

# **Esthetic Soft Tissue Management of Teeth and Implants**

# Esthetic Soft Tissue Management of Teeth and Implants

**André P. Saadoun DDS, MS**

Doctor in Odontologic Sciences, University of Paris  
Associate Professor in Periodontics, University of Southern California  
Diplomate of the American Academy of Periodontology  
Diplomate of the International Congress of Oral Implantology  
Visiting Professor, Hadassah Faculty of Dental Medicine, Jerusalem

 **WILEY-BLACKWELL**

A John Wiley & Sons, Ltd., Publication

This edition first published 2013  
© 2013 by John Wiley & Sons, Ltd

Wiley-Blackwell is an imprint of John Wiley & Sons, formed by the merger of Wiley's global Scientific, Technical and Medical business with Blackwell Publishing.

*Registered Office*

John Wiley & Sons, Ltd, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, UK

*Editorial Offices*

9600 Garsington Road, Oxford, OX4 2DQ, UK  
The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, UK  
2121 State Avenue, Ames, Iowa 50014-8300, USA

For details of our global editorial offices, for customer services and for information about how to apply for permission to reuse the copyright material in this book please see our website at [www.wiley.com/wiley-blackwell](http://www.wiley.com/wiley-blackwell).

The right of the author to be identified as the author of this work has been asserted in accordance with the UK Copyright, Designs and Patents Act 1988.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, except as permitted by the UK Copyright, Designs and Patents Act 1988, without the prior permission of the publisher.

Designations used by companies to distinguish their products are often claimed as trademarks. All brand names and product names used in this book are trade names, service marks, trademarks or registered trademarks of their respective owners. The publisher is not associated with any product or vendor mentioned in this book. This publication is designed to provide accurate and authoritative information in regard to the subject matter covered. It is sold on the understanding that the publisher is not engaged in rendering professional services. If professional advice or other expert assistance is required, the services of a competent professional should be sought.

*Library of Congress Cataloging-in-Publication Data*

Saadoun, André P.

Esthetic soft tissue management of teeth and implants / André P. Saadoun.

p. ; cm.

Includes bibliographical references and index.

ISBN 978-1-118-30115-9 (hardback)

I. Title.

[DNLM: 1. Esthetics, Dental. 2. Dental Implantation—methods. 3. Gingival Recession—prevention & control. 4. Periodontics—methods. WU 100]  
617.6'93—dc23

2012025031

A catalogue record for this book is available from the British Library.

Wiley also publishes its books in a variety of electronic formats. Some content that appears in print may not be available in electronic books.

Cover images courtesy of André P. Saadoun  
Cover design by Andrew Magee

Set in 11.5/13.5pt Minion by SPi Publisher Services, Pondicherry, India

## The Value of a Smile

*A smile costs nothing, but gives much.*

*It enriches those who receive, without making poorer those who give.*

*It takes but a moment, but the memory of it sometimes lasts forever.*

*None is so rich or mighty that he can get along without it, and none is so poor, but that he can be made rich by it.*

*A smile creates happiness in the home, fosters good will in business, and is the countersign of friendship.*

*It brings rest to the weary, cheer to the discouraged, sunshine to the sad, and it is nature's best antidote for trouble.*

*Yet it cannot be bought, begged, borrowed, or stolen, for it is something that is of no value to anyone, until it is given away.*

*Some people are too tired to give you a smile;*

*Give them one of yours, as none needs a smile so much as he who has no more to give.*

Frederick William Faber

# Contents

<b>Foreword</b>	<b>ix</b>	The pink/white esthetic score, or PES/WES	61
<b>Acknowledgments</b>	<b>x</b>	The biological space	63
<b>1 Introduction</b>	<b>1</b>	Final remarks	65
<b>2 To smile or not to smile</b>	<b>5</b>	<b>5 Esthetic periodontal treatment</b>	<b>66</b>
The impact of esthetics	5	The biological rationale	66
Dental esthetics	7	Crown lengthening procedures	68
The smile-related quality of life	7	Gingival recession coverage	85
The senior citizen's smile	10	Final remarks	100
<b>3 The esthetics of the face</b>	<b>13</b>	<b>6 Esthetic implant treatment</b>	<b>102</b>
The face	13	Peri-implant risk factors	103
The lips	13	Soft tissue management	106
<b>4 The dentoalveolar gingival unit</b>	<b>20</b>	Final remarks	155
The gingiva	21	<b>7 Conclusion</b>	<b>160</b>
The bone	37	<b>References</b>	<b>165</b>
The teeth	50	<b>Index</b>	<b>175</b>
The interproximal bone height and the interdental implant papilla	54		

# Foreword

This volume addresses an area that should be of concern to the dental profession: the patient's smile. Dr. André Saadoun has attempted to demonstrate the importance of an esthetic smile to the patient and how this may be influenced by the soft tissue management of teeth and dental implants.

The author has analyzed the constituents of the smile and has addressed the various options that can result in the improvement of an individual's self-image by producing changes in those tissues. This carefully prepared text contains a thorough review of the literature of the past five decades and has applied those contributions to therapy in treating natural teeth as well as dental implants. It is gratifying to see that an emphasis is placed on the preservation of the natural dentition in health and function, and when the clinician has to replace hopeless teeth, the care necessary to improve the prognosis of implants. The advances in periodontal therapy are cited and described in some detail. This book should be of keen interest to all clinicians who are involved in oral health, which includes treating teeth and implants.

To date, there have been few attempts in the literature to correlate treatment of teeth and dental implants with their impact on the patient's smile.

The illustrations strengthen the editorial material and are well done. The reader will be stimulated to discuss the patient's smile with them during the examination phase of treatment. Helping the patient to understand the influence of oral treatment on improving their smile becomes a significant responsibility for the diagnostician and therapist.

This volume should partner with other texts that delve into periodontal and restorative treatment in great detail. Dr. Saadoun brings together the various specialties in dental medicine in a coherent fashion. There are many areas in the oral cavity, such as dental biotypes, that play an important role in decision-making by the dentist as one prepares to establish an esthetic smile. It is also clear that a patient's gratitude for an improved smile will benefit the therapist who has devoted great effort and time to studying and effecting this esthetic improvement.

The author should be complimented for putting the material into one volume, material that belongs on the shelf of every dentist.

D. Walter Cohen, DDS  
*Chancellor Emeritus*  
*Drexel University College of Medicine*  
*Philadelphia, PA*

# Acknowledgments

A Chinese proverb says: “*A teacher becomes a master, when his student becomes a teacher.*”

I will never forget all my masters, who have played an important role in my professional life, namely Professor Walter Cohen, Professor Morton Amsterdam, Professor Jay Siebert, Professor Saul Schluger, and Professor Per-Ingvar Brånemark.

I extend all my sincere appreciation and deepest gratitude to my colleagues and dearest friends who have motivated and encouraged me in making this dream come true by offering their clinical illustrations: Dr. Thierry Degorce from Tours; Dr. Stefen Koubi from Marseille; Dr. Cobi Landsberg from Tel Aviv; Dr. Masayuki Ohkawa from Tokyo; Dr. Gian Carlo Pongione from Turin; and Dr. Stephen Chu, Dr. Mark Hochman, and Professor Dennis Tarnow from New York.

I would also like to thank the following clinicians for contributing to making this book possible by kindly offering their clinical documentation: Dr. R. Amid, Dr. L. Sawdayee, and Mr. R. Lahav from Tel Aviv; Dr. S. Rocha Bernardes from Curitiba; Dr. L. Canullo from Rome; Dr. F. Chiche from Paris; Dr. M. Del Corso from Turin; Dr. M. Groisman from

Rio de Janeiro; Dr. J. Kan from Loma Linda; Dr. C. Lepage from Paris; Dr. P. Margossian from Marseille; Dr. K.B. Park from Seoul; Dr. A. Peivandi from Lyon; Dr. A. Pinto from Paris; Dr. J.L. Pruvost from Paris; Dr. P. Schupbach from Zurich; Dr. M. Suzuki and Dr. M. Yamazaki from Tokyo; Dr. T. Kim, Dr. D. Cascione, and Dr. A. Knezevic from Los Angeles; Dr. T. Testori from Como; Dr. G. Tirlet from Paris; and Dr. H. Zipprich from Frankfurt.

I offer all my thanks to my dedicated secretaries: Justin Ordoyo, Laura Parkin Osman, Nicole Laitano and Rivka Benloulou, and to Eric Quach for his ideas for the cover of the book.

My final words of gratitude go to my family: my wife, Monique, and my daughters Karine and Catherine, for their patience and support during this long process of creative and challenging work; and to my grandchildren Noa, Emma, Olivia, and Alexandre.

I will always have the greatest appreciation and respect for my beloved parents, who gave me the thirst for knowledge and the passion to share it.