

Endoscopic Surgery of Nose and Paranasal Sinuses and Related Topics

For Postgraduate Students and ENT Practitioners

is written in a concise atlas form encompassing most of the topics in the field of endoscopic surgery of nose and paranasal sinuses and related areas. This edition has 25 chapters consisting of basic sciences related to the field including surgical anatomy, applied physiology, anatomical abnormalities and pathophysiology, endoscopic diagnosis and indications, instruments, disinfection and sterilization, anesthesia, techniques of functional endoscopic sinus surgery, including minimal invasive technique and balloon assisted sinuplasty. It also covers advanced topics like endoscopic management of nasopharyngeal cancer, CSF rhinorrhea, endoscopic pituitary surgery, draf procedures, endoscopic medial maxillectomy and anterior skull base surgery, endoscopic DCR, endonasal approach to orbit, nasopharyngeal angiofibroma and rhinoplasty.

Topics like management of nasal allergy have been discussed in detail as is commonly encountered by the endoscopic surgeon. The manual has chapters written by six international and 34 national contributors. The manual also has video link to endoscopic pituitary surgery by Prof N Prepageran and modified Lothrop by Prof DR Nayak.

Chief Editor

Dipak Ranjan Nayak MBBS, MS, FICS, Fellow of UICC

is currently Professor and Unit Head, Department of Otorhinolaryngology–Head and Neck Surgery, Kasturba Medical College, Manipal Academy of Higher Education, Manipal. He has more than 30 years of experience of teaching to postgraduate students. He has to his credit extensive publications in the field of endoscopic surgery of nose and paranasal sinuses, including endoscopic Lothrop procedure and endoscopic management of anterior skull base lesions/tumors.

He is one of the early surgeons to have publications on endoscopic septoplasty, adenoidectomy and uncinata preservation sinus surgery. He has been a faculty and speaker at various national and international conferences and workshops in the field of endoscopic surgery of nose and paranasal sinuses.

Associate Editors

Balakrishnan Ramaswamy MS, DNB (ORL)

is currently Professor and Unit Head, Department of Otorhinolaryngology–Head and Neck Surgery, Kasturba Medical College, Manipal Academy of Higher Education, Manipal. He has 25 years of experience in postgraduate teaching. He has to his credit a number of publications in the field of endoscopic sinus surgery. He has been a faculty and speaker at various national and international conferences in the field of endoscopic surgery of nose and paranasal sinuses.

Rohit Singh MS (ORL)

is currently Associate Professor, Department of Otorhinolaryngology–Head and Neck Surgery, Kasturba Medical College, Manipal Academy of Higher Education, Manipal. He has more than 12 years of postgraduate teaching experience. He has received travel fellowship in rhinology and visited Austria. He has published many papers in the field of rhinology. He has been a faculty and speaker at various national and international conferences and workshops.


CBS Publishers & Distributors Pvt Ltd
4819/XI, Prahlad Street, 24 Ansari Road, Daryaganj, New Delhi 110 002, India
E-mail: delhi@cbspd.com, cbspubs@airtelmail.in; Website: www.cbspd.com
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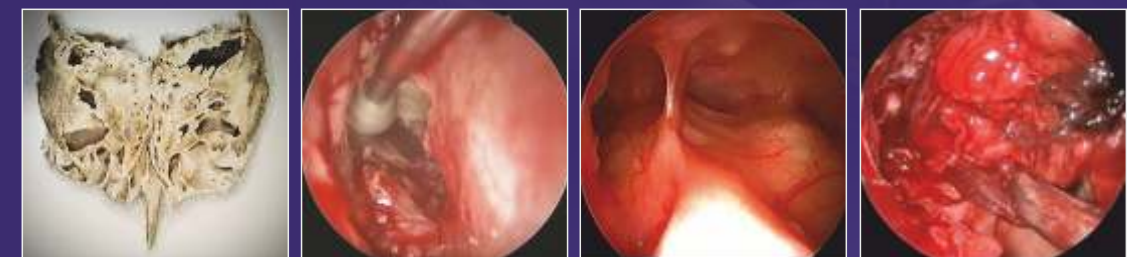
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Chief Editor

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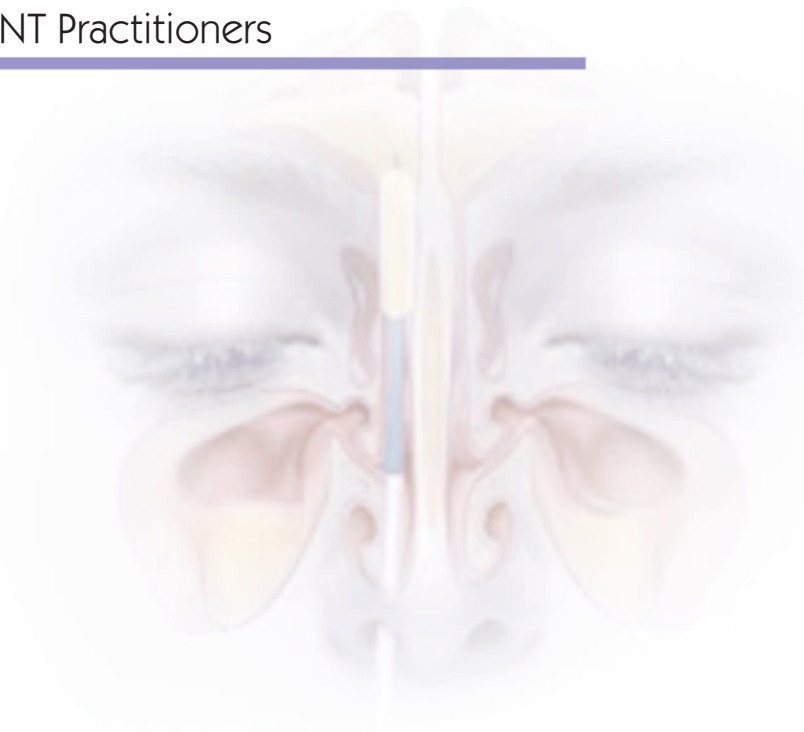
Associate Editors

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Rohit Singh**


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Chief Editor

Dipak Ranjan Nayak MBBS, MS, FICS, Fellow of UICC
Professor and Former Head

Associate Editors

Balakrishnan Ramaswamy MS, DNB (ORL) **Rohit Singh** MS (ORL)
Professor and Former Head Associate Professor

Department of Otorhinolaryngology-Head and Neck Surgery
Kasturba Medical College, Manipal Academy of Higher Education, Manipal

Guest Editors

Prepageran Narayanan FRCS (Edin)
Consultant Otorhinolaryngologist and
Skull Base Surgeon
Professor, Department of Otorhinolaryngology
Faculty of Medicine, University of Malaya
Kuala Lumpur, Malaysia

Produl Hazarika DLO, MS, FRCS
Former Professor and Head
Department of Otorhinolaryngology-Head and Neck
Surgery
Kasturba Medical College, Manipal
Consultant ENT Surgeon
Nemcare Hospital, Guwahati, Assam

P Satyanarayana Murthy MS, DLO
Former Professor
Department of Otorhinolaryngology-Head and Neck
Surgery
Kasturba Medical College, Manipal
Dean and Professor
Dr P Siddhartha Institute of Medical Sciences and
Research Center
Chinnaautapalli, Gannavaram, AP

Kailesh Pujary MS (ORL), DNB
Professor and Head
Department of Otorhinolaryngology-Head and Neck
Surgery
Kasturba Medical College, Manipal



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4819/Xi Prahlad Street, 24 Ansari Road, Daryaganj, New Delhi 110 002, India.

Ph: 011-23289259, 23266861, 23266867

Website: www.cbspd.com

Fax: 011-23243014

e-mail: delhi@cbspd.com; cbspubs@airtelmail.in.

Corporate Office: 204 FIE, Industrial Area, Patparganj, Delhi 110 092

Ph: 011-4934 4934

Fax: 011-4934 4935

e-mail: publishing@cbspd.com; publicity@cbspd.com

Branches

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Ph: +91-80-26771678/79 Fax: +91-80-26771680 e-mail: bangalore@cbspd.com
- **Chennai:** 7, Subbaraya Street, Shenoy Nagar, Chennai 600 030, Tamil Nadu, India
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Ph: +91-484-4059061-65,67 Fax: +91-484-4059065 e-mail: kochi@cbspd.com
- **Kolkata:** 147, Hind Ceramics Compound, 1st Floor, Nilgunj Road, Belghoria, Kolkata-700056, West Bengal, India
Ph: +91-9096713055/7798394118, 9836841399 e-mail: kolkata@cbspd.com
- **Lucknow:** Basement, Khushnuma Complex, 7 Meerabai Marg (Behind Jawahar Bhawan), Lucknow-226001, UP, India
Ph: +0522-4000032 e-mail: tiwari.lucknow@cbspd.com
- **Mumbai:** PWD Shed, Gala no 25/26, Ramchandra Bhatt Marg, Next to JJ Hospital Gate no. 2, Opp. Union Bank of India, Noorbaug, Mumbai-400009, Maharashtra, India
Ph: 022-66661880/89 e-mail: mumbai@cbspd.com

Representatives

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Foreword

Over the last two decades, endoscopic sinus surgery has received increasing interest from the otorhinolaryngologists, ophthalmologists as well as neurosurgeons across the globe. This has also led to a significant surge in the literature search on this topic. The book titled *Endoscopic Surgery of the Nose and Paranasal Sinuses and Related Topics* by Dr Dipak Ranjan Nayak provides a comprehensive reference starting from the anatomy and basic steps of endoscopic sinus surgery to the most advanced techniques of pituitary surgery. The list of contributors is impressive with excellent expertise in their respective fields. The text is wide ranging and covers all the aspects needed for mastering the art of endoscopic sinus surgery. This book would be a useful addition to the armamentarium of any surgeon interested in endoscopic sinus surgery. This book is a valuable contribution to the literature. Wish you all an enjoyable reading.



Adj Prof Dr Satish Kumar Jain MBBS,MS

Senior Consultant
ENT, Head & Neck Cancer and Skull Base Surgeon
Jain ENT Hospital
Jaipur, Rajasthan

Contributors

INTERNATIONAL

Arun Kumar FRCS (UK), FAA (USA)

Manipal Hospitals Klang
Klang, Selangor, Malaysia

Jaspal Singh Sahota MS (ORL)

Vice-Chancellor
Manipal University College
Malaysia

Prepageran Narayanan FRCS (Edin)

Consultant Otorhinolaryngologist and
Skull Base Surgeon
Professor
Department of Otorhinolaryngology
Faculty of Medicine
University of Malaya
Kuala Lumpur, Malaysia

Revadi Govindaraju

MS (ORL and Head-Neck Surgery) (Malaya)
Senior Lecturer and Consultant Otolaryngologist
Head and Neck Surgeon, Department of ENT
Faculty of Medicine, University of Malaya
Kuala Lumpur, Malaysia

Tang Ing Ping MS (ORL & Head-Neck Surgery) (Malaya)

Consultant Otorhinolaryngologist and
Skull Base Surgeon, Associate Professor
Department of Otorhinolaryngology
Faculty of Medicine, University of Malaya
Kuala Lumpur, Malaysia

Vicknes Waran Mathaneswaran

FRCS (Edin), FRCS (Neurosurgery)
Consultant Neurosurgeon
Department of Neurosurgery
Faculty of Medicine, University of Malaya
Kuala Lumpur, Malaysia

NATIONAL

Aditi Ravindra MBBS

Resident
Department of Otorhinolaryngology-Head and
Neck Surgery
Kasturba Medical College, Manipal

Ajay Bhandarkar MS (ORL)

Associate Professor
Department of Otorhinolaryngology-Head and
Neck Surgery
Kasturba Medical College, Manipal

Akshay Krishnamurthy MBBS

Resident
Department of Otorhinolaryngology-Head and
Neck Surgery
Kasturba Medical College, Manipal

Aniketh Venkataram MS, MCh (Plastic)

Consultant Plastic Surgeon
The Venkat Center
Vijaynagar, Bengaluru

Architha Menon MS (ORL)

Senior Resident
Department of ENT
Bangalore Medical College
Bengaluru

Asheesh Dora MS

Assistant Professor
Department of ENT
Pratima Medical College
Karimnagar

Balakrishnan Ramaswamy MS, DNB (ORL)

Professor and Former Head
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Billakanti Prakash Babu MD (Anat)

Associate Professor
Department of Anatomy
Kasturba Medical College, Manipal

Chinmay Sundar Ray MS (ORL), FICS

Associate Professor
Department of ENT
PRM Medical College
Baripada Mayurbhanj, Odisha

Deepak Nayak M MD (Path), DCP

Associate Professor
Department of Pathology
Kasturba Medical College, Manipal

Dipak Ranjan Nayak MS (ORL), FICS, UICC Fellow

Professor and Former Head
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Devaraja K MS (ORL), Head and Neck Fellow (AIIMS)

Assistant Professor
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Deeksha Rao MS (ORL)

ENT Consultant
The Venkat Center
Vijaynagar, Bengaluru

K Deepak Murty MS (ORL)

Consultant ENT Specialist
Manipal Hospital, Panji, Goa

Kabikant Samantray MS (ORL)

Professor
Department of ENT
Kalinga Institute of Medical Sciences
Bhubaneswar, Odisha

Kailesh Pujary MS (ORL), DNB

Professor and Head
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Krushna Chandra Mallick

Professor
Department of ENT
SLN Medical College, Koraput, Odisha

Lokadolalu Chandracharya Prasanna MD (Anat)

Professor and Head
Department of Anatomy
Kasturba Medical College, Manipal

N Apoorva Reddy MS (ORL)

Head and Neck Oncology Fellow
HCG, Bengaluru

Nikitha Periaswamy MS (ORL)

Consultant
Vega ENT Hospital
RS Puram, Coimbatore
Tamil Nadu

Nithu Mathew MS

Assistant Professor
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

P Satyanarayan Murthy MS, DLO

Former Professor
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal
Dean and Professor
Dr P Siddhartha Institute of Medical Sciences and Research Center
Chinnaautapalli, Gannavaram, AP

Prerit Rao MS (ORL)

Senior Resident
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Produl Hazarika DLO, MS, FRCS

Former Professor and Head
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal
Consultant ENT Surgeon
Nemcare Hospital, Guwahati, Assam

Poorvi Sharma MS

Assistant Professor
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Rohit Singh MS (ORL)

Associate Professor
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Rudranarayan Biswal MS

Former Professor and Head
SCB Medical College, Cuttack and KIMS,
Bhubaneswar

Shamma Shetty MS (ORL)

Assistant Professor
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Sneha Guruprasad Kalthur MD (Anat)

Professor and Former Head
Department of Anatomy
Kasturba Medical College, Manipal

Subrat Behera MS (ORL)

Professor
Department of ENT
SCB Medical College, Cuttack

Suraj Nair MS (ORL), DNB (ENT-HNS)

Fellowship in Head and Neck Oncology
(Ahmedabad)
ENT Consultant, Holy Cross Hospital
Thane, Mumbai

Suresh Pillai DNB (ORL)

Professor
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Swetapadma Nayak MBBS

Resident
Department of ENT
SCB Medical College, Cuttack

Tulasi Karanth MS (ORL)

Senior Resident
Department of Otorhinolaryngology–Head and Neck Surgery
Kasturba Medical College, Manipal

Preface

Functional endoscopic sinus surgery is now a well-established technique for the management of chronic rhinosinusitis, initially described by late Prof W Messerkliger (Austria) in 1978 and later popularized by late Prof H Stammberger (Austria) and Prof D Kennedy (USA). There has been tremendous expansion in the field of endoscopic surgery of the nose, paranasal sinuses and skull base with application in the field of neurosurgery and head and neck oncology since then. Invasive fungal sinusitis has become a new challenge, especially with Covid-19 associated mucormycosis. At present, there are very few books/manuals to cater to the needs of the postgraduate students in this field. There are many books which are too advanced for a postgraduate trainee in India and are also expensive. Looking at the current status, we decided to come out with the concept of having a concise manual encompassing most of the topics in this field entitled *Endoscopic Surgery of Nose and Paranasal Sinuses and Related Topics*. This edition consists of 25 chapters including basic sciences related to the field of anatomy, physiology, anatomical abnormalities, pathophysiology, endoscopic diagnosis and indications, instruments, disinfection and sterilization, anesthesia, technique of functional endoscopic sinus surgery including minimal invasive technique and advanced, balloon sinuplasty, endoscopic management of nasopharyngeal cancer, CSF rhinorrhea, endoscopic pituitary surgery, draf procedures, endoscopic medial maxillectomy and anterior skull base surgery, endonasal approach to orbit. A lot of stress have been given on in depth anatomy and development, applied physiology of nose and paranasal sinuses including mucociliary clearance and pathophysiology in a concise manner for better understanding of the reader. The book also covers other related topics on nasal allergy, DCR, allergic fungal sinusitis and rhinoplasty, etc. and a comprehensive chapter on nasopharyngeal angiofibroma. The book has been formatted with a scope for further improvement with future expansion in knowledge and advancing technology. There are eminent international contributors from Malaysia. The chapter "Endoscopic pituitary surgery" is written by Dr Govindraju, Dr Tang, Prof Waran and Prof Prepageran. Chapter on "Endoscopic management of nasopharyngeal cancer" is written by Prof Sahota and Dr Arun Kumar. Prof R Balakrishnan has written the chapter "Endoscopic endonasal approach to the orbit" and Dr Venkataram and Dr Deeksha Rao have written the chapter "Basics of rhinoplasty" as the main national contributors besides others. Surgical videos on **pituitary surgery** by Prof Prepageran and **endoscopic lothrop procedure** by Prof Nayak have been provided with link. The Foreword to the book has been written by one of the most dynamic endoscopic sinus, skull base and head and neck surgeons of India Adj Prof Dr Satish Kumar Jain.

Dipak Ranjan Nayak

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This book would not have been completed without the blessings of our great teachers and the mentors. We would like to thank all our great teachers and mentors including Prof MC Sahoo, Late Prof G Behera (Cuttack), and Prof P Hazarika, Prof PSN Murthy and Late Prof Rajamma Rajan (Manipal), who have given us the foundation to grow and develop our skill and knowledge.

We are grateful to our founder beloved President of MAHE, Dr Ram Das M Pai, Pro-Chancellor, Prof HS Ballal, Vice-Chancellor, Lt Gen Prof MD Venkatesh, Dean of KMC, Manipal, Prof Sarath Rao, Head, Department of Otorhinolaryngology–Head and Neck Surgery, Prof Kailesh Pujary, who kindly permitted us to carry on the work on this book in this institution lacking which, we fear, it would not have been possible to bring this work to light.

We deeply appreciate Adj Prof Dr Satish Kumar Jain, Senior Consultant, ENT–Head and Neck Cancer and Skull Base Surgeon, Jain ENT Hospital Jaipur, for writing the Foreword to this book. He has tremendous contribution in inspiring many young ENT enthusiasts to take up interest in endoscopic surgery of nose, paranasal sinuses and skull base through his mesmerizing surgical skills.

We are grateful to all our guest editors Prof Prepageran Narayanan, Prof P Hazarika, Prof PSN Murthy, and Prof Kailesh Pujary for their valuable contributions in editorial assistance.

We are extremely thankful to all our authors from Malaysia, especially Prof Prepageran, a renowned otolaryngologist and skull base surgeon, for agreeing to be one of the guest editors and taking an active part in initiating and completing the chapter on “Pituitary surgery” along with his colleagues, Dr Revadi Govindaraju, Dr Tang Ing Ping and Prof Vicknes Waran. Dr Revadi has been very kind enough in helping and completing this chapter as a key author, through timely communication and answering to all the queries. Prof Jaspal Singh Sahota and Dr Arun Kumar are the alumni of KMC, Manipal, and have contributed to the chapter on “The role of nasal endoscopy in the management of nasopharyngeal cancer”. We thank all of them for their contribution. We are thankful to all our Indian authors and co-authors including Dr. Aniketh Venkataram and Dr Deeksha Rao for chapter “Basics of rhinoplasty”. Dr Deeksha has taken a keen interest in allergic rhinitis and her contribution is key to that chapter. We are also thankful to all our co-authors for various chapters including Prof P Hazarika, Prof PSN Murthy, Prof K Pujary, Prof LC Prasanna, Prof K Samantaray, Prof S Guruprasad, Prof Pillai, Prof RN Biswal, Prof Behera, Prof KC Mallick, Dr Deepak Nayak (Pathology), Dr Bhandarkar, Dr Prakash Babu, Dr Deepak Murty, Dr Devaraja, Dr CS Ray, Dr Shetty, Dr Sharma, Dr Mathew, Dr Nair, Dr Reddy, Dr Dora, Dr Periaswamy, Dr S Nayak, Dr Menon, Dr Karanth, Dr Rao, Dr Krishnamurty, and Dr Ravindra. All the contributors deserve applaud for whatever contribution they have made, whether it is big or small, without which it would not have been possible to finish this stupendous task on time.

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We would be failing in our duty if we do not appreciate the contributions of our parents. Special thanks to our spouse and children for their help and guidance. We sincerely thank Mr Bhaskar, Mr Sudhakar, for their assistance in operating room, Mrs Latha for secretarial assistance, Mr Sitharam, Mrs Mangala, Mr Shreekant our OPD technicians, Mrs Baby, OPD sister, Mrs Usha our OT sister and all other non-teaching staff of the department for their kind help.

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**Dipak Ranjan Nayak
Balakrishnan Ramaswamy
Rohit Singh**

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