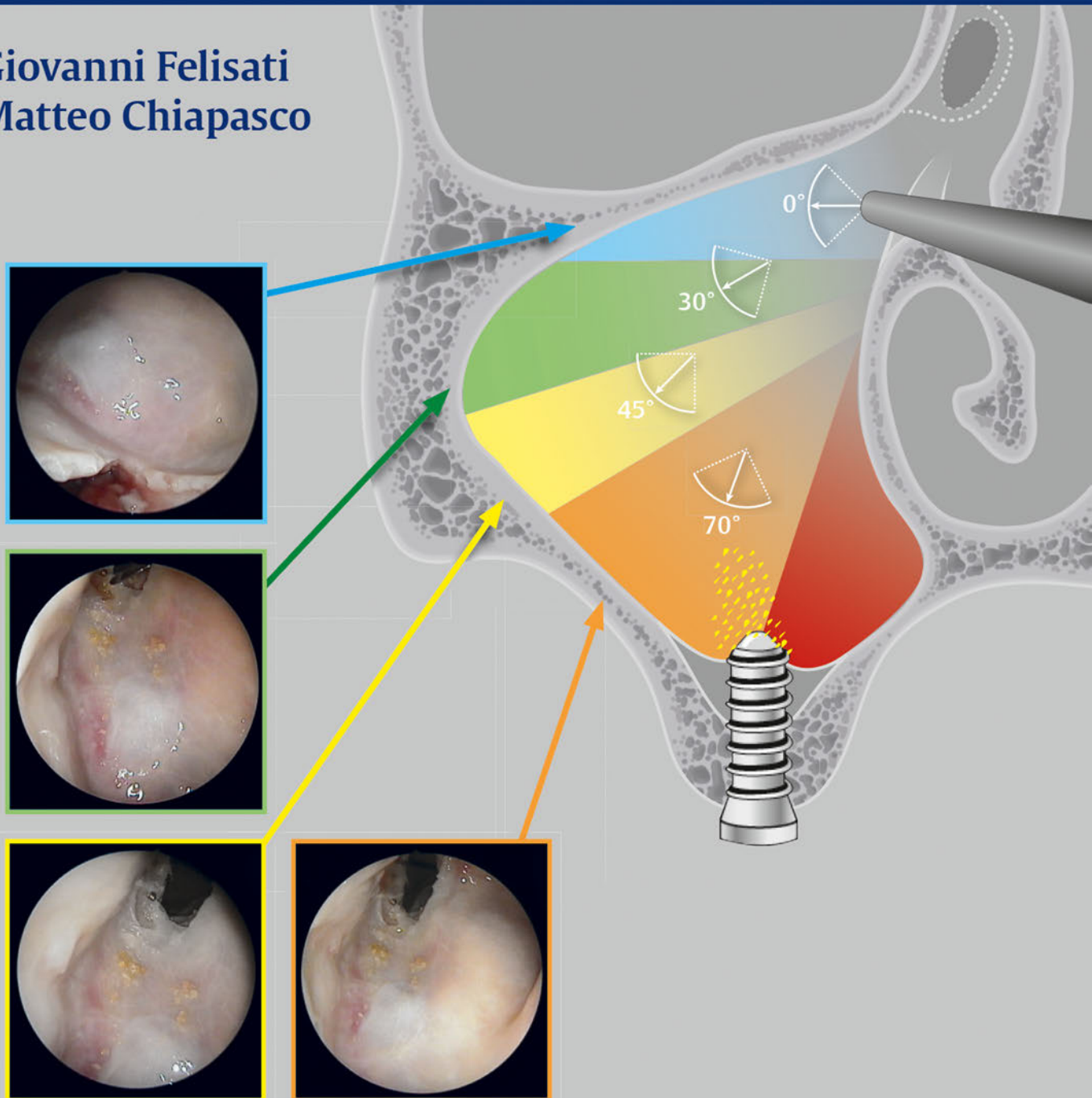


# Sinonasal Complications of Dental Disease and Treatment

Prevention – Diagnosis – Management

Giovanni Felisati  
Matteo Chiapasco



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# Sinonasal Complications of Dental Disease and Treatment

**Prevention–Diagnosis–Management**

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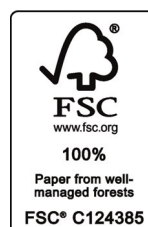
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- Video 7.2: Treatment of ENT contraindications to maxillary sinus elevation—septal deviation, concha bullosa of the middle turbinate, maxillary sinus cysts

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# Foreword

This book stems directly from a long-lasting and solid collaboration between various medical specialists involved in the management of sinonasal complications of dental disease and treatment. Authors and coauthors, despite practicing in different hospitals and universities, have been working closely, sharing clinical experience, and treating and discussing patients together since the early 2000s.

The two editors, Giovanni Felisati and Matteo Chiapasco, have published in international journals several fundamental contributions to the understanding of this complex set of clinical problems spanning different areas of clinical and surgical expertise. The authors have taken advantage of their unique experience to give birth to an original textbook, drawing a much-needed map of a territory previously uncharted by the specialist literature.

In this book, otolaryngologists, maxillofacial surgeons, oral surgeons, dentists, and forensic dentists will find practical answers to diagnostic and therapeutic dilemmas posed by sinonasal complications, which frequently require multidisciplinary expertise that goes way beyond the usual study program for each of these specialties.

Such a multidisciplinary approach to patients has been the key to successfully treating the astonishing 360-plus case series presented, including patients surgically treated for sinonasal complications of dental disease and treatment ranging from fungus balls to

oroantral fistulae and, again, from peri-implant osteitis with sinusitis to failed maxillary sinus augmentation procedures.

Thieme Publishers have strongly supported the book, allowing the inclusion of a large number of illustrations and offering a web-based collection of high-quality case videos. These will help readers put into practice the approaches conceived by the authors through a keen and meticulous multidisciplinary study of patients, coupled with a focused evaluation of treatment procedures and a follow-up-driven constant re-evaluation of patients.

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# Preface

From mid 1980s, important technological innovations have revolutionized rhinology and oral surgery, with the introduction of endoscopic approaches to the sinuses, new dental treatment techniques, and advanced implantology procedures. These surgical procedures have experienced major advances in complexity and extent, but at the same time related complications have grown in number and severity. Such complications, starting from the maxillary sinus, may spread secondarily to all the other nasal and paranasal cavities.

Very often, the treatment of such pathosis is performed independently either by oral and maxillofacial surgeons or by otolaryngologists, but frequently with less than ideal outcomes, a significant relapse rate, and exhaustingly prolonged diagnostic and treatment times for patients.

A transnasal endoscopic approach alone, for instance, is not able to remove the etiological factor (an infected tooth or an infected implant penetrating into the maxillary sinus). An intraoral approach, on the contrary, is not able to control the maxillary sinus ostium and other involved paranasal sinuses, restoring their drainage when required. A real multidisciplinary approach can therefore facilitate a pivotal breakthrough.

*Sinonasal Complications of Dental Disease and Treatment* is intended to provide otolaryngologists, maxillofacial surgeons, oral surgeons, and dentists with a

practical guide focusing on rational, multidisciplinary approaches to treat these pathoses.

Readers will find a straightforward guide to rational diagnosis and management of these often complex cases through protocols that have been thoroughly validated by dentists, maxillofacial/oral surgeons, and rhinological surgeons.

Precise and concise medical protocols are provided for timely treatment of complications. When medical therapy fails, the role of functional endoscopic sinus surgery (FESS), intraoral approaches, or a combination of intraoral approaches and FESS will be specifically and thoroughly described.

Furthermore, we have included a chapter focused on the prevention of sinonasal complications following implant-related reconstructive procedures. The chapter will give precise information on how to identify and treat possible contraindications to maxillary sinus grafting procedures, such as anatomical variations impeding ventilation of the sinus ostium.

Finally, in order to further clarify our treatment concepts, the book includes access to many surgical videos wherein we present complete clinical cases. These informative videos will be available on the Thieme website.

Giovanni Felisati, MD  
Matteo Chiapasco, MD

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# Acknowledgments

The authors would like to thank all coauthors for the wonderful work done while writing this textbook. Everyone has made a substantial effort to create a shared vision concerning the diagnosis and treatment modalities of odontogenic sinusitis, summarizing the otolaryngological, maxillofacial and stomatological points of view. Such common ground was unimaginable only a year ago.

Special thanks go to Dr. Alberto Maria Saibene, whose contribution went well beyond his involvement in writing some of the chapters. He has had a fundamental role in preparing the photographic and video material and tying together the different chapters, and he has been our keen and focused liaison with Thieme and all coauthors.

Our sincere thanks go to Thieme staff for the kind help they have provided. This is especially true for Ms. Nidhi Chopra, Thieme Project Manager for this book, who managed to guide us through the maze of deadlines and changes to the book with the utmost patience and professionalism.

Finally, the authors would like to thank all the surgeons working at the Otolaryngology Unit, Maxillofacial Surgery Unit, and Oral Surgery Unit of the San Paolo Hospital, University of Milan, Italy, who took part in many of the procedures depicted in the book and helped create this ever-growing corpus of knowledge related to odontogenic sinusitis.

---

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**Matteo Chiapasco**, oral and maxillofacial surgeon, is the head of the Oral Surgery Unit of the San Paolo Hospital, Milan, Italy, and is a faculty member of the School of Dentistry of the University of Milan and the Loma Linda University (California, US). With 250 peer reviewed publications and 10 textbook, he is a prominent surgeon and international lecturer on maxillofacial surgery topics such as orthognathic surgery and advanced preprosthetic surgery.

