

OBJECT ATLAS OF HUMAN SYSTEMATIC ANATOMY

人体系统

(第三版)

解剖学实物图谱

主编 党瑞山 杨向群 张传森



第二军医大学出版社
Second Military Medical University Press

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Chief editors DANG Ruishan, YANG Xiangqun, ZHANG Chuansen



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内 容 简 介

《人体解剖学图谱》是医学生和临床医生学习和复习人体解剖学必不可少的重要工具书。《人体系统解剖学实物图谱》(第三版)以第二军医大学人体解剖学博物馆馆藏标本为依托,补充制作了部分标本,共收集 554 幅实物标本图片,以汉、英文双语标注,按照运动系统、消化系统、呼吸系统、泌尿系统、生殖系统、脉管学、感觉器、神经系统和内分泌器官排序。该书既可作为医学生人体解剖学辅助教材,亦可供解剖学教师、临床医生参考。

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PREFACE

Object Atlas of Human Anatomy is an important reference book for medical students to learn about human anatomy and clinicians to review human organ's morphological structure prior to surgery. Publishing a series of high-quality object atlas of human anatomy that suits medical students and doctors is the goal that we have pursued for many years. In order to achieve this target, the entire staff of Department of Anatomy of Second Military Medical University has gone through long-term arduous work compiling *Object Atlas of Human Systematic Anatomy* and *Object Atlas of Human Topographic Anatomy*. The former was published in 2005, followed by its second edition in 2010. This object atlas has been widely praised by mass medical students and anatomy peers, and played an important role in human anatomy teaching and improving the teaching quality. Today, the third edition's release deserves celebration.

The third edition of *Object Atlas of Human Systematic Anatomy* has the following distinctive features: firstly, the selected graphics in the atlas are all taken from real human anatomy specimens that are quality products resulting from the anatomy faculty's hard work since the establishment of Second Military Medical University in 1949 and embodying the wisdom and efforts of generations of human anatomy academics. It is worth mentioning that some young teachers and technicians who have worked in the department of anatomy since 1970s play a key role in the production of bottled specimens. They have produced exquisite and high-quality specimens that win unanimous praise from peers of anatomy in domestic medical colleges and teachers in their own department. Secondly, the order of graphics in the book is the same as the order of chapters in the national textbook, which is easy for students to make comparison and learn and teachers to take reference when preparing for lessons. This book is an ideal object specimen atlas of anatomy, especially for medical colleges in areas which are short of object specimens of human anatomy. Thirdly, many newly produced and shot high-quality graphics are added in addition to the original style of the second edition, enriching the contents. Fourthly, the Chinese and English anatomy terms for the structures in the book have been double checked against *Chinese Terms in Human Anatomy* (2014) recently revised by the China National Committee for Terms in Science and Technologies, so that the anatomy terms are more standardized. In short, this is an English-Chinese human anatomical structure atlas with rich contents and fine printing.

The publication of this book will not only provide medical students, doctors and anatomy peers with a practical reference book for learning, but also substantially enrich the important foundation medicine course of human anatomy.

Former Honorary President of Chinese Society for Anatomical Sciences

Former Chief Editor of Chinese Journal of Anatomy by Chinese Society for Anatomical Sciences

Former Head and Professor of Department of Anatomy of Second Military Medical University

HUANG Ying

October 2014

前言

人体解剖学是重要的基础医学课程之一。近年来,由于学生数量增加、人体标本来源不足等原因,造成学生实地解剖操作的机会大大减少,示教和实习标本的数量也不能满足教学的需求,因此,编写一本精美的人体解剖实物图谱对医学生的学习显得尤为重要。

第二军医大学解剖教研室自1949年成立以来,一贯重视人体解剖标本制作和人体解剖学博物馆建设。在历届教研室主任的带领下,在众多教员和技术人员的共同努力下,我室人体解剖学博物馆现有陈列标本1000余件,包括系统解剖学、局部解剖学、断层解剖学等瓶装标本,并配制了馆藏标本多媒体查询和演示系统,用于医学生的解剖学教学和临床医生外科手术前复习,极大地促进了解剖学教学,同时也满足了临床医生需求。为紧密配合教学,并补充解剖学教学标本和实物图谱之不足,2005年我们以人体解剖学博物馆系统解剖学瓶装标本为依托,补充制作了部分标本,编写了《人体系统解剖学实物图谱》。该版图谱问世以来,受到了国内外解剖学同行和医学生的好评,先后获2006年全国大学出版工作者学会颁发的畅销书一等奖和2009年华东地区大学出版社工作研究会颁发的优秀教材二等奖。2010年,我们对第一版图谱进行了修订,对原图谱中不足之处进行了处理(如全面调色、调整引线、改正个别错字等),使之更加完善,应用于我校医学生的人体解剖学教学,成为学生学习人体解剖学的必备教材之一。

在近年的解剖学教学实践中,我们发现第二版图谱收集的图片仍不够齐全,少数结构标注欠准确,解剖学术语与2014年版全国科学技术名词审定委员会公布的《人体解剖学名词》有些出入。为此,我们对第二版图谱进行了再次修订,更换了一些不够清晰的图片,新增图片57幅,使总图数达554幅。解剖学名词术语参照新版《人体解剖学名词》,以汉、英文双语标注,对书中出现频率较高的英文单词,如“joint, ligament, muscle, artery, vein, nerve”等(不分单、复数)一律采用“j., lig., m., a., v., n.”等缩写形式表示。标本颜色区分:动脉红色,静脉蓝色,神经黄色,以利于读者阅读。由于标本受到制作年代和制作水平、照相等诸多因素的影响,原始图片的色泽不够美观,因此作者在保留标本器官结构原始形态的基础上,用图像处理软件对图片进行了调色加工处理。

解剖标本不但要正确表述人体各器官的正常形态结构,而且还应具有工艺品性质,需要投入大量的技术力量。历年来,许多教员和技术人员为解剖标本建设付出了大量的心血;在本书前两版的编写过程中得到同济大学医学院、成都医学院、温州医学院和滨州医学院等兄弟院校解剖学教研室的支持和协助。在此,特向为该图谱出版献计献策和付出辛勤劳动的所有人员,尤其是我校解剖学教研室为解剖瓶装标本做出巨大贡献的老同志们致以深切的敬意和谢忱。

《人体系统解剖学实物图谱》从第一版到第三版历经十年,在岁月的消逝中得到了不断成熟和完善,在医学生的解剖学教学中发挥了重要的作用。由于编者的水平有限,在标本制作、照相和图片处理、结构标注上肯定还存在不足之处,敬请广大读者提出宝贵建议和意见,以便以后再版时改进和更正。

党瑞山 杨向群 张传森

2014年10月于上海

INTRODUCTION

Human anatomy is one of the important basic medical courses. Because of the increase of student number and intrinsic scarcity of human specimen in recent years, not only students have much fewer opportunities for hands-on anatomical operation, but also the number of specimens for demonstration and practice can no longer meet the teaching requirements. Therefore, a fine *Object Atlas of Human Anatomy* is especially important to medical students' learning.

Our university has consistently attached importance to production of human anatomy specimens and building of human anatomy museum since the Department of Anatomy of Second Military Medical University was established in 1949. With the leadership of all the previous department heads and the joint efforts from the teachers and technicians, our anatomy museum now possesses over 1000 specimens for display, including bottled specimens of systematic anatomy, topographic anatomy and sectional anatomy, as well as museum multimedia specimen query and demonstration system. These assets greatly facilitate anatomy teaching to medical students and clinicians' pre-surgery review. In order to assist teaching and supplement the deficiencies in anatomy teaching and object atlas, we produced some extra specimens on the basis of the bottled anatomy specimens in the human anatomy museum in 2005, and compiled *Object Atlas of Human Systematic Anatomy*. Since its publication, this edition of atlas has won the first prize of best-selling book awarded by Publishers Association of China in 2006 and the second prize of excellent textbook awarded by University Press Work Institute in East China in 2009, receiving praise from anatomy peers and medical students at home and abroad. In 2010, we revised the first edition atlas, processing the deficiencies in the original atlas (*e.g.* comprehensive color modulation, reference line adjustment, typo correction, *etc.*) so as to perfect it. The revised edition was applied in the teaching of human anatomy to our university's medical students, becoming one of the essential textbooks for them to study human anatomy.

During anatomy teaching practice in recent years, we found that the graphics collected in the second edition of atlas are not complete; a few structure labels are inaccurate; the anatomical terminology is slightly different from *Chinese Terms in Human Anatomy* published by the China National Committee for Terms in Science and Technologies in 2014, *etc.* Therefore, we revised the second edition of the atlas once again, replaced some graphics lacking in clarity, added 57 new graphics and brought the total number of graphics to 554. The anatomical terminology are in line with the *Chinese Terms in Human Anatomy* and labeled with both Chinese and English. Single and plural forms are not differentiated for some frequently used English words in this atlas such as "joint, ligament, muscle, artery, vein and nerve", and abbreviations such as "j., lig., m., a., v. and n." are consistently adopted to stand for them. The colors on the specimens are differentiated for ease of reading: red for arteries, blue for veins, and yellow for nerves. Considering the colors of the original pictures did not appeal to the eye due to the time the specimens were made, production level, photograph quality and various other factors, the editors managed to retain the original morphology of the specimen organs' structures while making use of image processing software to adjust the color.

Anatomical specimens not only need to accurately display the normal morphological structure of human organs, but also possess the nature of handicraft which requires a great deal of technical input. Many teachers and technicians have made efforts in the production of anatomical specimens over the years. The compilation of the previous two editions of this atlas received support and assistance from the department of anatomy of other institutions including Medical College of Tongji University, Chengdu Medical College, Wenzhou Medical College and Binzhou Medical College. We hereby extend our salutation and appreciation to all people who have contributed ideas and hard work to the publishing of this atlas, especially those senior colleagues in our department of anatomy who have produced the bottled anatomical specimens.

During the past decade from the first edition to the third, *Object Atlas of Human Systematic Anatomy* has been continuously perfected and improved as time went by, playing an important role in the anatomy teaching to medical students. As the editor may inevitably have deficiencies in specimen production, photography, image processing and structure marking, we would appreciate readers' valuable advice.

DANG Ruishan, YANG Xiangqun, ZHANG Chuansen
November 2014 in Shanghai

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第八章 神经系统

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