

# Surgical Anatomy of the Nasal Cavity and Paranasal Sinuses

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## KEYWORDS

- Paranasal sinuses • Nasal anatomy • Sinus anatomy
- Maxillary sinus • Ethmoid sinus • Frontal sinus
- Sphenoid sinus • Surgical anatomy

The oral cavity and its bony components (maxilla and mandible), along with the nose and its related sinuses, constitute most of the face. Because of their proximity, disease in one may affect the other, whereas trauma of the midface will involve bones common to the oral cavity, nose, and paranasal sinuses. The two serve important life-supporting functions, being the portals for nutrition and respiration. The nasal cavity receives air and conditions the air that is passed on to the other areas of the respiratory tract. The paranasal sinuses are pneumatic cavities lined by mucous membrane and communicate directly with the nasal cavity. The paranasal sinuses are the frontal sinus, ethmoid cells, maxillary sinus, and sphenoid sinus. This article presents a brief but relevant view of the surgical anatomy of the nasal cavity and paranasal sinuses that will be germane to the topics discussed in other articles elsewhere in this issue.

## THE NASAL CAVITY

The nasal cavities are located in the middle of the face between the frontal sinus above, the oral cavity below, and the orbits and maxillary sinuses to the sides (Figs. 1 and 2). The nasal cavity is

encased in a pyramidal-shaped osseo-cartilaginous framework and is divided into two compartments by the nasal septum. The osseous portion consists of two nasal bones that articulate with the nasal process of the frontal bone superiorly and fuses with the maxilla laterally. Their lower borders are beveled on their inner surfaces where they articulate with the upper lateral nasal cartilages. The upper lateral nasal cartilages project up below the nasal bones and are attached to them with dense connective tissue.

The cartilaginous portion of the framework consists of two components: the upper lateral and lower lateral nasal cartilages.

### *Upper Lateral Nasal Cartilages*

The upper lateral nasal cartilage is roughly triangular-shaped. Its superior edge is thin and articulates with the nasal bones via dense connective tissue and fuses to the maxilla. The inferior border is also thin and inserts below the border of the lower lateral cartilage (this is not always a consistent relationship, however).<sup>1</sup> This inferior end is free and is the site of the intercartilaginous incision during rhinoplasty. The medial border is thick and continuous with the septal cartilage.

The authors have nothing to disclose.

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# Nasal Cavity And Paranasal Sinuses Surgical Anatomy

**R Pring**

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## **Nasal Cavity And Paranasal Sinuses Surgical Anatomy:**

The Nasal Cavity and Paranasal Sinuses João Adolfo Caldas Navarro, João de Lima Navarro, Paulo de Lima Navarro, 2001  
This book shows the surgical anatomy of nasal and paranasal structures with emphasis on anatomical variations and their surgical importance. It provides tridimensional views of cadaveric microdissections showing all relevant anatomical structures in the nose and its relations with areas of surgical risk. The current official anatomical nomenclature is used to describe unique high quality figures and illustrations including CT scans of the nose and paranasal sinuses. The Nasal Cavity and Paranasal Sinuses Joao A.C. Navarro, 2011-12-27 **The Nasal Cavity and Paranasal Sinuses** Joao A.C.

Navarro, 2012-12-06 This book shows the surgical anatomy of nasal and paranasal structures with emphasis on anatomical variations and their surgical importance. It provides tridimensional views of cadaveric microdissections showing all relevant anatomical structures in the nose and its relations with areas of surgical risk. The current official anatomical nomenclature is used to describe unique high quality figures and illustrations including CT scans of the nose and paranasal sinuses.

Surgery of the Nose and Paranasal Sinuses: Principles and Concepts, An Issue of Oral and Maxillofacial Surgery Clinics Orrett E. Ogle, Harry Dym, 2012-05-28 Guest Editors Orrett Ogle and Harry Dym present a comprehensive look at surgery of the nose and paranasal sinuses. Topics include surgical anatomy of the paranasal sinuses, instrumentation and techniques for examination of the ear nose throat and sinuses, imaging of the paranasal sinuses, microbiology of the paranasal sinuses, surgery of the paranasal sinuses, removal of parotid submandibular and sublingual glands, oro antral and oro nasal fistulas, turbinectomy and surgery for nasal obstruction, cysts and benign tumors of paranasal sinuses, tonsillitis, peritonsillar and lateral pharyngeal abscesses and much more. **Sinus Surgery** Howard Levine, M. Pais Clemente, 2005 Electronic book available in pdf format. **Gray's Anatomy E-Book** Susan Standring, 2021-05-22 Susan Standring MBE PhD DSc FRCGS Hon FAS Hon FRCS Trust. Gray's Building on over 160 years of anatomical excellence. In 1858 Drs Henry Gray and Henry Vandyke Carter created a book for their surgical colleagues that established an enduring standard among anatomical texts. After more than 160 years of continuous publication, Gray's Anatomy remains the definitive comprehensive reference on the subject, offering ready access to the information you need to ensure safe effective practice. This 42nd edition has been meticulously revised and updated throughout, reflecting the very latest understanding of clinical anatomy from the world's leading clinicians and biomedical scientists. The book's acclaimed lavish art programme and clear text has been further enhanced while major advances in imaging techniques and the new insights they bring are fully captured in state of the art X ray CT MR and ultrasonic images. The accompanying eBook version is richly enhanced with additional content and media covering all the body regions, cell biology, development and embryogenesis and now includes two new systems orientated chapters. This combines to unlock a whole new level of related information and interactivity in keeping with the spirit of innovation that has characterised Gray's Anatomy since its inception. Each chapter has been edited by international leaders in their field.

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**Clinical Anatomy of the Nose, Nasal Cavity and Paranasal Sinuses** Johannes Lang, 2013-01-09 An important review of the clinical anatomy of the nose nasal cavity and paranasal sinuses is presented by Professor Lang He

has intensively researched the anatomy of these structures for a quarter of a century with emphasis on exact measurements of these vital structures as they relate to surgical intervention

**Gray's Anatomy E-Book**, 2015-09-25 In 1858 Drs Henry Gray and Henry Vandyke Carter created a book for their surgical colleagues that established an enduring standard among anatomical texts After more than 150 years of continuous publication Gray's Anatomy remains the definitive comprehensive reference on the subject offering ready access to the information you need to ensure safe effective practice This 41st edition has been meticulously revised and updated throughout reflecting the very latest understanding of clinical anatomy from field leaders around the world The book's traditional lavish art programme and clear text have been further honed and enhanced while major advances in imaging techniques and the new insights they bring are fully captured in new state of the art X ray CT MR and ultrasonic images Presents the most detailed and dependable coverage of anatomy available anywhere Regional organization collects all relevant material on each body area together in one place making access to core information easier for clinical readers Anatomical information is matched with key clinical information where relevant Numerous clinical discussions emphasize considerations that may affect medical care Each chapter has been edited by experts in their field ensuring access to the very latest evidence based information on that topic More than 1 000 completely new photographs including an extensive electronic collection of the latest X ray CT MR and histological images The downloadable Expert Consult eBook version included with your purchase allows you to search all of the text figures references and videos from the book on a variety of devices Carefully selected electronic enhancements include additional text tables illustrations labelled imaging and videos as well as 24 specially invited Commentaries on new and emerging topics related to anatomy

**Rhinology and Facial Plastic Surgery** Fred J. Stucker, Chris de Souza, Guy S. Kenyon, Timothy S. Lian, Wolfgang Draf, Bernhard Schick, 2009-03-28 Georg von Bekesey was awarded the Nobel Prize for his seminal work on hearing everyone all over the world In other words it is directed toward work on hearing It was however 43 years later in 2004 that evolving a common scientific language that is spoken uniformly Linda Buck and Richard Axel were awarded the Nobel Prize for and consistently all over the world Universality so that norms their work on olfaction This is indicative of how the science of staging systems etc can be applied anywhere in the world with rhinology is only now coming into its own For quite some time equal validity This can only be achieved through consensus rhinology was thought to be limited in scope It is now appreciated This book contains not only the genesis and pathogenesis of at least that the nose is not only an organ of aesthetic appeal but rhinologic disease but also what all surgeons want and that is one that carries out several important complex functions The operative steps to bring about successful resolution of disease tremendous surge in medical literature in recent times bears with the return of normal function

**Micro-endoscopic Surgery of the Paranasal Sinuses and the Skull Base** Aldo C. Stamm, Wolfgang Draf, 2012-12-06 The diagnosis and treatment of the diseases of the nose paranasal sinuses and skull base have changed dramatically in the past few years transforming rhinology in one of most exciting and attractive medical fields The increasing

advance in this area has addressed the ENT physicians to keep up with the expanding information in the high tech area of sinus surgery and its expansion into skull base surgery The intention of this book is to present in a unique way basic information on Anatomy Endoscopy Rhinomanometry Imaging Allergy Nasosinus Infection and Polyposis followed by by clinical and surgical chapters written by some of the most experienced rhinosurgeons around the world We believe that this book will be of value for all levels of Otolaryngology from house officers to experienced surgeons and although principally for Otolaryngologists Radiologists Pathologists Maxillofacial surgeons Ophthalmologists Neurosurgeons and Infectious Diseases Specialists may find the book of value because of its overlap with their interests We would like to show that both from the technical and conceptual points of view success can be achieved using different techniques and philosophies Certainly both endoscopic instrumentation and the surgical microscope have proved to be of great assistance in nasal and sinus surgery and now image systems are providing further progress

*Endoscopic Anatomy of the Paranasal Sinuses* Peter S. Hechl, Reuben C. Setliff, Manfred Tschabitscher, 1997-05-27 This is the most up to date reference depicting surgical anatomy and thus fulfills an important need It presents a step by step surgical approach from the anterior nasal spine to the anterior wall of the sphenoid illustrated by brilliant colour photographs Four critical anatomical structures are emphasised as the foundation for a precise approach to surgery of the maxillary anterior ethmoid frontal and posterior ethmoid sinuses In short an anatomical approach which will serve the sinus surgeon at every level of experience and expertise

**CT Imaging of Nose and Paranasal sinuses A Primer** Balasubramanian Thiagarajan, 2021-08-04 When I was rummaging through my things i found a huge treasure trove of CT images I wanted to share them with everyone so that it could be of use With this intention in mind I started cataloging and digitalizing them The collection was so exciting i decided to use all of them in my book This book has been authored with CT images of nose and sinuses from my personal collection Target audience Post graduate students in otolaryngology Practicing otolaryngologists Post graduate students in Radiology Axial coronal and sagittal views of CT nose and sinuses are discussed for various pathological processes Readers will be exposed to the art of viewing CT images sequentially Separate chapters have been devoted to the description of CT anatomy including various anatomical variations Reader will be able to have a clear understanding of how to go about reading a CT sequential images of nose and paranasal sinuses Lot of emphasis is placed on the art of reading coronal sections because this is the actual endoscopic view of the nasal cavity encountered by the surgeon Towards this end 2 mm sections of coronal CT images have been included with appropriate description Since this book has been authored by an Otolaryngologist the entire content of this book will be from the perspective of an otolaryngologist

*KGMU Textbook of General Surgery for Dental Students: Theory and Practical* T. C. Goel, Apul Goel, 2018-07-13 This book covers theory clinical and practical aspects of general surgery for undergraduate dental students as per prescribed syllabus of dental council of India dci The theory part of the book covers etiopathology clinical features investigations diagnosis and treatment of important diseases that require surgical intervention are discussed

in as much detail as required by the dental students The clinical and practical part deals with clinical cases surgical instruments suturing materials clinical pathology and diagnostic images along with viva voce questions and answers The book is complete in all aspects and is a perfect resource for undergraduate dental students preparing for exams in general surgery Key features Covers general principles of surgery with special emphasis on diseases of head and neck exam oriented with key points for quick revision and review questions including objective type for self assessment at the end of each chapter very helpful in preparing for practical exam in surgery The chapter on clinical cases covers the questioning case sheet writing sample cases and viva voce questions while chapters on clinical pathology and diagnostic images presented in question answer format are helpful in identifying and describing the image clinical specimens *Atlas of Head Neck and Skull-base Surgery* Nitin M Nagarkar,Rupa Mehta,Ambesh Singh,Karthik N Rao,Prajwal S Dange,2023-11-28 Head and neck anatomy is fairly constant meticulous dissection of the structures and forms the backbone of a successful surgery The entire diverse spectrum of head neck cancers thyroid lesions neural lymphangiomatous lesions and carotid body tumors are discussed along with preop intraop and postop follow up pictures The painstaking selection of intraoperative photographs of various patients operated at our center with an aim to demonstrate the finesse of the surgical management is the motive behind this atlas The reader picking up this beautifully illustrated volume draws on the surgical expertise of an impressively well trained surgical team The atlas will be a pleasure to read and a powerful force to grab the advance treatment standards in the huge variety of head and neck disorders This atlas will be a valuable resource to aspiring head and neck surgeons and oncologists and it will act as a volume to refer to in the surgical management of head and neck disorders Rhinology Conditions - Contemporary Topics Mohannad Al-Qudah,2024-11-27 The current conceptual knowledge of rhinology has evolved over the last decades The approach to many sinonasal disorders has changed based on our new understanding of their pathogeneses Rhinological diseases are common and cover a wide spectrum of disorders that usually share similar clinical presentations thus a fundamental scientific comprehension is required to properly choose the correct medical or surgical management This book discusses an updated review of contemporary disorders in the sinonasal region Practical Rhinology Nicholas Jones,2010-09-24 An ideal textbook for trainee and practising rhinologists and otolaryngologists Practical Rhinology provides expert direction on all aspects of rhinology This up to date text addresses the most pertinent aspects of contemporary rhinology and provides a distillation of the current advances in this superspecialty from several of the world s le Surgical Pathology of the Head and Neck Leon Barnes,2019-01-15 Surgical Pathology of the Head and Neck Third Edition is a complete stand alone reference covering all aspects of head and neck pathology Providing an interdisciplinary approach to the diagnosis treatment and management of head and neck diseases this source promotes clear communication between pathologists and surgeons This is the reference o The Frontal Sinus Stilianos E. Kountakis,Brent A. Senior,Wolfgang Draf,2016-08-05 This is the only book dedicated solely to frontal sinus disorders It is a richly illustrated and

comprehensive mine of information on the anatomy and management of these disorders This updated second edition offers much new information Additional topics include balloon dilation frontal surgery as part of skull base surgery and advances in endoscopic techniques and tools that have occurred since 2004 and have made open osteoplastic procedures almost obsolete The anatomy and surgery of the supraorbital ethmoid cell and its significance in the pathology of frontal sinus disease are also covered Throughout the book particularly important areas of text are highlighted and core messages emphasized Videos of described procedures are available online

**Jatin Shah's Head and Neck Surgery and Oncology E-Book** Jatin P. Shah, Snehal G. Patel, Bhuvanesh Singh, 2012-02-05 Head and Neck Surgery and Oncology by Drs Jatin P Shah Snehal G Patel and Bhuvanesh Singh offers you authoritative multidisciplinary guidance on the latest diagnostic and multidisciplinary therapeutic approaches for head and neck cancer With this medical reference book you ll have all the help you need to offer your patients the best possible prognoses and to optimally preserve and restore form and function Overcome any challenge in head and neck surgery with comprehensive coverage of the scalp skull base paranasal sinuses oral cavity pharynx larynx cervical lymph nodes thyroid salivary glands and soft tissue and bone tumors from incidence diagnosis and work up through treatment planning operative techniques rehabilitation and outcomes Increase your understanding of head and neck oncology with this completely reorganized edition presenting a uniform flow of topics which includes the latest information on Diagnostic approaches staging algorithms for selection of therapy and outcomes of treatment for head and neck tumors Offer today s best treatment options with outcomes of therapy data from the NCDB institutional data from MSKCC and evidence based information Diagnose patients using the latest advances in radiographic imaging diagnostic pathology and molecular biology Take fullest advantage of every multidisciplinary management approach available including radiation oncology medical oncology including targeted therapies maxillofacial prosthodontics and dental oncology surgical procedures for salvage of recurrences after chemoradiation therapy and rehabilitation measures to improve functional outcomes speech swallowing etc Understand the nuances of day to day practical care of patients with basic operating room techniques and technology intraoperative decisions and post operative care for patients undergoing head and neck surgery Know what to look for and how to proceed with sequential operative photographs of each surgical procedure and full color artwork to demonstrate anatomical relationships Particular emphasis is placed on surgical management of patients after chemo radiotherapy reflecting the changing paradigms in head and neck oncology and the special challenges that confront modern day head and neck surgeons



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