and firmness that always characterizes, as I love to remember, doctors and aesthetic plastic surgeons. They will not be professional videos - they're made by myself, Fred, or other dear colleagues and friends. However, they certainly make you visualize many passages and allow you to better understand and explain the details of this book. We sincerely hope that this third edition will be even more interesting than the second but we always remain open to new inputs and new ideas that characterize our wonderful specialty.

Fred and Alessio

AUTHOR

Frédéric Braccini

MD, ENT & Facial Plastic Surgeon

He practices in Nice, France ("L'Artistique", Medical Healthcare, www.ca-medical.fr). He graduated at the Faculty of Medicine, University of Marseille (Senior intern, hospital assistant and clinical head physician). He was Teacher anatomy instructor at the Marseille University faculty. Associate surgeon to the American Hospital of Paris (2009-2011), he works in private activity in Nice since 2001. President of the Medical Establishment Commission (French CME) of the Saint-François clinic in Nice (2012-2021). Affiliated to the French Medical Council since 1998. Affiliated to the general medical council (UK) in 2014 and Switzerland Medical Council since 2015, he is an international expert in surgery and medicine aesthetic fields, and one of the most well-known ENT& FPS doctors (with nearly 35000 searches on Google

per one month - source Google Business January 2020). Numerous Teaching French Inter University diplomas (Paris, Nice, Lyon...). Numerous private teaching courses in Europe. He performs a lot of conferences all over the world (USA; Boston Harvard University, New York; India New Delhi, EAU Dubai; South Africa Cap town; North Africa, Marrakech, Casablanca, Europe; France, Monaco, Italy; Bergamo, Milano, Napoli, Roma, Bologna; Spain Barcelona, Sitges, Madrid...; Portugal Lisboa, Porto; Poland Varsovie Russia Moscow, Saint Petersburg; Switzerland, Geneva, UK, Coventry, Warwick...). Co-Founder and Past-President of the Advanced Medical and Surgical Aesthetic Society (SAMCEP), Secretary for the French Society of Facial Plastic Surgery (SFCPEF), he is also member of the European Academy of Facial Plastic Surgery and, the Rhinoplasty Society of Europe. Since 2014, he joins the American Society of Plastic surgeons. He organized a lot of congress and published many scientific studies and books on facial plastic surgery and aesthetic medicine.

He is one of the pioneer in the world for the Medical Rhinoplasty, with the first publication and the reference book in this field. He is the founder also of the "less is more and the medical strobing" concepts in aesthetic medicine.

Key opinion leader for several companies and scientific committees Member of the main board and the scientific organization for the "Awards de l'esthétique médicale" He was the scientific co-founder of Face2face congress, and the current the scientific coordinator for Anti-aging Monaco World Congress, Aesthetic Multispecialty Society, Face Aesthetics Masterclass, Nice Rhinoplasty course, ORL Corsica and Esthetique Corsica.

Personal contacts: frederic.braccini@gmail.com - www.braccini.net

Social medias: [Docteur.Frederic.braccini](https://www.facebook.com/Docteur.Frederic.braccini) - [dr.frederic.braccini](https://www.instagram.com/dr.frederic.braccini)

List of books: www.braccini.net/ouvrages/index.php

List of international publications: www.ncbi.nlm.nih.gov/m/pubmed/?term=Braccini



Alessio Redaelli

Vascular Surgeon and Aesthetic Physician

He graduated in Medicine at the University of Milan in 1979 and specialized in vascular surgery at the same University in 1984 with honours and praise. He was a pioneer in the introduction of Aesthetic Medicine in Italy and Europe in late '80. He obtained a diploma at the Post University "Agora" school of aesthetic medicine in Milan, works as a freelancer with the major private hospitals in Milan, and is a consultant for vascular surgery and aesthetic medicine at the Visconti di Modrone Medical Centre in Milan. He has been a speaker, moderator and chairman in several Italian and international conferences concerning aesthetic medicine and phlebology. He has published several scientific papers concerning phlebology and aesthetic medicine. He is founder and scientific director of "Medical Aesthetic", a medical training Society (www.medicalaesthetic.it). He teaches in some important Italian and Foreign schools of aesthetic medicine and he regularly organizes courses for doctors in his clinic in Milan.

Finally he wrote many best seller books in the field of aesthetic medicine and dentistry translated in many languages.

www.docredaelli.com



CONTRIBUTORS



Hugues Cartier

Centre Medical Saint-Jean, 8 Square Saint-Jean Arras. France

huguescartier@gmail.com

He is the global scientific derm-coordinator for IMCAS congresses. Dermatologist, phlebologist and derm laserist at the Clinic Saint-Jean, Arras, France. He is also the chief of wound care in the dermatology department of Arras Hospital. Dr. Cartier is the vicepresident of the Société Française de Medecine Esthétique and past-president of the Groupe Laser de la Société Française de Dermatologie. He is also course coordinator of the Société Belge de Médecine Esthétique. Co-author edition: Les lasers en dermatologie 2017; Couperose & erythroze; rejuvenation, LED en dermatologie (Noe C.), chapt IPL/cosmetic medicine & surgery and last edition of dermatologie esthétique 2020 Expert phase II, III/clinical trial for fillers, toxin, laser and wound.



Alberto Diaspro

Maxillo-facial Surgeon Facial Plastic Surgeon
Cosmetic Doctor

He has received his Medical Degree and specialization in Maxillo-facial Surgery from the University of Turin. He earned his Master of Sciences in Facial Plastic Surgery from Tor Vergata University, in Rome and Aesthetic Medicine and Therapy from the University of Camerino, once obtained his Aesthetic Medicine Diploma at the Post University School of Aesthetic Medicine S.M.I.E.M. - Agorà in Milan. He authored and co-authored several scientific papers, published in peer-reviewed journals. He is a member of the European Academy of Facial Plastic Surgery (E.A.F.P.S.), of the Italian Association of Plastic and Aesthetic Surgery (A.I.C.P.E.) and of the Italian Association of Facial Cosmetic and Functional Surgery (A.I.C.E.F.F.). He is Chief Medical Officer of Rigeneralab – Centre for Regenerative Medicine, and works as private consultant in facial plastic and maxillo-facial surgery in Turin.

CONTRIBUTORS



Claude Levy

Maxillo-facial Surgeon
Orthognathic Surgeon
Cosmetic Doctor Paris France

He is a maxillofacial surgeon, in private practice in Paris. He was for a long time member of the American Association of Maxillofacial Surgery. After dedicating the majority of his activity to orthognathic surgery for 20 years, he focused his practice on surgery and cosmetic medicine of the face and neck. He regularly communicates at international congresses and is KOL for Croma*in France and internationally. His main topics of interest are: tensor threads in the treatment of the effects of face aging; the contribution of tensor threads in medical rhinoplasty; the use of biorevitalization PDO threads.



Jerome Paris

Consultant in Head and Neck Surgery Facial Plastic Surgery ENT

He is a Head & Neck - ENT surgeon and consultant in France. He is the Chairman of the Head & Neck Department of the Institut de Chirurgie ORL et maxillo-faciale Clairval, Hopital Privé Clairval since 2006 and Director-Consultant at the Institut Euro-Mediterranéen de Chirurgie Esthétique et Plastique, since 2008, in Marseille, France. He is also head of the CORE Head and Neck service in Hopital Privé de Provence since 2019. He has an international practice and is a specialist consultant in London, United Kingdom, at The Medical Chambers Kensington registered at the General Medical Council since 2013. He is a specialist consultant in Moscow, Russia since 2016. He is highly experienced in Head and Neck Surgery and Facial Plastic Surgery and Medicine. He is internationally

renowned for his expertise in the management of management parotid gland tumors (minimally invasive technique of aesthetic parotidectomy) and run the Institute for parotid surgery in France.

CONTRIBUTORS



Maria (Riekie) Smit

MBChB (UOFS). MSc Sports Medicine
(Pret Adv Dip Aesth Med (FPD))
Pretoria South Africa

She has a private practice in Pretoria, South Africa, specializing in treating various aesthetic medical conditions. Dr. Smit is the founder and ex-officio president of the Aesthetic and Anti-aging Medicine Society of South Africa and chairperson of the Aesthetic Medicine Congress of South Africa. Dr. Smit is the course developer and academic coordinator for the officially recognized Advanced Diploma in Aesthetic Medicine in South Africa at the FPD higher education institute. She is also a faculty member of the American Academy of Aesthetic Medicine training doctors in Asia, Africa, Europe and UK. She is an international trainer and key opinion leader on aesthetic medical subjects and author of medical articles, journals

and scientific publications. Her field of expertise includes skin rejuvenation, facial injectables (neuromodulators and fillers), thread lifting, chemical peels, mesotherapy, PRP, Lasers and LED. Dr. Smit is a global KOL for various aesthetic medical and pharmaceutical companies in the industry.



Kostantin Sulamandize

Plastic Aesthetic reconstructive surgeon
dermatovenereologist
CEO Total Charm Clinic - Tbilisi - Georgia

He was Graduated in I. M. Sechenov Moscow Medical Academy in 2009. In 2011 graduated the B. V. Petrovskiy RAMS academic clinical RSSC (The Russian Science Surgical Centre) residency, the occupation "Surgery". In 2012 graduated RUPF (The Russian University of Peoples Friendship) internship, occupation "Dermatovenereology". Member of International Society of Aesthetic Plastic Surgery (ISAPS). Member of Plastic, Reconstructive and Aesthetic Surgery of Georgia (GeoPRAS). Since 2009 has performed more than 8000 plastic and aesthetic surgeries and more then 5000 injection procedures. Is a co-author, co-owner of Aptos methods and company, co-holder of all International Aptos patents.

CONTRIBUTORS

Simon Rasteau



Cécile Winter



Philippe Kestemont



Simon Rasteau

Maxillo-Facial Surgery, Facial Plastic Surgery, Stomatology and Oral Surgery,
Hospices Civils de Lyon, Lyon-Sud Hospital - Claude-Bernard Lyon 1 University,
165 chemin du Grand-Revoyet, 69310 Pierre-Bénite, France

He is a Maxillo-Facial Surgeon in Lyon, France. His main interests are in the fields of profiloplasty and facial aging medicine and surgery.

Cécile Winter

Saint George Aesthetic Clinic,
2 Avenue de Rimiez, 06105 Nice, France

She is a Head & Neck surgeon in Nice, France. She has been invested in facial aesthetic medicine & surgery for more than 12 years.

Philippe Kestemont

University Institute of the Face and Neck,
Côte d'Azur University, Nice University Hospital,
31 Avenue de Valombrose, 06100 Nice, France

He is a Head & Neck surgeon in Nice, France. His many years of experience in facial aesthetic medicine and surgery have led him to participate in numerous international conferences, congresses and courses as a speaker.

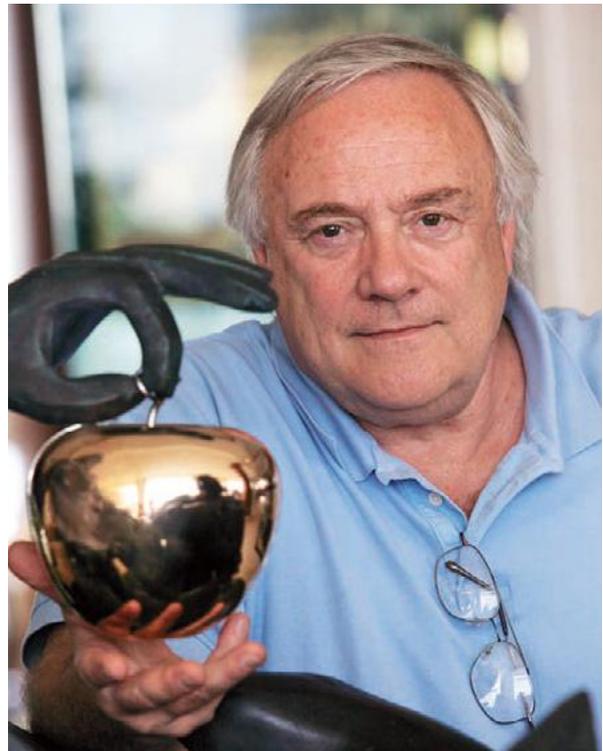
ARTISTIC CONTRIBUTION

Mateo Mornar

www.mornar.com

Beautiful, pure, genuine.

On these three essential notes Mateo Mornar composes a true hymn to womanhood. This world-famous sculptor is fascinated by his art, and by the female body, for which he feels infinite respect and love, and whose curves he caresses with great tenderness. His women are usually supple and carnal, often lascivious, sometimes facetious or pensive. Mornar pays tribute to all those he has loved, desired or approached. This inexhaustible source of inspiration for art comes straight from the heart. And 'heart' is another constant for this totally fulfilled sculptor who steers clear of fads. He pursues his way with the help of enlightened collectors all over the world who believe in him and encourage him. For several years now, Mateo Mornar has been asserting himself as a creator in space, launching into the realization of monumental works designed in the hope that they might become vectors of peace in our troubled world. And soon there will be a Foundation, so that Mateo Mornar can set up a school of sculpture to encourage young people to enter into art, as one enters into religion - with faith... True, Mornar's sculptures are more than simple decorative gestures, but buying a Mornar is a lifetime investment, in every sense of the term.



The drawing of this book presentation "Subjective appearance" has been done by MORNAR exclusively for this project.

ACKNOWLEDGEMENTS

I once again thank my loved ones, my collaborators, and above all the young colleagues who come to my course, looking at me intrigued and eager to learn the techniques and secrets to avoiding the possible dramatic disasters of medical rhinoplasty. I must especially thank those who make me study again, who encourage me to do better, who ask me the secrets of an art that has now become medicine! How many students have surpassed the master! Thanks to all of you!

Alessio Redaelli

My thoughts immediately turn to all who have supported me for so long. Thanks to the members of my family for the support they have given me all these years. Thanks to Toussaint, my lamented father and doctor, who has continuously been a very important reason for success and achievement. I am proud to have kept the medical flame that my father transmitted me. I miss you.

Thanks to my mother Martine, whose existence was an incomparable example of forces.

I thank my wife Rosine, without whom nothing could happen: she has always been there when needed! Thank you for your patience and excellent understanding during all these years. Sébastien, my son, who is my reason for everything! I am opening a way for your future that I hope will be wonderful.

Thanks to Marie, my daughter, for her permanent great good humour and joy of living.

Thanks to Catherine my sister and Stéphane my brother.

To my relatives, Roger and Antoinette, Tony and Etienne (the man of the extreme!).

Thanks to Corsica, this beautiful island, which is a permanent source of inspiration and strength.

“u valore di e cose e quellu che omu li da”

I thank my friends and colleagues who are fond for facial aesthetics:

- thank you Dr. Jérôme Paris, brilliant and hyperactive, for your unfailing friendship and your constant encouragement. In more than 20 years you have become one of my only supports. I care for you, my friend, my brother!

- thank you Dr. Philippe Berros, who is one of the famous specialist in the orbital region and especially in hyalurostructure. Thanks for your presence at my side in times of joy or despair. Yours is an unchanging friendship.

- thank you Dr. Henry Sabatier, a friend of childhood I met again with great pleasure to create big projects and consolidate our friendship.

- thank you Dr. Jacques Lagier, a great personality in the field of ocular plastic surgery in France and Europe. You welcomed me at your side in Nice allowing me to take part in important projects. Your support in hard times is very important to me.

- thank you Dr. Patrick Trevidic, international well known surgeon and anatomist. I was very glad to share with you the “FACE2f@ce adventure”

- thank you Dr. Philippe Kestemont for your expertise in anatomy and your permanent support during last years.

- thanks to my solid compatriots Isabelle Catoni, Henry Canale, Patrick Porta and Bertrand Joly.

I thank my secretaries and assistants who are bearing all my moods. Thanks for your help in every moment: Magalie Murro, Marie-Ange Delepine, Deborah Kopff, Anne Marie Saurel, Evelyne Lejeune, Chrysis Borjon and Fanny Belin and Caroline Winstanley. I also thank Didier Tabary and his team. I am very sensitive for your friendship. Thanks to Alessio, my co-author, my friend for your energy and confidence in this beautiful project. We “were-are” the «pioneers» in this medical rhinoplasty field thanks again!

Frédéric Braccini

CONTENTS

| | |
|---|-----------|
| PRESENTATION - By Sebastian Cotofana | 5 |
| PRESENTATION - By Hugues Cartier | 6 |
| PREFACE TO THE THIRD REVISED EDITION | 7 |
| AUTHORS | 8 |
| CONTRIBUTORS | 10 |
| ARTISTIC CONTRIBUTION | 14 |
| ACKNOWLEDGEMENTS | 15 |
| | |
| CHAPTER 1 - HISTORY OF RHINOPLASTY | 21 |
| HISTORY OF RHINOPLASTY..... | 23 |
| | |
| CHAPTER 2 - THE ANATOMICAL BASE | 27 |
| MEDICAL-SURGICAL ANATOMY | 29 |
| INTRODUCTION | 29 |
| SOME PRACTICAL EXAMPLES OF DIFFERENT NASAL PROJECTION | 30 |
| THE OSTEOCARTILAGINOUS SKELETON | 31 |
| MUSCLES OF THE NASAL PYRAMID | 33 |
| THE NASAL ROOT: PROCERUS AND CORRUGATOR MUSCLES | 34 |
| Procerus Muscle, Corrugator and Depressor Supercilii | 34 |
| Levator Labii Aleque Nasi Muscle..... | 35 |
| THE NASAL MUSCLE | 36 |
| DILATOR NARIS | 36 |
| DEPRESSOR OF THE NASAL SEPTUM (DEPRESSOR SEPTI NASI) | 37 |
| VASCULATURE | 39 |
| FOCUS ON NASAL VASCULAR NETWORK - <i>By Sebastian Cotofana</i> | 40 |
| INNERVATION..... | 41 |
| THE SKIN..... | 43 |
| ANATOMICAL DIFFERENCES BETWEEN CAUCASIAN AND FAR EAST ASIAN PATIENTS..... | 44 |
| | |
| CHAPTER 3 - ECOGRAPHIC ANATOMY OF THE NOSE | 47 |
| <i>By Hugues Cartier</i> | |
| WHICH DEVICE? | 49 |
| TRANSDUCERS | 49 |
| ADJUSTMENT | 49 |
| THE CHOICE OF THE FOCAL ZONE | 49 |
| ANGLE OF INCIDENCE | 49 |
| TRANSDUCERS MANIPULATION | 49 |
| POSTERIOR ACOUSTIC ENHANCEMENT..... | 50 |
| REVERBERATION ARTEFACT | 50 |
| BRIGHTNESS MODE (B MODE) | 50 |
| DOPPLER EFFECT MODE..... | 50 |
| STRUCTURE AND SKIN TISSUE OF THE NOSE | 51 |
| VASCULAR PATTERN OF THE NOSE | 51 |
| DEEPEST POINT OF THE FRONTONASAL ANGLE (SELLION) | 52 |
| MIDLINE JUNCTION BETWEEN THE NASAL BONE AND CARTILAGE | 52 |

| | |
|--|----|
| TIP OF THE NOSE | 53 |
| FILLERS FOR NOSE..... | 53 |
| US-GUIDED FILLER INJECTION PROCEDURES..... | 54 |

CHAPTER 4 - STUDY OF THE PATIENT AND PHOTOGRAPHY 55

| | |
|--|----|
| INTRODUCTION..... | 57 |
| GENERAL STUDY OF THE FACE | 58 |
| DETAILED STUDY OF THE NOSE | 60 |
| STUDY OF FAR EASTERN ASIAN PATIENTS..... | 63 |
| MAIN NASAL ANGLES IN FAR EAST ASIAN PATIENTS | 63 |
| PHOTOGRAPHIC ANALYSIS | 64 |
| BASE PROJECTIONS..... | 64 |

CHAPTER 5 - ARTISTIC APPROACH FOR RHINOPLASTY 67

| | |
|---|----|
| ARTISTIC ANATOMY OF THE NOSE | 69 |
| BASE..... | 72 |
| PROFILE | 72 |
| PROJECTION AND SHAPE OF THE TIP..... | 73 |
| EXAMPLES OF PARTICULAR NASAL PROJECTIONS..... | 75 |
| PRACTICAL ARTISTIC APPROACH | 76 |

CHAPTER 6 - BOTULINUM TOXIN: HOW, WHEN AND WHY 79

| | |
|--|----|
| INTRODUCTION..... | 81 |
| MATERIALS USED..... | 81 |
| DIFFERENCES BETWEEN DIFFERENT BOTULINUM TOXINS ON THE MARKET | 82 |
| Quantity of Active Neurotoxin in Different BONT- AS at Approved Units..... | 82 |
| PREPARATION OF MATERIALS | 83 |
| PREPARATION OF VISTABEX/VISTABEL/COSMETIC BOTOX/BOCOUTURE 50U | 83 |
| PREPARATION OF AZZALURE..... | 84 |
| INDICATIONS | 85 |
| STUDY OF PATIENTS | 85 |
| PREPARATION OF PATIENTS..... | 85 |
| TREATMENT | 85 |
| FULL PROTOCOL OF INJECTIONS WITH BOTULINUM TOXIN A..... | 86 |
| SIDE EFFECTS FROM USE OF BOTULINUM TOXIN A..... | 88 |

CHAPTER 7 - NASAL SCULPTURE WITH FILLERS 89

| | |
|---|-----|
| TREATMENT WITH FILLERS..... | 91 |
| TREATMENT WITH HYALURONIC ACID | 92 |
| MAIN CHARACTERISTICS OF FILLERS | 92 |
| THE TECHNIQUE..... | 94 |
| INJECTION OF THE NASAL ROOT | 95 |
| INJECTION AND DEFINITION OF THE TIP OF THE NOSE..... | 96 |
| TREATMENT OF THE MAXILLARY NASAL SPINE TO OPEN THE NASO-LABIAL ANGLE | 96 |
| TREATMENT OF THE NASAL BRIDGE AND COLUMELLA WITH A BLUNT CANNULA | 97 |
| AESTHETIC AND FUNCTIONAL CORRECTION OF THE NASAL VALVE'S DISORDERS | 99 |
| THE TREATMENT PROTOCOL..... | 100 |
| GUIDELINES FOR THE USE OF HYALURONIDASE AFTER INJECTIONS OF HYALURONIC ACID | 101 |

CHAPTER 8A - MEDICAL RHINOPLASTY WITH TRACTION THREADS 103

By Alberto Diaspro, Konstantin Sulamanidze

INTRODUCTION..... 104
APPLIED ANATOMY AND PATIENT EVALUATION 104
TECHNIQUE 104
CONCLUSIONS 107
BIBLIOGRAPHY 108

CHAPTER 8B - NONSURGICAL RHINOPLASTY WITH THREADS 109

By Riekie Smit

CONSIDERATIONS FOR NOSE THREAD LIFT PROCEDURE 112
 INDICATIONS..... 112
 CONTRA-INDICATIONS 112
 COMPLICATIONS OR SIDE EFFECTS..... 112
 PRACTICAL STEPS FOR NASAL THREAD LIFT PROCEDURE 113
CASES 115
CONCLUSIONS 118
BIBLIOGRAPHY 118

CHAPTER 8C - NONSURGICAL RHINOPLASTY WITH THREADS 119

By Claude Levy

TECHNIQUE 120
RESULTS..... 123
COMPLICATIONS 123
DURATION OF THE TREATMENT 123
COMPLEMENTARY GESTURES 123
DISCUSSION 123
CONCLUSION 124
BIBLIOGRAPHY 125

CHAPTER 9 - INDICATIONS AND PRACTICAL CLINICAL CASES IN CAUCASIAN PATIENTS 127

INDICATIONS 128
 THE FACE MUST BE SEEN AND EVALUATED AS A WHOLE, THREE-DIMENSIONALLY 128
 THE REJUVENATING EFFECT OF MEDICAL RHINOPLASTY 129
 DIFFERENT ABSORPTION ZONES OF THE INJECTED PRODUCT 129
 INJECTION OF PRIMARY COMPLEMENTARY PRODUCTS FOR SURGICAL RHINOPLASTY..... 129
INDICATIONS AND PRACTICAL CLINICAL CASES 129
 NAIVE PATIENTS 129
 Clinical cases..... 130
 POST-SURGICAL PATIENTS 154
 Clinical cases..... 154
 NON-SURGICAL SECONDARY RHINOPLASTY 169
NASAL SOFT TISSUE MANAGEMENT 169
 CASE REPORT 1 - SECONDARY RHINOPLASTY – NOSTRIL SOFT TISSUE 169
 Clinical assessment of deformities 170

| | |
|--|-----|
| Treatment – injection plan | 170 |
| CASE REPORT 2 - SECONDARY RHINOPLASTY – NASAL TIP AND DORSUM | 170 |
| Clinical assessment of deformities | 171 |
| Treatment – injection plan | 171 |

CHAPTER 10 - THE CORRECTION OF NASAL BRIDGE IN ASIAN, AFRICAN AND FAR EAST PATIENTS **173**

| | |
|--|-----|
| INTRODUCTION..... | 174 |
| TECHNIQUE FOR RAISING THE BRIDGE OF THE NOSE | 175 |
| Examples..... | 175 |

CHAPTER 11A - COMPLICATIONS AND CONTRAINDICATIONS **183**

| | |
|--|-----|
| DANGER AREAS: GLABELLAR REGION, NASAL BRIDGE, COLUMELLAR AREA AND TIP OF THE NOSE..... | 185 |
| THE GLABELLAR REGION | 186 |
| Examples..... | 187 |
| IRRITATION OF THE NASAL RIDGE..... | 188 |
| Example..... | 188 |
| ISCHEMIA AND IRRITATION OF THE TIP OF THE NOSE | 188 |
| Example..... | 190 |
| MIGRATION OF HYALURONIC ACID IN OTHER AREAS | 191 |
| AN INTERESTING CASE OF DELAYED ISCHEMIA OF THE NASAL TIP | 191 |
| CONTRAINDICATIONS FOR THE MATERIALS | 193 |
| CONTRAINDICATIONS FOR PATIENT’S CLINICAL SITUATION | 195 |
| INTERACTION WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTION OF BOTULINUM TOXIN A | 195 |
| RELATIVE CONTRAINDICATIONS..... | 196 |

CHAPTER 11B - VASCULAR COMPLICATIONS IN NONSURGICAL RHINOPLASTY USING HYALURONIC ACID **197**

By Simon Rasteau, Cécile Winter, Philippe Kestemont

| | |
|--|-----|
| INTRODUCTION..... | 198 |
| VASCULAR ANATOMY OF THE NOSE..... | 198 |
| PATHOPHYSIOLOGY OF VASCULAR COMPLICATIONS | 199 |
| CLINICAL DIAGNOSIS OF VASCULAR COMPLICATIONS | 200 |
| EMERGENCY TREATMENT OF VASCULAR COMPLICATIONS..... | 201 |
| SKIN NECROSIS..... | 201 |
| OPHTHALMOLOGICAL SYMPTOMS | 202 |
| PREVENTIVE MEASURES | 203 |
| CONCLUSION | 203 |
| BIBLIOGRAPHY | 204 |

CHAPTER 12 - MEDICAL-LEGAL ASPECTS AND CONCLUSIONS **207**

| | |
|--|-----|
| A FEW MEDICAL-LEGAL NOTES! | 209 |
| LAW NO. 94 OF 8 APRIL 1998..... | 210 |
| ANOTHER SENTENCE OF THE COURT OF CASSATION ON THE “OFF-LABEL” | 210 |
| CONCLUSIONS | 212 |
| BIBLIOGRAPHY | 213 |