
Encyclopedia of Otolaryngology, Head and Neck Surgery

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Editor

Encyclopedia of Otolaryngology, Head and Neck Surgery

With 1451 Figures and 341 Tables

 Springer Reference

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To all my fellows, residents and students for they give meaning to my academic career.

To my wonderful wife Eleni and children Eftihia, Emmanuel, Nikoleta and Alexandra for their continued support.

Stilianos E. Kountakis, MD, PhD
Professor

Foreword

“The Encyclopedia of Otolaryngology-Head and Neck Surgery is a brilliant concept brought to fruition by Stilianos Kountakis and his colleagues. The contributors and their offerings are current and extremely well planned. In reviewing the format of this reference source, it is amazing how easy it is to navigate and find exactly the information you seek. There is no doubt in my mind that physicians at all levels- from medical students to senior surgeons- will use this resource to obtain critical information quickly. I will recommend it as a reference to all in my department. I congratulate Professor Kountakis on this outstanding offering!!”

January 2013

Harold C. Pillsbury, MD
Chapel Hill, NC, USA

Preface

Otolaryngology-Head and Neck Surgery is the medical and surgical specialty addressing disorders of the head and neck in both adult and pediatric populations. The anatomy and physiologic functions of this region are diverse and require knowledge of all aspects of medicine. They also require understanding of surgical techniques that include microscopic-minimally invasive procedures, in addition to the performance of large resections, while predicting the aftermath required for reconstruction. The goal of the encyclopedia is to serve as a single and comprehensive source of all the information that is requisite to all health care practitioners and students of the specialty.

The vast amount of information included in the encyclopedia is divided into 5 volumes across otorhinolaryngology-head and neck surgery, in line with the subspecialties of general otolaryngology, head and neck surgery, pediatric otolaryngology, otology-neurotology and facial plastics and reconstructive surgery. All section editors are internationally recognized otolaryngologists with experience in publishing. They are experts and leaders in their respective fields, with advanced knowledge of all scientific and clinical issues currently discussed in the literature. Each section editor in turn recruited experienced authors from all over the world who contributed to structured topics and all entries are supported by published references. Thus, all information included in the encyclopedia is from credible sources and was carefully screened for accuracy.

The strength of the encyclopedia is its online availability and quick search features for definitions and more in-depth information. Key words are hyperlinked to provide a getaway to numerous referenced manuscripts, journals and books until all information on the queried subject is exhausted.

February 2013

Stilianos E. Kountakis, MD
Editor-in-Chief

Acknowledgments

I wholeheartedly thank all section editors for their leadership and hard work toward the completion of the encyclopedia of Otolaryngology, Head and Neck Surgery. Without their commitment and dedication this project would not be possible.

Stilianos E. Kountakis, MD, PhD
Editor-in-Chief

I wish to extend a deep debt of gratitude to my long time friend, Stil Kountakis, the Editor-in-Chief of the Encyclopedia. Stil and I have been co-Rhinologists on the Board of the American Rhinologic Society and I have a great deal of respect for him. Stil chose me to develop the General/Rhinologic Section of the Encyclopedia and I hope that the section provides up to date, detailed information to all Otolaryngologists and Rhinologists.

I also want to extend my sincere appreciation to my co-editors, Drs. Rich Lebowitz, Calvin Wei and Seth Lieberman. Dr Lebowitz is the Academic Vice Chair of Otolaryngology at New York University Medical Center and a Rhinologist. Dr Wei has just completed a 2 year fellowship with Drs Kennedy and Palmer and Dr. Lieberman is presently a fellow with Dr. Roy Casiano. My gratitude is also extended to all authors for their contributions. They have, across the board, provided the Encyclopedia with specialized information in their respective field of interest. The Encyclopedia is unmatched in the depth and breath of subject material and is truly unique.

Lastly, I would like to thank all of the editorial and administrative staff at Springer for their hard work and dedication to the project.

Joseph B. Jacobs
General Otolaryngology

As Section Editor, I would like to acknowledge the assistance of Dr. Ravi Samy for his efforts, who greatly facilitated the identification of essay authors, and for whose help I am personally very grateful for.

Brian J. McKinnon
Otology-Neurotology

I would like to thank my co-editor, Dr. Kristen Otto, for her leadership on this project and her dedication to its completion. She completed the overwhelming majority of the work while balancing a busy academic head and neck-microvascular practice and her duties as a spouse and a mother of three young children. The joy in my career stems from watching such outstanding young faculty members blossom in their academic careers. I would like to thank all of the essay authors who so willingly and graciously shared their precious time and knowledge to help educate current and future providers with the ultimate goal of improvement in the quantity and quality of life for our patients. I would particularly like to thank the many faculty members and residents in the Department of Otolaryngology and Communicative Sciences at the University of Mississippi Medical Center who went above and beyond to pitch in to make the project a success.

Scott P. Stringer
Head and Neck Surgery

The 'Pediatric Otolaryngology' section in Encyclopedia of Otolaryngology, Head and Neck Surgery is a user-friendly text directed at clinicians treating children with ear, nose and throat disorders. It provides an overview of the main aspects of pediatric otolaryngology and highlights the many areas that have seen significant progress. It is both comprehensive but easy to read and reference. In addition, the many pictures and videos will aid the reader in understanding some of the more complex facets of care in the pediatric head and neck.

The care of children with ear, nose and throat problems has become more complex over the last 20 years. With this, pediatric otolaryngology has emerged as a recognized subspecialty within otolaryngology-head and neck surgery. This section reflects these changes and covers the breadth of the subspecialty including management of ear infections, sleep disorders, cochlear implantation, airway management and many more topics. It is designed to be both a source of succinct information but also a reference text for use by busy clinicians.

We would like to extend our thanks to the many authors who have devoted an extensive amount of time and energy to the development of this book. We would also like to thank Springer and the editorial team for their commitment to publishing this book. This book would have remained an unfulfilled dream if not for the support of our spouses Iona Pereira and Lauren Mitchell and our children Karen, Nicola, Rachel, Dalia, Ariella, Gabi and Liam who allowed us the many nights and weekends spent writing and editing this section.

Kevin D. Pereira and Ron B. Mitchell
Pediatric Otolaryngology

A general acknowledgement to all who contributed to the facial plastic section.

Ira D. Papel and Kofi Derek O. Boahene
Facial Plastic and Reconstructive Surgery

I would like to thank my friends and colleagues, in particular the faculty and residents in the Department of Otolaryngology at New York University School of Medicine, who contributed their time, effort and expertise to this project. Special thanks are in order to Dr. Seth Lieberman and Dr. Calvin Wei; without their work the completion of this venture would not have been possible. I would also like to thank Dr. Stil Kountakis for his stewardship throughout the process, and Dr. Joseph Jacobs for inviting me to participate. Finally, as always, thank you to my wife, Lisa.

Richard A. Lebowitz
General Otolaryngology

About the Editor



Dr. Stilianos E. Kountakis received his undergraduate degree in Chemical Engineering from the University of Houston and his medical degree from the University of Texas-Houston. He completed his training in Otolaryngology-Head and Neck Surgery at the University of Texas-Houston affiliated hospitals in 1993. After his training Dr. Kountakis stayed on as a faculty at the University of Texas-Houston Medical School until 1999, when he was appointed the Director of Rhinology-Sinus Surgery at the University of Virginia in Charlottesville, Virginia. Dr. Kountakis joined the faculty at Georgia Health Sciences University (Medical College of Georgia), effective July 1, 2003 as Professor of the Department of Otolaryngology and as the Chief of the Division of Rhinology - Sinus Surgery. He is also the Director of the Otolaryngology Residency Program and the Director of the Rhinology Fellowship at the institution.

Dr. Kountakis' research interests include clinical, physiological, genetic and immune-basic science parameters of chronic sinusitis and medical-surgical outcomes. His research interests also include development of a staging and classification system of chronic sinusitis. He has received multiple honors and awards including the Certificate of Honor by the American Academy of Otolaryngology-Head & Neck Surgery and the Golden Mirror Teaching Award by the American Rhinologic Society. He has served as an oral examiner of the American Board of Otolaryngology and has been recognized by the Best Doctors in America for several years. Dr. Kountakis is also recognized in the Top Doctors category of the US News and World Report.

Dr. Kountakis has published extensively, has edited multiple books, is on the editorial and review boards of multiple journals and serves as an associate editor

of the International Forum of Allergy & Rhinology. Among his many other professional activities, Dr. Kountakis is a Fellow of the American Academy of Otolaryngology - Head and Neck Surgery, the American College of Surgeons, and the American Rhinologic Society. Dr. Kountakis has served as President of the American Rhinologic Society and the Georgia Society of Otolaryngology-Head and Neck Surgery and has held senior leadership positions within the Georgia Health Sciences University, the Physicians Practice Group (Chair of the Foundation) and the Medical Center.

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