

anatomy of the face

anatomy of the face encompasses the complex structural and functional components that define human facial features and expressions. This intricate system includes bones, muscles, nerves, blood vessels, and skin, each playing a crucial role in appearance, sensory input, and communication. Understanding the anatomy of the face is essential not only for medical professionals such as surgeons and dentists but also for fields like forensic science, anthropology, and cosmetic dermatology. This article explores the detailed anatomy of the face, beginning with the skeletal framework, followed by the muscular system responsible for facial expressions. Additionally, the article discusses the nervous and vascular networks that support facial functions and the integumentary system that covers the face. A comprehensive understanding of these components provides insight into the dynamic interplay that allows for facial movement, sensation, and expression. The following sections will systematically break down the anatomy of the face for a thorough appreciation of its complexity.

- Facial Skeleton: The Structural Foundation
- Musculature of the Face: Movement and Expression
- Nervous System of the Face: Sensory and Motor Innervation
- Vascular Supply: Blood Flow in the Facial Region
- Integumentary System: Skin and Appendages of the Face

Facial Skeleton: The Structural Foundation

The facial skeleton provides the rigid framework that supports the soft tissues of the face and shapes its overall appearance. Comprised of several bones, the facial skeleton protects vital sensory organs such as the eyes, nose, and mouth. It also serves as attachment points for muscles involved in mastication and expression.

Major Bones of the Facial Skeleton

The human face contains 14 bones that contribute to its structure. These include paired and unpaired bones that together form the contours and cavities of the face.

- **Maxilla:** Forms the upper jaw and supports the upper teeth; plays a key role in the formation of the nasal cavity and orbit.
- **Zygomatic Bones:** Commonly called cheekbones, they contribute to the prominence of the cheeks and part of the orbit.
- **Nasal Bones:** Small paired bones that form the bridge of the nose.

- **Mandible:** The largest and strongest facial bone, forming the lower jaw and holding the lower teeth.
- **Lacrimal Bones:** Small bones located near the inner corner of each orbit, housing the lacrimal sac.
- **Palatine Bones:** Form part of the hard palate and the floor of the nasal cavity.
- **Vomer:** Forms the inferior part of the nasal septum.

Functions of the Facial Skeleton

The facial bones provide structural support for facial muscles and soft tissues, protect sensory organs, and facilitate vital functions such as chewing and breathing. They contribute to facial symmetry and aesthetics, which are essential for identity recognition and nonverbal communication.

Musculature of the Face: Movement and Expression

The muscles of the face are primarily responsible for facial expressions, enabling nonverbal communication through a wide range of movements. These muscles are unique in that many insert directly into the skin rather than bone, allowing for subtle changes in facial appearance.

Muscles of Facial Expression

These muscles control movements such as smiling, frowning, blinking, and other expressions that convey emotions.

- **Orbicularis Oculi:** Encircles the eye and allows for blinking and closing the eyelids.
- **Orbicularis Oris:** Encircles the mouth and controls lip movements for speech and eating.
- **Zygomaticus Major and Minor:** Elevate the corners of the mouth, producing a smile.
- **Frontalis:** Raises the eyebrows and wrinkles the forehead.
- **Buccinator:** Compresses the cheek, aiding in chewing by keeping food between the teeth.
- **Platysma:** Tenses the skin of the neck and lowers the jaw.

Muscles of Mastication

These muscles facilitate chewing by moving the mandible. They are distinct from the muscles of

facial expression and have different innervation.

- **Masseter:** Elevates the mandible to close the jaw.
- **Temporalis:** Elevates and retracts the mandible.
- **Medial Pterygoid:** Elevates the mandible and assists in grinding movements.
- **Lateral Pterygoid:** Depresses and protrudes the mandible, enabling side-to-side movement.

Nervous System of the Face: Sensory and Motor Innervation

The nervous system of the face comprises motor and sensory nerves that control muscle movements and relay sensations such as touch, pain, and temperature. Understanding facial nerve anatomy is critical for diagnosing and treating neurological disorders affecting the face.

Facial Nerve (Cranial Nerve VII)

The facial nerve is the primary motor nerve for the muscles of facial expression. It emerges from the brainstem, traverses the temporal bone, and branches extensively across the face.

- Controls voluntary facial movements, including blinking, smiling, and frowning.
- Innervates the stapedius muscle in the ear, which dampens loud sounds.
- Conveys taste sensations from the anterior two-thirds of the tongue.

Trigeminal Nerve (Cranial Nerve V)

The trigeminal nerve is the main sensory nerve of the face, providing sensation to the skin, mucosa, and sinuses. It also innervates muscles involved in mastication.

- **Ophthalmic branch (V1):** Supplies sensation to the forehead, scalp, and upper eyelids.
- **Maxillary branch (V2):** Provides sensation to the cheeks, upper lip, and nasal cavity.
- **Mandibular branch (V3):** Supplies sensation to the lower lip, chin, and also motor fibers to muscles of mastication.

Other Important Nerves

Several smaller nerves contribute to facial sensation and autonomic regulation, including:

- **Greater auricular nerve:** sensation to the ear and adjacent scalp.
- **Infraorbital nerve:** branch of V2, provides sensation to the midface.
- **Autonomic fibers:** regulate sweating and blood vessel dilation in the face.

Vascular Supply: Blood Flow in the Facial Region

The face receives a rich blood supply that ensures oxygenation and nutrient delivery to facial tissues. This vascular network is critical for wound healing, thermoregulation, and overall facial health.

Arterial Supply

The primary arteries supplying the face originate from the external carotid artery and include:

- **Facial artery:** The main artery of the face, supplying the skin and muscles of facial expression.
- **Superficial temporal artery:** Supplies the scalp and lateral aspects of the face.
- **Infraorbital artery:** Supplies the lower eyelid, upper lip, and cheek.
- **Dorsal nasal artery:** Supplies the nose and adjacent areas.

Venous Drainage

The venous system of the face mirrors the arterial network and drains blood into the internal and external jugular veins. Important veins include:

- **Facial vein:** Drains most of the superficial face and communicates with the cavernous sinus through the ophthalmic veins.
- **Retromandibular vein:** Formed by the union of the superficial temporal and maxillary veins, it drains into the external jugular vein.

Integumentary System: Skin and Appendages of the Face

The integumentary system covers the facial skeleton and musculature, providing protection, sensation, and contributing to facial aesthetics. It includes the skin, hair follicles, sebaceous glands, and sweat glands.

Structure of Facial Skin

Facial skin is unique due to its exposure and functional importance. It consists of three main layers:

1. **Epidermis:** The outermost layer provides a protective barrier and contains melanocytes that determine skin pigmentation.
2. **Dermis:** Contains connective tissue, blood vessels, nerve endings, hair follicles, and glands.
3. **Hypodermis (subcutaneous tissue):** Composed of fat and connective tissue that cushions the facial bones and muscles.

Facial Appendages

The face contains specialized appendages that contribute to sensory functions and protection:

- **Hair follicles:** Present on the scalp, eyebrows, eyelashes, and fine vellus hair on other facial areas.
- **Sebaceous glands:** Produce sebum to lubricate and waterproof the skin and hair.
- **Sweat glands:** Involved in thermoregulation and excretion.
- **Meibomian glands:** Located in the eyelids, they secrete oils that protect the eyes.

Frequently Asked Questions

What are the main bones that form the anatomy of the face?

The main bones that form the anatomy of the face include the mandible, maxilla, zygomatic bones, nasal bones, lacrimal bones, palatine bones, vomer, and inferior nasal conchae.

Which muscles are primarily responsible for facial expressions?

The primary muscles responsible for facial expressions are the orbicularis oculi, orbicularis oris, zygomaticus major and minor, frontalis, buccinator, and platysma.

How does the facial nerve affect the anatomy of the face?

The facial nerve (cranial nerve VII) controls the muscles of facial expression, transmitting signals that enable movements such as smiling, frowning, and blinking.

What role do the parotid glands play in the face?

The parotid glands are the largest salivary glands located near the jaw and in front of the ears; they produce saliva that aids in digestion and oral hygiene.

Where is the facial artery located and what is its significance?

The facial artery runs across the mandible and supplies blood to the superficial structures of the face, including the skin and muscles.

What are the key sensory nerves of the face?

The key sensory nerves of the face include branches of the trigeminal nerve (cranial nerve V), such as the ophthalmic, maxillary, and mandibular nerves, which provide sensation to different facial regions.

How does the anatomy of the face change with aging?

With aging, the facial bones may resorb slightly, muscles lose tone, fat pads shift or diminish, and skin elasticity decreases, leading to wrinkles and sagging.

What is the significance of the nasolabial fold in facial anatomy?

The nasolabial fold is a skin crease running from the side of the nose to the corner of the mouth, formed by underlying muscles and fat, often accentuated with age.

Which facial muscles are involved in chewing?

The muscles involved in chewing include the masseter, temporalis, medial pterygoid, and lateral pterygoid muscles.

How are the lymph nodes in the face important for health?

Facial lymph nodes help filter lymphatic fluid and play a crucial role in immune defense by trapping pathogens and facilitating immune responses in the head and neck region.

Additional Resources

1. *Gray's Anatomy of the Human Body*

This classic reference book provides an in-depth exploration of human anatomy, with detailed sections dedicated to the face and head. It includes comprehensive illustrations and descriptions of muscles, nerves, blood vessels, and bone structures. Ideal for medical students and professionals, it offers foundational knowledge essential for understanding facial anatomy.

2. *Facial Anatomy for Plastic Surgery*

Aimed at plastic surgeons and medical practitioners, this book delves into the intricate anatomy of the face relevant to surgical procedures. It emphasizes the relationships between facial muscles, fat compartments, and vascular structures. Detailed diagrams and clinical tips make it a valuable resource for improving surgical outcomes.

3. *Atlas of Facial Anatomy*

This atlas presents high-quality, detailed images and illustrations focusing specifically on the anatomy of the face. It covers the skeletal framework, musculature, nerves, and vasculature with clarity and precision. The visual approach aids students and clinicians in visualizing complex anatomical relationships.

4. *Clinical Anatomy of the Face for Filler and Botulinum Toxin Injection*

Focused on aesthetic medicine, this book outlines the anatomical considerations necessary for safe and effective cosmetic injections. It highlights key facial landmarks, nerve pathways, and muscle functions to minimize complications. Practical advice complements anatomical knowledge for practitioners performing facial enhancements.

5. *Functional Anatomy of the Facial Expression*

This book explores the muscles and nerves responsible for facial expressions and their functional anatomy. It integrates anatomical details with physiological insights to explain how expressions are formed and controlled. Useful for artists, clinicians, and researchers studying facial dynamics.

6. *Head and Neck Anatomy for Dental Medicine*

While centered on dental applications, this text provides comprehensive coverage of facial anatomy, including bones, muscles, nerves, and blood supply. It links anatomical knowledge to clinical dental practice, making it relevant for dentists and oral surgeons. Detailed illustrations support a clear understanding of complex structures.

7. *Facial Nerve: Anatomy and Clinical Course*

This specialized book focuses on the facial nerve, its anatomy, variations, and clinical significance. It discusses the nerve's pathways, branches, and its role in facial movement and sensation. Essential for neurologists, otolaryngologists, and surgeons dealing with facial nerve disorders.

8. *3D Atlas of Facial Anatomy*

Utilizing advanced 3D imaging techniques, this atlas offers an interactive and immersive view of the facial anatomy. It allows readers to explore layers of muscles, bones, and vessels in three dimensions, enhancing spatial understanding. A modern tool beneficial for students, educators, and clinicians.

9. *Embryology of the Face and Neck*

This book examines the developmental anatomy of the face and neck, explaining how facial structures form during embryogenesis. It provides insight into congenital anomalies and their

anatomical basis. Valuable for students and professionals interested in developmental biology and craniofacial disorders.

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anatomy of the face: Facial Topography Joel E. Pessa, MD, Rod J. Rohrich, MD, 2014-04-18
The difference in the shapes of facial structures and their relationship to one another determines the unique and distinct appearance of each individual. This anatomic information is critical to diagnosing changes in facial topography that occur with age and in determining the best approach for augmenting and rejuvenating the aging face. Facial Topography: Clinical Anatomy of the Face provides a critical roadmap for navigating the underlying anatomy of the face. It is the first work of its type that uses cadaver dissections paired with detailed medical illustrations to depict the soft tissue surface landmarks of the face—shapes, contours, creases, and lines. This beautifully illustrated semi-atlas is packed with clinical information to help improve surgical outcomes. The book places particular emphasis on describing surface landmarks to help predict the location of deeper structures. This knowledge increases the safety of any facial procedure, because the surgeon knows the course and location of blood vessels, muscles, and nerves. The book includes advice on determining the best placement of injectables to achieve a predictable and aesthetic result and to avoid complications, and also helps surgeons understand the ideal placement of fillers for facial augmentation. In addition, the basic dissections provide essential information for all residents and practitioners operating in the face. Anatomic tenets are described that can be applied to any anatomic region and key clinical points are highlighted throughout. A supplemental DVD includes video demonstrations of dissections and other clinical applications in each anatomic area of the face.

anatomy of the face: Face Anatomy Andrea Alessandrini, 2015-01-01 A MEDICAL BOOK THAT IS RICH ON IMAGES AND INFORMATION SPECIFICALLY ELABORATED FOR AND AIMED AT THOSE PROFESSIONALS SPECIALIZING IN AESTHETIC CORRECTIONS OF THE FACE • I dedicate this text, which is the result of many years of work, to all those who, like me, operate in the wonderful world of Aesthetic Medicine and Surgery. For a better understanding of the text, it is useful for me to illustrate my professional past. • It was 1982 when I injected my first phial of filler: it was bovine collagen. • From the initial small corrections, which I effected overcoming fears and worries, I performed wider corrections in various areas of the face, acquiring more and more confidence and awareness about what I was doing (this confidence was due to my knowledge of anatomy, without which I would have felt “naked”). • Now, in 2014, I still am, as I have always been in all this time, in search of slightly invasive techniques, more and more consolidating my knowledge in order to obtain the best and above all the most natural results. • I held, and am still holding, courses in various parts of the world, proposing to my colleagues all my knowledge acquired in these years, in particular the secrets, the points of attention, the correct therapeutic approach, the global vision of problems and possible limits. All that with the aim of working correctly and reaching the utmost results. • I take part in national and international congresses, where I illustrate my techniques and the new approaches in the field and I compare the colleagues’ experiences with mine with the humbleness of a person who is always willing to learn. • My experience, acquired also through teaching on corpses, has led me not only to a deeper knowledge

of anatomy, but also to developing new personal techniques. • In consequence of the continuous and appreciated request of material for consultation by Italian and foreign colleagues, I decided to undertake the onerous project of presenting, in this first volume, the anatomy and the noble structures, of which we must have a specific knowledge in order to better understand and assimilate the operative guide-lines used by me, which are going to be dealt with in the second volume. • This text has some peculiar characteristics that can be synthesized in two words: clarity and immediateness in consultation. As we well know, in order to be able to undertake a targeted therapeutic program, regardless of the substance used, a deep knowledge of the anatomy of the face is needed.

anatomy of the face: *Surgical Anatomy of the Face* Wayne F. Larrabee, Kathleen H. Makielski, Jenifer L. Henderson, 2004 Thoroughly updated to reflect the latest refinements in operative technique, this full-color atlas provides a surgeon's-eye view of the anatomic structures and relationships encountered during all facial surgical procedures. It features more than 100 drawings by Dr. Makielski, a head and neck surgeon, and more than 100 photographs. This Second Edition's brand-new chapter on embryology emphasizes congenital anomalies such as clefts and dermoid cysts. New illustrations show the surgical anatomy of endoscopic approaches and recently developed procedures, including the SOOF lift. This edition also includes more detail on the osteocutaneous and retaining ligaments and the supporting ligaments and tendons of the orbit.

anatomy of the face: *Face Yoga Revolution: Transform Your Skin Naturally* Mei Lin Zhang, 2023-01-01 Face yoga is the secret to ageless beauty. Discover the transformative power of face yoga with *Face Yoga Revolution: Transform Your Skin Naturally*, the ultimate guide to rejuvenating your skin and achieving ageless beauty. Learn how to harness the power of facial exercises to naturally lift, tone, and sculpt your face for a more youthful and radiant appearance. In this comprehensive guide, you'll explore: The Science of Face Yoga: Understand the principles behind face yoga and its many benefits for your skin and overall well-being. Face Yoga Techniques: Master a variety of facial exercises to target specific areas of your face, from your forehead and eyes to your cheeks and jawline. Customized Face Yoga Routines: Create personalized face yoga routines to address your unique skincare needs and goals. The Connection Between Mind, Body, and Skin: Discover how stress, diet, and lifestyle impact your skin's health and how face yoga can help you achieve a holistic skincare routine. The Power of Breath: Learn how to incorporate breathing exercises into your face yoga practice to relax your facial muscles and enhance your results. Facial Massage and Acupressure: Uncover the benefits of facial massage and acupressure techniques to boost circulation, release tension, and promote a healthy glow. Skincare and Nutrition: Explore how to nourish your skin from the inside out with a balanced diet and natural skincare tips. Face Yoga for Different Life Stages: Adapt your face yoga practice to suit your changing skin needs throughout your life, from your twenties to your sixties and beyond. Success Stories and Testimonials: Be inspired by real-life accounts of individuals who have transformed their skin and lives through the power of face yoga. *Face Yoga Revolution: Transform Your Skin Naturally* is the essential guide for anyone looking to enhance their skincare routine, boost their self-confidence, and experience the life-changing benefits of face yoga. Begin your journey to radiant, youthful skin today! Contents: Introduction to Face Yoga Origins and Philosophy Benefits of Face Yoga Establishing a Face Yoga Routine Face Anatomy and Muscles Understanding the Facial Muscles The Role of Facial Muscles in Expressions and Aging Fundamentals of Face Yoga Proper Breathing Techniques Posture and Alignment Mindfulness and Relaxation Warming Up and Stretching Gentle Neck Stretches Shoulder and Upper Body Movements Facial Warm-Up Exercises Exercises for the Forehead Smoothing Forehead Lines Lifting the Eyebrows Relaxing Tension in the Forehead Exercises for the Eyes Reducing Eye Bags and Dark Circles Strengthening the Eyelids Alleviating Eye Strain Exercises for the Cheeks Toning the Cheek Muscles Lifting Sagging Cheeks Enhancing Cheek Definition Exercises for the Nose Shaping the Nose Strengthening the Nasal Muscles Improving Nasal Breathing Exercises for the Lips and Mouth Plumping the Lips Strengthening the Jawline Reducing Laugh Lines Exercises for the Neck and Jaw Tightening the Neck Muscles Reducing Double Chin Sculpting

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anatomy of the face: Surgery of Deformities of the Face John Bingham Roberts, 1912

anatomy of the face: The Internal Anatomy of the Face Matthew Henry Cryer, 1901

anatomy of the face: The Internal Anatomy of the Face M H (Matthew Henry) 1840-1921

Cryer, 2023-07-18 Delve into the intricate anatomy of the human face with M.H. Cryer's groundbreaking study. With detailed illustrations and meticulous research, Cryer offers a comprehensive look at the underlying structures of the face and the role they play in facial expression and movement. This book is an essential reference for anyone studying anatomy, dentistry, plastic surgery, or facial aesthetics. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

anatomy of the face: Plastic Surgery - E-Book J. Peter Rubin, Peter C. Neligan, 2017-08-08

Completely revised to meet the demands of today's trainee and practicing plastic surgeon, Aesthetic, Volume 2 of Plastic Surgery, 4th Edition, features new full-color clinical photos, dynamic videos, and authoritative coverage of hot topics in the field. Editor-narrated PowerPoint presentations offer a step-by-step audio-visual walkthrough of techniques and procedures in aesthetic surgery. - Offers evidence-based advice from a diverse collection of experts to help you apply the very latest advances in aesthetic plastic surgery and ensure optimal outcomes. - Provides updated coverage of: Facelift - The male patient; Energy-based devices for body contouring; Autologous gluteal flaps for

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anatomy of the face: *Facelift Surgical Techniques* , *An Issue of Facial Plastic Surgery Clinics of North America* Andrew A. Jacono, 2020-07-16 This issue of *Facial Plastic Surgery Clinics*, guest edited by Dr. Andrew A. Jacono, is devoted to *Facelift Surgical Techniques*. This issue is one of four selected each year by the series Consulting Editor, Dr. J. Regan Thomas. Articles in this issue include: Extended Deep Plane Facelifting, Extended SMAS Flap Rhytidectomy, Vertical Platysma Advancement Deep Plane Facelifting, Incorporating Midline Platysmaplasty with Lateral SMAS Facelifting, Subunit, Approach to Facelifting and Facial Rejuvenation, Superficial and Deep Facial Anatomy and Its Implication for Rhytidectomy Surgery, Laser Assisted Facelifting and Energy-Based Rejuvenation Techniques During Rhytidectomy, Incorporating Fat Grafting with Facelift Surgery, Approaches to Reducing Risk in, Rhytidectomy Surgery, Nuances in SMAS Rhytidectomy, Less Invasive SMAS Approaches in Rhytidectomy, and Local Anesthesia Facelifting.

anatomy of the face: *Atlas of Oral and Maxillofacial Surgery* Deepak Kademani, Paul Tiwana, 2015-04-09 Enhance your OMS surgical skills with *Atlas of Oral and Maxillofacial Surgery*! This practical guide, written by respected international contributors and edited by OMS experts Deepak Kademani and Paul Tiwana, offers detailed, step-by-step instructions and over 2,000 full-color illustrations that demonstrate how to plan for and perform oral and maxillofacial surgical procedures safely and efficiently. Comprehensive coverage addresses the broad scope of the specialty, ranging from the surgical anatomy of the head and neck to oral surgery, implant surgery, orthognathic and craniofacial surgery, cleft lip and palate, craniomaxillofacial trauma, management of head and neck surgery, reconstructive procedures, TMJ surgery, and aesthetic facial surgery. A comprehensive approach to OMS operative procedures offers practical guidance to the management of patients with oral and maxillofacial disorders, with each surgical procedure chapter approximately six to eight pages in length and covering the following topics: armamentarium, history of the procedure, indications for use of the procedure, limitations and contraindications, technique, alternate or modified technique, avoidance and management of intraoperative complications, and postoperative considerations. Detailed, step-by-step approach shows how to perform OMS surgical procedures safely and efficiently. Coverage of alternative and modified techniques addresses options other than the standard techniques. A full-color design makes the text easier to navigate. Expert, international contributors provide authoritative guidance on the OMS procedures they typically perform.

anatomy of the face: *Plastic Surgeon: 6 Volume Set - E-Book* Peter C. Neligan, 2023-09-25 Comprehensive and fully up to date, Dr. Peter Neligan's six-volume masterwork, *Plastic Surgery*, 5th Edition, remains the gold standard text in this complex area of surgery. Completely revised to meet the demands of both the trainee and experienced surgeon, it features new, full-color clinical photos, procedural videos, and lectures across all six volumes. Bonus material online includes additional text, images, and over 200 procedural videos that help you improve your mastery of the latest techniques. - Easily find the answers you need with an organization that features separate volumes covering Principles • Aesthetic • Craniofacial, Head and Neck Surgery and Pediatric Plastic Surgery • Lower Extremity, Trunk and Burns • Breast • and Hand and Upper Extremity. Each easily readable, individual volume is a standalone comprehensive text full of salient and applicable anatomy and techniques. - Key procedures include gender affirmation management and surgery, microsurgery and surgery for lymphedema, aesthetic facial surgery, aesthetic body surgery, and the education, training and practice of plastic surgery. - New digital video preface by Dr. Neligan addresses the changes across all six volumes. - New treatment and decision-making algorithms added to chapters where applicable. - New video lectures and editor-narrated slide presentations

offer a step-by-step audiovisual walkthrough of techniques and procedures. - Four new international experts join the editorial team, and lead editor Peter C. Neligan creates a cohesive tone throughout the chapters and content across all six volumes. - Evidence-based advice from a diverse collection of 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!

anatomy of the face: Face Transplantation Juan P. Barret, Veronica Tomasello, 2015-01-21
This book brings together all the relevant available science behind face transplants. It is comprehensive in its coverage, encompassing patient and donor evaluation, ethics, legal issues, psychological issues, types of transplant, surgical technique, issues relating to immunosuppression, follow-up protocols, and current outcomes. Facial transplantation, which allows the replacement of missing anatomy with a perfect match based on transplant medicine principles, has become the most striking innovation in plastic surgery of the twenty-first century as surgeons and scientists progress from reconstructive surgery to restorative surgery. A robust team approach is, however, necessary to produce safe and efficient outcomes, and numerous questions are arising, from technical issues to ethical dilemmas. The reader will discover in this volume all the information required in order to understand this new discipline and to be able to set up a program of facial transplantation.

anatomy of the face: The Cognitive Neuroscience of Face Processing Nancy Kanwisher, Morris Moscovitch, 2000 This special issue showcases new findings from many investigators in this field in studies that use a wide range of experimental techniques including brain imaging, ERPs, patient studies, and single-unit recording in monkeys.

anatomy of the face: Face to Face with the Face Thomas Attlee D.O., R.C.S.T., 2016-07-21
Practical and clear, this comprehensive guide to cranio-sacral treatment of the face explains treatment approaches that can make a significant difference to persistent and intractable conditions, enabling profound transformation in quality of life through whole-person integration. The book explores the eyes, ears, nose, sinuses, mouth, teeth and jaw, and provides a practical means of resolving the multitude of conditions affecting these crucial areas in a gentle, non-invasive manner, utilising the body's inherent healing potential. It covers a wide range from persistent ear infections, dental disturbances, facial injury, sinusitis and trigeminal neuralgia, one of the most painful conditions known to the medical world, through to identifying hidden causes of migraine, autism and chronic fatigue and patterns of ill health arising from birth, early childhood and past trauma. Cranial nerve dysfunctions, including polyvagal disturbances, are also included. Hand positions and contacts are clearly presented with over 200 colour photographs and anatomical drawings. A comprehensive presentation of the potential cooperation between dentistry and cranio-sacral therapy is also provided, with contributions from two eminent dentists, providing much needed information on this growing field of integrative medicine. Essential reading in this rapidly expanding area of practice, the book is fully illustrated in colour.

anatomy of the face: The Dental Cosmos J. D. White, John Hugh McQuillen, George Jacob Ziegler, James William White, Edward Cameron Kirk, Lovick Pierce Anthony, 1905

anatomy of the face: The Double Face of Janus and Other Essays in the History of Medicine Owsei Temkin, 2006-11-02 Preeminent historian of medicine Owsei Temkin brought to his writing an awesome range of scholarship, for he was at home in the classical, the medieval, and the modern eras. The essays gathered in this volume deal with all the topics that Temkin considered most important in his work. They were widely commended for their originality, intelligent analysis, and impressive continuity of thought. Temkin explores the history of basic medical sciences, of health and disease, and of surgery and drug therapy, as well as general questions concerning the historical and philosophical approach to medicine from antiquity to the early twentieth century. In a retrospective introduction which gives the book its name, Temkin relates his writings to his career as a scholar in Germany and the United States. He situates the writings against the background of the development of the study of medical history and provides recollections of such prominent figures as Karl Sudhoff, Henry E. Sigerist, William H. Welch, and Richard H. Shryock.

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