

# Facial Recess, Epitympanum

## Step 2 (Fig. 11)

### Opening the Facial Recess

One begins dissection of the facial recess by identifying the mastoid genu or the descending portion of the facial nerve in the mastoid cavity. As previously indicated, a free flow of irrigating fluid is used to allow a clear and constant view of the underlying bone so that color variations in it may be easily identified. The microscope is turned to 10 power. The color of the facial nerve is pearly white in the preserved bone and salmon color (from the vascularity of the facial canal and the nerve sheath) in a living specimen. Generally, this dissection is accomplished with a cutting burr until a change in bone character is identified; further dissection is performed with a diamond burr. A thin layer of bone is preserved over the facial nerve and, because color changes in the bone will occur before the facial sheath is uncovered, the soft tissue is not injured.

Identification of a facial recess cell tract is done by thinning the posterior canal wall enough to see the shadow of an instrument through the bone. One must not perforate the canal wall, disrupt the chorda tympani, or transect the annulus. A common error is to penetrate the posterior canal wall lateral to the chorda tympani. This, of course, exposes the external auditory canal lumen since the chorda tympani is immediately beneath the annular ligament.

#### Landmarks:

Posterior canal wall  
Horizontal canal  
Fossa incudis  
Mastoid genu  
Facial Recess cells  
(if present)

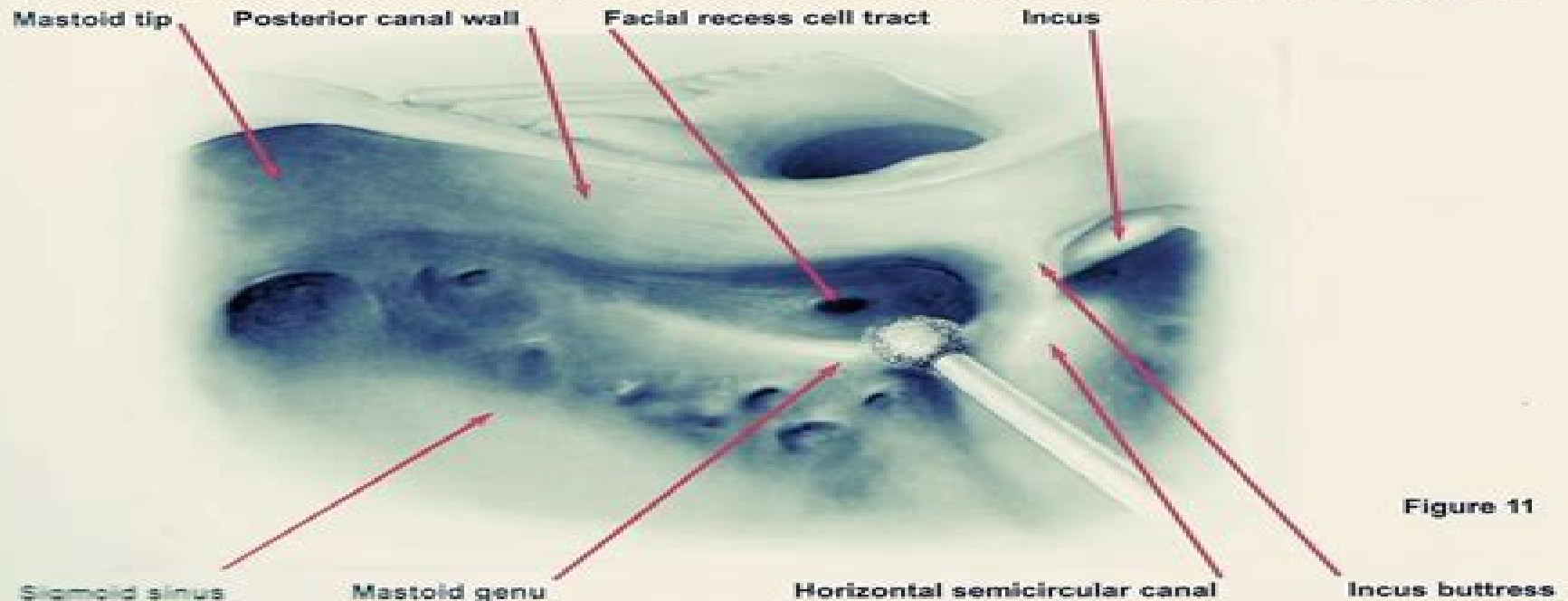


Figure 11

# Temporal Bone Dissection Manual

**Khairy Alhag Abu Shara**



## **Temporal Bone Dissection Manual:**

*Temporal Bone Dissection Manual* Cor Cremers, 2011      **Temporal Bone Dissection Manual**, 2011      Temporal Bone Dissection Manual Abdulrahman A. Hagr, Abdulrahman Al-Sanosi, 2012      **Temporal Bone Dissection Manual** Cor Cremers, Jef Mulder, 2011 In this beautiful atlas Cor Cremers and Jef Mulder have put together the knowledge and experience gained in four decades of practicing and teaching microsurgical procedures To be able to teach the basic approaches of modern temporal bone surgery using only one temporal bone represents a masterly performance Since the number of temporal bones available for dissection is becoming progressively scarce it is clear that the authors have turned a need into a great virtue The precise text and the splendid illustrations are also an expression of the authors special talent in conveying essential      **House Officers' Temporal Bone Dissection Manual** Harold Frederick Schuknecht, Harvard Medical School, Massachusetts Eye and Ear Infirmary, 1988\*      *Manual of Temporal Bone Dissection* Barbara Maurizio, 2002 The temporal bone is an anatomical jewel box of extraordinary complexity Both the minuscule scale of its vital structures and their convoluted three dimensional relationships make microsurgery of this region one of the most technically demanding of all operative endeavours Unravelling the mysteries of temporal bone anatomy is the foremost challenge faced by every otologist The goal of achieving perfect knowledge and facility will never be achieved No matter how experienced a surgeon becomes ongoing study of the finer points of temporal bone anatomy observed both in the operating room and dissection laboratory serves to maintain and improve his or her skill Dr Barbara has produced a highly useful Manual of Temporal Bone Dissection to guide exploration of the temporal bone Its stepwise approach will prove useful for both the novice otologist and the experienced surgeon seeking to refresh his or her knowledge Its orientation upon specific surgical procedures rather than pure anatomy enhances its utility for the practising surgeon This written resource is an essential element of the three components needed for a high quality surgical dissection course a lucid manual such as that authored by Dr Barbara informative didactic sessions and anatomical dissection proctored by expert microsurgeons The team at La Sapienza are to be congratulated for their efforts in producing an outstanding educational programme      **Temporal Bone Surgical Dissection Manual** Ralph A. Nelson, 1982      **Dissection Manual for the Temporal Bone Laboratory** Khairy Alhag Abu Shara, 2009      **The Temporal Bone** Mario Sanna, Alessandra Russo, Abdelkader Taibah, 2018-02-15 Temporal bone anatomy is arguably the most complex anatomy in the human body The proximity of vital neural and vascular structures the intricate three dimensional relationships involved and the manner in which these structures are encased in a labyrinth of bony canals pose a major challenge to the preparation for and performance of surgery It follows that specialized anatomy teaching courses are indispensable and these are most effective when executed with the help of dissections on cadaver preparations Mario Sanna's Temporal Bone is a guide to the dissection courses that the author himself would have sought to have while he was receiving training as such creating it has been a dream come true for the author The manual is designed to complement

and reinforce the experiences of course participants comprehensively covering the normal and surgical anatomy of the temporal bone and all aspects of basic and advanced otologic and neurotologic surgery Key Features The surgical anatomy is shown with the help of specially prepared cadaveric dissections The approaches techniques in these dissections are described step by step For every approach technique the surgical anatomy indications surgical steps and hints and pitfalls are described The Temporal Bone effectively transmits Mario Sanna s passionate dedication in otologic teaching and training to excellence Residents and fellows should definitely find it indispensable

#### **Step by Step: Temporal Bone Dissection**

Gauri S Belsare,2014-02-28 The temporal bones are situated at the sides and base of the skull and support the temples The relationship of the temporal bone structures is very complex and can be difficult for otologic surgeons to master This book is a comprehensive guide to temporal bone dissection designed to help postgraduate trainees and ENT surgeons improve their surgical skills Beginning with an introduction to the basics and surgical anatomy of the temporal bone the following chapters guide surgeons through each step of dissection describing the different approaches and related clinical situations Presented in a bulleted easy to read format this invaluable reference includes numerous clinical photographs of the procedures to enhance learning Key points Comprehensive guide to temporal bone dissection for postgraduate trainees and ENT surgeons Step by step presentation of key procedures and related clinical situations Provides thorough knowledge of temporal bone anatomy Includes numerous photographs of clinical procedures

#### **Medicine Meets Virtual Reality 02/10**

James D. Westwood,Helene M. Hoffman,Richard A. Robb,D. Stredney,2006-01-15 The book offers papers on many aspects of electronic technology in healthcare Core areas are imaging simulation visualization data networks sensors robotics and displays Medical applications include information guided surgery education and procedural training telemedicine immersive environments stereoscopic projection diagnostic tools rehabilitation and augmented reality The papers describe both completed projects and recent developments in ongoing research The book is a the collection of papers of the 10th annual Medicine Meets Virtual Reality conference January 2002 This volume is a resource for computer scientists working in medical context and for creators of data focused products for clinical care medical education and procedural training

*Rat*

*Dissection Manual* Bruce D. Wingerd,1988

#### **Temporal Bone Dissection Guide**

Howard W. Francis,John K. Niparko,2016-06-15 The second edition of this indispensable guide provides a step by step approach to learning the anatomy and principal procedures of temporal bone dissection starting with mastoidectomy and including approaches to the internal auditory canal and jugular foramen The renowned authors share their collective wisdom and pearls gleaned from years of treating patients with temporal bone disease and teaching these methodologies to medical students residents and fellows Procedural details are presented throughout 10 detailed chapters accompanied by beautiful sequential illustrations and videos One of the most complex regions of the human body the temporal bone and adjacent skull base present unique surgical challenges Critical neurovascular structures traverse complex pathways through the temporal bone which itself has

highly variable anatomy Tumors and erosive lesions create additional anatomical barriers that make effective access and resection of diseased areas difficult At the same time the surgical skills required to navigate this anatomy are indispensable to the management of ear disease and associated disability and provide alternative approaches with less morbidity to intracranial pathology This book presents technical and strategic considerations for safe and effective temporal bone surgery Key Highlights Videos of cadaveric and surgical dissections highlight critical technical steps and appropriate execution More than 160 meticulous expertly illustrated pen and ink drawings of progressive dissections A new chapter on middle ear endoscopy details key anatomical features and technical maneuvers integral to this approach New chapters on infratemporal surgical dissection and the intraoperative management of complications are also presented Expanded coverage of the middle fossa approach to the internal auditory canal and methods of assessing competencies when training novice surgeons in temporal bone dissection This is a must have tool that will enable residents and novice surgeons to translate laboratory skills to the operating room and perform safe efficacious and efficient dissection of the temporal bone It is the quintessential learning guide for residents in otolaryngology head and neck surgery and skull base surgery as well as an excellent teaching and assessment tool for faculty

**Cunningham's Manual of Practical Anatomy VOL 3 Head and Neck** Rachel Koshi,2018 The new 16th edition of Cunningham s has been thoroughly revised for the modern day anatomy student Each dissection reflects current medical school curriculum and teaching Completely updated throughout full colour artwork and new images bring the friendly explanations to life

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**guidelines to temporal bone dissection** , Temporal Bone Mario Sanna,Tarek Khrais,2011-01-01 The anatomy of the temporal bone is one of the most complicated areas in the

human body The vital structures the three dimensional relationships involved and the fact that these structures are hidden within bony canals make the anatomy difficult to grasp Described as a dream come true by the authors Professor Sanna and his colleagues have devoted a major effort to creating this book to serve as a guide for young trainees wanting to learn more about temporal bone dissection It provides comprehensive high quality full color pictures of the detailed steps of all the major surgical approaches that can be performed in the temporal bone supplemented by images of cadaveric dissections as an aid to understanding the intracranial anatomy when indicated by the approach Dr Sanna is part of The Gruppo Otologico a world renowned specialist center for the diagnosis and medical and surgical treatment of diseases of the ear skull base facial nerve head and neck and paranasal sinuses More information is available on the group s website [www.gruppootologico.it/eng](http://www.gruppootologico.it/eng)

**Restitutive Surgery of the Ear and Temporal Bone** Malte Erik Wigand, 2011-01-01 The concept of restitutive surgery aims at surgery that restores natural function This book introduces the author s own experience in the application of surgical strategies for treating otologic diseases that follow this priority Main Topics Concepts of restitutive ear surgery Instrumentation Anesthesia and monitoring Otosurgical anatomy A manual for the temporal bone dissection training Injuries of the ear and the temporal bone Malformations of the ear Otosclerosis External otitis Acute otitis media and mastoiditis Chronic otitis media and its complications Petrositis and osteomyelitis of the temporal bone Tumors of the external ear Tumors of the middle ear and the temporal bone Otologic nerve surgery Cochlear and brainstem implants [A](#)

Manual of Dissection and Practical Anatomy William Thomas Eckley, Corinne Buford Eckley, 1903 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),

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