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局部解剖学

(汉英对照)

主编 曾志成



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Chief Editor Zeng Zhicheng

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Preface

Regional anatomy is the science dealing with the form, position and relationship of the structures of the human body in a given region that are closely related to clinical practice. With the development of life science, we, anatomists and medical imageologists from twenty-three medical universities compiled the third edition of *Regional Anatomy* on the basis of the second edition of this book in 2006. The third edition has been extensively revised, updated with the newest research findings, and is designed not only to train the students professional knowledge and skills, but also to promote level of quality education and sense of creation. The third edition consists of eight chapters: the head, the neck, the chest, the abdomen, the pelvis and perineum, the upper limb, the lower limb and the back. Since CT, MRI, ultrasonic technique and SPECT are valuable in viewing the body's internal structures in medical practice, human sectional anatomy as a diagnostic basis, is the content that medical students in modern time should grasp. Therefore, each chapter in third edition comprises two main parts, a description of regional anatomy of a given part followed by a sectional anatomy of the same region. The latter emphasizes the relationships between some important organ sections which will benefit the students in understanding the positions of the organs and their relationships, thus laying a good foundation for the learning of imaging courses and clinical career later on.

Now again, we revise and enlarge the third edition to form the fourth edition so as to bring it to update. In order to facilitate the bilingual teaching and to raise the level of students' professional english, we add to the original text with english version beginning from the fourth edition of this book. Anatomical terminology used in this book is based on *Terms of Human Anatomy* (The Science Press, 1991) and *Chinese-English Medical Dictionary* (People's Medical Publishing House, 2000). The fourth edition of *Regional Anatomy* is a book of nearly 820,000 words and contains 278 illustrations, including 187 color graphs and 91 bargraphs.

It is hardly possible to enumerate the efforts from our colleagues who in one way or another have been instrumental in the development of this book and we are very grateful to them. Foremost is our indebtedness to specialists and colleagues who have assisted in providing or revising images and illustrations in all chapters. They are Wang Youqing, Wangni, Zhang Shuancai, Ren Weijun, Wang Xinwu and Li Wenjie.

Mistakes and shortcomings are unavoidable due to our limited knowledge. Any comments and suggestions would be greatly appreciated.

Chief Editor **Zeng Zhicheng**

8 May, 2008

Biography

Zeng Zhicheng male, professor of anatomy, tutor of doctorate student, graduated from Hunan Medical University in 1969. He is one of the leading members in the regional anatomy and operative surgery section of the *Chinese Surgery Academic Association*, vice editor-in-chief of *Chinese Journal of Regional Anatomy and Operative Surgery*. Professor Zeng did his research in Flinders University of Australia in 1998. Up to now, he has published 80 papers.

Being engaged in teaching, research and teaching management for over thirty years, he was awarded many rewards for his fruitful teaching and research as follows. College middle-age and young teachers' rewards awarded by Hunan Province in 1991, second class rewards for teaching projects "Construction and Practice of Course Assessment System" and "Computer Teaching in Medical Science Education and Management" awarded by Hunan Province in 1993 and 2001, provincial first class rewards and state second class rewards for teaching projects "Exploration and Practice of Medical Education Model for Seven-year Schooling Students" and "Reform of the Traditional Clinical Medical Course System and Teaching Content" in 1995, second class rewards for "Construction of Dichotomy Teaching for Stem Courses in Clinical Medical Education and Reform of Teaching Content" awarded by Hunan Province in 2002. Second class teaching rewards for "Optimize the course construction, improve the anatomy teaching quality" awarded by Ministry of Education in 2005. Third class science and technology progress rewards for "Using Tendon Petal to Repair the Hurt Nerve" and "Research of Transplanting Auto Schwanns Cells from the Embryo Nerve to Repair the Peripheral Nerve Defect and Damage" awarded by Hunan Province.

He has been invited to be editors of several medical magazines or anatomy textbooks. He was the editor of *Regional Anatomy* for the 5th (2000), 6th (2003) and 7th edition (2008) published by the People's Medical Publishing House, vice editor-in-chief of *Human Anatomy* published by the People's Medical Publishing House (2002), editor of *Systematic Anatomy* for a Chinese-English bilingual edition for eight-year schooling students (2003), vice editor-in-chief of English textbook *Regional Anatomy* (2002, 2006 and 2008), chief editor of audio-visual teaching material for *Anatomy of Respiratory System* and *Anatomy of Neck* (2002), and chief editors *Regional Anatomy* 1st edition (2001), 2nd edition (2004), 3rd edition (2006), and *Clinical Practice Guides for Regional Anatomy with Exercises in Chinese and English*, and Chief editors *Systematic Anatomy* 1st edition (2001), 2nd edition (2004), 3rd edition (2006), and *Clinical Practice Guides for Systematic Anatomy with Exercises in Chinese and English*, *New Atlas of Human Anatomy* 1st edition (2002), 2nd edition (2005), and *Atlas of Human Anatomy, Histology, Physiology and Pathology* published by the World Publishing Corporation.

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第一章 头 部 Head

第一节 概 述 Introduction

头部由颅脑部(颅)和颌面部(面)两部分组成。颅内含脑及其血管、脑膜;颌面部有鼻、舌、眼、耳等特殊感觉器官。口腔与鼻腔是消化管和呼吸道的门户。

The head is composed of the cranium and face. The cranium accommodates the brain and its vessels and meninges. There are a series of special sense organs, such as nose, tongue, eye and ear on the face. The mouth cavity is the gateway of the digestive tract whereas the nasal cavity serves as the commencement of the respiratory tract.

一、境界与分区 Boundaries and Divisions

头部由前至后借下颌下缘、下颌角、乳突、上项线和枕外隆凸的连线与颈部分界。颅与面的分界由前向后以眶上缘、颧弓、外耳门上缘、乳突的连线构成。颅位于头部的后上方,由颅顶、颅底和两者构成的颅腔3部分组成。颅顶以前方的眶上缘,后方的枕外隆凸以及两侧颞上线的连线为界,又可分为额顶枕区和两侧的颞区,包括颅顶深部的诸骨;颅底内、外两面均有诸多的孔裂,是血管和神经出入颅腔的部位;颅腔容纳脑,被水平位的小脑幕分为幕上区(幕上间隙)和幕下区(幕下间隙)。幕上区被大脑镰分为左、右对称的两半。

The line connecting the lower border of the mandible, angle of the mandible, mastoid process, superior nuchal line and the external occipital protuberance is usually considered as the demarcation line between the head and neck. The head is divided into cranium and face by the line that passes through the supraorbital margin, zygomatic arch, upper border of external acoustic pore and mastoid process. The cranium is the posterosuperior part of the head and consists of calvarium, base and cranial cavity. The calvarium is subdivided into the frontoparietooccipital region and the temporal region by the line that extends from the supraorbital margin to the superior temporal line and the external occipital protuberance. There are many foramina and fissures on both internal and external aspects of the base, which serve as the passageways of the vessels and nerves exiting and entering the cranial cavity. The cranial cavity holds the brain and is separated into supratentorial and infratentorial compartments by the tentorium cerebelli. The supratentorial compartment is further separated into symmetrical halves by the cerebral falx.

面部可分为面浅区和面侧深区,面浅部依器官所在部位可划分为眶区、鼻区、口区、鼻咽、口咽、腮腺咬肌区以及耳区;面侧深区内容,主要指下颌支的内侧、颞下窝内的结构。

Face can be divided into superficial face and profundal lateral face. The superficial face is subdivided into orbital area, nasal area, oral area, nasopharynx, oropharynx, parotid-masseteric area and aural area. The profundal lateral face contains those structures that lie deeply to the mandibular branch and in the infratemporal fossa.

二、体表标志与投影 Surface Landmarks and Projections

(一)体表标志 Surface Landmarks

头部的体表标志对临床定位检查和治疗颅内疾病具有重要的意义(图1-1,2)。现将主要的体表标志分述如下:

学习笔记

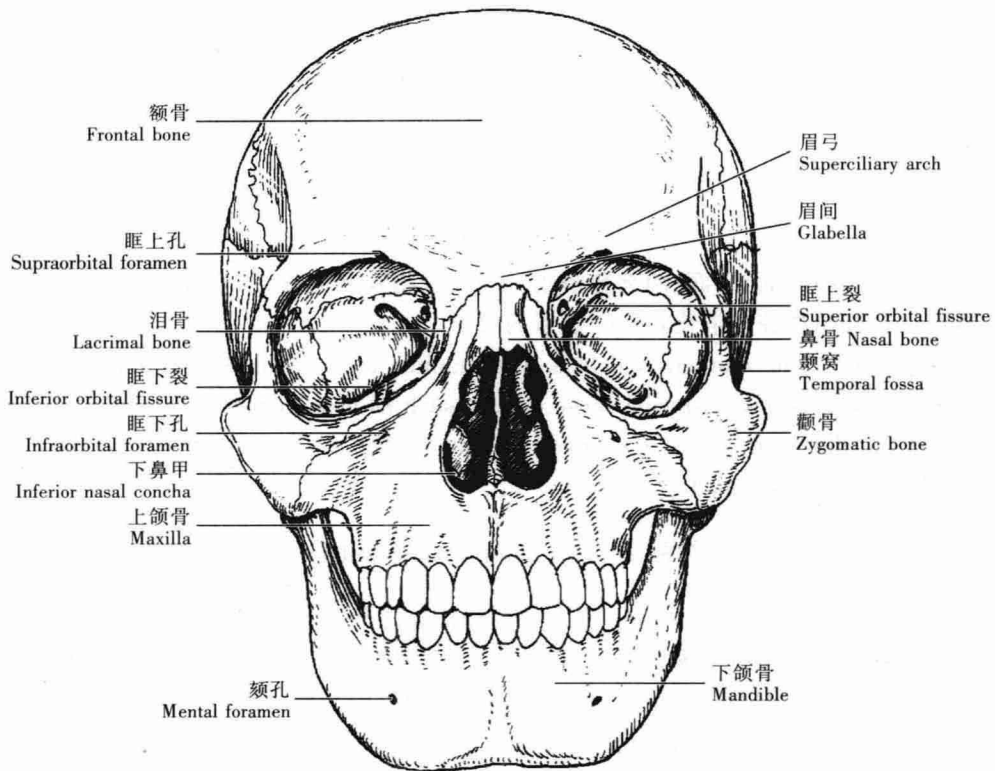


图 1-1 颅骨前面观

Fig. 1-1 Skull anterior aspect

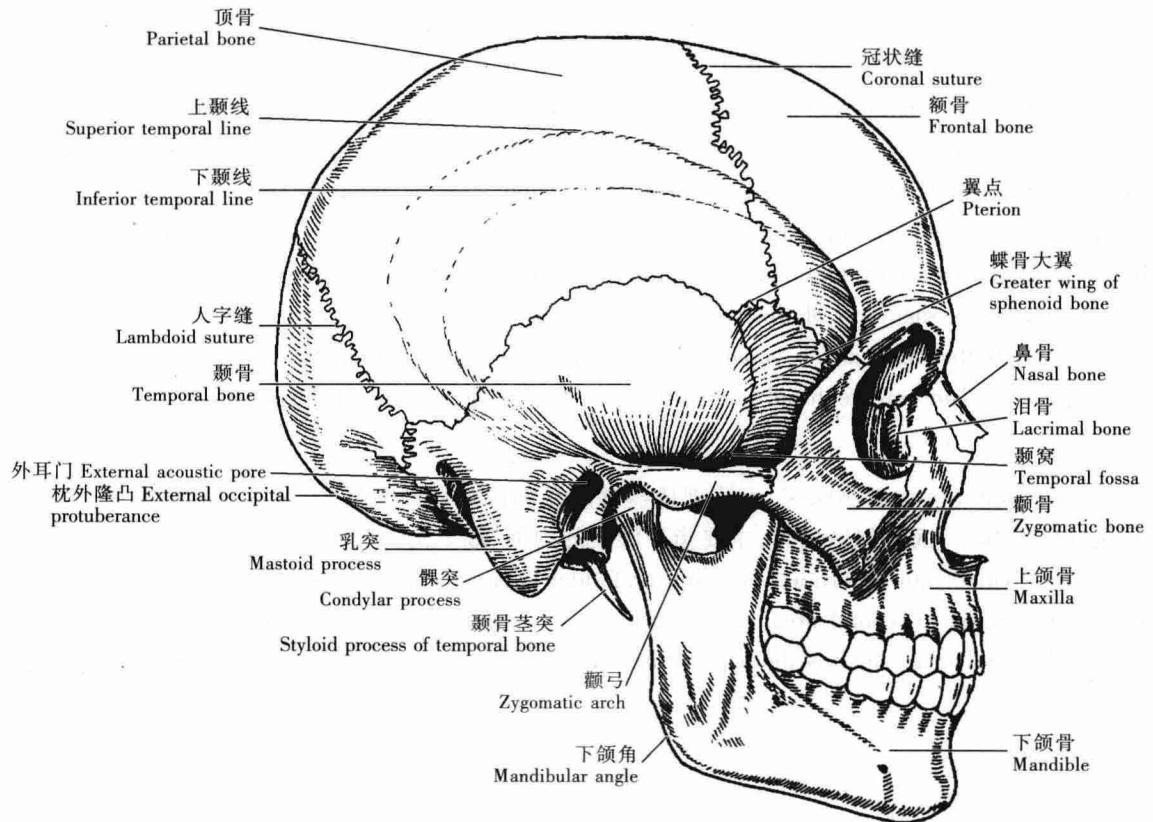


图 1-2 颅骨侧面观

Fig. 1-2 Skull lateral aspect