

RHINOPLASTY ANATOMY

RHINOPLASTY ANATOMY IS A CRITICAL SUBJECT FOR ANYONE CONSIDERING NASAL SURGERY OR INTERESTED IN THE FIELD OF FACIAL AESTHETICS. UNDERSTANDING THE COMPLEX STRUCTURE OF THE NOSE, INCLUDING ITS BONES, CARTILAGE, SKIN, AND SUPPORTIVE TISSUES, IS ESSENTIAL FOR BOTH SURGEONS AND PATIENTS. THIS ARTICLE DELVES INTO THE INTRICATE DETAILS OF RHINOPLASTY ANATOMY, EXPLORING THE VARIOUS COMPONENTS THAT MAKE UP THE NOSE, THE SURGICAL TECHNIQUES EMPLOYED, AND THE IMPLICATIONS OF THESE ANATOMICAL FEATURES ON SURGICAL OUTCOMES. WE WILL ALSO DISCUSS THE RECOVERY PROCESS AND FACTORS INFLUENCING THE SUCCESS OF RHINOPLASTY.

THIS COMPREHENSIVE GUIDE IS DESIGNED TO PROVIDE CLARITY ON RHINOPLASTY ANATOMY AND ITS IMPORTANCE IN ACHIEVING DESIRED AESTHETIC RESULTS.

- INTRODUCTION TO RHINOPLASTY ANATOMY
- KEY ANATOMICAL STRUCTURES OF THE NOSE
- TYPES OF RHINOPLASTY
- SURGICAL TECHNIQUES IN RHINOPLASTY
- RECOVERY AND POST-OPERATIVE CARE
- FACTORS INFLUENCING RHINOPLASTY OUTCOMES
- CONCLUSION

KEY ANATOMICAL STRUCTURES OF THE NOSE

THE EXTERNAL NOSE

THE EXTERNAL NOSE IS THE VISIBLE PART OF THE NASAL STRUCTURE, COMPOSED OF BOTH BONE AND CARTILAGE. IT IS DIVIDED INTO SEVERAL DISTINCT REGIONS, INCLUDING THE ROOT, BRIDGE, TIP, AND NOSTRILS. EACH OF THESE AREAS PLAYS A SIGNIFICANT ROLE IN THE OVERALL AESTHETIC APPEARANCE OF THE NOSE.

THE SKIN COVERING THE EXTERNAL NOSE VARIES IN THICKNESS AND TEXTURE, OFTEN AFFECTING THE HEALING PROCESS POST-SURGERY. UNDERSTANDING THE CHARACTERISTICS OF THE SKIN IS ESSENTIAL FOR ENSURING OPTIMAL SURGICAL OUTCOMES.

THE NASAL SKELETON

THE NASAL SKELETON COMPRISES BOTH BONY AND CARTILAGINOUS COMPONENTS. THE BONY FRAMEWORK INCLUDES THE NASAL BONES, MAXILLAE, AND THE FRONTAL BONE AT THE TOP. THE CARTILAGINOUS FRAMEWORK IS MAINLY MADE UP OF THE LOWER LATERAL CARTILAGES, WHICH SHAPE THE TIP OF THE NOSE, AND THE UPPER LATERAL CARTILAGES, WHICH PROVIDE STRUCTURE TO THE SIDES.

THESE COMPONENTS ARE CRUCIAL FOR MAINTAINING THE NOSE'S SHAPE AND FUNCTION. ANY ALTERATION DURING RHINOPLASTY MUST CONSIDER THESE STRUCTURES TO AVOID FUNCTIONAL IMPAIRMENT.

THE NASAL MUCOSA

THE NASAL MUCOSA IS THE LINING OF THE NASAL CAVITY, PLAYING A VITAL ROLE IN PROTECTING THE UNDERLYING STRUCTURES AND FACILITATING RESPIRATION. THIS MUCOSAL LAYER CONTAINS CILIA AND MUCUS, WHICH HELP TRAP DUST AND PATHOGENS. SURGICAL MANIPULATION CAN IMPACT THE MUCOSA, MAKING IT ESSENTIAL FOR SURGEONS TO UNDERSTAND ITS ANATOMY TO MINIMIZE COMPLICATIONS.

TYPES OF RHINOPLASTY

OPEN RHINOPLASTY

OPEN RHINOPLASTY INVOLVES MAKING AN INCISION ON THE COLUMELLA, THE SKIN TISSUE THAT SEPARATES THE NOSTRILS. THIS TECHNIQUE PROVIDES EXCELLENT VISIBILITY AND ACCESS TO THE UNDERLYING STRUCTURES, ALLOWING FOR MORE EXTENSIVE MODIFICATIONS. OPEN RHINOPLASTY IS PARTICULARLY BENEFICIAL FOR COMPLEX CASES WHERE SIGNIFICANT RESHAPING IS REQUIRED.

CLOSED RHINOPLASTY

CLOSED RHINOPLASTY IS PERFORMED THROUGH INCISIONS MADE INSIDE THE NOSTRILS. THIS METHOD OFFERS SEVERAL ADVANTAGES, INCLUDING REDUCED VISIBILITY OF SCARS AND LESS POSTOPERATIVE SWELLING. HOWEVER, IT MAY LIMIT THE EXTENT OF MODIFICATIONS THAT CAN BE ACHIEVED, MAKING IT MORE SUITABLE FOR LESS COMPLEX AESTHETIC CHANGES.

SURGICAL TECHNIQUES IN RHINOPLASTY

CARTILAGE GRAFTING

CARTILAGE GRAFTING IS A COMMON TECHNIQUE IN RHINOPLASTY WHERE ADDITIONAL CARTILAGE IS USED TO AUGMENT OR RESHAPE THE NOSE. SURGEONS OFTEN USE CARTILAGE HARVESTED FROM THE PATIENT'S SEPTUM, EAR, OR RIB. UNDERSTANDING THE ANATOMY OF THESE DONOR SITES IS CRITICAL FOR MINIMIZING COMPLICATIONS AND ENSURING SUCCESSFUL OUTCOMES.

BONE RESHAPING

BONE RESHAPING IS ANOTHER ESSENTIAL ASPECT OF RHINOPLASTY, PARTICULARLY FOR PATIENTS WITH PROMINENT NASAL BRIDGES. SURGEONS MAY PERFORM OSTEOTOMIES TO REPOSITION OR REMOVE SECTIONS OF BONE. THE PRECISION IN THIS TECHNIQUE IS VITAL TO MAINTAINING THE STRUCTURAL INTEGRITY OF THE NOSE.

RECOVERY AND POST-OPERATIVE CARE

IMMEDIATE POST-OPERATIVE CARE

AFTER RHINOPLASTY, PATIENTS TYPICALLY EXPERIENCE SWELLING, BRUISING, AND DISCOMFORT. THE INITIAL RECOVERY PHASE IS CRUCIAL FOR ENSURING PROPER HEALING AND MINIMIZING COMPLICATIONS. SURGEONS OFTEN RECOMMEND THE USE OF COLD COMPRESSES TO REDUCE SWELLING AND PAIN RELIEF MEDICATIONS TO MANAGE DISCOMFORT.

LONG-TERM RECOVERY

FULL RECOVERY FROM RHINOPLASTY CAN TAKE SEVERAL MONTHS. DURING THIS TIME, PATIENTS SHOULD FOLLOW SPECIFIC GUIDELINES, SUCH AS AVOIDING STRENUOUS ACTIVITIES AND PROTECTING THE NOSE FROM TRAUMA. REGULAR FOLLOW-UPS WITH THE SURGEON ARE ESSENTIAL TO MONITOR HEALING AND ADDRESS ANY CONCERNS.

FACTORS INFLUENCING RHINOPLASTY OUTCOMES

ANATOMICAL CONSIDERATIONS

THE INDIVIDUAL ANATOMICAL FEATURES OF A PATIENT'S NOSE SIGNIFICANTLY INFLUENCE THE OUTCOMES OF RHINOPLASTY. FACTORS SUCH AS SKIN THICKNESS, NASAL WIDTH, AND THE DEGREE OF CARTILAGE AND BONE SUPPORT CAN DICTATE THE TECHNIQUES USED AND THE POTENTIAL FOR ACHIEVING DESIRED RESULTS.

SURGEON EXPERTISE

THE EXPERIENCE AND SKILL OF THE SURGEON PLAY A CRUCIAL ROLE IN THE SUCCESS OF RHINOPLASTY. AN IN-DEPTH UNDERSTANDING OF RHINOPLASTY ANATOMY ALLOWS THE SURGEON TO MAKE INFORMED DECISIONS DURING THE PROCEDURE, LEADING TO BETTER AESTHETIC OUTCOMES AND FEWER COMPLICATIONS.

CONCLUSION

RHINOPLASTY ANATOMY IS A FUNDAMENTAL ASPECT OF NASAL SURGERY THAT INFLUENCES BOTH THE PROCEDURE AND ITS OUTCOMES. UNDERSTANDING THE VARIOUS STRUCTURES INVOLVED, THE SURGICAL TECHNIQUES AVAILABLE, AND THE RECOVERY PROCESS CAN EMPOWER PATIENTS TO MAKE INFORMED DECISIONS REGARDING THEIR NASAL AESTHETIC GOALS. AS ADVANCEMENTS IN SURGICAL TECHNIQUES CONTINUE TO EVOLVE, THE FOCUS ON ANATOMICAL PRECISION REMAINS PARAMOUNT IN ACHIEVING OPTIMAL RESULTS IN RHINOPLASTY.

Q: WHAT IS RHINOPLASTY ANATOMY?

A: RHINOPLASTY ANATOMY REFERS TO THE STRUCTURAL COMPONENTS OF THE NOSE, INCLUDING BONE, CARTILAGE, SKIN, AND MUCOSA, WHICH ARE ESSENTIAL FOR UNDERSTANDING THE SURGICAL TECHNIQUES AND OUTCOMES OF RHINOPLASTY PROCEDURES.

Q: WHAT ARE THE MAIN STRUCTURES INVOLVED IN RHINOPLASTY?

A: THE MAIN STRUCTURES INVOLVED IN RHINOPLASTY INCLUDE THE EXTERNAL NOSE, NASAL SKELETON (COMPRISED OF BONES AND CARTILAGES), AND THE NASAL MUCOSA. EACH PLAYS A VITAL ROLE IN BOTH FUNCTION AND AESTHETICS.

Q: HOW DOES OPEN RHINOPLASTY DIFFER FROM CLOSED RHINOPLASTY?

A: OPEN RHINOPLASTY INVOLVES AN EXTERNAL INCISION ON THE COLUMELLA FOR BETTER VISIBILITY AND ACCESS, WHILE CLOSED RHINOPLASTY UTILIZES INCISIONS INSIDE THE NOSTRILS, LEADING TO LESS VISIBLE SCARRING BUT POTENTIALLY LIMITING ACCESS TO UNDERLYING STRUCTURES.

Q: WHAT IS CARTILAGE GRAFTING IN RHINOPLASTY?

A: CARTILAGE GRAFTING IS A TECHNIQUE USED IN RHINOPLASTY WHERE ADDITIONAL CARTILAGE IS SOURCED FROM AREAS LIKE THE SEPTUM, EAR, OR RIB TO AUGMENT OR RESHAPE THE NOSE, ENHANCING ITS STRUCTURE AND APPEARANCE.

Q: WHAT SHOULD PATIENTS EXPECT DURING THE RECOVERY AFTER RHINOPLASTY?

A: PATIENTS CAN EXPECT SWELLING, BRUISING, AND DISCOMFORT INITIALLY AFTER RHINOPLASTY. IT IS CRUCIAL TO FOLLOW POST-OPERATIVE CARE INSTRUCTIONS, INCLUDING USING COLD COMPRESSES AND AVOIDING STRENUOUS ACTIVITIES, TO ENSURE PROPER HEALING.

Q: HOW DOES SURGEON EXPERTISE AFFECT RHINOPLASTY OUTCOMES?

A: THE EXPERTISE OF THE SURGEON SIGNIFICANTLY IMPACTS RHINOPLASTY OUTCOMES, AS A THOROUGH UNDERSTANDING OF RHINOPLASTY ANATOMY AND SURGICAL TECHNIQUES ALLOWS FOR BETTER DECISION-MAKING, LEADING TO IMPROVED AESTHETIC RESULTS AND REDUCED COMPLICATIONS.

Q: WHAT ARE THE LONG-TERM RECOVERY CONSIDERATIONS AFTER RHINOPLASTY?

A: LONG-TERM RECOVERY AFTER RHINOPLASTY CAN TAKE SEVERAL MONTHS, DURING WHICH PATIENTS SHOULD AVOID TRAUMA TO THE NOSE, REFRAIN FROM STRENUOUS ACTIVITIES, AND ATTEND REGULAR FOLLOW-UP APPOINTMENTS WITH THEIR SURGEON TO ENSURE PROPER HEALING.

Q: WHY IS UNDERSTANDING RHINOPLASTY ANATOMY IMPORTANT FOR PATIENTS?

A: UNDERSTANDING RHINOPLASTY ANATOMY HELPS PATIENTS MAKE INFORMED DECISIONS ABOUT THEIR SURGICAL OPTIONS, SET REALISTIC EXPECTATIONS FOR OUTCOMES, AND ENGAGE EFFECTIVELY WITH THEIR SURGEONS REGARDING THEIR AESTHETIC GOALS.

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surgeon or any trained personnel in a surprisingly small area in the office practice. In the surgical section of this clinical resource, simple, innovative conservative surgery to the nasal tip is highlighted as a technique to avoid directly stitching the middle crurae. Recognizing the different types of nasal skin plays a considerable role in alar base and nasal tip surgeries. Surgeons in Rhinoplasty seeking to further develop skills and knowledge in anatomy, photography and surgical techniques will find this book an essential read and resource in their daily clinical practice.

rhinoplasty anatomy: *Head & Neck Surgery--otolaryngology* Byron J. Bailey, Jonas T. Johnson, Shawn D. Newlands, 2006 Newly revised and updated, this comprehensive, easy-to-use two-volume otolaryngology text is now in its Fourth Edition. More than 30 new chapters are included that reflect advances in the field, such as outcomes and evidence-based medicine, surgical management of nasal valve collapse and choanal atresia, immunology and allergy, allergic and non-allergic rhinitis, complications of rhinosinusitis, management of dysphagia, radiographic examination of the upper aerodigestive tract, endoscopic evaluation of the upper aerodigestive tract, cosmetic uses of Botox, and more. Coverage includes both adult and pediatric otolaryngology. All chapters are written by distinguished world-renowned authorities and contain summary highlights boxes, summary tables, and end-of-chapter reviews. More than 2,500 illustrations complement the text.

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rhinoplasty anatomy: *Clinical Atlas of Preservation Rhinoplasty* Sylvie Poignonec, 2023-09-02 Rhinoplasty is one of the most challenging procedures in facial plastic surgery, as treatment has to be carefully tailored for each patient; nowadays the concept of preservation rhinoplasty is particularly sought-after, allowing to conserve cartilage bone structure, and avoiding secondary surgery with costal grafts. Thought for the young surgeon in training, this richly illustrated clinical cases atlas in rhinoplasty offers all needed tools to correctly classify the malformation and choose the best reproducible treatment. Chapters clearly illustrate the principal approach with closed technique, to which specific parts on transcolumellar approaches are added, beginning with the simpler cases and progressing stepwise to more complex cases. Each part is supported by the addition of high quality illustrations and surgical videos to foster the reader's understanding and preparation of practical steps and best choices, offering direct support in the operating room. The chapters move from the clinical examination, to photography, topography and deformation measurement (TDM) in 3D, computer simulations and the building of a dedicated preoperative check list to endure a careful patient approach and secure the best outcomes for the most frequent rhinoplasty cases. Plastic surgeons in training and ENT doctors alike will find this Clinical Atlas of Primary Rhinoplasty to be a handy guide to resort to, when wanting to improve their daily practice. Via app: download the SN More Media app for free, scan a link with play button and videos directly on your smartphone or tablet.

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rhinoplasty anatomy: Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery Robert T Sataloff, 2015-11-30 *Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery - Facial Plastic and Reconstructive Surgery* is part of a multi-volume textbook covering basic and clinical science across the entire field of otolaryngology. Volumes in the set include; otology, neurotology and skull-based surgery; rhinology, allergy and immunology; laryngology; head and neck surgery; and paediatric otolaryngology. The full set is enhanced by over 5000 full colour images and illustrations, spanning nearly 6000 pages, complete with a comprehensive index on DVD. Edited by Robert T Sataloff from Drexel University College of Medicine, Philadelphia, this volume includes contributions from internationally recognised experts in otolaryngology, ensuring authoritative content throughout. *Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery - Facial Plastic and Reconstructive Surgery* is an indispensable, in-depth guide to the field for all otolaryngology practitioners. *Key Points Textbook of facial plastic and reconstructive surgery*, part of six-volume set covering the entire field of otolaryngology Volumes include otology/neurotology, rhinology, laryngology, head and neck surgery, and paediatric otolaryngology Over 5000 full colour images and illustrations across six volumes Edited by Robert T Sataloff, with contributions from internationally recognised otolaryngology experts

rhinoplasty anatomy: The Nasal Valve, An Issue of Otolaryngologic Clinics of North America Robin Williams Lindsay, Shekhar K. Gadkaree, 2025-04-28 In this issue of *Otolaryngologic Clinics*, guest editors Drs. Robin Lindsay and Shekhar Gadkaree bring their considerable expertise to the topic of The Nasal Valve. Top experts discuss key topics such as objective outcome measures; evaluation and treatment of lateral wall insufficiency; closed treatment of INV; indications for butterfly graft and evolution; choosing the best graft source; and much more. - Contains 17 relevant, practice-oriented topics including preoperative assessment; postoperative pain management after functional rhinoplasty; evaluation and management of the external nasal valve; evaluation and treatment of nasal valve compromise in non-Caucasian noses; functional considerations in nasal feminization; cleft rhinoplasty: functional and cosmetic concerns; and more - Provides in-depth clinical reviews on the nasal valve, offering actionable insights for clinical practice - Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant, topic-based reviews

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Rhinoplasty: An Anatomical and Clinical Atlas, provides an in-depth understanding of nasal anatomy and a wide variety of operative techniques. In rhinoplasty surgery, the surgeon must understand the tight linkage between surface aesthetics, underlying anatomy, and selection of operative techniques. The underlying anatomy is only revealed to a limited degree at the time of surgery and the surgeon must then adapt the operative plan to fit the actual anatomy observed in the operating room to achieve the patient's desired aesthetic result. Ultimately, the goal of this atlas is to allow the surgeon to see the operative techniques in both cadavers and clinical cases which represents the best possible learning approach.

rhinoplasty anatomy: Rhinoplasty Mark B. Constantian, 2009-06-30 Rhinoplasty: Craft and Magic, by Dr. Mark B. Constantian, a master work by a master surgeon, is destined to change the way you practice rhinoplasty. It is essential reading for all surgeons interested in nasal surgery. For many surgeons, rhinoplasty is seen as a complex and often mystifying operation. This book takes the mystery out of rhinoplasty, making it both understandable and controllable, demonstrating that function can always be improved, and showing how particular postoperative shapes can be achieved with a high level of certainty. It will provide you with the basic skills and understanding of how rhinoplasty works in both primary and secondary nasal operations. This comprehensive book is packed full of useful information to help you improve your rhinoplasty results. An applied anatomy chapter discusses the critical anatomic variants that are important to diagnose and how these affect the end result during different operative procedures, such as reduction of the dorsum. The surgeon learns what to expect after each operative step, and to understand how to interpret what is seen in the operating room. Another chapter focuses on the airway; it describes how to avoid creating airway problems and how to correct these problems when they occur. Multiple grafting techniques are also described with step-by-step details of how to use each type of autogenous donor material and the secrets for making the grafts work the first time. Important information is included on how you work with the different types of soft tissue covers with different patient types and specific clinical problems, including cleft lip nose, the traumatized nose, the older patient, the narrow nose, the thick-skinned nose, and the open rhinoplasty deformity. All common secondary problems are addressed in detail, such as secondary dorsal tip and supratip deformities. Numerous innovative features and tips and tricks are included to guide the reader and enhance understanding. Icons introduce each technique, providing a visual summary of the operative strategy used for each problem discussed. Summaries of surgical plans precede each procedure. Surgical solutions to specific problems are grouped together and illustrated with step-by-step technique. Long-term results are analyzed, with inclusion of many 5-, 10-, and 15-year results. Four DVDs with operative video complement and expand on the techniques described in this amazing two-volume set.

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rhinoplasty anatomy: Rhinoplasty E-Book Husain Ali Khan, Foad Nahai, Shahrokh C. Bagheri, Behnam Bohluli, James D. Frame, 2022-04-25 A valuable resource for cosmetic and reconstructive surgeons at all levels of training and expertise, *Rhinoplasty: A Case-Based Approach* offers systematic, expert coverage of both common and complex rhinoplasty procedures performed in today's practice. Each chapter offers a carefully written teaching case that outlines essential information related to fundamental aspects of the condition—all from the world's leading experts in rhinoplasty and aesthetic surgery. Numerous high-quality illustrations and procedural videos help you master the techniques that lead to optimal outcomes and increased patient satisfaction. - Presents more than 150 teaching cases that represent the full range of today's practice of cosmetic surgery. Cases are ones most commonly seen, or those that have significant implications for modern clinical practice. - Provides the presentation, physical exam findings, and laboratory and imaging studies for each case, along with an analysis of treatment options, complications, selected references, and other relevant information. - Reflects real-life clinical perspectives, presenting patients as they would before a surgery, followed by an expert walk-through of the procedure. - Features high-quality clinical images and clear anatomical artwork, as well as procedural videos for real-time visual guidance. - Shares the experience and knowledge of internationally renowned surgeons who draw from different training backgrounds to provide a multidisciplinary approach to the vast array of patient desires for beauty and functionality.

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experts allows you to apply the very latest advances in every area of plastic surgery and ensure optimal outcomes. - Purchase only the volumes you need or own the entire set, with the ability to search across all six volumes online!

rhinoplasty anatomy: All Around the Nose Cemal Cingi, Nuray Bayar Muluk, 2019-11-05 This book is designed to provide all the information required for a sound understanding of diseases of the nose and paranasal sinuses and the surgical techniques used in their management. After an opening section on basic science, clinical and radiological assessment is explained and individual chapters focus on conditions ranging from infectious diseases, allergic rhinitis, and nasal polyposis to trauma, malignancies, and skin diseases. A wide variety of surgical techniques are then described with the aid of high-quality illustrations, covering nasal airway procedures and surgical approaches to the paranasal sinuses, including diverse endoscopic and image-guided procedures, nasal reconstruction, and endonasal and external rhinoplasty. The book is a collaborative project between the new generation of Turkish specialists and well-known experts from across the world. It will be of value for ENT doctors in all countries, as well as for students and trainees and those working in ENT-related fields such as maxillo-facial surgery, pediatrics, allergology, neurology, infectious diseases, and neurosurgery.

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topics includes the understanding challenges and needs to deliver the modern surgical cleft care worldwide and comprehending multidisciplinary-based longitudinal life-changing concept. The chapters are focused on professional-friendly technical descriptions from diagnosis to execution such as nasoalveolar molding, cleft lip repair, cleft palate repair, myringotomy tube insertion, primary and secondary rhinoplasties, oronasal fistula reconstruction, velopharyngeal insufficiency management, virtual-aided alveolar reconstruction, surgery-first approach in cleft orthognathic surgery, 3D computer-assisted orthognathic surgery, revisionary surgeries, and postoperative care. Traditional and current principle-based methods are itemized into many algorithms and protocols to aid in diagnosing, planning, and selecting the best therapeutic approach in order to balance excellence in outcome and burden of care. Many surgical-, orthodontic-, speech-, and postoperative care-related technical examples, intraoperative photos, and full-colour illustrative drawings can guide the professionals working in multidisciplinary teams through each traditional and newer hybrid operative procedure in a detailed step-by-step fashion with emphasis on how to perform each procedure, rather than on theoretical-only descriptions. This book provides time- and scientifically-tested treatment algorithms to guide multidisciplinary teams during decision making process for each clinical scenario of the longitudinal cleft care

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