atlas of dental rehabilitation techniques

milan, berlin, chicago, tokyo, barcelona, istanbul, london, moscow, paris, beijing, prague, são paulo, seoul, warsaw
Romeo Pascetta and Davide Dainese belong to a limited group of very talented ceramists with unique skills and experience in performing all kinds of restorations, from single-tooth to full-arch, with the same precision. In this outstanding book, they provide the reader with the most valid artistic basics and with profound technical knowledge, which can only come from extensive and valuable practical experience.

Each chapter deals with important topics, with meticulous attention to detail in each and every step and absolute precision throughout that starts with the communication between the dentist and the laboratory and is maintained until the completion of that particular case. The extremely detailed assessment of the final impression using a microscope is essential to the steps that follow: mounting casts on the articulator, a first-rate wax-up, and a thorough evaluation of all elements of occlusion required for each kind of restoration. Framework design, choice of metal or ceramic system, final marginal fit, and design of collarless and all-ceramic restorations are extensively described and cautiously illustrated to share all the essential practical details with the reader.

The authors’ talent is particularly demonstrated in the sections about final wax-up and finishing of ceramic restorations, and there is a clear focus on disciplined implementation of the full-contour wax-up, because this step is closely reflected in the completed restoration. This systematic work is particularly important in achieving complete esthetic and functional predictability in complex restorations. For all these reasons, and because of its deeply practical approach, this book is a huge contribution to esthetic dentistry, and it will be of use to both dentists and dental technicians willing to improve their technical and communication skills in the name of excellent interdisciplinary work.

Finally, this brilliant work reflects Romeo Pascetta’s and Davide Dainese’s passion for their work and shows their experience and skills, which can only result from years of work in the laboratory and dedication to meeting the highest esthetic standards.

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The idea of an Atlas of Dental Rehabilitation Techniques came from a desire to provide dental technicians and dentists with a laboratory manual that would illustrate, through pictures and captions, the working techniques used to create dental prostheses as well as the technologies, materials, and equipment used in the laboratory. To this end, we have tried to outline—as if in a conference speech—our everyday working routine, documenting all the standard phases of each procedure and trying to capture the importance of accuracy and precision throughout the entire process with photographs. This atlas intends to be an easy-to-consult volume where the reader can find useful suggestions for various clinical situations, from the not-always-simple single-tooth restoration to large rehabilitations, which are often complex and difficult to resolve in terms of precision, functionality, and esthetics. Performing the illustrated techniques correctly and choosing the right materials, together with the new technologies being introduced every day in this field, can guarantee dental technicians and their teams success in prosthetic restorations, leading to patient satisfaction.

Romeo Pascetta
Davide Dainese
In this Atlas of Dental Rehabilitation Techniques, through the photographs and their legends, we will analyze those elements that dental technicians should take into account to succeed and to successfully meet the patient’s expectations. From the minor restoration of a single tooth to complex rehabilitations, we will show selected clinical cases, accomplished with traditional techniques, innovative materials, and state-of-the-art equipment and technology in dentistry and prosthodontics. Satisfying results can be achieved also in complex cases, which for the patient is a guarantee of the professionalism of the prosthetic team, thanks to clinical-laboratory communication and to an understanding of mutual needs. The object of a prosthetic restoration is to reproduce the look and function of natural teeth, and both the dentist and the dental technician share this goal. With proper tooth preparation, the accurate reproduction of anatomical characteristics, and the correct use of impression materials and techniques, the dentist sends fundamental medical information to the dental technician, whose goal is to reproduce the details; this is not possible without following laboratory techniques to the letter. It is therefore essential to pay great attention to technical working procedures, so that the anatomical information provided by the impression does not get lost, always bearing in mind that the proper use of innovative materials and careful management of laboratory working steps produce technically correct restorations. Behind a successful prosthetic restoration there are several elements. First, whether natural teeth or implants support the restoration, one fundamental is planning: the more accurate the planning, the fewer unexpected outcomes there will be. Furthermore, when preparing for a single crown, a three- or four-unit fixed partial denture, or a full-mouth rehabilitation, the full-contour wax-up allows us to assess the esthetic form we want to obtain, thus giving us an idea of what the definitive restoration will be. The preliminary study of the framework architecture is a fundamental factor for the support of the esthetic layer material. It is worth mentioning that esthetics not only encompasses the shape and the shade, but also must be complemented by prosthetic precision. All these requirements perfectly integrate with new and sophisticated computer-aided design/computer-assisted manufacture (CAD/CAM) working techniques that have certainly enhanced our field with new ceramic materials, thus fulfilling the more and more urgent esthetic needs of patients, while ensuring them a compatible biologic solution and a prosthesis with a long life expectancy. However, although technical progress leads more and more to the use of mechanized procedures, it is also true that, to master those techniques, the operator’s experience, manual skills, and knowledge of materials are essential.
A house filling up with every thing when living: voices, smells, colors, people, words growing into relationships, caresses following the contours.

This house that gathers everything and by everything is imprinted, suddenly turns into a black cloud darkening the sky.

But in the future the sun will shine, it will not render vain the past nor will it waste what it gave us.

Assunta Pascetta
To my mother-in-law, Edy.
To my parents, Nunzio and Maria, irreplaceable source of my existence.
To my wife and my sons, Stefano and Giulio, who are my entire life.

Simply thank you:
- to Davide for his sincere friendship and for having shared this working experience with me, with true commitment and willpower;
- to my colleague and friend Federico, who has been at my side since 1989. His precious technical support and practical skills, but above all his human talent has made our cooperation successful and has led to much satisfaction in the job we love;
- to my brother, Camillo, who, besides sharing with me many life experiences, always accompanied and supported me in my professional career;
- to Giuseppe Zuppardi, a master of indisputable technical value and exemplary human qualities, a model in work and in life;
- to Giancarlo Garotti, indefatigable scholar and researcher, whose great professionalism, communication skills, and fine sentiments make him unique and special;
- to my colleagues Gaetano Bonifacio and Massimiliano Pisa, who, with their experience and teachings, contributed to my learning of the CEREC and inLab systems (Sirona);
- to all the dentists with whom I have the honor of working in obtaining the clinical photographs included in the book: Dr Alberto D’Alessandro; Dr Vincent Celenza, New York; Dr Graziano Giglio, New York; Dr Renato Lepore; Dr Domenico Massironi; Prof Maurizio Piattelli, D’Annunzio Università, Chieti, Italy; Dr Mario Semenza; Dr Riccardo Scaringi; Dr Bruno Tarquinio; Prof Ki-ho Kang and Dr G Paniz, Tufts University School of Dental Medicine, Boston.

To my father, Antonio, and my mother, Valentina, a model of strength, tenaciousness, self-sacrifice. Living by their example I learned never to give up in the face of difficulties.

To my daughter, Chiara, and my son, Federico, for supporting me and for being my source of inspiration.

To my sister, Daniela, who has always been there in the difficult moments of my life.

A special acknowledgment to the collaborators who have supported me and put up with me during these years: Maurizio Angius, Matteo Pinna, Claudia Fabiano, and Sonia Ferrando. It is thanks to their work that we have managed to achieve such results; their criticism and professionalism were essential for my professional growth.

I thank all the dentists with whom I work, who have shown sensitivity and who have made themselves available during the photographic documentation of procedures on their patients.

All my gratitude to a special person—I probably would not have found the right incentive to get to this point alone. He pushed me and helped me. I thank him for his friendship and for the esteem he shows me and for the strength he gave me to face this labor. I thank him for the advice and exchange of cultural and recreational viewpoints. We delivered on this idea, we drove away all doubts, and together we got through it. Thank you, Romeo.

To the dentists with whom I work, for the clinical photographs in the book: Dr Massimiliano Zaccaria; Dr Alessandro Molinari; Dr Ettore Boscetti; Dr Domenico Baldi; and Dr Marco Rotondi.
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