



MOVING COLOUR ATLAS OF HUMAN ANATOMY

主 编 幸健华 孟威宏 郭 洪
主 审 柏树令 张 昆

动态人体解剖彩色图谱



辽宁科学技术出版社

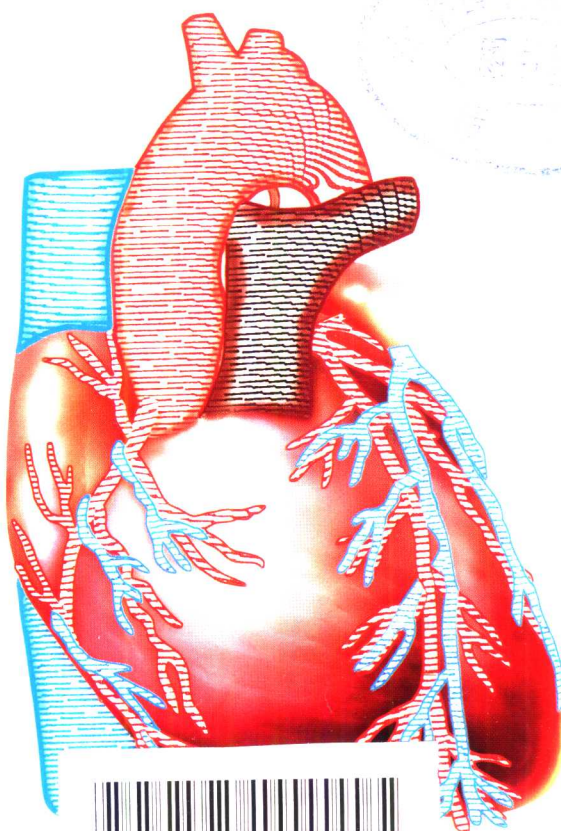
LIAONING SCIENCE AND TECHNOLOGY PUBLISHING HOUSE

R322-64
X474
2004
C.1

主编◎幸健华
孟威宏
郭 洪
主审◎柏树令
张 昆

MOVING
COLOUR ATLAS
OF HUMAN
ANATOMY

动态人体解剖 彩色图谱



00136555



辽宁科学技术出版社
中国·沈阳

图书在版编目 (CIP) 数据

动态人体解剖彩色图谱 / 幸健华, 孟威宏, 郭洪主
编. — 沈阳: 辽宁科学技术出版社, 2004.3

ISBN 7 - 5381 - 4119 - 7

I. 动... II. ①幸... ②孟... ③郭... III. 人体解
剖学—图谱 IV. R322 - 64

中国版本图书馆CIP数据核字 (2003) 第125387号

出 版 者: 辽宁科学技术出版社

(地址: 沈阳市和平区十一纬路25号 邮编: 110003)

印 刷 者: 辽宁美术印刷厂

发 行 者: 各地新华书店

开 本: 889毫米 × 1194毫米 1/16

字 数: 320千字

印 张: 16

插 页: 4

印 数: 1~3500

出版时间: 2004年3月第1版

印刷时间: 2004年3月第1次印刷

责任编辑: 宋纯智

封面设计: 刘 枫

版式设计: 于 浪

责任校对: 苏 敏 刘 莉 东 戈

定 价: 160.00 元

联系电话: 024-23284374

邮购咨询电话: 024-23284502

E-mail: lkzzb@mail.lnpgc.com.cn

http: www.lnkj.com.cn

主 编

幸健华 孟威宏 郭 洪

副 主 编

路贵友 李凤山 王 娟 龚启明

郭宏欣 刘德宝 魏晓辉

主 审

柏树令 张 昆

编 绘

(按姓氏笔画为序)

马健康	方海英	牛松青	牛海增	王 忱	王 娟
王 雷	王 磊	王允红	王永来	王柳行	邓宏林
左长茹	白丽梅	石岐兴	艾 阳	龙 岩	乔 峰
沈丽晖	刘 延	刘守泉	刘庆东	刘劲松	刘均达
刘洪伟	刘纯义	刘德宝	吕雁平	孙 玮	孙 勇
孙 悦	孙 晶	孙长俭	孙宇红	孙国生	安曙光
曲 辉	闫志辉	吴 琳	吴桂良	张 伟	张 洁
张习高	张玉和	张仲才	张宝良	张红梅	张英霞
李 丹	李 野	李 晶	李 雷	李凤山	李心欣
李立来	李彦明	李春田	李祥鹏	李艳阳	杨 俊
杨乐群	杨贵将	邱远东	陈 伟	陈小燕	周 勇
周 静	周 斌	周继军	周慧云	孟威宏	幸健华
房修樵	姚力萍	段小平	赵小平	赵正夫	赵进斌
赵锦荣	唐沈海	徐 冬	桑月红	贾玉喆	贾兴泰
贾建新	郭 力	郭 红	郭 洪	郭宏欣	陶 峰
常洪贤	曹延军	龚启明	程 芳	程理博	葛 晶
覃厚芳	谢爱国	路贵友	廖义林	廖家万	德 琳

魏克全 魏晓辉

标本制作

张玉和 张习高 陈 超

动图制作

幸健华 周晓光 田 敏

编著者名单

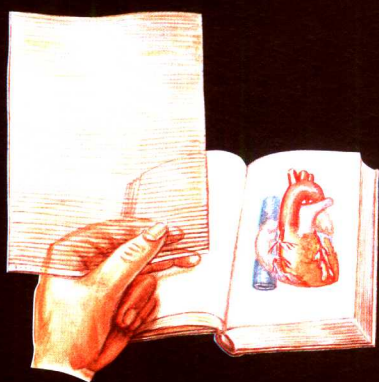
动态图操作 使用说明

动态图产生动感效果是由“光栅片”和“动感图”两者结合产生的。每部图谱的内封都附夹有一张透明片基，它上面印有平行且粗细均匀的黑色线条，我们称此片为“光栅片”；目录中凡标有※号的图称为“动感图”。将“光栅片”取下，覆盖在“动感图”上（图1），匀速、缓慢向下方拉动“光栅片”（图2），“动感图”便产生向不同方向流动的动感。“光栅片”覆盖在没有标※号的图上不会产生动感的。动感效果的好坏和内容正确与否须注意以下三点：

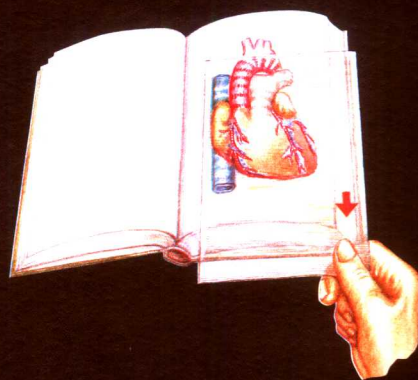
（1）“光栅片”覆盖在“动感图”上的线条方向一定是横向平行，竖直方向则根本不能产生动感，斜向则动感效果不佳或不正确。

（2）“光栅片”在“动感图”上的移动方向必须向下，向上也能产生动感，但动感效果与结构内容相反。

（3）向下拉动“光栅片”时，须匀速、缓慢进行，否则动感效果不佳。另外，务必保存和保护好“光栅片”，没有“光栅片”“动感图”是不能产生动感的，划伤“光栅片”会降低其透明度而影响动感效果。如果“光栅片”不慎丢失，可来函到出版社另行邮购。



（图1）



（图2）

作为人体解剖学园地的一位老园丁，我深情地关注着这个园地里的一花一草，一树一木。解剖学图谱，是这个园地里占有重要地位的一角，曾经孕育过许多五彩纷呈、格调清新的奇葩异果，美不胜收。争奇斗艳的图谱各具特色，或以绘图艺术见长，或以设计巧妙取胜。但是，迄今为止，还没有一部图谱能超凡脱俗，使静态的图像，产生动感效果。

“高楼晓见一花开，便觉春光四面来”，当幸健华、孟威宏、郭洪老师将《动态人体解剖彩色图谱》展现在我眼前时，用简易的“光栅动片”轻轻地一拉，“一波才动万波随”，波澜起伏的血液运转、淋巴返流、原尿滤过、神经传导等，韵味无穷地栩栩如生，让人大开眼界，大饱眼福，从中领悟到人体形态与功能水乳交融的奥秘。

“行成于思，业精于勤”，动态图谱创作人能从看似平常并不起眼的现象中，独具慧眼，找到了美妙的闪光亮点。从两把格尺重叠互动的效应，找到光学中光栅运动的理论依据。结合多年解剖学教学实践体会，精心设计，经过绳锯木断、水滴石穿的奋斗过程，终于荣获国家发明专利，形成了“独留巧思传千古”的新风格，难能可贵，可喜可贺，并欣之为序。

中国工程院院士
中国解剖学会名誉理事长

傅世镇

2003年9月于广州

序

前言

也许《动态人体解剖彩色图谱》这书名让您疑惑难解，图谱的“动态”之说更是不可思议。是的，国内国外解剖图谱众多，虽各有特色，但迄今尚无能产生动态效果的图谱，《动态人体解剖彩色图谱》不仅填补了这一空白，该项成果还获得了国家发明专利。所谓“动态”，是指图的内容能产生流动、扩散、旋转等多种形式的动感效果。您将图谱内封附夹的印有横线条的透明“光栅片”覆盖在内封的“心脏外形”图或目录中标有“※”号的画页上，匀速缓慢下移“光栅片”，您就会看到血液往不同方向流动、神经向不同部位传导等模拟动感效果。

众所周知，人体解剖学属形态学科，无论是临床医生还是医学院校的学生，掌握人体形态结构知识十分重要，而形态结构是功能的基础，将形态和功能两者相结合、形象生动地演示出来，是多年来从事形态学教育工作者的梦想。让学生在课堂教学中从抽象思维走向形象思维，以往只能在特定的教室借助于多媒体技术来完成，效果并不理想，三维动画演示，也不令人满意。在教与学的实践中，我们选定了让工具书图谱由静变动这一课题，经过五年的研究和一年多的手工绘制，完成了这部独具特色的，国内外首创的医学工具书——《动态人体解剖彩色图谱》。它像正常图谱一样使用，产生动感的操作方法简便，且动感效果十分逼真。如通过模拟，能演示一支动脉来自何方走向何处，由于血液的流动，突显了血管与周围器官的毗邻关系，对临床医生手术时是否可以结扎，介入治疗应如何调控导管插入方向均有理论上的帮助。通过模拟神经传导通路，使其神经换元和交叉的部位、传导束的传导方向都显示得栩栩如生，无疑对掌握理解神经系统中重难点内容既简化又形象，起到事半功倍的效果。可以说，该图谱的问世，必将成为广大临床医护工作者和医学院校师生的良师益友。

本图谱遵照国内高等医学院校解剖学教学大纲的要求,系统地展示了正常人体的形态、结构和部分生理功能,并根据目前医院先进诊疗技术设备所需要的相关知识,增添了部分局部解剖内容。在参阅了大量的国内外图谱和相关资料的基础上,结合动态表现形式,绘制了一些简洁明了的模式图,既突出了重点,又使系统解剖内容的触角延伸到基础医学的其它领域,真正体现人体解剖学纵向和横向间的联系。

本图谱按系统解剖学运动系统、消化系统、呼吸系统、泌尿生殖系统及腹膜、心血管系统、淋巴系统、感觉器、神经系统、内分泌系统等内容绘制编排,共有440幅图,分静图和动感图两部分,动感图按系统分别放在各系统中,并未单设,其目的是保持九大系统内容的完整性。动感图是采用作者的发明专利(专利号:ZL96115355·5,国际专利主分类号:B44F1/06)技术,将解剖学中一些适合用动态表现的内容用该技术制作完成,其演示方法请阅读本书的动态图操作使用说明。

出于图谱能尽早与读者见面之故,仍有一些可用动态图演示的内容已经设计出雏稿却未能绘制完成,这是作者的一大遗憾,只能在再版时加入,抛砖引玉,欢迎读者提出修改和增补内容的宝贵意见,使动态人体解剖彩色图谱更趋完善。

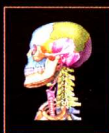
本图谱在研制过程中,得到了解剖界前辈钟世镇院士、柏树令教授、张昆教授的支持和勘误,得到了王令概教授、霍琨教授、中国医科大学医学美术教研室徐国成主任、刘枫老师和许多同仁的不吝指教,在此深表谢意。

由于我们的水平有限,不当之处在所难免,敬请读者批评斧正,以便再版时修改。

编者

2004年3月1日

前言



运动系统 LOCOMOTOR SYSTEM

目 录

1. 人体骨骼 (前面观) The human skeleton (anterior aspect)	002
2. 人体骨骼 (后面观) The human skeleton (posterior aspect)	003
3. 骨的构造 Structure of the bones	004
4. 脊柱 (前面观) The spinal column (anterior aspect)	005
5. 脊柱 (后面观) The spinal column (posterior aspect)	005
6. 脊柱 (外侧面观) The spinal column (lateral aspect)	005
7. 颈椎的形态 The morphology of the cervical vertebrae	006
8. 胸椎的形态 The morphology of the thoracic vertebrae	006
9. 腰椎的形态 The morphology of the lumbar vertebrae	006
10. 骶骨 (前面观) The sacrum (anterior aspect)	007
11. 尾骨 (前面观) The coccyx (anterior aspect)	007
12. 骶骨 (后面观) The sacrum (posterior aspect)	007
13. 尾骨 (后面观) The coccyx (posterior aspect)	007
14. 颅 (前面观) The skull (anterior aspect)	008
15. 新生儿颅 (上面观) The skull of a newborn infant (superior aspect)	008
16. 颅 (外侧面观) The skull (lateral aspect)	009
17. 新生儿颅 (外侧面观) The skull of a newborn infant (lateral aspect)	009
18. 颅底 (外面观) The base of the skull (external aspect)	010
19. 颅底 (内面观) The base of the skull (internal aspect)	011
20. 颅 (正中矢状切面) The skull (median sagittal section)	012
21. 颅 (上面观) The skull (superior aspect)	012
22. 颅 (后面观) The skull (posterior aspect)	012
23. 头颈部骨架 (侧面观) Bony framework of head and neck (lateral aspect)	013
24. 骨性鼻腔外侧壁 (1) The lateral wall of the bony nasal cavity (1)	014
25. 骨性鼻腔外侧壁 (2) The lateral wall of the bony nasal cavity (2)	014
26. 颅冠状切面 (前面观) Coronary section of the skull (anterior aspect)	014
27. 下颌骨 (外侧面观) The mandible (lateral aspect)	014
28. 舌骨 The hyoid bone	014
29. 额骨 (前面观) The frontal bone (anterior aspect)	015
30. 额骨 (下面观) The frontal bone (inferior aspect)	015
31. 颞骨 (外面观) The temporal bone (external aspect)	015
32. 颞骨 (内面观) The temporal bone (internal aspect)	015
33. 蝶骨 (前面观) The sphenoid bone (anterior aspect)	016
34. 蝶骨 (后面观) The sphenoid bone (posterior aspect)	016
35. 枕骨和蝶骨 (上面观) The occipital bone and sphenoid bone (superior aspect)	016
36. 腭骨 (后面观) The palatine bone (posterior aspect)	016
37. 腭骨 (内面观) The palatine bone (internal aspect)	016
38. 筛骨 (下面观) The ethmoid bone (inferior aspect)	017
39. 筛骨 (后面观) The ethmoid bone (posterior aspect)	017
40. 上颌骨 (外面观) The maxilla (external aspect)	017
41. 上颌骨 (内面观) The maxilla (internal aspect)	017
42. 右上肢骨 (前面观) The bones of the right upper limb (anterior aspect)	018
43. 肩和肘部骨的肌肉附着点 (前面观) Bony attachments of muscles of shoulder and elbow (anterior aspect)	018
44. 肩和肘部骨的肌肉附着点 (后面观) Bony attachments of muscles of shoulder and elbow (posterior aspect)	018
45. 右锁骨 (上面观) The right clavicle (superior aspect)	019
46. 右锁骨 (下面观) The right clavicle (inferior aspect)	019
47. 右肩胛骨 (前面观) The right scapula (anterior aspect)	019
48. 右肩胛骨 (后面观) The right scapula (posterior aspect)	019
49. 肱骨 (前面观) The humerus (anterior aspect)	020
50. 肱骨 (后面观) The humerus (posterior aspect)	020
51. 桡骨和尺骨 (前面观) The radius and ulna (anterior aspect)	021
52. 桡骨和尺骨 (后面观) The radius and ulna (posterior aspect)	021
53. 手骨 (掌侧面) The bones of the hand (palmar aspect)	022

目 录

54. 手骨 (背侧面) The bones of the hand (dorsal aspect)	022
55. 右下肢骨 (前面观) The bones of the right lower limb (anterior aspect)	023
56. 髋和大腿部骨的肌肉附着点 (前面观) Bony attachments of muscles of hip and thigh (anterior aspect)	023
57. 髋和大腿部骨的肌肉附着点 (后面观) Bony attachments of muscles of hip and thigh (posterior aspect)	023
58. 髌骨 (内面观) The hip bone (internal aspect)	024
59. 髌骨 (外面观) The hip bone (external aspect)	024
60. 男性骨盆 (上面观) Male pelvis (superior aspect)	024
61. 股骨 (前面观) The femur (anterior aspect)	025
62. 股骨 (后面观) The femur (posterior aspect)	025
63. 髌骨 (前面观) The patella (anterior aspect)	026
64. 髌骨 (后面观) The patella (posterior aspect)	026
65. 胫骨和腓骨 (前面观) The tibia and fibula (anterior aspect)	026
66. 胫骨和腓骨 (后面观) The tibia and fibula (posterior aspect)	026
67. 足骨 (背侧面) Bones of the foot (dorsal aspect)	027
68. 足骨 (跖面观) Bones of the foot (plantar aspect)	027
69. 骨的连结 (模式图) The osseous joint (diagram)	028
70. 椎骨间连结 (正中矢状切面) The intervertebral joints (median sagittal section)	029
71. 椎骨间连结 (前面观) The intervertebral joints (anterior aspect)	029
72. 椎间关节和椎间盘 (水平切面) The intervertebral joint and intervertebral disc (horizontal section)	029
73. 第二颈椎到第一胸椎 (右侧面观) 2nd cervical to 1st thoracic vertebrae (right lateral aspect)	030
74. 上部颈椎 (后上面观) Upper cervical vertebrae (posterosuperior aspect)	030
75. 寰枕和寰枢关节 (后面观) The atlantooccipital joint and atlantoaxial joint (posterior aspect)	030
76. 颅与颈椎的连结 (前面观) The craniocervical vertebrae joints (anterior aspect)	030
77. 颅与颈椎的连结 (后面观) The craniocervical vertebrae joints (posterior aspect)	030
78. 项韧带 (右侧面观) Ligamentum nuchae (right lateral aspect)	030
79. 第二肋 Second rib	031
80. 第一肋 First rib	031
81. 第七肋 Seventh rib	031
82. 胸骨 (前面观) The sternum (anterior aspect)	031
83. 第一胸肋软骨结合 The first sternocostal synchondrosis	031
84. 胸廓 (前面观) The thorax (anterior aspect)	032
85. 肩关节 (前面观) The shoulder joint (anterior aspect)	033
86. 肩关节 (内面观, 去掉肱骨) The shoulder joint (internal aspect, with out humerus)	033
87. 肩关节 (冠状切面) The shoulder joint (coronal section)	033
88. 肘关节 (前面观) The elbow joint (anterior aspect)	034
89. 肘关节矢状切面 (示肱尺关节) Sagittal section of the elbow joint (showing the humeroulnar joint)	034
90. 前臂骨的连结 (前面观) The radioulnar syndesmosis (anterior aspect)	034
91. 手关节 (掌面观) The joints of the hand (palmar aspect)	035
92. 腕的韧带 (背侧面观) The ligaments of the wrist (dorsal aspect)	035
93. 腕关节 (冠状切面) The joints of the wrist (coronal section)	035
94. 右髋关节 (前面观) The right hip joint (anterior aspect)	036
95. 右髋关节 (后面观) The right hip joint (posterior aspect)	036
96. 切开关节囊 (示髋关节内面) The opened articular capsule (showing the internal surface of the hip joint cavity)	036
97. 髋关节 (冠状切面) The hip joint (coronal section)	036
98. 骨盆的韧带 (前面观) The ligaments of the pelvis (anterior aspect)	037
99. 骨盆的韧带 (后面观) The ligaments of the pelvis (posterior aspect)	037
100. 膝关节 (前面观) The knee joint (anterior aspect)	037
101. 膝关节 (后面观) The knee joint (posterior aspect)	037
102. 膝关节前面观 (切除关节囊) The anterior aspect of the knee joint (without the articular capsule)	038
103. 膝关节后面观 (切除关节囊) The posterior aspect of the knee joint (without the articular capsule)	038
104. 切开关节囊前部 (示膝关节腔内面) The anterior aspect of the opened articular capsule (showing the internal surface of the knee joint cavity)	038
105. 膝关节半月板和交叉韧带 (上面观) The articular meniscus and cruciate ligament of the knee joint (superior aspect)	038
106. 小腿骨连结 (前面观) The tibiofibular syndesmosis (anterior aspect)	039
107. 距小腿关节和足关节 (外侧面观) The talocrural joint and the joints of foot (lateral aspect)	039
108. 足关节 (水平切面) The joints of foot (horizontal section)	039
109. 足底的韧带 The plantar ligaments	039

目 录

110. 肌的形态 The morphology of the muscles	040
111. 头肌 (前面观) Muscles of the head (anterior aspect)	041
112. 头颈肌浅层 (外侧面观) Superficial layer of the muscles of the head and neck (lateral aspect)	042
113. 颈肌 (前面观) Muscles of the neck (anterior aspect)	042
114. 颈肌 (外侧面观) The muscles of neck (lateral aspect)	043
115. 颈深肌群 (前面观) Cervical deep muscles group (anterior aspect)	043
116. 胸、腹壁肌 (前面观) Muscles of the thorax and abdominal wall (anterior aspect)	044
117. 腹后壁肌及膈 (前面观) Muscles of the posterior abdominal wall and the diaphragm (anterior aspect)	044
118. 膈 (胸腔面) The diaphragm (thoracic surface)	045
119. 膈 (腹腔面) The diaphragm (abdominal surface)	045
120. 腹前壁 (内面观) Anterior abdominal wall (internal aspect)	046
121. 腹股沟区 (1) Inguinal region (1)	047
122. 腹股沟区 (2) Inguinal region (2)	047
123. 腹股沟区 (3) Inguinal region (3)	047
124. 腹股沟三角 (内面观) Inguinal triangle (internal aspect)	047
125. 背肌 Muscles of the back	048
126. 上肢肌 (前面观) (1) Muscles of the upper limb (anterior aspect) (1)	049
127. 上肢肌 (前面观) (2) Muscles of the upper limb (anterior aspect) (2)	049
128. 上肢肌 (外侧面观) Muscles of the upper limb (lateral aspect)	050
129. 上肢肌 (后面观) Muscles of the upper limb (posterior aspect)	050
130. 手掌侧肌 Palmar muscles of the hand	051
131. 手掌侧腱鞘 The tendinous sheaths of the palmar side of the hand	051
132. 手背侧肌 Dorsal muscles of the hand	052
133. 手背侧腱鞘 The tendinous sheaths of the dorsal side of the hand	052
134. 下肢肌 (前面观) Muscles of the lower limb (anterior aspect)	053
135. 下肢肌 (外侧面观) Muscles of the lower limb (lateral aspect)	053
136. 下肢肌深层 (后面观) Deep layer of the muscles of the lower limb (posterior aspect)	054
137. 足腱鞘 (上面观) The tendinous sheaths of the foot (superior aspect)	054
138. 足底肌 (1) Plantar muscles (1)	055
139. 足底肌 (2) Plantar muscles (2)	055
140. 女会阴肌 Muscles of the female perineum	056
141. 男会阴肌 Muscles of the male perineum	056



消化系统 DIGESTIVE SYSTEM

142. 消化系统全貌※ General arrangement of the digestive system	058
143. 口腔结构 (1) Structure of the oral cavity (1)	059
144. 口腔结构 (2) Structure of the oral cavity (2)	059
145. 腮腺、下颌下腺和舌下腺 The parotid gland, submandibular gland and sublingual gland	061
146. 上颌恒牙的排列 (下面观) Arrangement of the permanent teeth of maxilla (inferior aspect)	061
147. 下颌恒牙的排列 (上面观) Arrangement of the permanent teeth of mandible (superior aspect)	061
148. 左侧上、下颌恒牙 left upper and lower permanent teeth	
149. 牙的构造 (模式图)※ The structure of the teeth (diagram)	
150. 咽与鼻、口、喉的交通 (正中矢状切面) Connection of the pharynx and nose, mouth, larynx (median sagittal section)	062
151. 咽腔 (后面观) The pharyngeal cavity (posterior aspect)	063
152. 咽肌 (后面观) The pharyngeal muscles (posterior aspect)	064
153. 食管的位置及毗邻 Position and neighbourhood of the esophagus	065
154. 胃肌 The muscles of the stomach	065
155. 胃腔 The cavity of the stomach	065
156. 结肠 (外面观) The colon (external aspect)	066
157. 回肠 The ileum	066
158. 空肠 The jejunum	066
159. 回盲部 (内面观) The ileocecal part (internal aspect)	066
160. 直肠和肛管的肌肉 Muscles of the rectum and the anal canal	066
161. 直肠 (冠状切面) The rectum (coronal section)	067
162. 肝 (前面观) The liver (anterior aspect)	067

163. 肝 (下面观) The liver (inferior aspect)
164. 输胆管道及开口 (前面观) ※ The bile passage and its opening (anterior aspect)



呼吸系统 RESPIRATORY SYSTEM

165. 呼吸系统全貌 General arrangement of respiratory system
166. 骨性鼻腔外侧壁 (示鼻旁窦的开口) The lateral wall of the bony nasal cavity (showing the apertures of the paranasal sinuses)
167. 鼻旁窦的开口 The openings of paranasal sinuses
168. 喉软骨和韧带 (前面观) The cartilages and ligaments of larynx (anterior aspect)
169. 喉软骨和韧带 (后面观) The cartilages and ligaments of larynx (posterior aspect)
170. 喉软骨和韧带 (外侧面观) (1) The cartilages and ligaments of larynx (lateral aspect) (1)
171. 喉软骨和韧带 (外侧面观) (2) The cartilages and ligaments of larynx (lateral aspect) (2)
172. 喉腔 (后面观) The laryngeal cavity (posterior aspect)
173. 喉腔冠状切面 (后面观) Coronal section through the laryngeal cavity (posterior aspect)
174. 喉肌 (后面观) Muscles of the larynx (posterior aspect)
175. 喉肌 (外侧面观) Muscles of the larynx (lateral aspect)
176. 喉口 (后面观) The inlet of the larynx (posterior aspect)
177. 通过声带的喉横切面 A transverse section of larynx through the level of vocal folds
178. 喉腔的喉镜所见 Laryngoscope view of laryngeal cavity
179. 右肺 (内侧面观) Right lung (medial aspect)
180. 左肺 (内侧面观) Left lung (medial aspect)
181. 支气管肺段 (外面观) Bronchopulmonary segments (lateral aspect)
182. 支气管肺段 (内面观) Bronchopulmonary segments (medial aspect)
183. 支气管肺段 (前面观) Bronchopulmonary segments (anterior aspect)
184. 支气管肺段 (后面观) Bronchopulmonary segments (posterior aspect)
185. 纵隔 (右外侧观) The mediastinum (right lateral aspect)
186. 纵隔 (左外侧观) The mediastinum (left lateral aspect)



泌尿生殖系统及腹膜 UROGENITAL SYSTEM AND PERITONEUM

187. 泌尿生殖系统概观 General arrangement of the urogenital system
188. 腹后壁 (示肾及输尿管的位置) Posterior abdominal wall (showing the kidneys and ureters in site)
189. 肾的位置和毗邻 (后面观) The position and neighbourhood of the kidneys (posterior aspect)
190. 肾动脉和静脉的位置 The position of renal artery and vein
191. 右肾冠状切面 (后面观) Coronal section of the right kidney (posterior aspect)
192. 肾筋膜模式图 (经右肾矢状切面) Diagram of renal fascia (sagittal section through right kidney)
193. 肾筋膜模式图 (经第二腰椎横切面) Diagram of renal fascia (transverse section through 2nd lumbar vertebra)
194. 肾的位置和毗邻 (前面观) The position and neighbourhood of the kidneys (anterior aspect)
195. 肾段动脉模式图 Diagram of renal segmental arteries
196. 右睾丸、附睾及被膜 The right testis, epididymis and their coverings
197. 睾丸内部结构模式图 Diagram showing structure of testis
198. 膀胱及男性尿道前列腺部 (正中矢状切面) The bladder and the prostatic part of the male urethra (median sagittal section)
199. 膀胱、前列腺及精囊 (后面观) The urinary bladder, prostate and seminal vesicle (posterior aspect)
200. 阴茎 (尿道面) The penis (urethral surface)
201. 阴茎 (正中矢状切面) The penis (median sagittal section)
202. 阴茎的海绵体 Cavernous bodies of penis
203. 男性盆腔 (正中矢状切面) Male pelvic cavity (median sagittal section)
204. 女性盆腔 (正中矢状切面) Female pelvic cavity (median sagittal section)
205. 女盆腔结构 (上面观) Pelvic cavity structure of female (superior aspect)
206. 女性盆腔器官 (前上面观) Pelvic organs of female (anterosuperior aspect)
207. 女性外生殖器 Female external genital organs

067
068

069

070

071

071

072

072

072

072

073

073

073

073

074

074

074

074

074

075

075

076

076

077

078

目 录

079

080

081

082

082

083

083

083

084

084

085

085

085

085

085

085

085

086

086

086

087

087

088

088

089

目 录

208. 前庭球和前庭大腺 The bulb of vestibule and the greater vestibular gland	089
209. 乳房 The mamma	090
210. 乳房矢状切面模式图 Diagram of the sagittal section of the mamma	090
211. 男性盆腔冠状切面 (示尿生殖膈及盆膈) Coronal section of male pelvis cavity (showing urogenital diaphragm and pelvic diaphragm)	090
212. 女性盆腔冠状切面 (示尿生殖膈及盆膈) Coronal section of female pelvis cavity (showing urogenital diaphragm and pelvic diaphragm)	090
213. 子宫的动脉和静脉※ Arteries and veins of uterus	090
214. 女性内生殖器 (冠状切面) Female internal genital organs (coronal section)	091
215. 肾单位结构模式图※ The diagram of the structure of the nephron	092
216. 肾小体结构模式图※ The diagram of the structure of the renal corpuscle	093
217. 小网膜和大网膜 Lesser omentum and greater omentum	094
218. 小网膜和胃 The lesser omentum and stomach	095
219. 网膜囊 Omental bursa	095
220. 腹后壁腹膜的配布 Distribution of the peritoneum on the posterior abdominal wall	096
221. 腹后壁腹膜的配布 (示系膜根) Distribution of the peritoneum on the posterior abdominal wall (showing the radix of mesentery)	096
222. 男性盆腔冠状切面 Coronal section of male pelvic cavity	097
223. 女性盆腔冠状切面 Coronal section of female pelvic cavity	097
224. 女性腹腔 (正中矢状切面) Female abdominal cavity (median sagittal section)	098



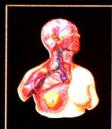
心血管系统 CARDIOVASCULAR SYSTEM

225. 心脏的位置及毗邻 Position and neighbourhood of the heart	100
226. 心包及其毗邻器官 Pericardium and its neighbouring organs	101
227. 心脏的外形和血管 (前面观) Outline of the heart and its blood vessels (anterior aspect)	102
228. 心脏的外形和血管 (后面观) Outline of the heart and its blood vessels (posterior aspect)	102
229. 心脏的血管 (胸肋面)※ The blood vessels of the heart (sternocostal surface)	103
230. 心脏的血管 (心底面观)※ The blood vessels of the heart (cardiac base aspect)	104
231. 右心房 (内面观) The right atrium (internal aspect)	105
232. 右心室 (内面观) The right ventricle (internal aspect)	105
233. 室间隔 (切面) Interventricular septum (section)	106
234. 左心房和左心室 (内面观) The left atrium and left ventricle (internal aspect)	106
235. 左心室 (内面观) The left ventricle (internal aspect)	106
236. 心脏的瓣膜 (上面观) (1) Cardiac valves (superior aspect) (1)	107
237. 心脏的瓣膜 (上面观) (2) Cardiac valves (superior aspect) (2)	107
238. 大小循环示意图※ Diagram illustrating the greater and the lesser circulation	108
239. 心脏传导系统 (右内面观)※ Conduction system of the heart (right internal aspect)	109
240. 心脏传导系统 (左内面观)※ Conduction system of the heart (left internal aspect)	109
241. 心包腔 The pericardial cavity	110
242. 心瓣膜的体表投影 The surface projection of the valves of the heart	110
243. 头、颈部动脉※ Arteries of the head and neck	111
244. 颈内动脉和椎动脉※ The internal carotid artery and the vertebral artery	112
245. 面部主要血管 Chief blood vessels of the face	113
246. 锁骨下动脉和腋动脉 The subclavian artery and the axillary artery	113
247. 腋动脉和肩胛动脉吻合 (前面观)※ Axillary artery and anastomoses around scapula (anterior aspect)	114
248. 腋动脉和肩胛动脉吻合 (后面观)※ Axillary artery and anastomoses around scapula (posterior aspect)	114
249. 臂的动脉 (前面观) Arteries of arm (anterior aspect)	115
250. 臂的动脉 (后面观) Arteries of arm (posterior aspect)	115
251. 肱动脉和肘关节血管吻合 (模式图)※ Brachial artery and anastomoses around elbow (diagram)	116
252. 前臂动脉 (前面观) Arteries of forearm (anterior aspect)	117
253. 前臂动脉 (后面观) Arteries of forearm (posterior aspect)	117
254. 右手掌面动脉 (浅层)※ Arteries of the palm of right hand (superficial layer)	118
255. 右手掌面动脉 (深层)※ Arteries of the palm of right hand (deep layer)	119
256. 胸主动脉及其分支 Thoracic aorta and its branches	120
257. 腹主动脉分支 Branches of the abdominal aorta	121
258. 腹腔干及其分支 (1) Celiac trunk and its branches (1)	122
259. 腹腔干及其分支 (2) Celiac trunk and its branches (2)	122

089
090
090
090
090
090
091
092
093
094
095
095
096
096
097
097
098

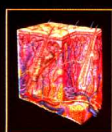
100
101
102
102
103
104
105
105
106
106
106
107
107
108
109
109
110
110
111
112
113
113
114
114
115
115
116
117
117
118
119
120
121
122
122

260. 腹腔干及其分支(模式图)※ Celiac trunk and its branches (diagram)	123
261. 异常肝左动脉(模式图)※ Abnormal left hepatic artery (diagram)	123
262. 肠系膜上动脉和肠系膜下动脉及其分支※ The superior mesenteric artery and inferior mesenteric artery and their branches	124
263. 小肠动脉※ Arteries of small intestine	125
264. 男性盆腔的动脉(正中矢状切面)※ Arteries of the male pelvic cavity (median sagittal section)	126
265. 女性盆腔的动脉(正中矢状切面)※ Arteries of the female pelvic cavity (median sagittal section)	127
266. 下肢动脉模式图(前面观)※ The diagram of the lower limb artery (anterior aspect)	128
267. 大腿和膝的动脉(模式图)※ Arteries of thigh and knee (diagram)	128
268. 大腿的动脉和神经(前面观)※ Arteries and nerves of thigh (anterior aspect)	129
269. 大腿的动脉(前面观): 深层※ Arteries of thigh (anterior aspect): deep layer	129
270. 股骨头和股骨颈的动脉※ Arteries of femoral head and neck	130
271. 股骨头和股骨颈的动脉※ Arteries of femoral head and neck	130
272. 小腿的动脉(前面观)※ Arteries of leg (anterior aspect)	131
273. 足背的动脉※ Dorsal arteries of foot	131
274. 小腿的动脉(后面观): 深层 Arteries of leg (posterior aspect): deep layer	132
275. 小腿的血管(后面观) Blood vessels of the leg (posterior aspect)	132
276. 足底的动脉※ Plantar arteries of foot	132
277. 头颈部的静脉※ Veins of the head and neck	133
278. 颅内、外静脉的交通※ Communications between intracranial and extracranial veins	134
279. 上肢浅静脉(前面观) Superficial veins of the upper limb (anterior aspect)	135
280. 上肢浅静脉(后面观) Superficial veins of the upper limb (posterior aspect)	135
281. 臂部浅静脉(前面观)※ Superficial veins of the arm (anterior aspect)	136
282. 前臂浅层静脉(前面观)※ Superficial veins of the forearm (anterior aspect)	137
283. 前臂浅层静脉(后面观)※ Superficial veins of the forearm (posterior aspect)	137
284. 下腔静脉及其属支※ The inferior vena cava and its tributaries	138
285. 大隐静脉※ The great saphenous vein	139
286. 小隐静脉※ The small saphenous vein	139
287. 下肢浅层静脉(前面观)(1)※ The superficial veins of the lower limb (anterior aspect) (1)	140
288. 下肢浅层静脉(前内面观)(2)※ The superficial veins of the lower limb (anteromedial aspect) (2)	141
289. 小隐静脉※ The small saphenous vein	141
290. 肝门静脉及其属支※ Hepatic portal vein and its tributaries	142
291. 肝门静脉及其属支(模式图)※ Hepatic portal vein and its tributaries (diagram)	143
292. 肝门静脉和门腔静脉吻合(模式图)※ Hepatic portal vein and portacaval anastomosis (diagram)	144



淋巴系统 LYMPHATIC SYSTEM

293. 颈部深层、腋窝、乳腺的淋巴管和淋巴结 The lymphatic vessels and the lymph nodes of the deep cervical and the axilla and the mammary glands	146
294. 气管、支气管及肺的淋巴管和淋巴结※ The lymph vessels and the lymph nodes of the trachea, the bronchi and the lungs	147
295. 胸腔脏器的淋巴管和淋巴结※ The lymph vessels and the lymph nodes of the thoracic viscerae	148
296. 体腔后壁的静脉和淋巴回流图※ Veins and lymph vessels on the internal aspect of the dorsal abdominal wall	149
297. 胃的淋巴(前面观) Lymph of stomach (anterior aspect)	150
298. 胃的淋巴(后面观) Lymph of stomach (posterior aspect)	150
299. 上肢浅部淋巴管和淋巴结 Superficial lymphatic vessels and lymph nodes of the upper limb	151
300. 下肢浅部淋巴管和淋巴结 Superficial lymphatic vessels and lymph nodes of the lower limb	151
301. 脾(膈面) Spleen (diaphragmatic surface)	152
302. 脾(脏面) Spleen (visceral surface)	152

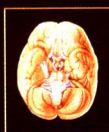


感觉器 SENSORY ORGANS

303. 眼球水平切面(模式图) Horizontal section of the eyeball (diagram)	154
304. 眼球前部水平切面 Horizontal section of the anterior part of the eyeball	154

目 录

305. 眼底的眼底镜所见 (左侧) Ophthalmoscopic view of fundus of eyeball (left side)	155
306. 虹膜、睫状体及晶状体 (后面观) Iris, ciliary body and lens (posterior aspect)	155
307. 眼球的动脉供应及静脉回流 (模式图) ※ Arteries supply and venous drainage of the eyeball (diagram)	156
308. 泪器 (右侧) The lacrimal apparatus (right side)	157
309. 眼球外肌 (外侧面观) The extraocular muscles (lateral aspect)	157
310. 眼球外肌 (上面观) The extraocular muscles (superior aspect)	157
311. 位听器模式图 (右侧) Diagram of the organs of the hearing and equilibration (right side)	158
312. 乳突、乙状窦和面神经的关系 Relations of the mastoid process, sigmoid sinus and the facial nerve	158
313. 右侧鼓膜 (外侧面观) Right tympanic membrane (lateral aspect)	158
314. 右侧听小骨 Right auditory ossicles	158
315. 鼓室内侧壁 (右侧) Medial wall of the tympanic cavity (right side)	159
316. 鼓室外侧壁 (右侧) Lateral wall of the tympanic cavity (right side)	159
317. 右侧骨迷路及膜迷路 (前外侧侧面) Right bony labyrinth and membranous labyrinth (anterolateral aspect)	159
318. 右侧骨迷路 (内侧面观) Right bony labyrinth (internal aspect)	159
319. 右侧膜迷路 (后内侧侧面) Right membranous labyrinth (posteromedial aspect)	160
320. 耳蜗断面 The section of cochlea	160
321. 迷路的血管 ※ Blood vessels of the labyrinth	160
322. 前庭蜗器和外淋巴 ※ Vestibulocochlear organ and perilymph	161
323. 皮肤的构造 (模式图) The structure of the skin (diagram)	162



神经系统 NERVOUS SYSTEM

324. 神经元的类型 Types of the neuron	164
325. 神经元的结构 (电镜模式图) Structure of the neuron (diagram of electron microscope)	164
326. 脊髓颈段横切面 Transverse section through cervical segment of spinal cord	165
327. 脊髓的细胞构筑分层 Cytoarchitectonic layers of the spinal cord	165
328. 脊髓的被膜 (后面观) Meninges of the spinal cord (posterior aspect)	166
329. 脊髓和脊神经根 Spinal cord and roots of spinal nerves	167
330. 脊髓的血管 Blood vessels of spinal cord	168
331. 脊髓的静脉 Veins of spinal cord	168
332. 脊髓的动脉 ※ Arteries of spinal cord	169
333. 脑底面 Basal surface of the brain	170
334. 脑外侧侧面 Lateral surface of the brain	171
335. 大脑底面 The inferior surface of cerebrum	171
336. 脑的正中矢状面 (1) Median sagittal section of the brain (1)	172
337. 脑的正中矢状面 (2) Median sagittal section of the brain (2)	172
338. 脑干 (背面观) Brain stem (dorsal aspect)	173
339. 脑干的脑神经核 (模式图) ※ Cranial nuclei in brainstem (diagram)	174
340. 延髓尾部水平切面 (经锥体交叉) Horizontal section of the caudal part of the medulla oblongata (through the pyramidal decussation)	175
341. 延髓水平切面 (经内侧丘系交叉) Horizontal section of the medulla oblongata (through the decussation of the medial lemniscus)	175
342. 延髓水平切面 (经橄榄中部) Horizontal section of the medulla oblongata (through the middle part of the olive)	176
343. 延髓水平切面 (经橄榄上部) Horizontal section of the medulla oblongata (through the superior part of the olive)	176
344. 脑桥水平切面 (经脑桥中、下部) Horizontal section of the pons (through the middle, inferior part of the pons)	177
345. 脑桥水平切面 (经脑桥中部) Horizontal section of the pons (through the middle part of the pons)	177
346. 脑桥水平切面 (经脑桥上部) The horizontal section of the pons (through the superior part of pons)	178
347. 中脑水平切面 (经下丘) The horizontal section of midbrain (through the inferior colliculus)	178
348. 中脑水平切面 (经上丘颅侧部) The horizontal section of midbrain (through the cranial part of superior colliculus)	179
349. 中脑上端与间脑之间水平切面 (经后连合) The horizontal section between superior mesencephalic extremity and diencephalon (through posterior commissure)	179
350. 小脑 (上面观) Cerebellum (superior aspect)	180

目 录

351. 小脑 (下面观) Cerebellum (inferior aspect)	180
352. 小脑和脑干 (背面观) The cerebellum and the brain stem (dorsal aspect)	180
353. 小脑深核 Deep cerebellar nucleus	180
354. 大脑半球内面的沟回 Gyri and sulci of medial surface of the cerebral hemisphere	181
355. 大脑岛叶的沟回 Sulci and gyri of cerebral insula	181
356. 脑的水平切面 Horizontal section of the brain	182
357. 间脑 (内侧面观) Diencephalon (medial aspect)	182
358. 间脑冠状切面 (乳头体平面) Coronal section of diencephalon (level at the mammillary body)	182
359. 大脑半球内侧面的动脉 Arteries of the medial surface of the cerebral hemisphere	183
360. 大脑半球外侧面的动脉 Arteries on the lateral surface of the cerebral hemisphere	183
361. 脑底部的动脉※ Arteries at the base of the brain	184
362. 大脑动脉环 (1)※ Cerebral arterial circle (1)※	185
363. 大脑动脉环 (2) Cerebral arterial circle (2)	185
364. 大脑半球外侧面的静脉 Veins of the lateral surface of cerebral hemisphere	186
365. 硬脑膜窦 (后面观) Venous sinus of dura mater (posterior aspect)	186
366. 大脑外侧面的静脉※ The veins of the lateral surface of the cerebrum	187
367. 侧脑室 (上面观) Lateral ventricle (superior aspect)	188
368. 脑室铸型 Cast from of the cerebral ventricle	188
369. 硬脑膜及硬脑膜静脉窦 (外侧面观) Cerebral dura mater and venous sinuses of cerebral dura mater (lateral aspect)	189
370. 脑脊液循环模式图※ Diagram of cerebrospinal fluid circulation	190
371. 颈神经丛的皮支 Cutaneous branches of cervical plexus	191
372. 颈区和腋区的血管神经 Blood vessels and nerves of the neck region and the axilla region	192
373. 膈神经、迷走神经颈胸部的行程和分布 The course and the distribution of the phrenic nerve and cervicothoracic branches of the vagus nerves	193
374. 腋窝、臂部的神经及其毗邻 Nerves of axillary fossa and arm and their neighbourhood	194
375. 前臂的神经 (前面观) Nerves of the forearm (anterior aspect)	194
376. 臂部的神经 (后面观) Nerves of the arm (posterior aspect)	195
377. 手背部的神经及其毗邻结构 The nerves and neighbourhood structures of the dorsum of the hand	196
378. 手部神经及血管的体表投影 Surface projection of the nerves and blood vessels of the hand	196
379. 肋间神经及其分布 Intercostal nerves and their distribution	197
380. 腰丛和骶丛 Lumbar plexus and sacral plexus	197
381. 男性会阴部的神经及其毗邻结构 Nerves in the male perineum and their neighbourhood structures	198
382. 女性会阴部的神经及其毗邻结构 Nerves in the female perineum and their neighbourhood structures	198
383. 大腿后面的肌肉、血管和神经 Muscles, blood vessels and nerves of the posterior aspect of the thigh	199
384. 大腿前内侧面的肌肉、血管和神经 (1) Muscles, blood vessels and nerves of the anteromedial aspect of the thigh (1)	200
385. 大腿前内侧面的肌肉、血管和神经 (2) Muscles, blood vessels and nerves of the anteromedial aspect of thigh (2)	200
386. 小腿前部神经及其毗邻结构 (1) Nerves of the anterior aspect of the leg and their neighbourhood structures (1)	201
387. 小腿前部神经及其毗邻结构 (2) Nerves of the anterior aspect of the leg and their neighbourhood structures (2)	201
388. 小腿后面的肌肉、血管和神经 (1) Muscles, blood vessels and nerves of the posterior aspect of the leg (1)	202
389. 小腿后面的肌肉、血管和神经 (2) Muscles, blood vessels and nerves of the posterior aspect of the leg (2)	202
390. 足背部的神经 Dorsal nerves of the foot	203
391. 足背部的神经及血管 Dorsal nerves and blood vessels of the foot	203
392. 足底部的神经及血管 (1) Plantar nerves and blood vessels of the foot (1)	204
393. 足底部的神经及血管 (2) Plantar nerves and blood vessels of the foot (2)	204
394. 十二对脑神经出颅部位 (颅底内面观) The inlet and exit points of the 12 pairs of cranial nerves (internal aspect)	205
395. 脑干 (腹侧面观) Brain stem (ventral aspect)	205
396. 眶腔内的神经 (上面观) Nerves in the orbit (superior aspect)	206
397. 眶腔内的神经 (侧面观) Nerves in the orbit (lateral aspect)	206
398. 眶内神经 (侧面观)※ The nerves of the orbit (lateral aspect)	207
399. 前庭蜗神经模式图※ Diagram of the vestibulochlear nerve	207
400. 三叉神经分支 (1) The branches of the trigeminal nerve (1)	208
401. 三叉神经分支 (2) The branches of the trigeminal nerve (2)	209

目 录

402. 三叉神经分支模式图 (外侧面观) ※ Diagram showing distribution of the trigeminal nerve (lateral aspect)	210
403. 面神经分支及其毗邻结构 Branches and neighbourhood structures of facial nerve	211
404. 面神经的分支 ※ Branches of facial nerve	212
405. 面神经的分支和腮腺 ※ Facial nerve branches and parotid gland	212
406. 舌咽神经、迷走神经、副神经和舌下神经 Glossopharyngeal nerve, vagus nerve, accessory nerve and hypoglossal nerve	213
407. 迷走神经在颈部的分支 (前面观) Branch of the vagus nerve in the neck (anterior aspect)	214
408. 迷走神经在颈部的分支 (右侧面观) Branch of the vagus nerve in the neck (right lateral aspect)	214
409. 迷走神经颈部的分支 (后面观) ※ Branch of the vagus nerve in the neck (posterior aspect)	215
410. 左、右迷走神经颈胸部的分支 (后面观) Cervicothoracic branches of left and right vagus nerves (posterior aspect)	216
411. 胸部自主神经 Autonomic nerves of the thorax	217
412. 心脏的神经 Nerves of heart	218
413. 腹盆部的自主神经丛和节 Plexuses and ganglia of autonomic nerves in abdomen and pelvis	219
414. 躯干、四肢痛、温、触觉传导路 ※ The pain,thalpotic and pselaphesic conductive pathway of the trunk and limbs	220
415. 躯干、四肢本体感觉和精细触觉传导路 ※ The proprioception and refined tactile sensation pathway of the trunk and limbs	220
416. 头面部痛、温、触觉传导路 ※ Pathway of alganesthesia,thalposis,tactile sensation of the head and face	221
417. 锥体系 (皮质脊髓束) ※ The pyramidal system (corticospinal tract)	222
418. 锥体系 (皮质核束) ※ The pyramidal system (corticobulbar tract)	222
419. 锥体外系 (纹状体-苍白球系) ※ Extrapyramidal system (corpus striatum-globus pallidus)	223
420. 锥体外系 (皮质-脑桥-小脑系) ※ The extrapyramidal system (cortex-pons-cerebellum system)	224
421. 传向小脑的本体感觉传导路 ※ Pathway of the proprioceptive sensibility conducting to the cerebellum	225
422. 嗅区 The olfactory region	226
423. 嗅器及其神经分布 ※ The olfactory organs and its nerve innervation	226
424. 视觉传导路 ※ The visual pathway	227
425. 听觉传导路 ※ The auditory pathway	228
426. 味觉及其神经分布 ※ The gustatory organs and its innervation	229
427. 平衡觉传导路 ※ The equilibrium pathway	230
428. 膀胱的神经支配示意图 ※ Scheme to show innervation of the urinary bladder	231
429. 肝、胆牵涉性痛的反射途径示意图 ※ Scheme to show reflex tracts of the referred pain of the liver and gall-bladder	232
430. 心脏牵涉性痛的反射途径示意图 ※ Scheme to show reflex tracts of the referred pain of the heart	232
431. 心的神经支配和血压调节示意图 ※ Scheme to show innervation of the heart and regulation of the blood pressure	233
432. 支气管、肺的神经支配和呼吸调节示意图 ※ Scheme to show innervation of the bronchi and lungs and control of the respiration	234



内分泌系统 ENDOCRINE SYSTEM

433. 甲状腺及甲状旁腺 (前面观) The thyroid gland and the parathyroid glands (anterior aspect)	236
434. 甲状腺及甲状旁腺 (后面观) The thyroid gland and the parathyroid glands (posterior aspect)	236
435. 胸腺 The thymus	236
436. 肾上腺 The suprarenal glands	236
437. 垂体的血液供应 (1) Blood supply of the hypophysis (1)	237
438. 脑垂体的血液供应 (2) Blood supply of the hypophysis (2)	237
439. 垂体的血液供应 (3) ※ Blood supply of the hypophysis	238
440. 内分泌腺概观 General view of endocrine glands	239