

PRESS RELEASE

The Italian publishing house Officina Editoriale Oltrarno has recently published its manual on

FACIAL ULTRASOUND IN AESTHETIC MEDICINE

The coordinators are Hugues Cartier MD, Prof. Alessio Redaelli, and Peter Velthuis MD.

Coauthors: J. Arlette MD, S. Desyatnikova MD, S. Garson MD, C.P. Gonzalez Diaz MD, C. Kasemnet MD, H.J Kim MD, J.S. Kim MD, A. Koilouri MD, K.H. Yi MD, H.J. Lee MD, N. Romanowska MD, B. Rzany MD, A. Saromitckaya MD, L. Schelke MD, S. Weiner MD.

With prefaces by Benjamin Ascher MD, Jean Carruthers MD and Marina Landau MD.

“This book, ‘Facial Ultrasound in Aesthetic Medicine: Basic Principles and Clinical Practice’, embarks on a new chapter in plastic surgery and aesthetic dermatology, which is gradually being built: ultrasonography. This preface is your gateway to a comprehensive guide that delves into the remarkable potential of ultrasound echography as a modern and reliable tool for facial and body injections. We will explore the principles and science behind this technology, dissect its applications, and showcase the expertise of pioneering practitioners who have harnessed its capabilities to craft the most natural and pleasing outcomes. With the increase in malpractice and legal issues, it is increasingly important for HCPs to find a stable solution to prevent complications. There are many safety measures and tools to reduce the risk, including better knowledge of anatomy, a slow injection technique, aspirating before injection, and the ‘intelligent needle’, with alarm. However, the most efficient and safe tool that prevents the risk, is ultrasonography guidance. [...] The field of these applications in medicine and cosmetic surgery is just beginning. My vision is that each of our injections will have to be documented by ultrasound before, during and after. This increasingly rapid practice will likely be recommended or even required on a legal level, hence the importance of this book” - Benjamin Ascher MD, Plastic Surgeon Board Certified, Lecturer & Clinical Assistant, Paris Academy, IMCAS Honorary President & Founder, THINKIN Medical Director.

The book was **published in 2024** by Officina Editoriale Oltrarno (OEO Firenze) publishing house in Florence (Italy).

For a more complete and exhaustive knowledge of the subject, OEO Firenze has integrated a multimedia component into the paper book. **Through a QR code it is possible to access the dedicated web page containing videos and extra content.**

THE COORDINATORS

Hugues Cartier MD

Hugues Cartier is **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. **He is the global course scientific director of IMCAS congresses with Sebastien Garson (plastic surgeon). He is the vice president of the Société Française de Médecine Esthétique** and past president of the Société Française des Lasers en Dermatologie. He is also the course coordinator of the Société Belge de Médecine Esthétique. **He has been a member of EADV for more than 20 years and is on the board of the EADV task force for Tattoo. He is the author and co-author of several peer review papers and for edition:** Les lasers en dermatologie 2017; Couperose & erythroze; rejuvenation, LED en dermatologie (Noe C.), chapt IPL / cosmetic medicine & surgery; dermatologie esthétique 2020 Expert phase II, III/ clinical studies fillers, toxin, laser, and wound healing.

Prof. Alessio Redaelli

He lives and works in Milan. **He is scientific director of Medical Aesthetic and chairman of IPAM Congress and Masterclass. He has published many books in the field of aesthetic medicine and more than 35 scientific articles in the field of aesthetic medicine and phlebology. KOL for Ipsen company.** Visiting Professor at the Genoa University, Master in Aesthetic medicine. Teacher in IAPEM and AIMS Italian schools. He is chairman and scientific director of International Congress IPAM. **He is an active member of the International Academy of Aesthetic Dermatology. He is chairman and KOL at the majority of the most important international congresses.**

Peter Velthuis MD

Almost his entire working life as a **dermatologist, Dr Peter Velthuis has devoted himself to the practice and science of cosmetic medicine.** He founded his 'Velthuis Kliniek' in the Netherlands in 1995. After retiring he picked up scientific work in 2016 **at Erasmus Medical Center Rotterdam, where he leads the section of cosmetic dermatology. Dr. Velthuis has cofounded the Dutch Society for Cosmetic Dermatology. He is currently president of ESCAD (European Society for Cosmetic and Aesthetic Dermatology).** Together with Dr. Schelke, he is a co-founder and shareholder of Cutaneous.

INTERVIEW

Professor Redaelli, how can you present this new book on Ultrasounds in aesthetic?

If I well remember about 4-5 months ago I called my friends and expert dermatologists Dr Hugues Cartier and Peter Velthuis to propose my idea to write a book on ultrasounds in aesthetic medicine! The first impact was quite cold and with many 'but...'.
The last impression is burning! All Authors gave their best and the result in my opinion is very interesting. Hope everyone will enjoy this incredible fatigue. Waiting your suggestion for next edition!

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Professor Redaelli, the book brings together the experience of many specialists in the aesthetic sector from all over the world, was it difficult to coordinate them and organize the material?

When, about 5 months ago, I contacted my friend Hugues Cartier to propose this dream of mine, to write a book on the anatomy and diagnostics using ultrasound of the face, I did not immediately realize the specificities that each anatomical area poses. The delicacy of ultrasound investigations requires high level experience. So with Hugues and Peter we have chosen the best specialists in ultrasonographic diagnosis on the planet. We truly chose the best and therefore all the topics were dealt with by highly experienced specialists. And with them we helped all our colleagues understand which machine to choose, explaining the reason why everyone uses a machine suited to their own reality.

I really hope that all my colleagues will appreciate this experience. And since they are all very good, it wasn't difficult to put together all the experiences and write a super-specialist book in a truly exceptional amount of time! It was truly a job that I enjoyed very much.

And I am very happy to have closed the anatomical treatment of the face: after the dissection and clinical anatomy, this book closes the circle with ultrasonographic anatomy.

Doctor Velthuis, I know you had some doubts. Are you happy with the outcome of this book?

Extremely happy! My doubts had to do with the short processing time. But actually, that proved to be a big advantage. Because everyone was so very focused on delivering optimal and timely

output, we have a very much state of the art text. That is an enormous plus in the fast moving area of facial ultrasound imaging. Also the QR-code delivery of videos that will be updated frequently makes this book to a must-have.

Doctor Velthuis, what do videos add to the beautiful pictures in the book?

Well, ultrasound imaging is more of a dynamic diagnostic tool than a static one. For the beginner photographs are helpful, but more advanced readers will benefit from the videos much more. They want to know how the structures look in all directions and not just one. So, in this way the book can teach you from beginner to more advanced level.

Doctor Velthuis, how should the doctors use the book?

It depends on where you are in journal journey with ultrasound imaging. For a novice, reading from beginning to the end is not advisable. I would do the anatomy chapters first and then when you are ready to purchase a device have a look at the advices about buying a device. Advanced readers might enjoy our vision on the future and may make use of the anatomy pictures to test themselves. This book is meant to give everyone a joyful reading and studying experience.

Doctor Cartier, the use of ultrasound is already well-established in many specialties, not just radiology, angiology, and gynecology. But what about aesthetic medicine, and injectables in particular?

Aesthetic medicine and surgery is still a young specialty, but one that is facing a worldwide craze. The IMCAS has been featuring ultrasound on its congress agenda for the past 5 years, and we are also seeing more and more of this theme every day at other aesthetic congresses, but very little if any in academic radiology societies, for example. There are very few academic or university courses available today, such as CutenaoUS (Peter Velthuis & Leonie Schelke). Buying an ultrasound machine is not very complicated, but using it is. The notion of responsibility is also crucial: performing an ultrasound examination to visualize skin tissue is obviously risk-free. But making sure you don't poke into a deep artery in an ultrasound-guided procedure, differentiating a vascular occlusion associated with a hematoma, or diagnosing fillers that have already been injected, places the user physician in a different sphere of responsibility. But as aesthetic medicine is a melting pot of specialties, and not just dermatologists or plastic surgeons, we will benefit from other specialties that use ultrasound as a tool in their daily work. Indeed, gynecologists, anesthesiologists, emergency physicians, angiologists and even some radiologists are investing in the world of aesthetic medicine for a variety of reasons. This can only be beneficial to its development.

Doctor Cartier, what is the benefit of using ultrasound in aesthetic medicine?

It is a non-invasive, reproducible, dynamic examination but operator-dependent. The use of US can serve the practitioner for a preoperative or follow-up examination or screen complications. Using the US can help the practitioner identify migrations and malpositions in deep fat or in the SMAS. Clinical trials follow-up to observe the integration of the product into the tissue. Reliable examination? Compared with CT or MRI scans or clinical examination.

Doctor Cartier, would the use of ultrasound be more essential for some parts of the face than others, in particular to identify dangerous arteries or high-risk areas?

Temporal fossa, mid-face, chin, nasolabial folds, periorbital or eyebrow furrows, masseter... any area can induce some complications. You can know your anatomy very well, make your injections with a cannula of more than 22G, with small drops and slow pressure on the piston... the danger zone is everywhere. On the other hand, it is not possible to use US for mapping and guided procedure for any injections. We believe that US is helpful not only to try to prevent injury in vessels but also to check the skin for any previous fillers, decide or not to inject deep or close to the bone with the risk of touching a deep branch of the facial artery in the pyriform space or deep temporal artery, to find the right plane for the deposit of the fillers, follow in time the integration or not. You can find many conditions for the use of US.

Technical details of the Book

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Subtitle: BASIC PRINCIPLES AND CLINICAL PRACTICE

Authors: **Hugues Cartier, Alessio Redaelli, Peter Velthuis**

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Prefaces: **Benjamin Ascher, Jean Carruthers and Marina Landau**

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Via Gran Bretagna 47 – 50126 Firenze (FI) - ITALY

Davide Di Maggio – telephone +39 388 0479752

info@oeofirenze.com

www.oeofirenze.com

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Press Office

Carlotta Cirri

carlotta@oeofirenze.com

telephone +39 333 8401838