

Title: Lippincott Williams & Wilkins Atlas of Anatomy, 1st Edition

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Dedication

Dedicated to the memory of Russell T. Woodburne, PhD whose descriptions of anatomy are as valid and accurate today as they were when first written over 50 years ago.

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Preface

The opportunity to create a new anatomical atlas could not be described as even a once-in-a-lifetime opportunity. Original atlases simply are not produced often enough to make that statement accurate. As anatomical educators of medical students with nearly 60 years of classroom experience between us, we are familiar with all of the anatomical atlases that are currently on the market, and it is a very esteemed group. Our experience with these existing atlases has helped us formulate strong ideas of how to present anatomical images more concisely and in a more logical sequence. The intent of this new atlas is to make images easier and faster for the student to use. Speed and ease of use have become critical needs in the era of compressed anatomical curricula.

The development of this atlas required the combined efforts of a large group of people and the good fortune to have all of these resources available simultaneously. First, we had the complete support of Lippincott Williams & Wilkins (LWW). This support came in many forms, from editorial and production assistance and project funding to art direction and expert market analysis as well as many words of encouragement.

Second, we had the exceptional talents of the creative team at the Anatomical Chart Company (ACC). ACC produces the thousands of anatomical and diagnostic charts that are displayed in clinics and doctors' offices all over the world. The ACC creative team recruited a small army of the best medical illustrators in the country, kept this army organized, and guided them throughout the project. The ACC design team created a truly inspired design and oversaw the construction of pages. Working with the LWW production team, ACC also guided this complex atlas through the production phase.

Third, the authors have been friends and colleagues for many years. The result of our combined efforts to develop educational material has always been greater than the sum of our individual efforts. To this project we have brought the ability and desire to work as a team.

Using these resources to the maximum extent, we have developed an atlas that stands out among contemporary atlases in several areas.

Teaching Perspective

The LWW Atlas of Anatomy is organized regionally. However, the atlas is not simply a series of flat anatomical drawings with every structure labeled. Every aspect of the atlas, from the selection and organization of the plates, to the coloring, style, and labeling of the individual images is grounded in a teaching perspective. The organization follows a teacher's logic, in that it begins with surface anatomy and superficial features, then proceeds into deeper structures with plate groupings that support regional dissection sequences. The labels are carefully selected and placed to tell a story and direct the attention of the viewer to important relationships.

A New Art Style

A new art style was created for the *LWW Atlas of Anatomy*. The illustrations use a vibrant palette, new surface textures, effective use of shading to add depth, and a clean, uncluttered labeling approach. The main illustrations are designed to depict the most common anatomical features (i.e., $\hat{a} \in \text{``average} \hat{a} \in \text{``m anatomy}$) that a student is likely to encounter in dissections or clinical practice. Common important anatomical variations are also depicted in supporting illustrations.

Careful Selection of Images

There are fewer illustrations in the *LWW Atlas of Anatomy* than in other atlases. In today's shrinking anatomy curriculum, more is not necessarily better. We carefully considered the number of illustrations necessary to get the job done, with no superfluous figures or concepts. Illustrations are placed in logical dissection order, followed by summary illustrations (systemically organized illustrations of vessels and nerves) that help the student assemble the parts into a whole.

Consistent Perspective

To aid the novice, the images in the *LWW Atlas of Anatomy* use consistent viewpoints: Directly anterior, directly posterior, directly lateral, or directly medial. The specimen is always placed in the anatomical position. Oblique views and quartering views are not used. Positioning of the limbs or the head in other than the anatomical position has been strictly avoided.

Effective Use of Color

Images in the *LWW Atlas of Anatomy* use color to draw the viewer's attention to the important part of the figure. Many figures have highly detailed peripheral anatomy rendered in gray to provide context for the illustration without distracting the viewer from the central theme. Summary illustrations use this color technique to particular advantage to show systemic anatomy of body regions.

Ghosted Structures

Many illustrations in the *LWW Atlas of Anatomy* employ a ghosting technique to allow the viewer to look into the illustration in greater depth. In some illustrations, the viewer looks through ghosted structures to see important anatomical relationships. In other illustrations, a solid object is rendered as a ghost where it passes behind another solid object. By use of these ghosting techniques, we are able to illustrate the relationships of deep structures to more superficial structures and allow students to see connections and associations that previously they had to imagine.

Limited Labeling

We have intentionally limited the number of labels per illustration in the *LWW Atlas of Anatomy*. We deliberately selected only those structures most likely to be taught in modern curricula and to provide labels for those structures. We did not label everything in each illustration. Many additional structures could have been labeled, but at a loss of the didactic impact of the image.

Effective Label Placement

We have juxtaposed labels to increase the pedagogical impact of the illustration. These label placements encourage the student to notice important relationships. We also have used lists of labels to reinforce the relationship of parts of structures to the whole. The arrangement of labels, combined with the use of color, leaves little doubt as to the intent of the illustration.

No Captions

The LWW Atlas of Anatomy has no captions or text to explain the figures. Market analysis indicates that students and faculty are sharply divided on whether or not this type of material is useful. It is our feeling that an atlas is a supplement to a textbook. We feel that students consult an atlas for visual identification, not description, and that lengthy discussion of the illustrations is not necessary if the illustrations are designed and organized properly and used in the context of text materials.

Complete Product Package

We are also offering with the text a set of supporting products designed to help students learn anatomy. All of the images are available electronically in an interactive atlas that can be accessed on the Point (Lippincott Williams & Wilkins's website). The interactive atlas has several useful features, including a search function and zoom and compare features. Students can also test their knowledge of anatomy with a unique drag-and-drop labeling exercise available for each image. Instructors also receive an image bank that

provides each image in a file suitable for multimedia presentations and an extensive repository of anatomy-oriented test questions

The LWW Atlas of Anatomy has taken many years to complete, and its creation took full advantage of electronic communication and imaging. It has not been an easy feat, as the artists, editors, authors, and publisher are spread all over the country. Approximately 7500 versions of the illustrations were reviewed and critiqued during the course of the project. We all suffered moments of fatigue but the result is well worth the time invested. The experience has been both exhausting and exhilarating.

We hope that you enjoy the outcome.

РΤ

ΤG

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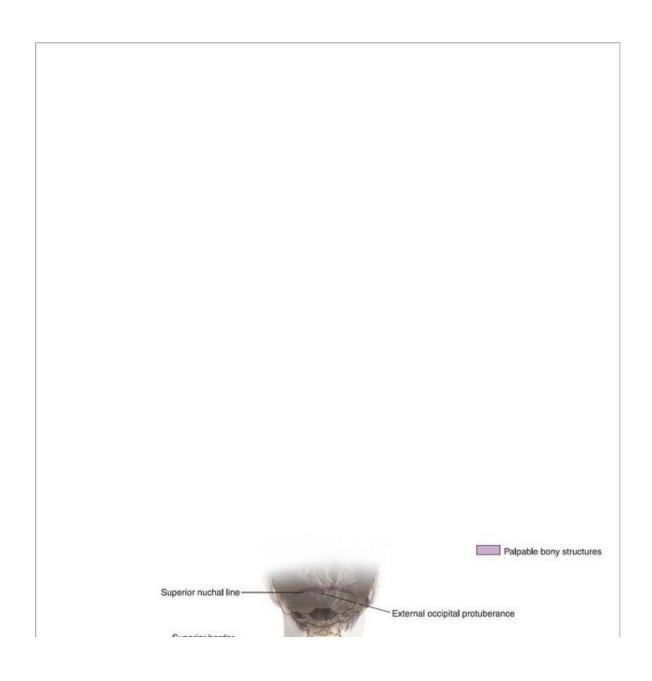
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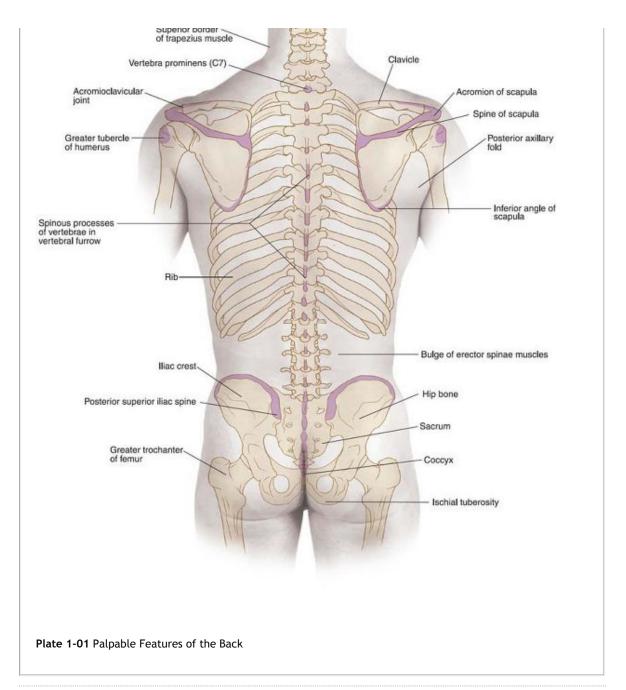
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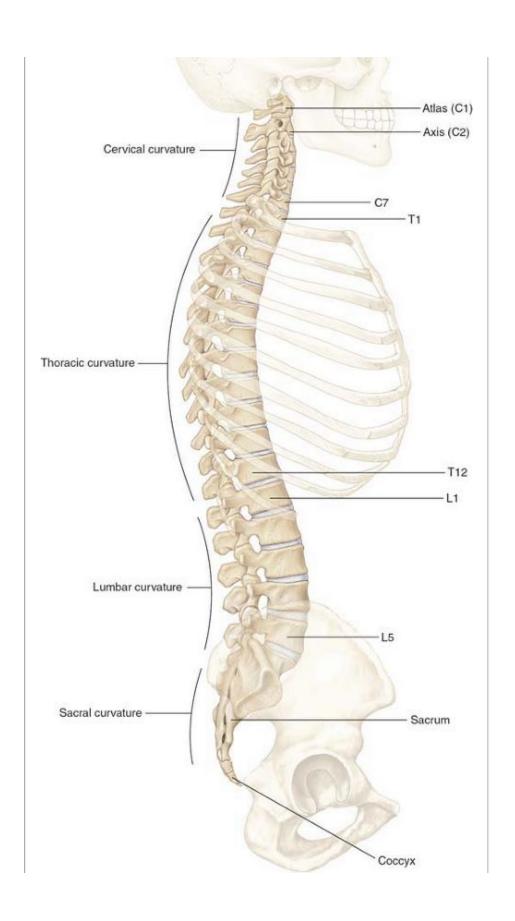
Chapter 1

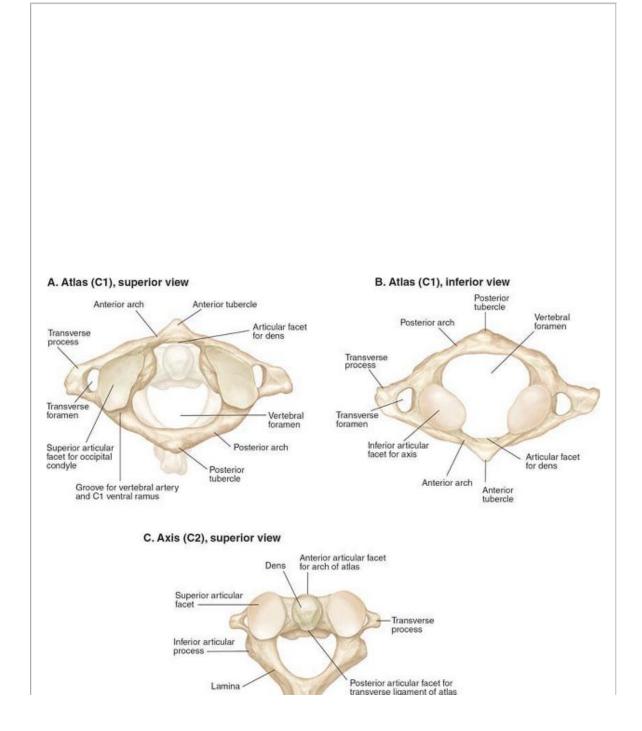
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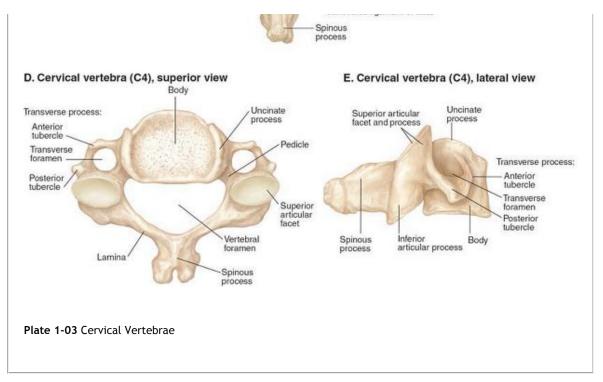




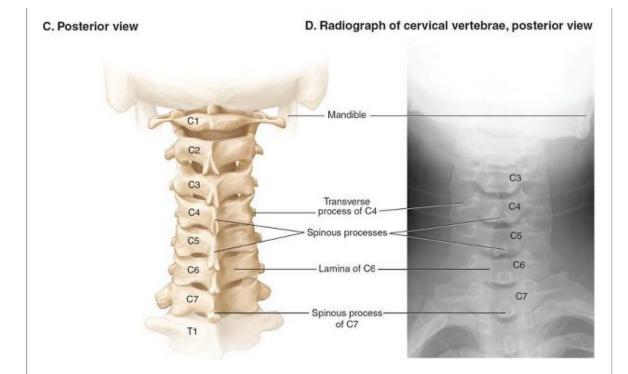




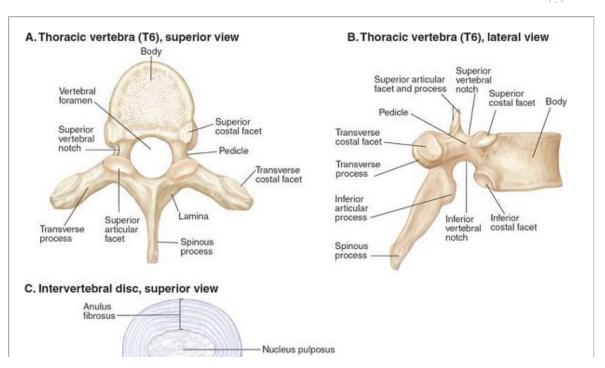


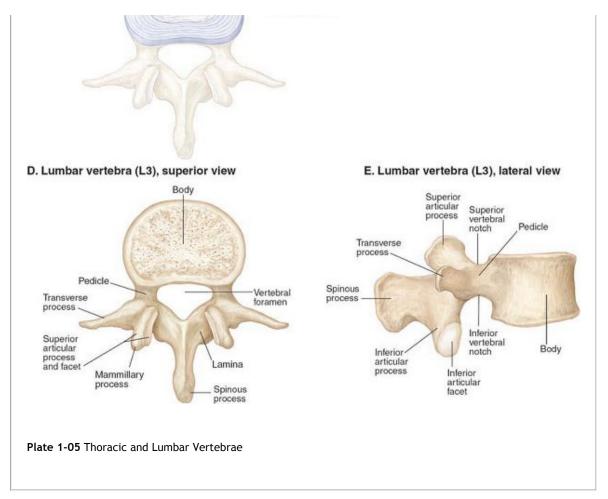


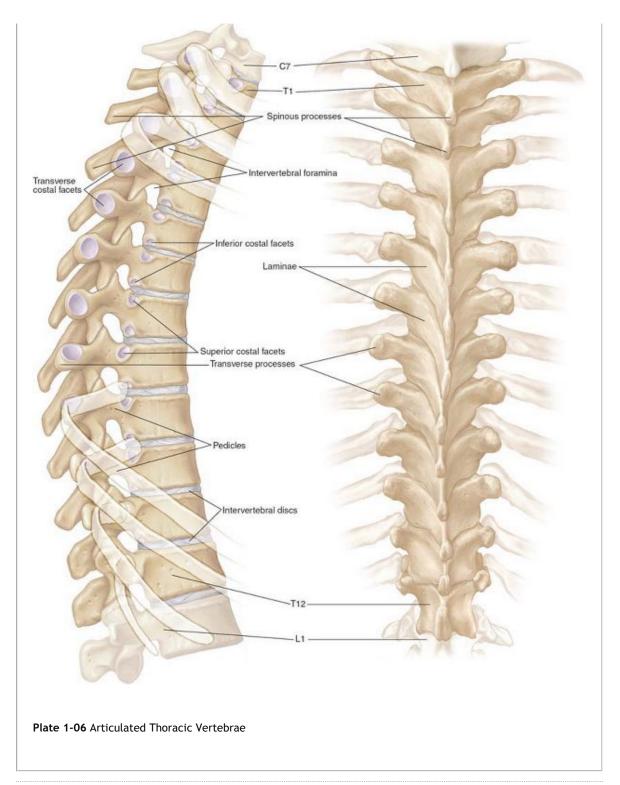
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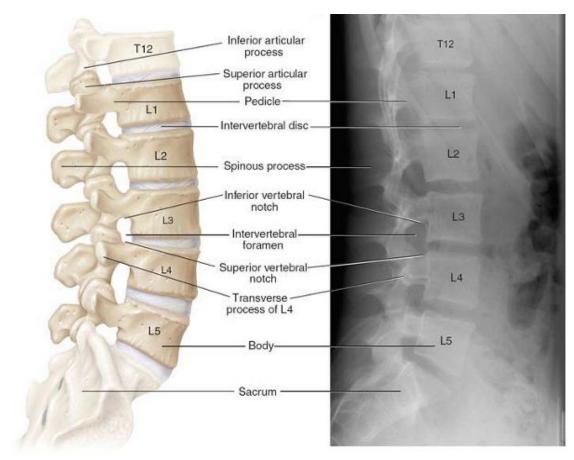


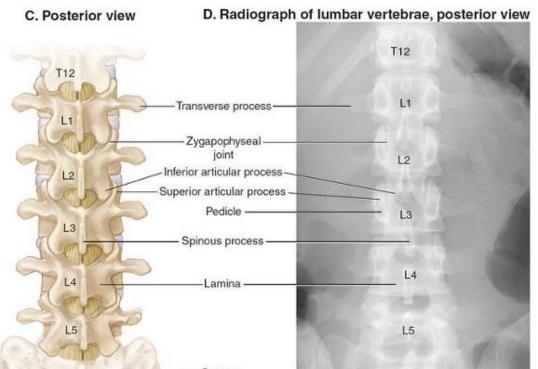


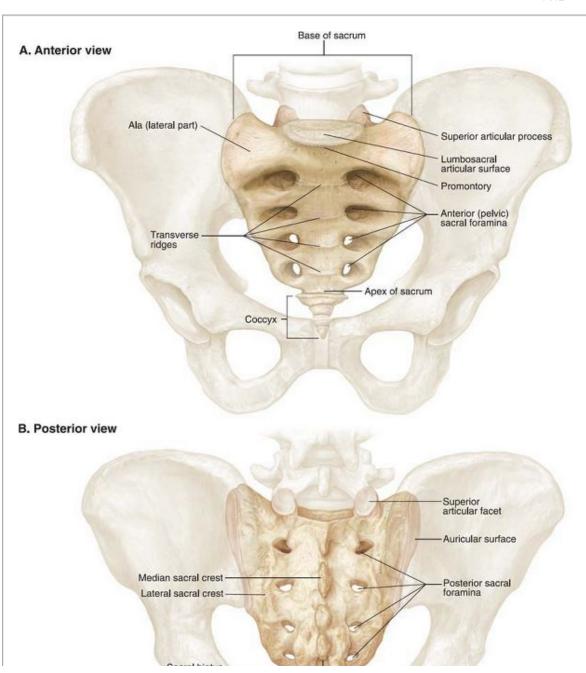












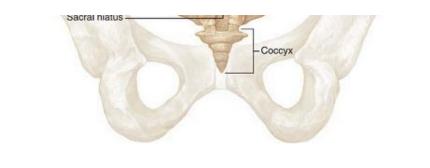
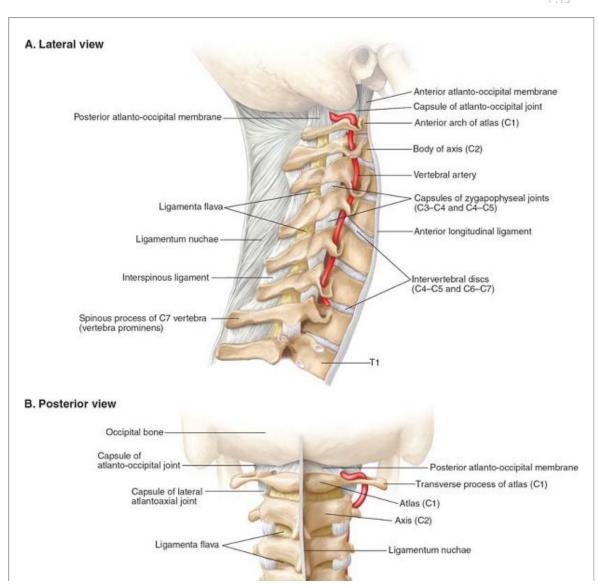


Plate 1-08 Sacrum and Coccyx



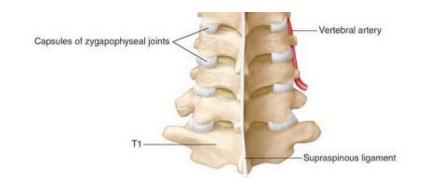
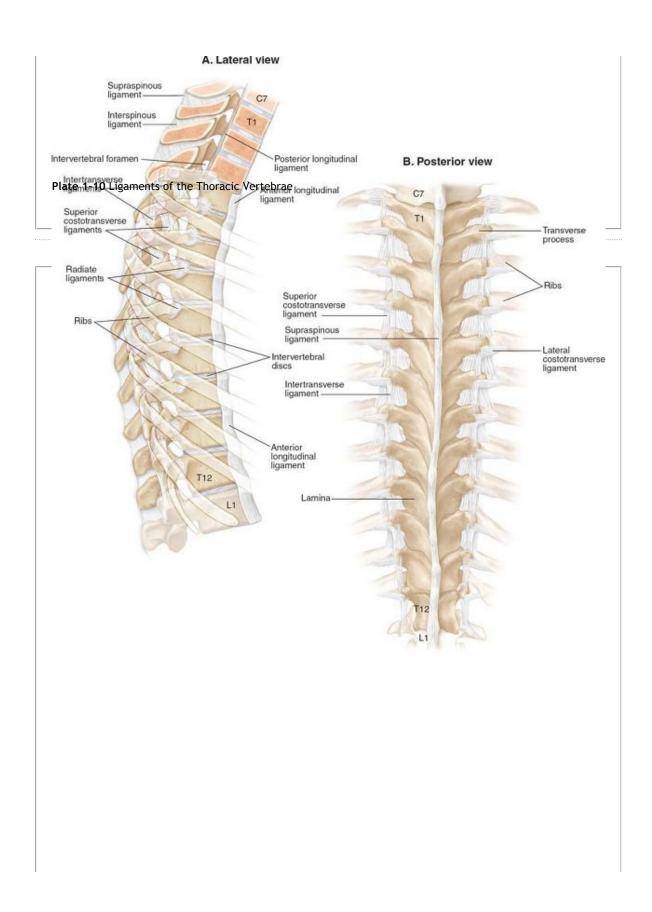


Plate 1-09 Ligaments of the Cervical Vertebrae



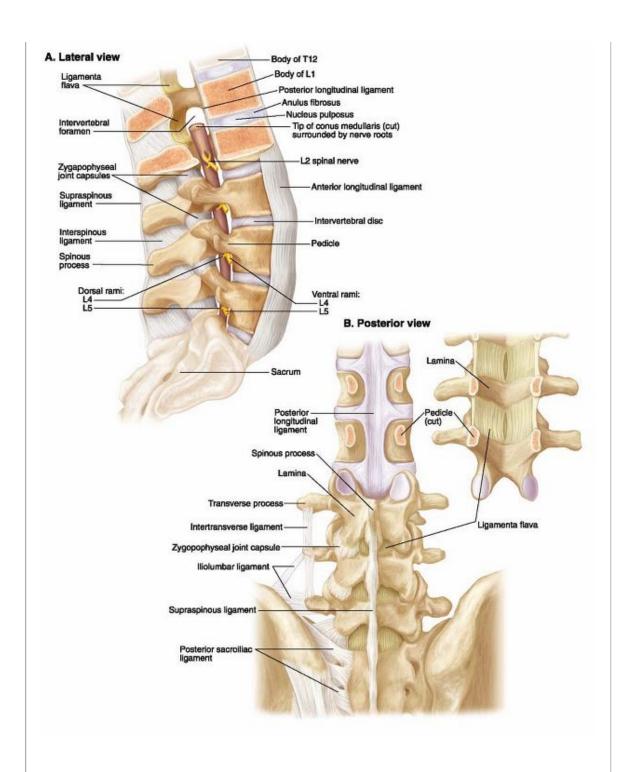


Plate 1-11 Ligaments of the Lumbar Vertebrae and Sacrum

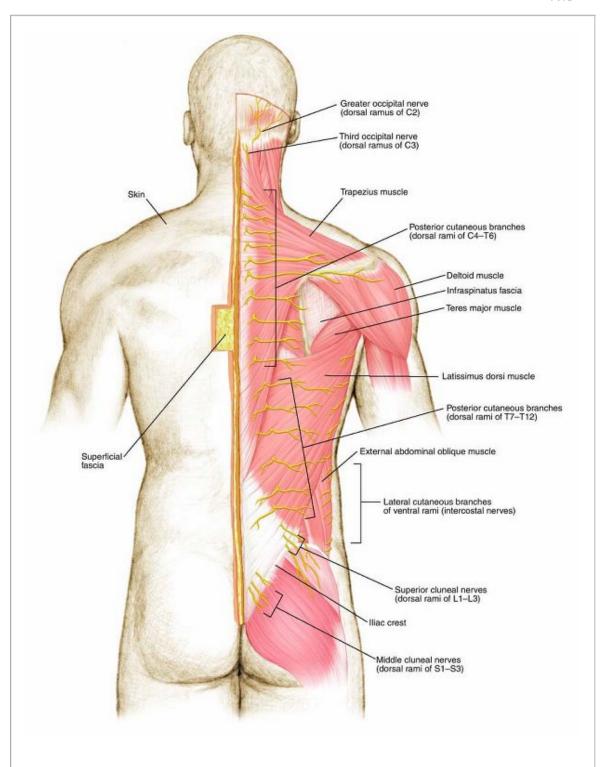


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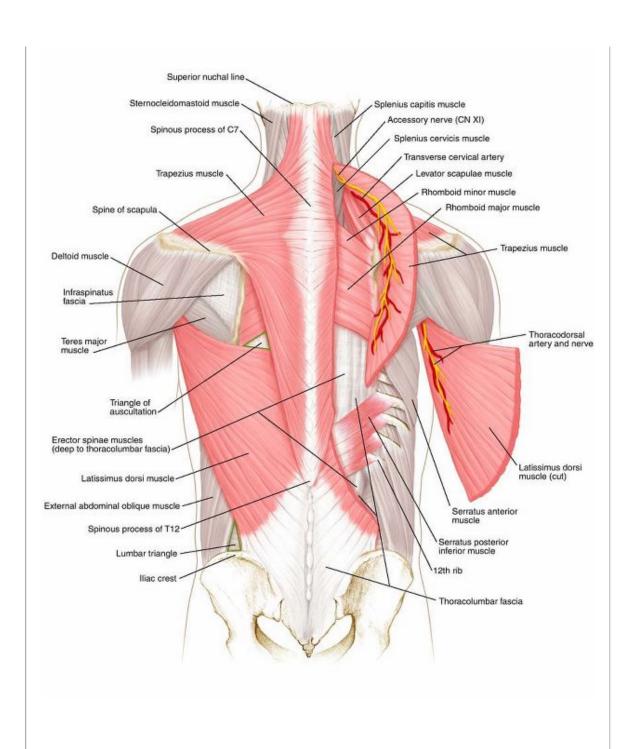
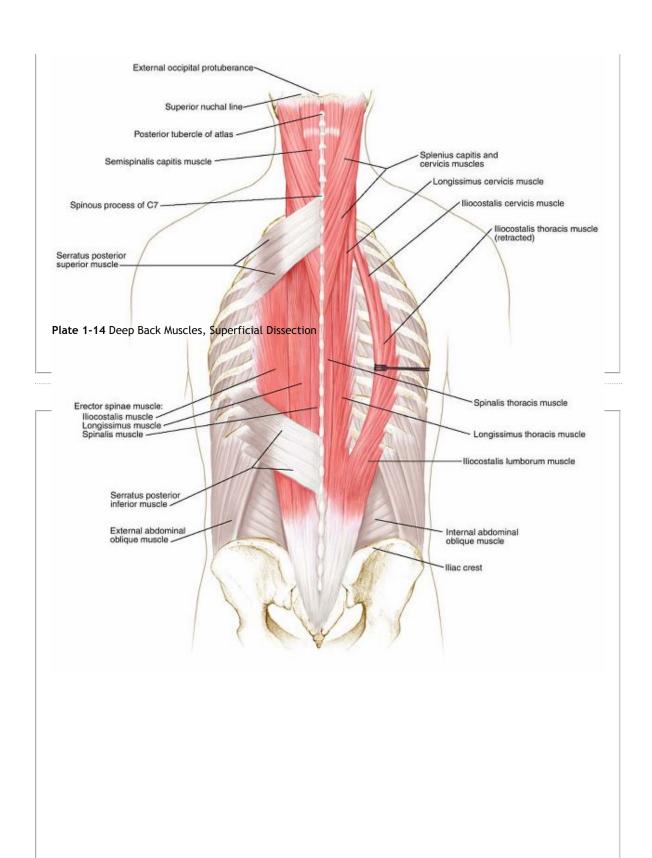
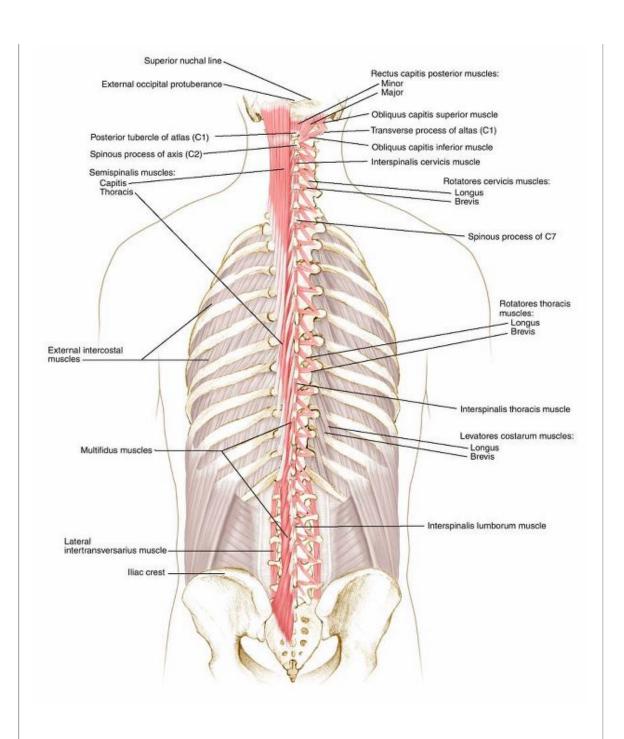
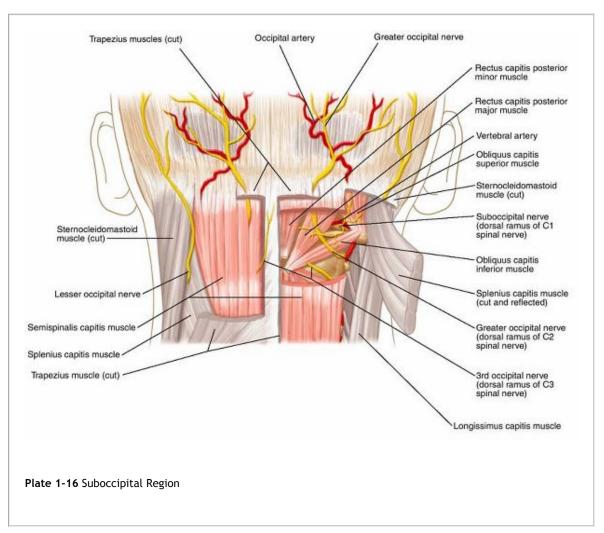
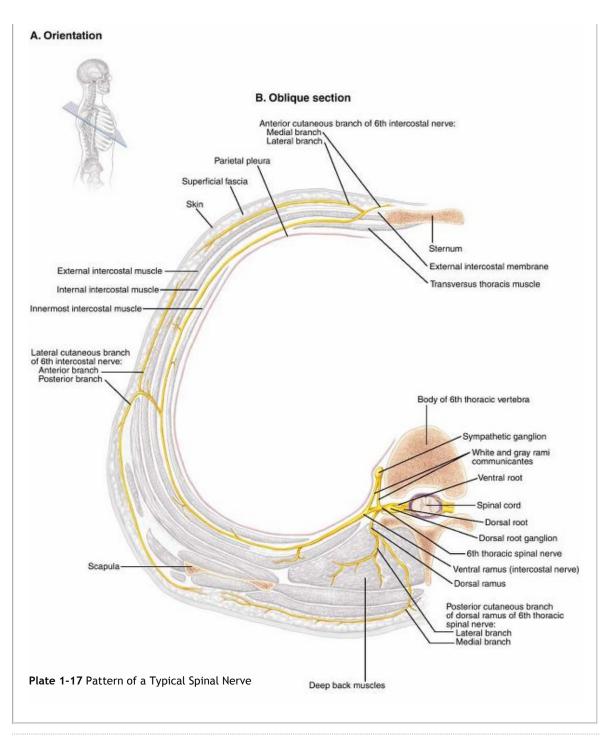


	Plate 1-13 Superficial Muscles of the Back	
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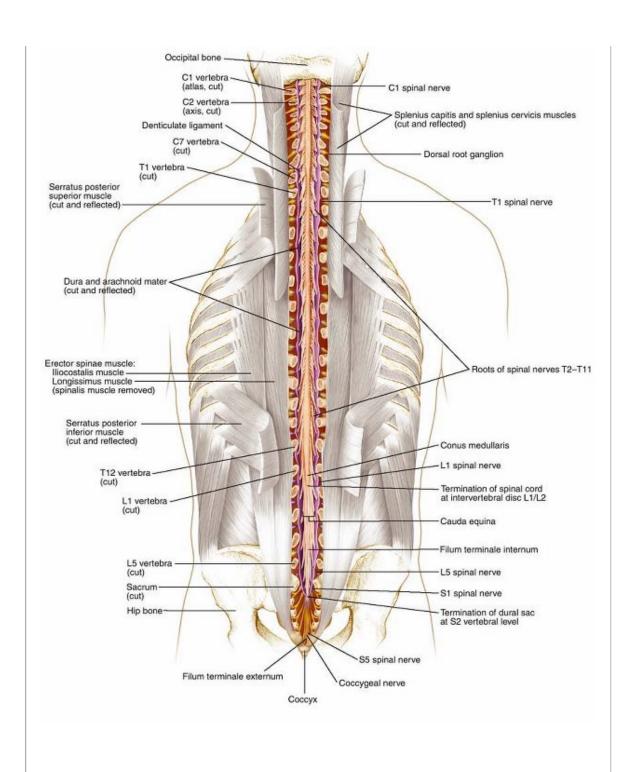


Plate 1-18 Spir	nal Cord, Posterior View		
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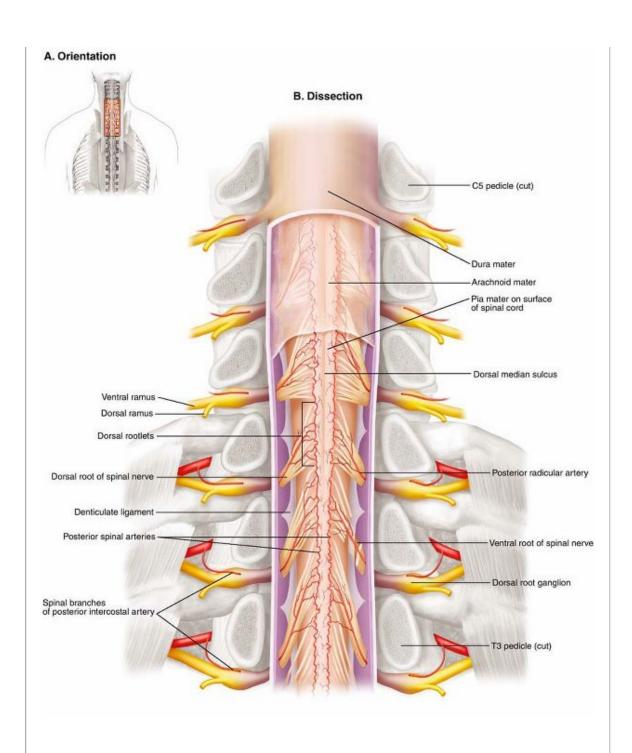
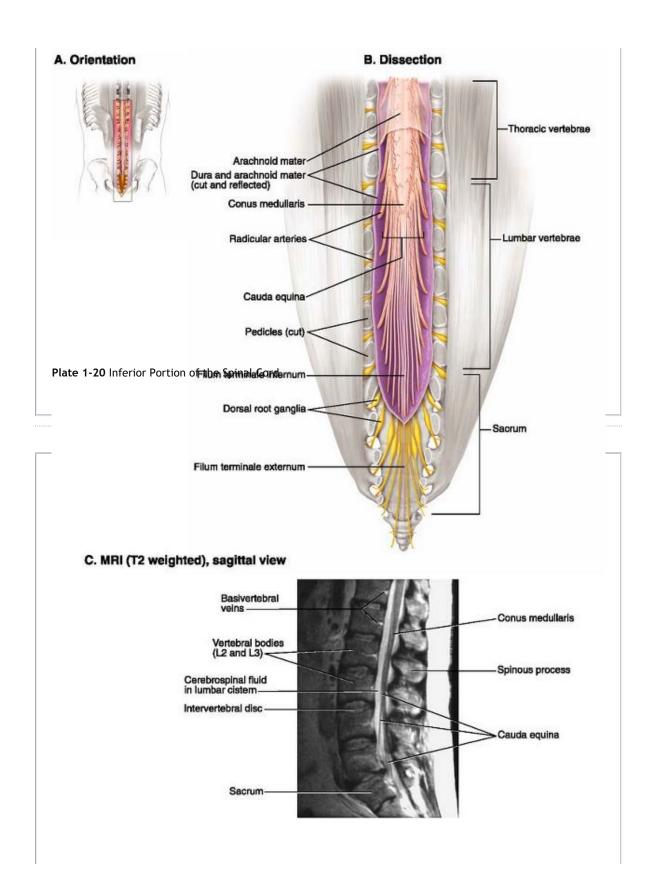
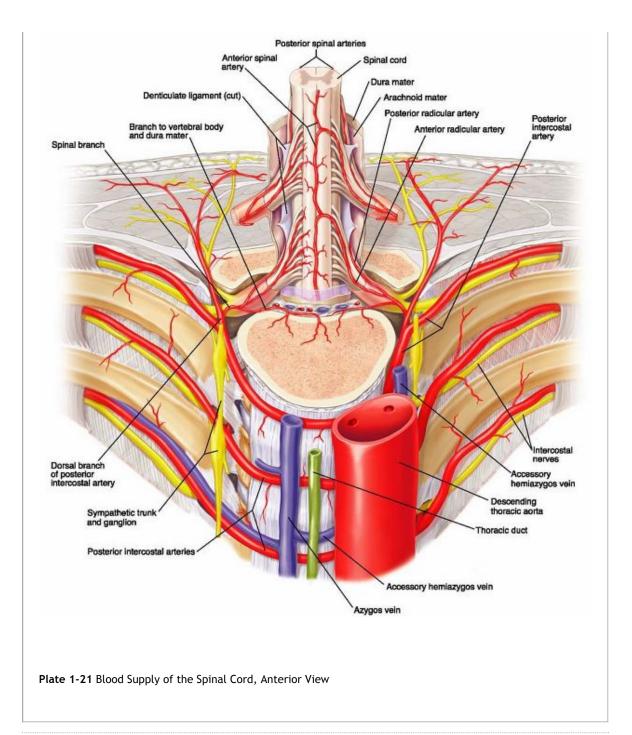
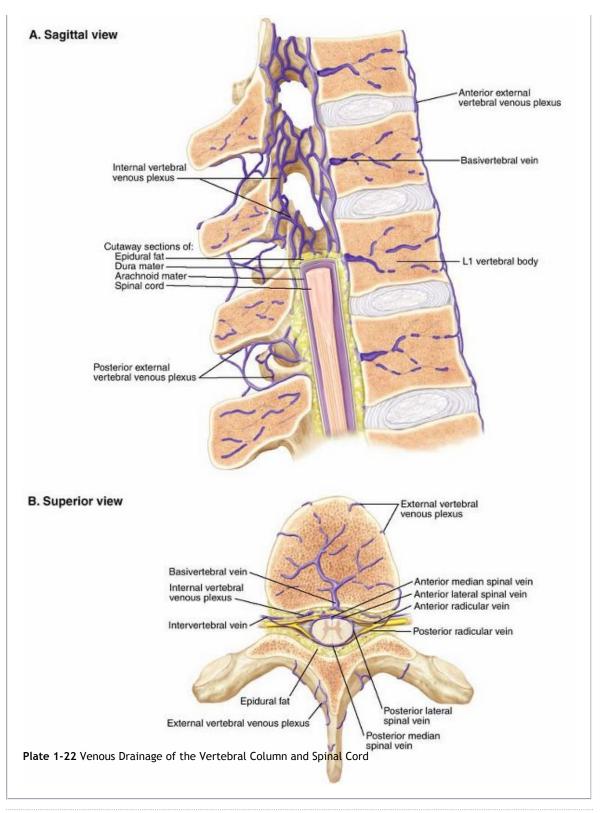
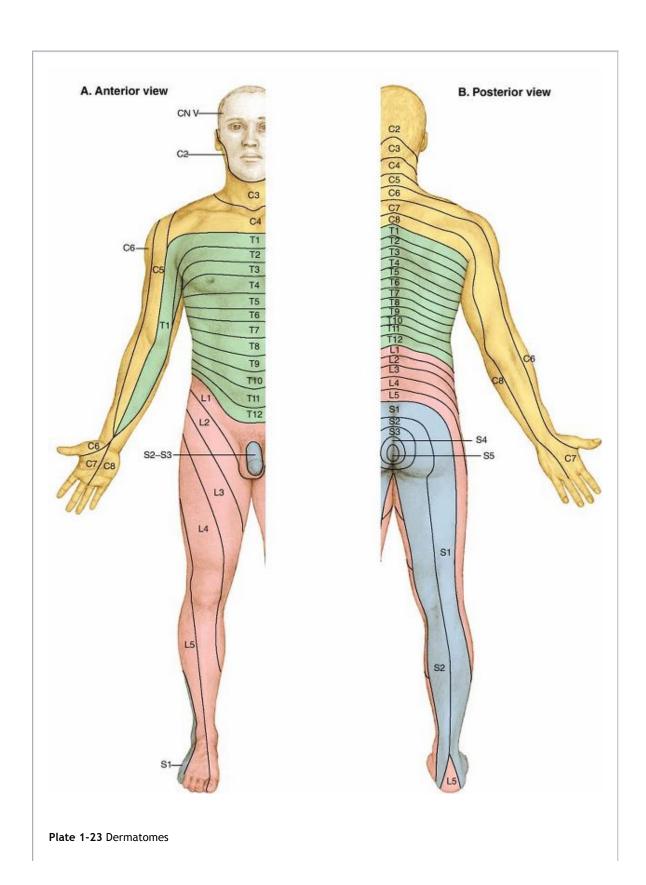


Plate 1-19 Superior Portion of the Spinal Cord	
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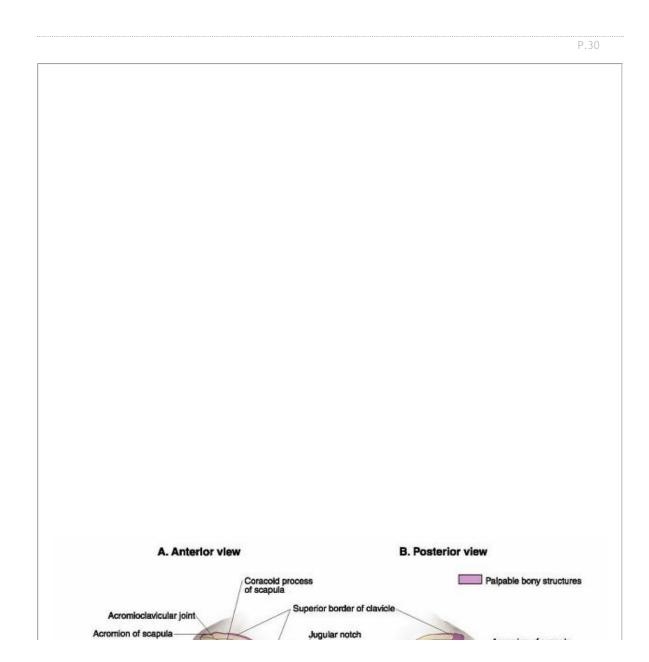
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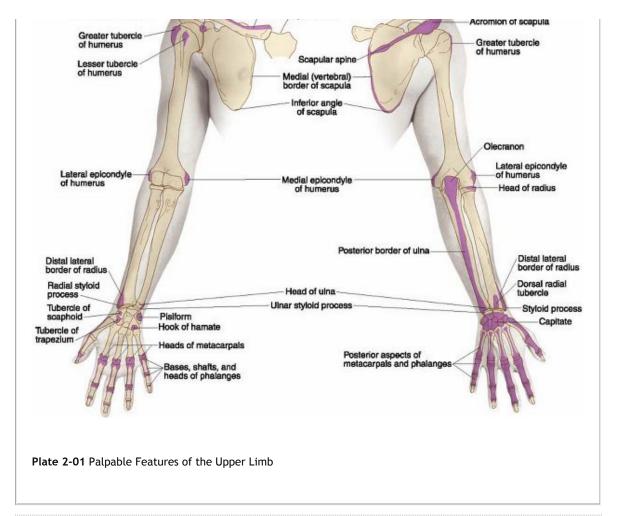
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Chapter 2

The Upper Limb





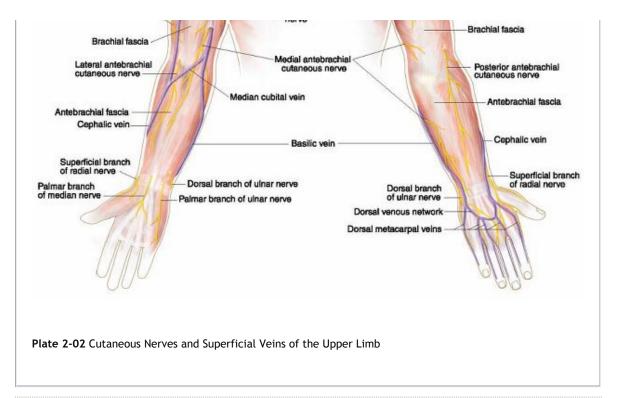
A. Anterior view

Supraclavicular nerves

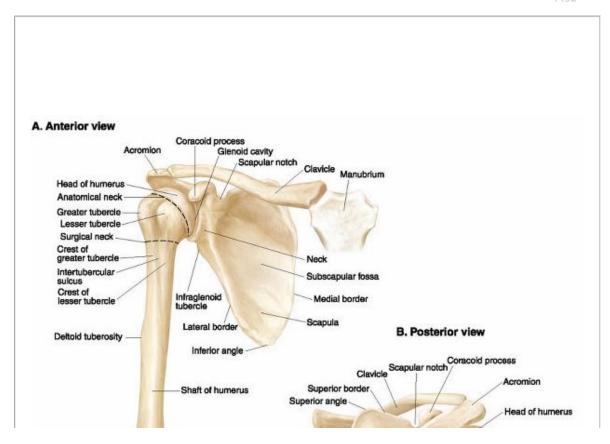
Superior lateral brachial cutaneous nerve

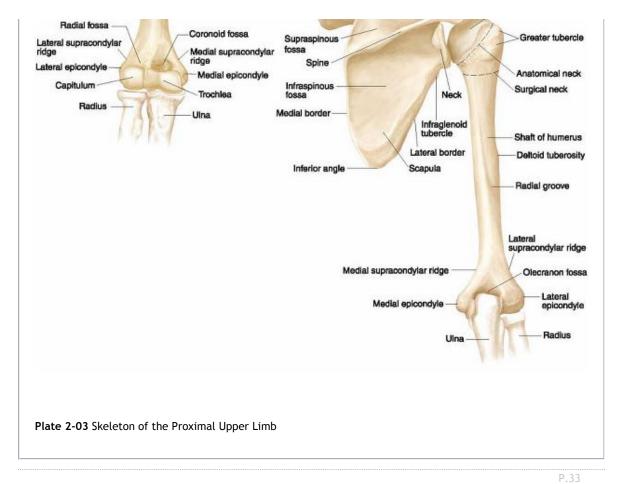
Inferior lateral brachial cutaneous nerve

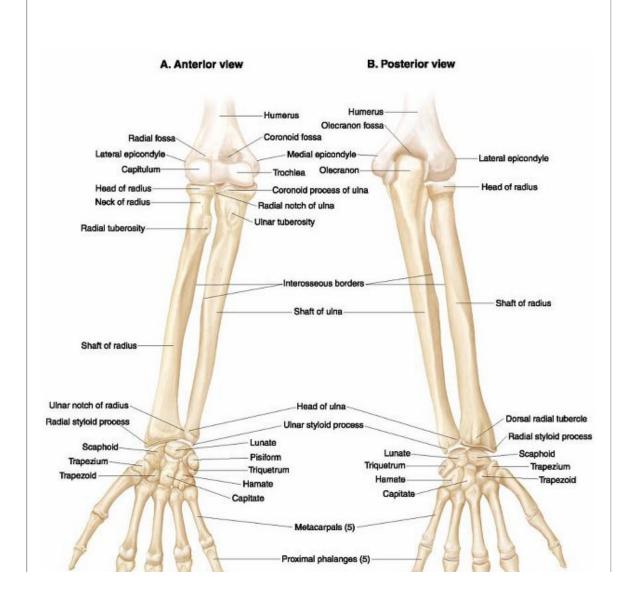
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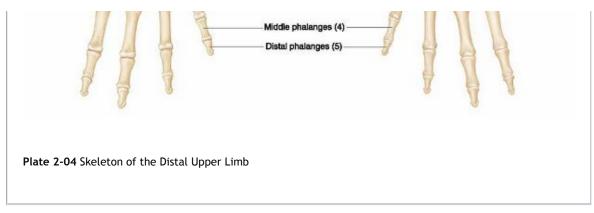


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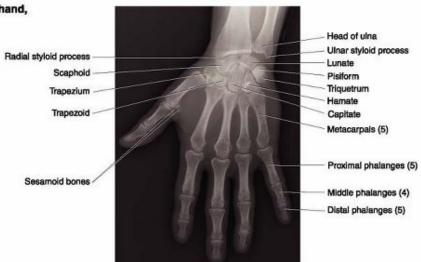




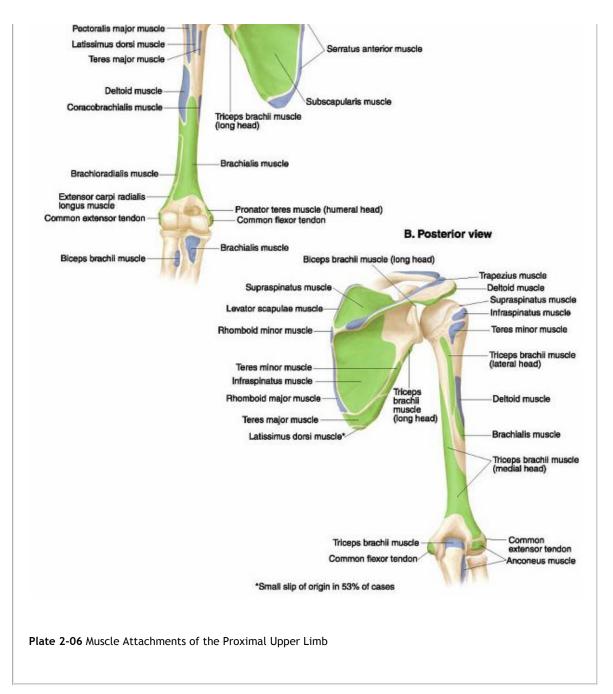
B. Right elbow, anterior view

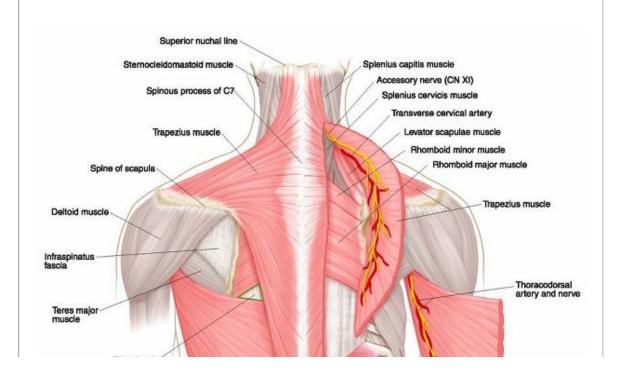


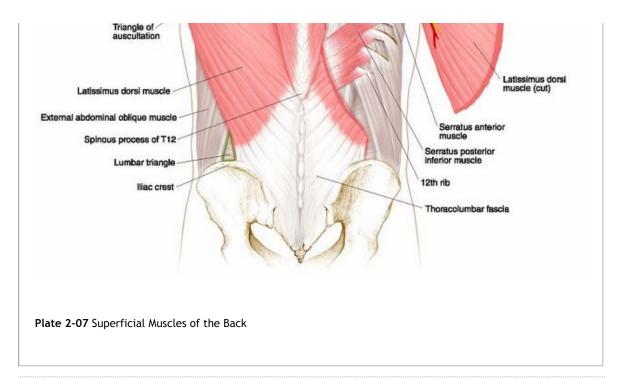
C. Right wrist and hand, anterior view



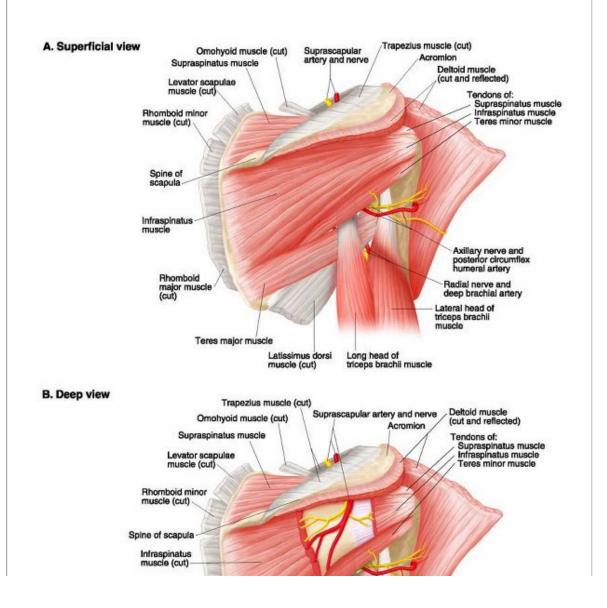
P.35 A. Anterior view Biceps brachii muscle (long head) Trapezius muscle Deltoid muscle Pectoralis minor muscle Omohyoid muscle Muscle attachments
Origins Coracobrachialis muscle and biceps brachii muscle (short head) shared origin Insertions Supraspinatus muscle Subscapularis muscle

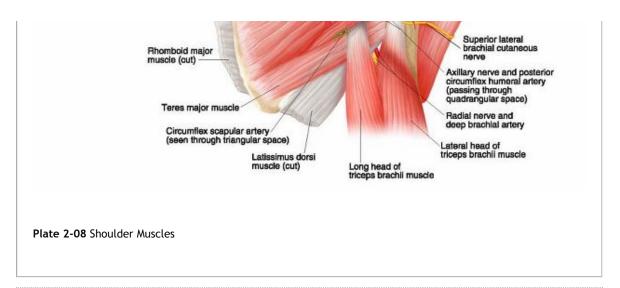






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Subclavian artery Dorsal scapulae artery Levator scapulae muscle (cut) Rhomboid minor muscle (cut) Spine of scapula Rhomboid major muscle (cut) Circumflex scapular artery Circumflex scapular artery Subscapular artery Subscapular artery Subscapular artery

B. Angiogram

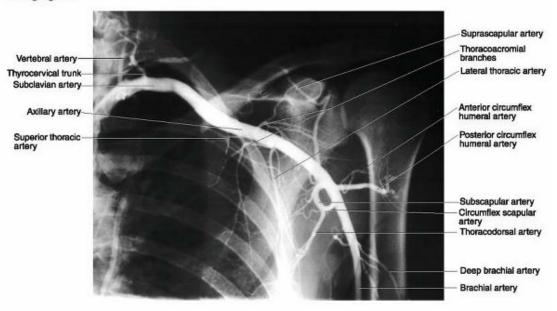
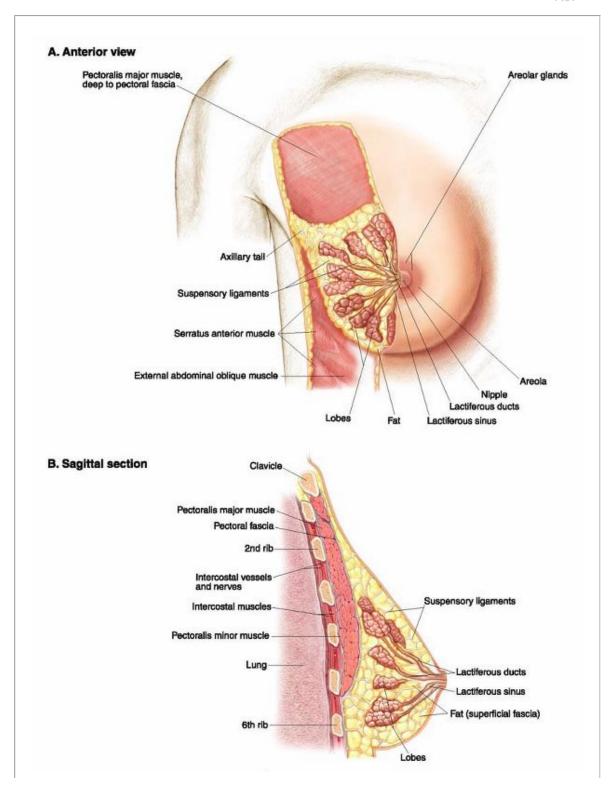
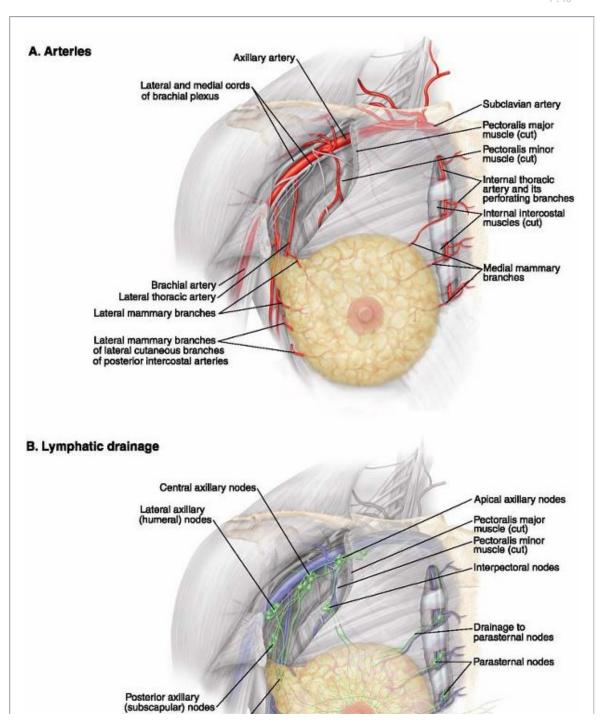
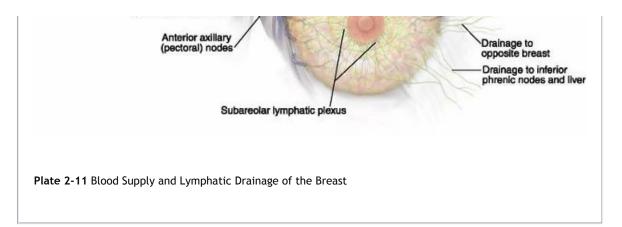


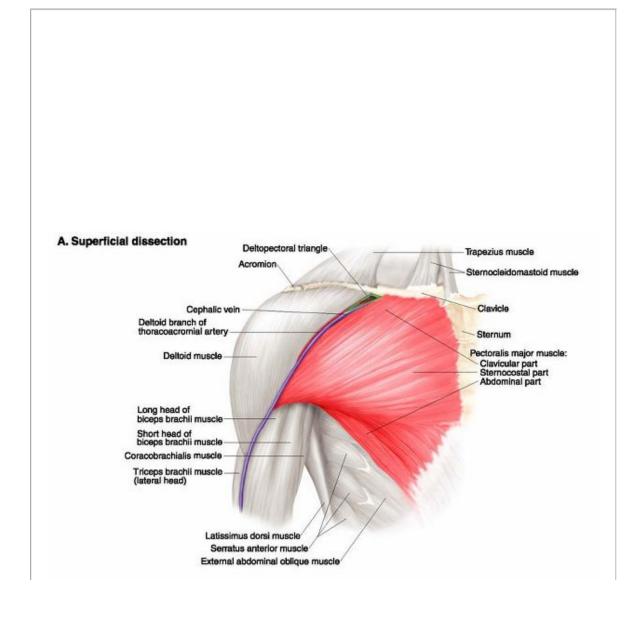
Plate 2-09 Blood Supply to the Shoulder



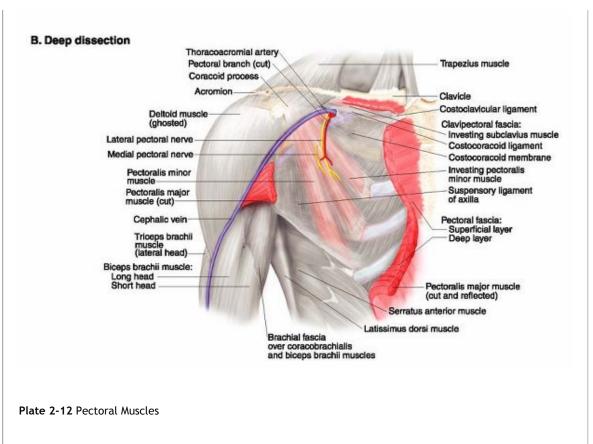


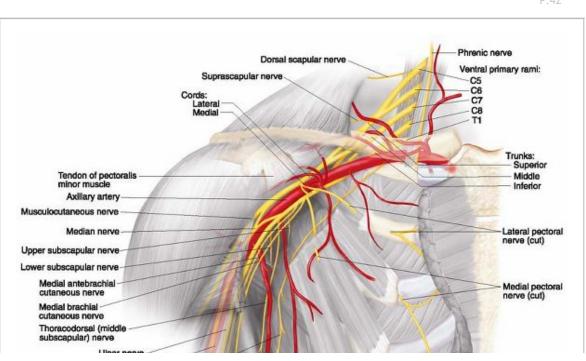


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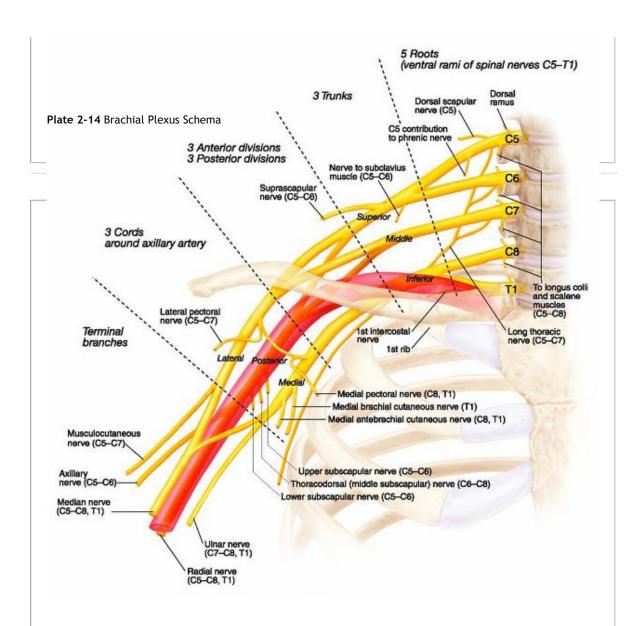


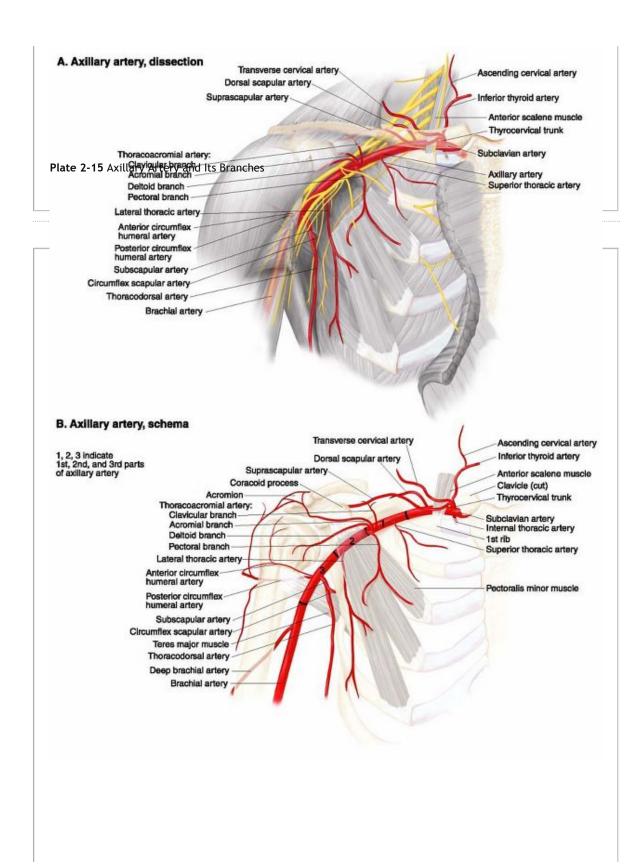


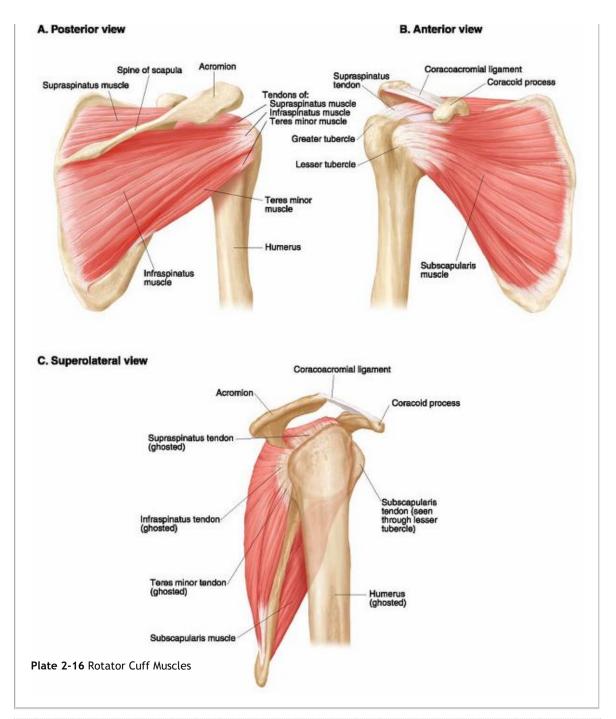




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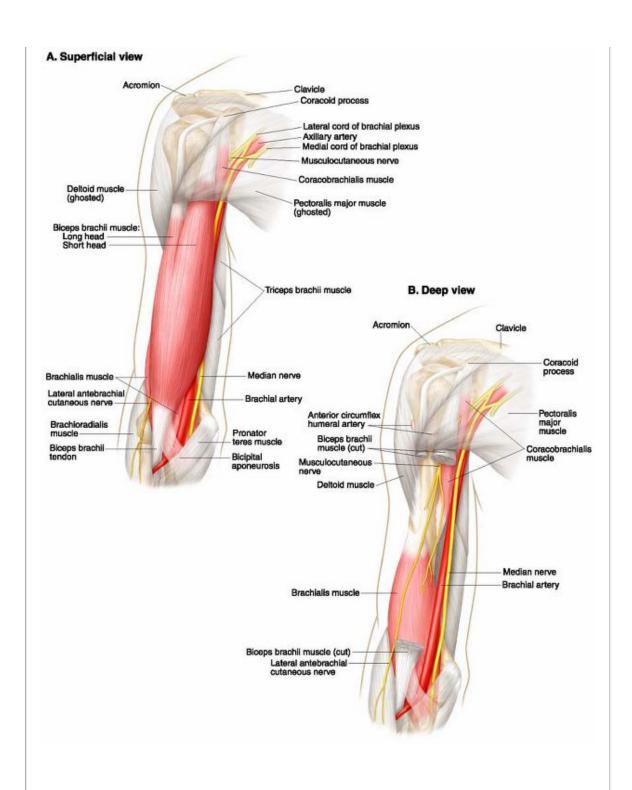


Plate	e 2-17 Muscles of the Anteri	or Arm	P.47

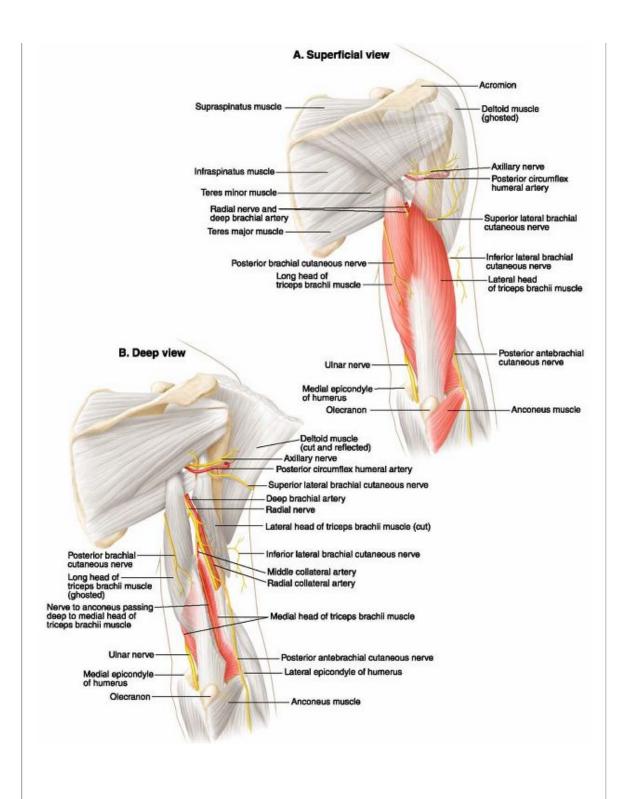


Plate 2-18 Muscles of the Posterior Arm	
	P.48

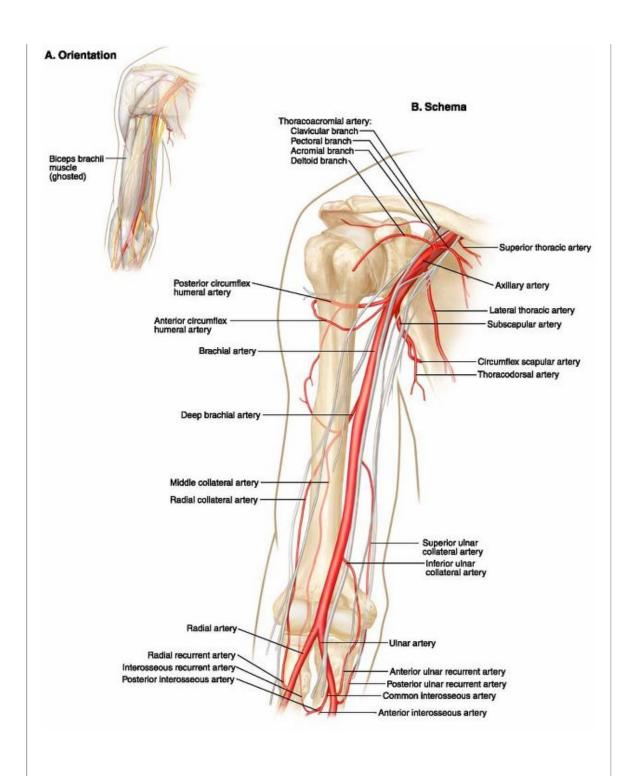
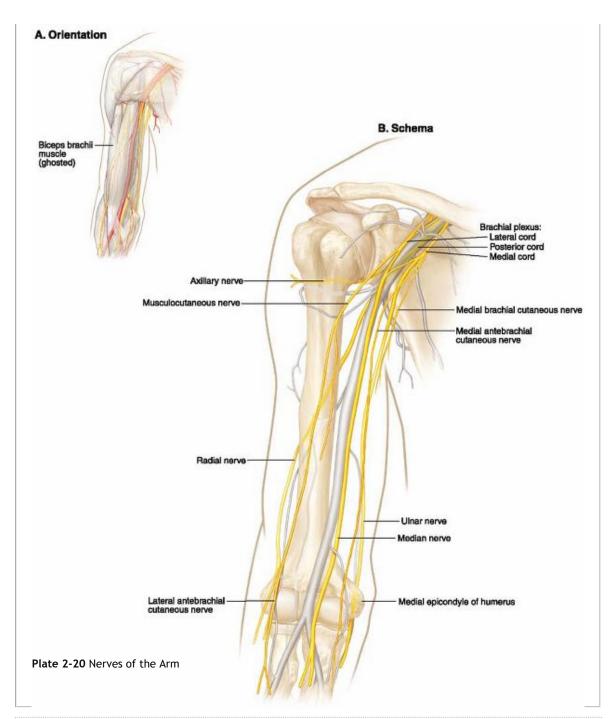
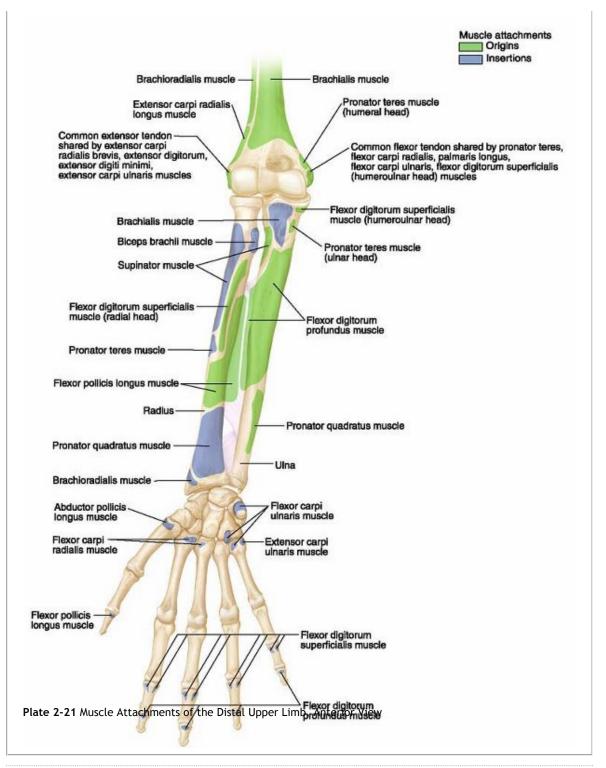


Plate 2-19 Arteries of the Arm	
	P.49





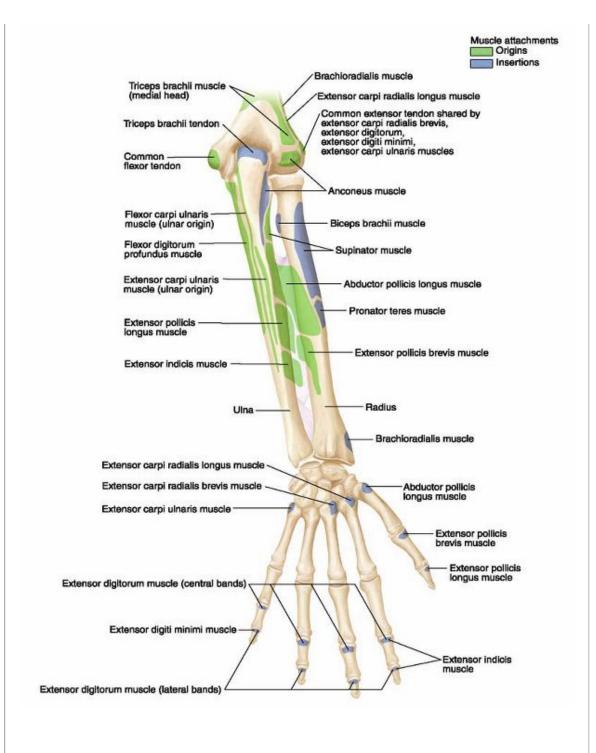
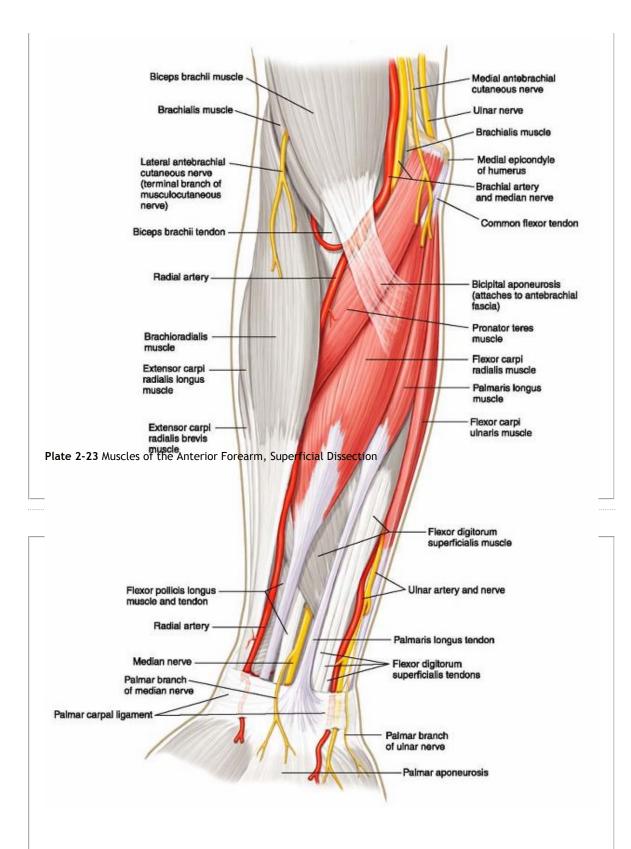
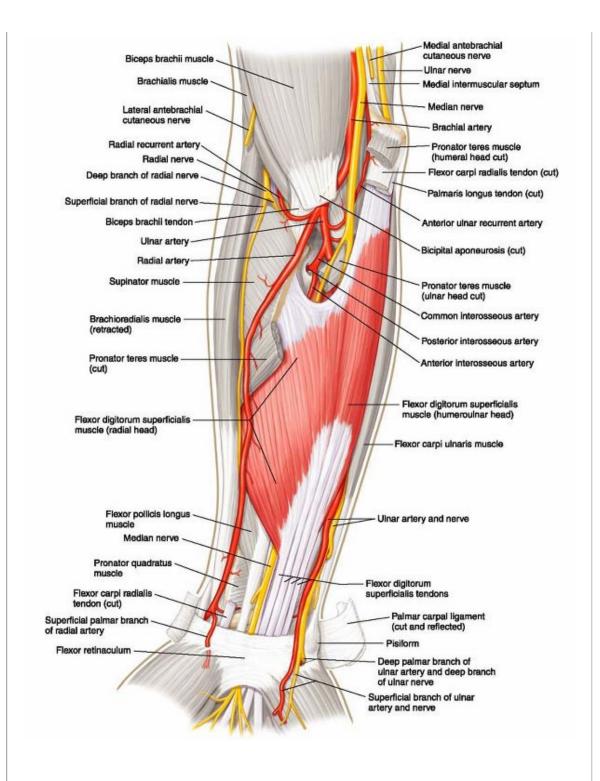
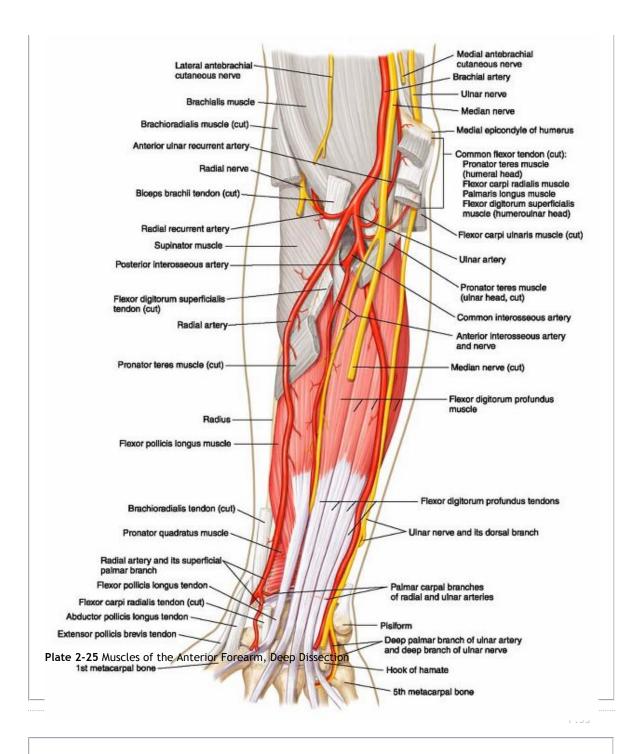


Plate 2-22 Muscle Attachments of the Distal Upper Limb, Posterior View	
	P.52





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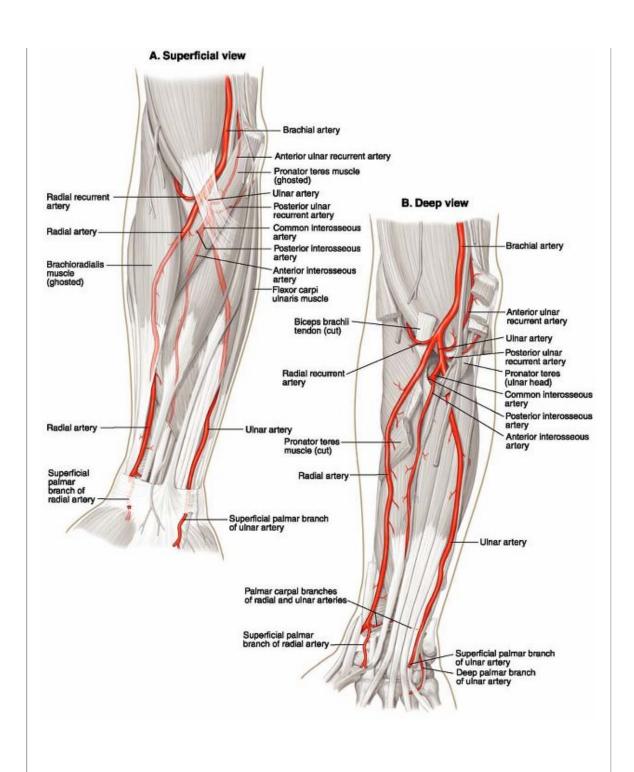


Plate 2-26 Arteries of the Anterior Forearm	
	P.56

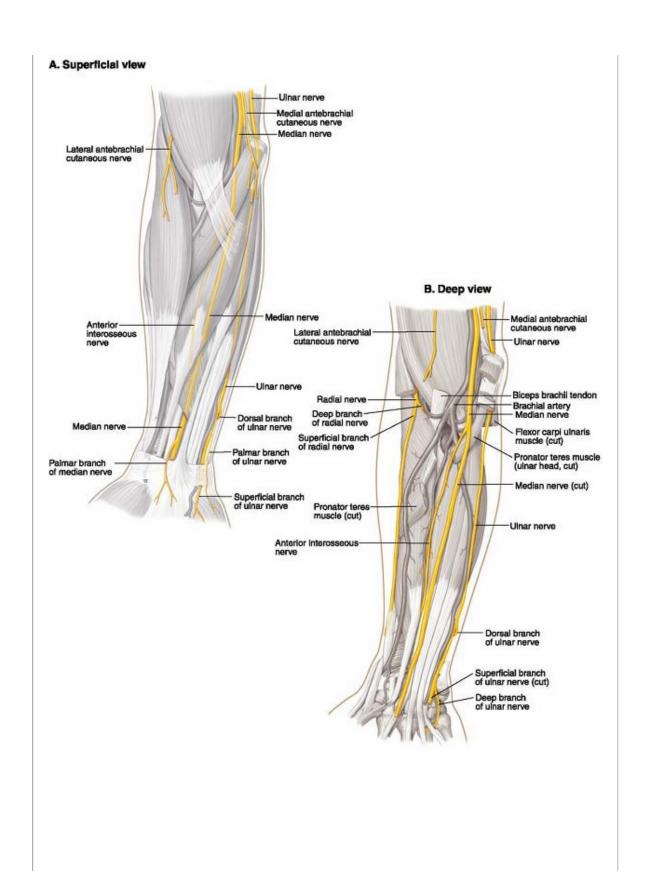
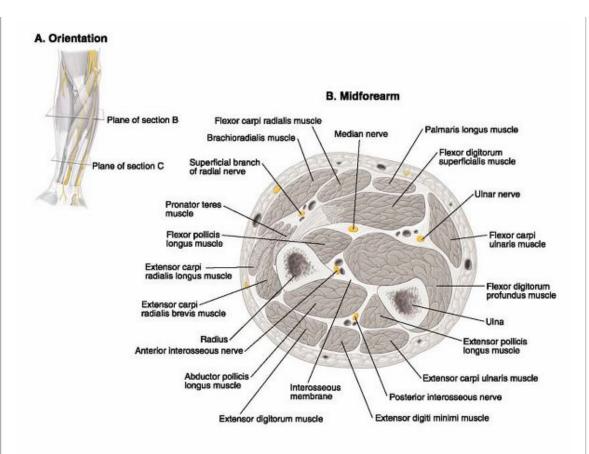
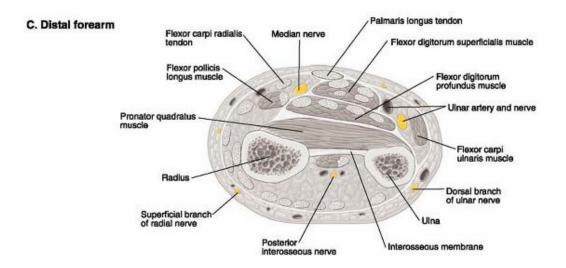
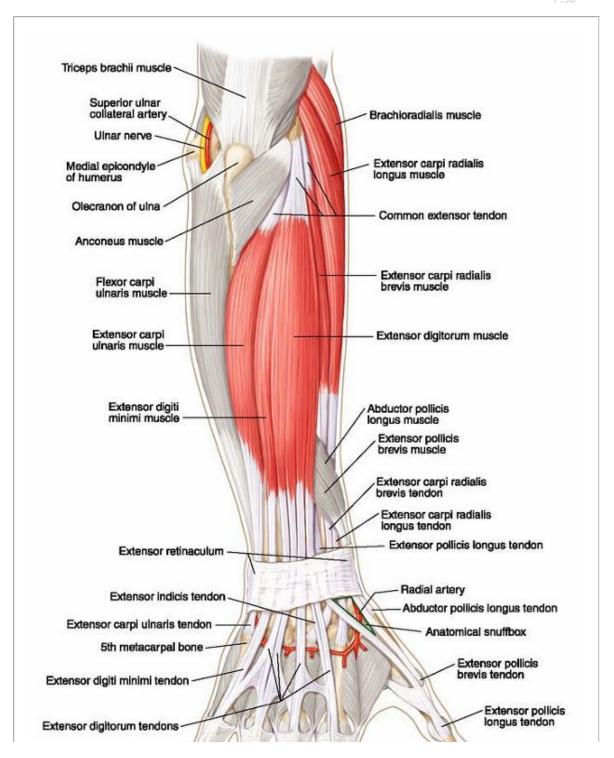


Plate 2-27 Nerves of the Anterior Forearm	
	P.57

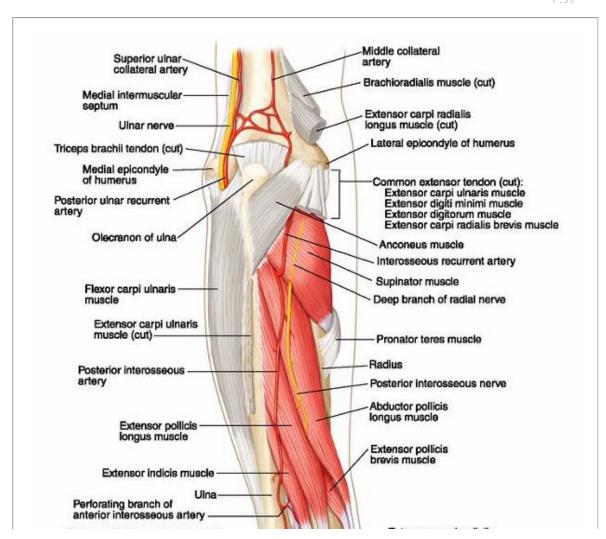


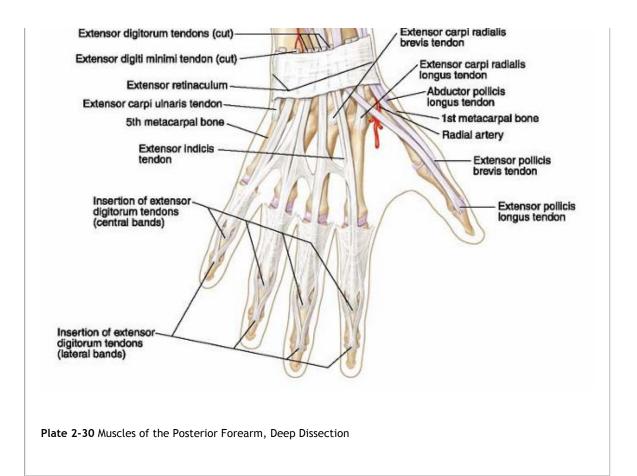


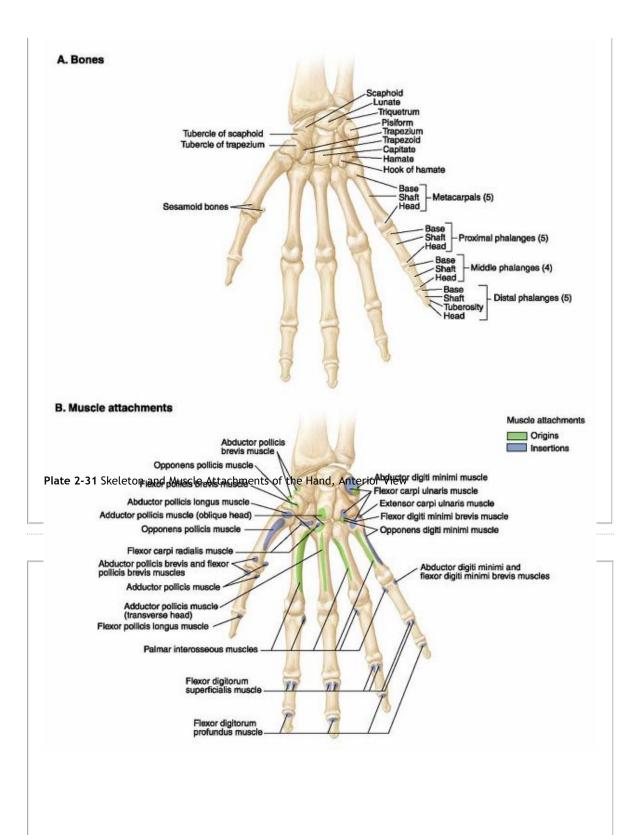


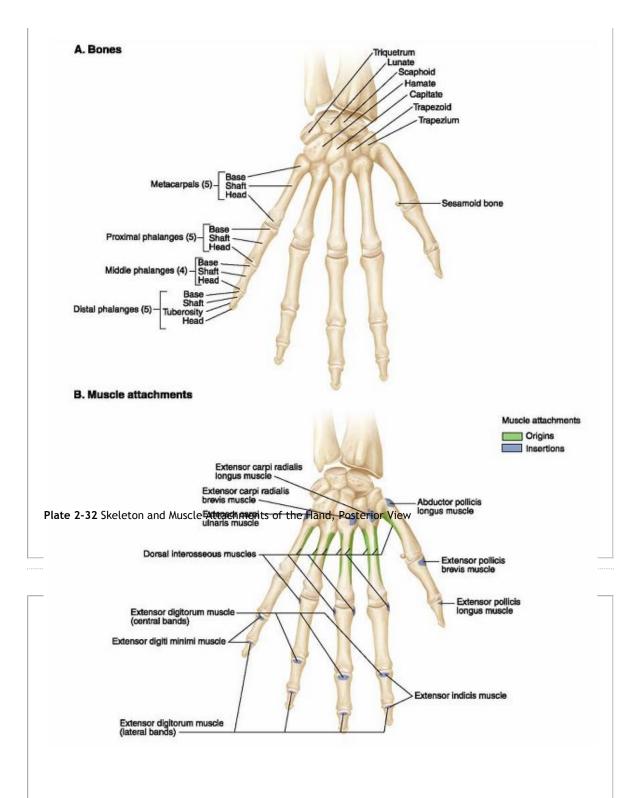


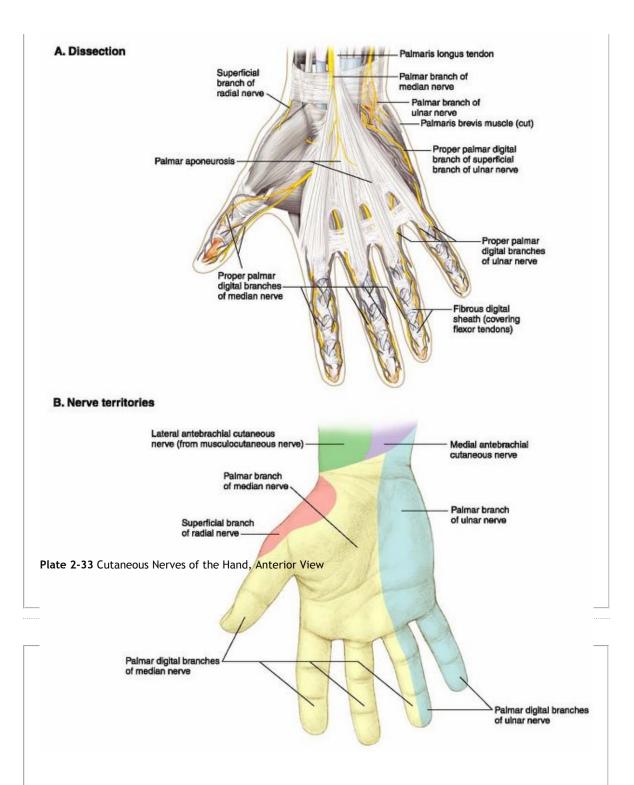
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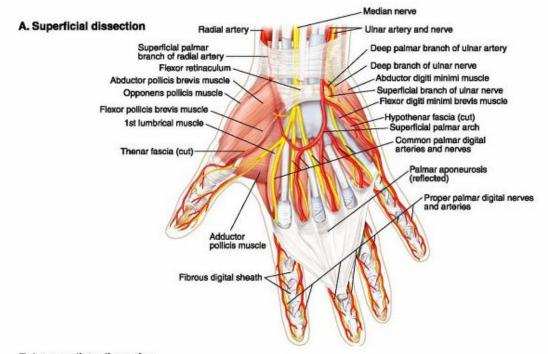




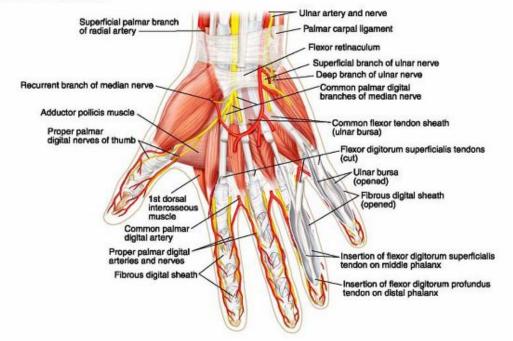


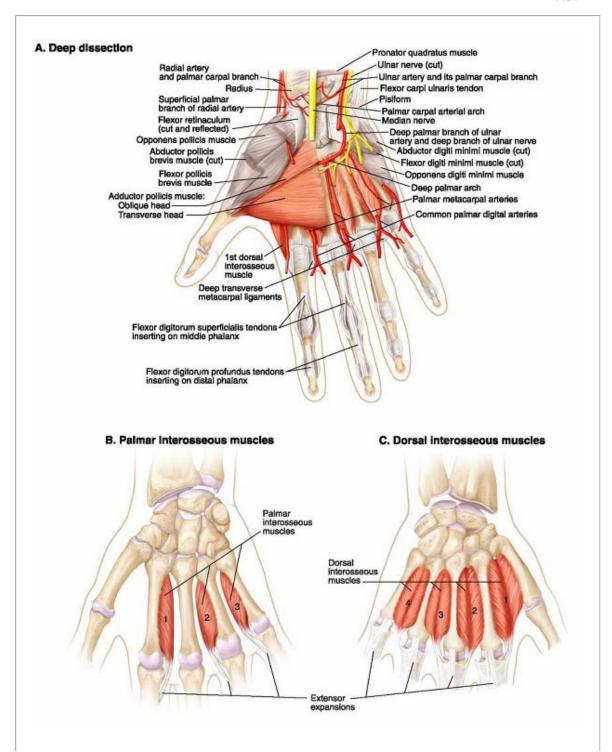




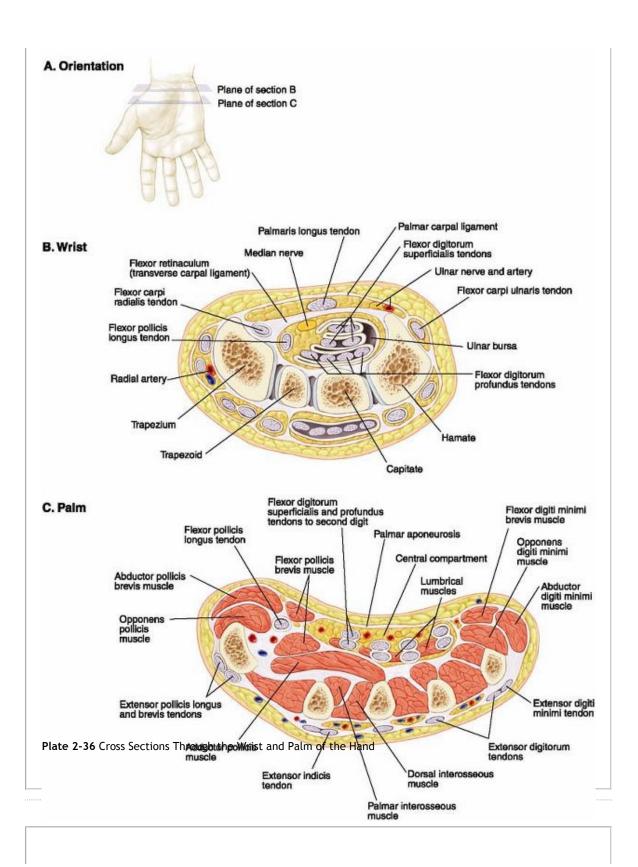


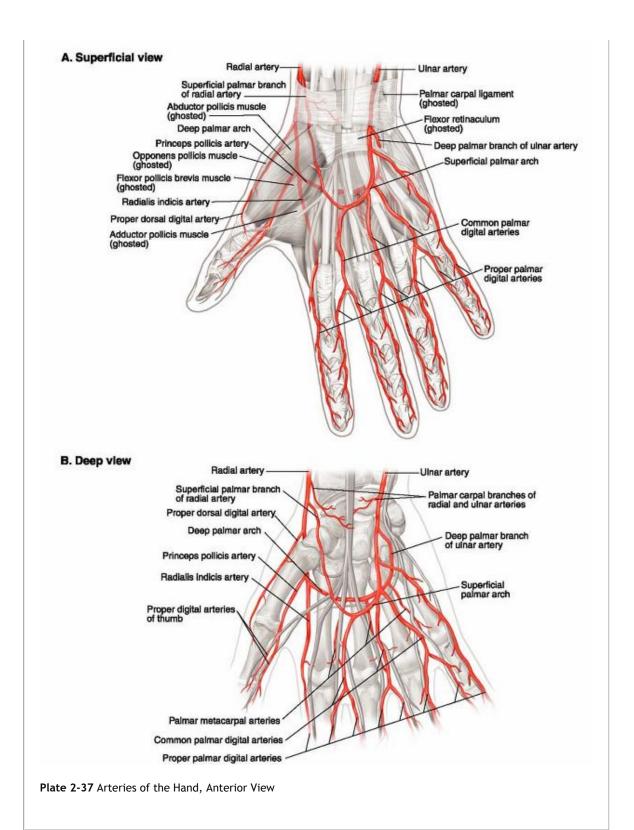
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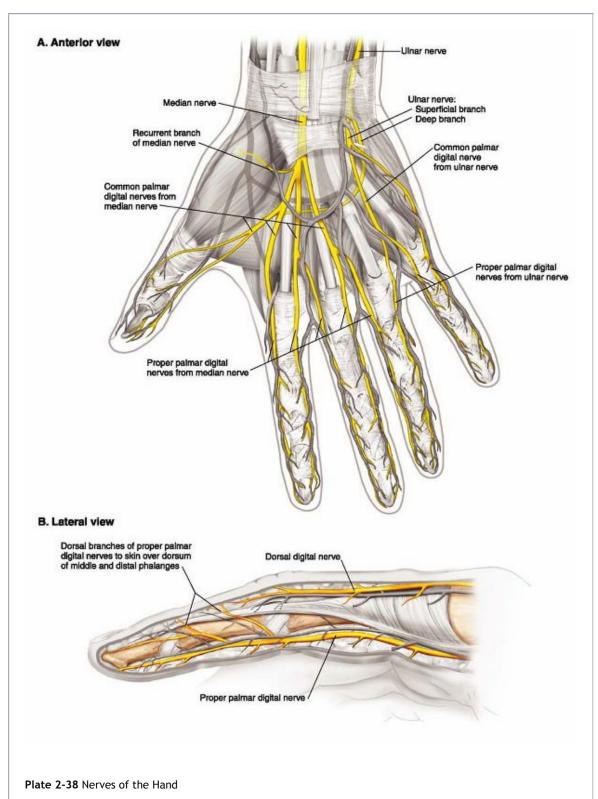


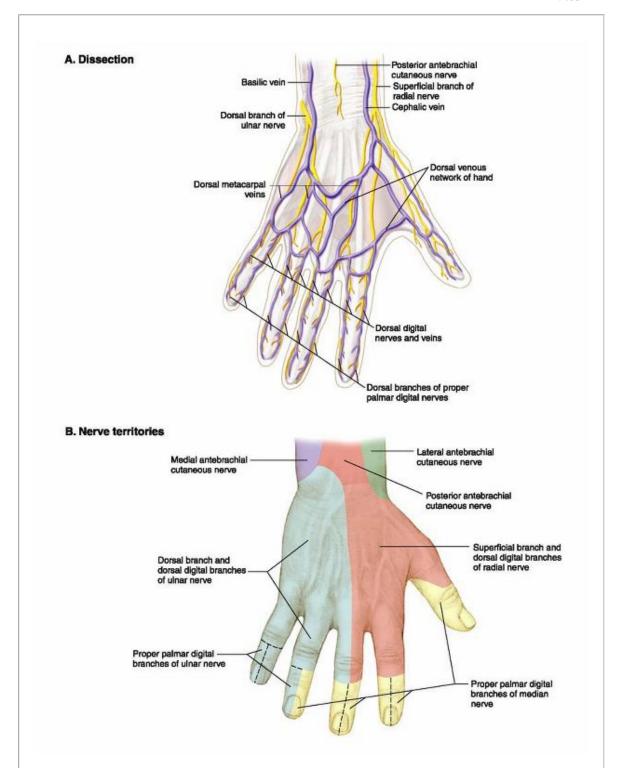


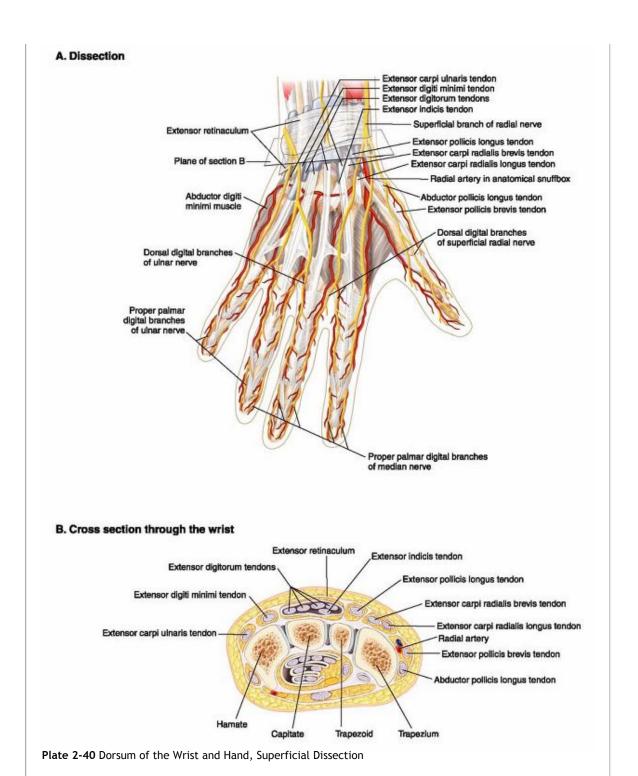
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Plate 2-35 Wrist and Palm of the Hand II		
	P.	.65











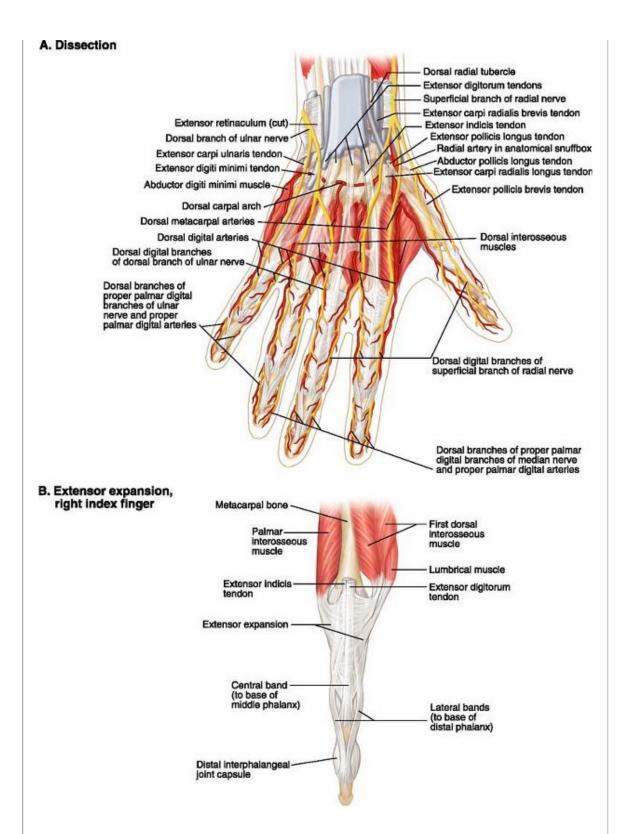
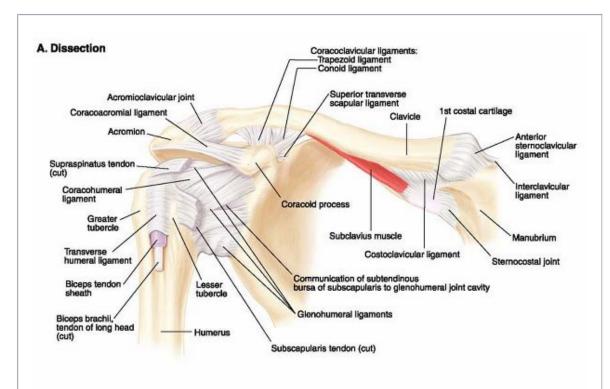


Plate 2-41 Dorsum of the Wrist and Hand, Deep Dissection



B. Shoulder joint, coronal section

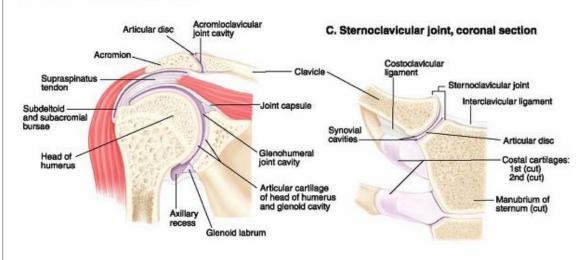
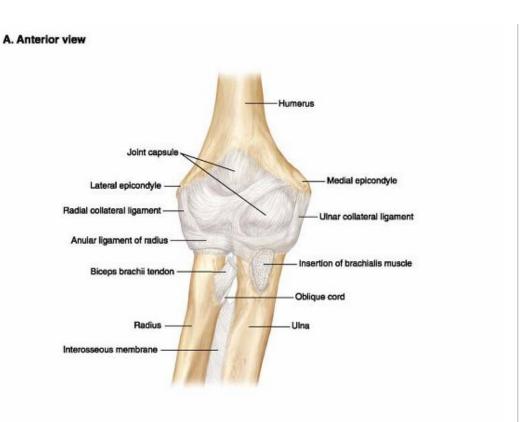
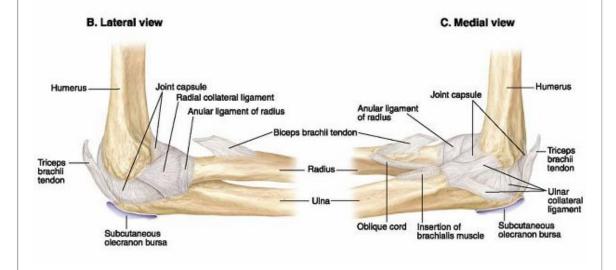


Plate 2-42 Joints of the Proximal Upper Limb	P.72





Nete 2 42 File out leint	
late 2-43 Elbow Joint	
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	1.73

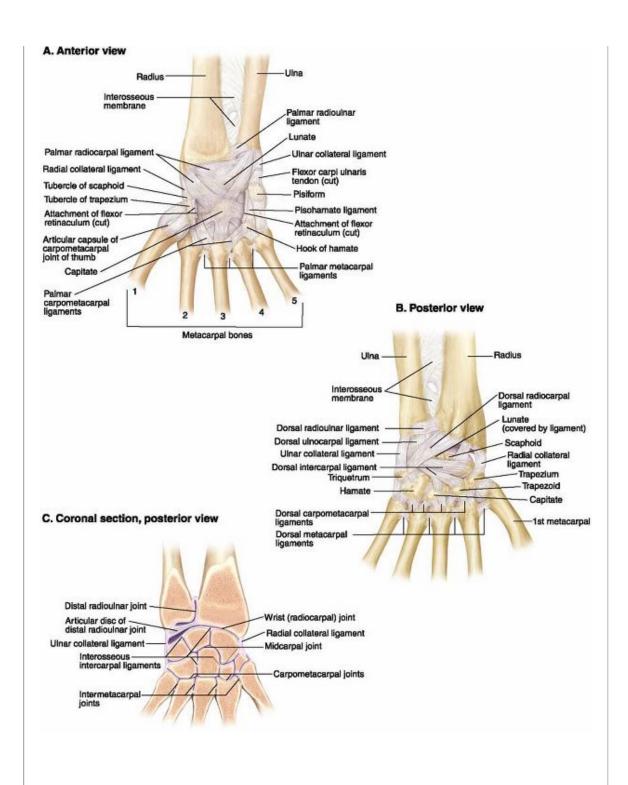
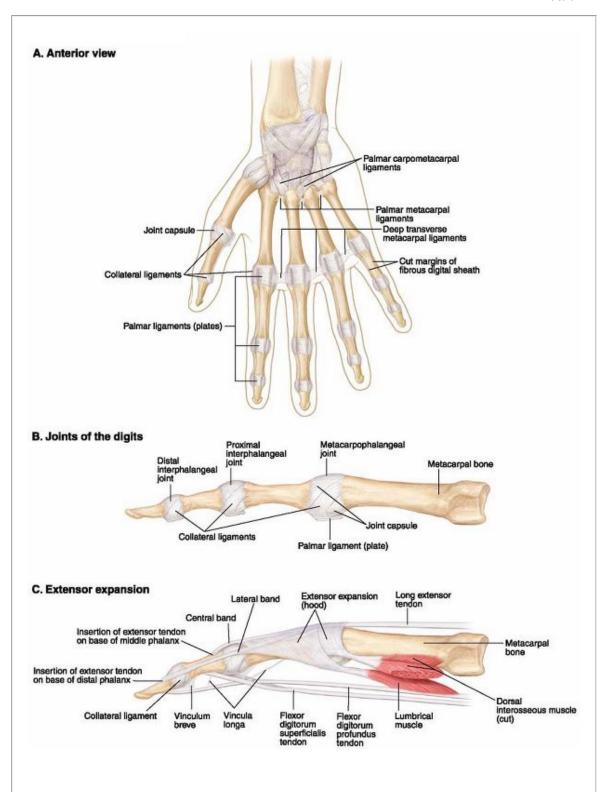
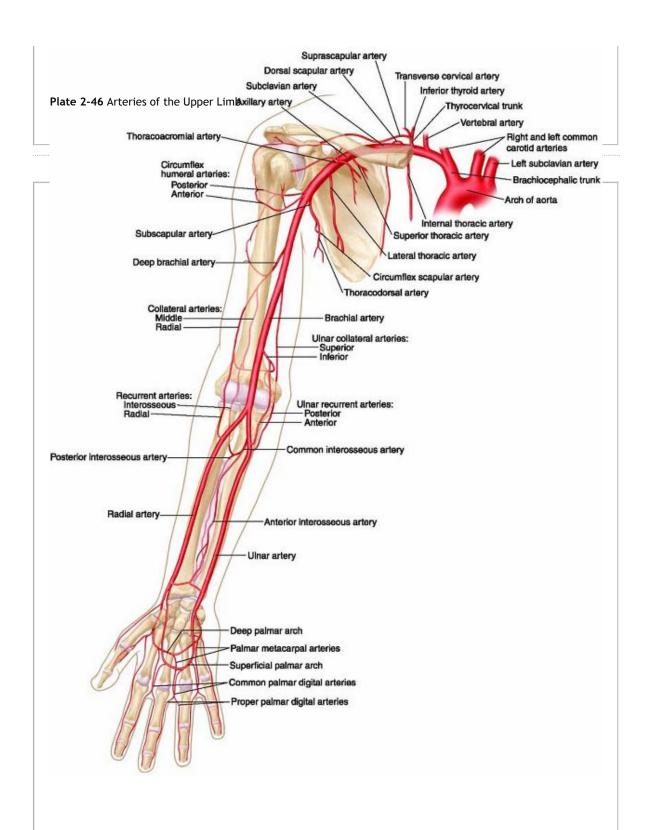
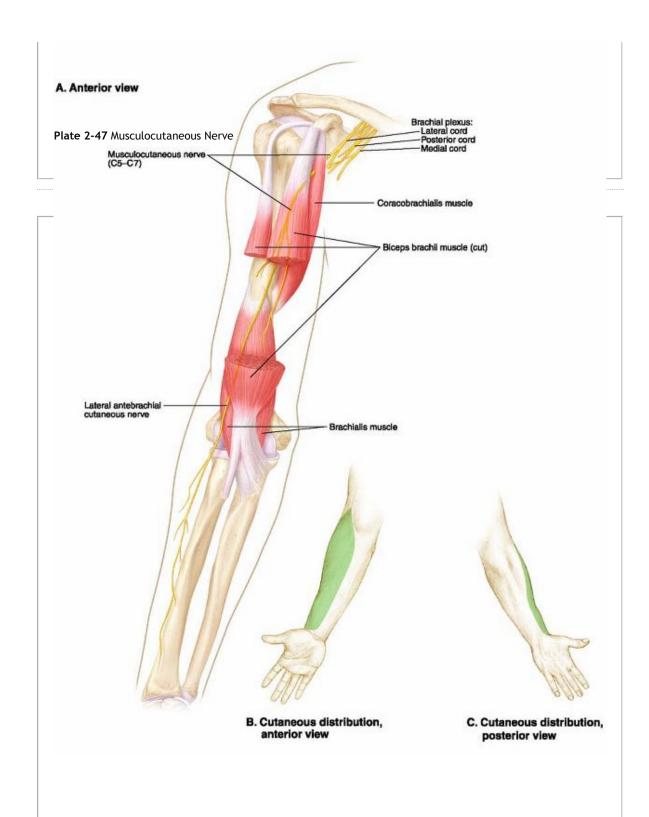


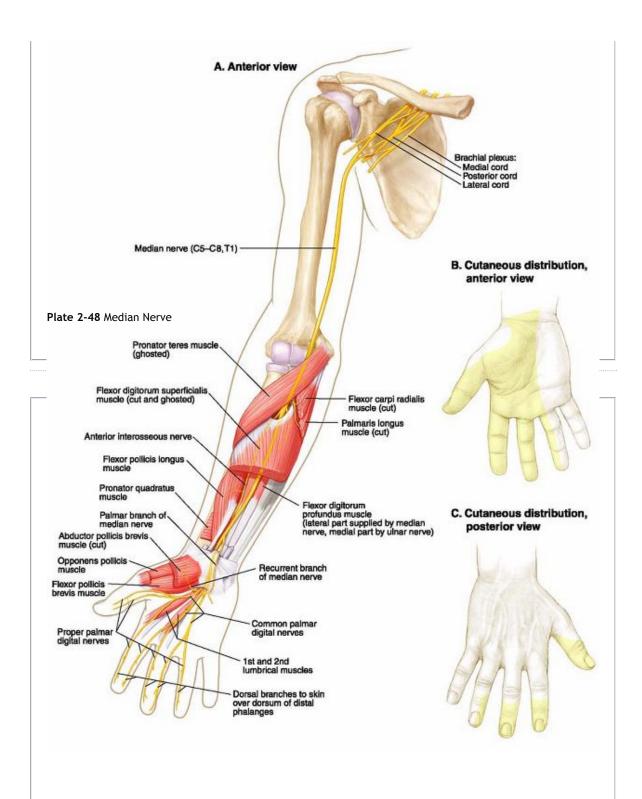
Plate 2-44 Joints of the Wrist

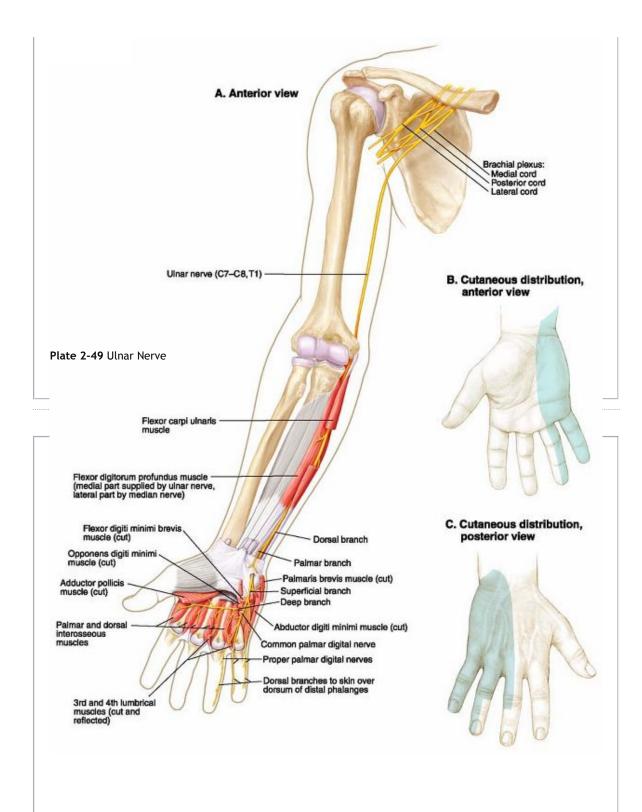


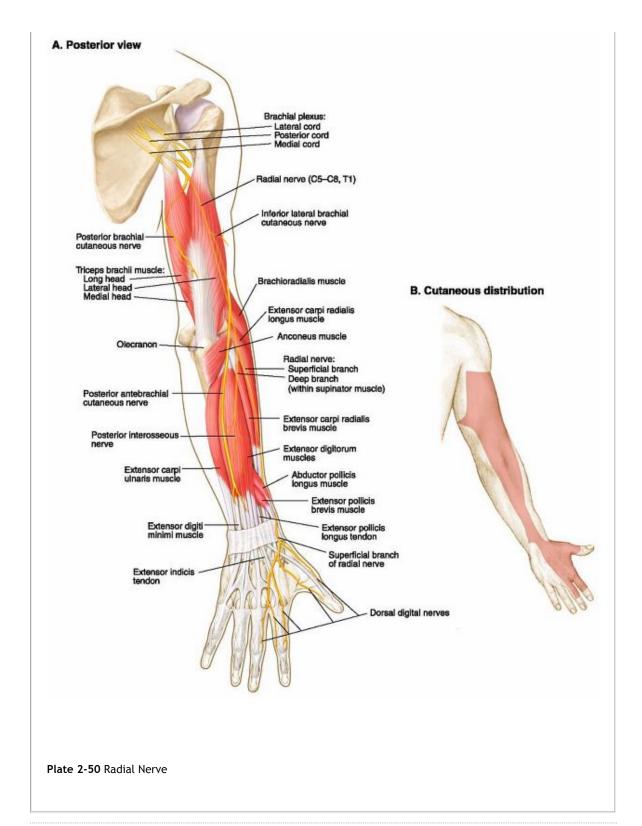
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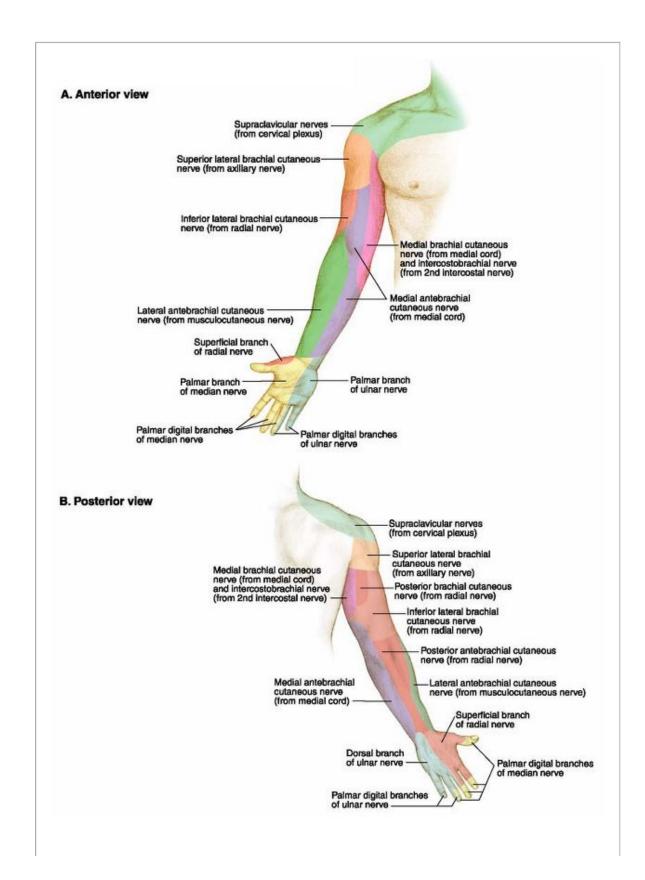












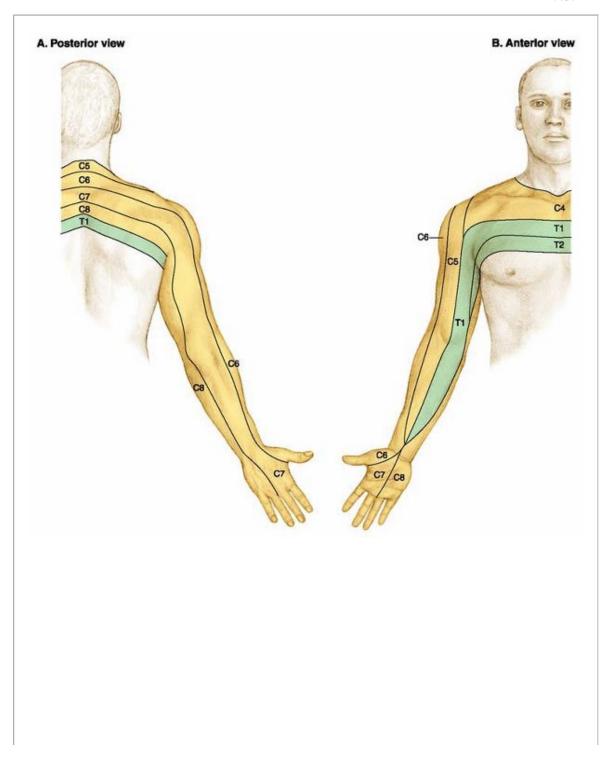
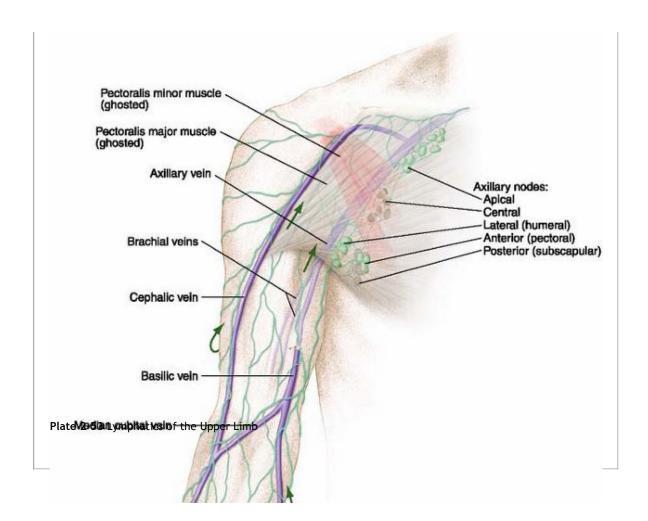


Plate 2-52 Dermatomes of the Upper Limb	P.82



Authors: Tank, Patrick W.; Gest, Thomas R.

Title: Lippincott Williams & Wilkins Atlas of Anatomy, 1st Edition

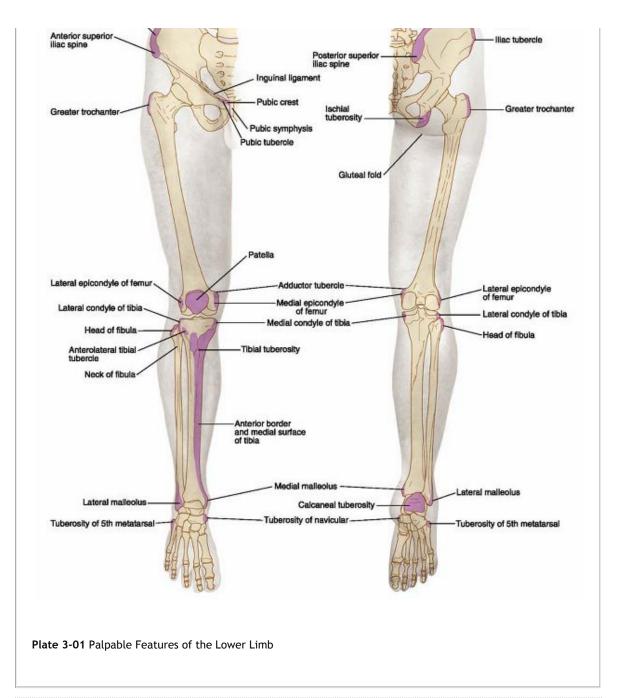
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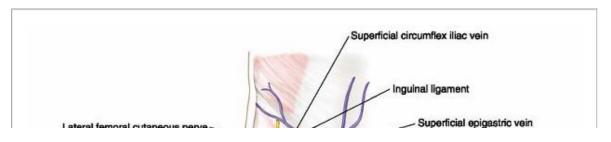
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Chapter 3

The Lower Limb







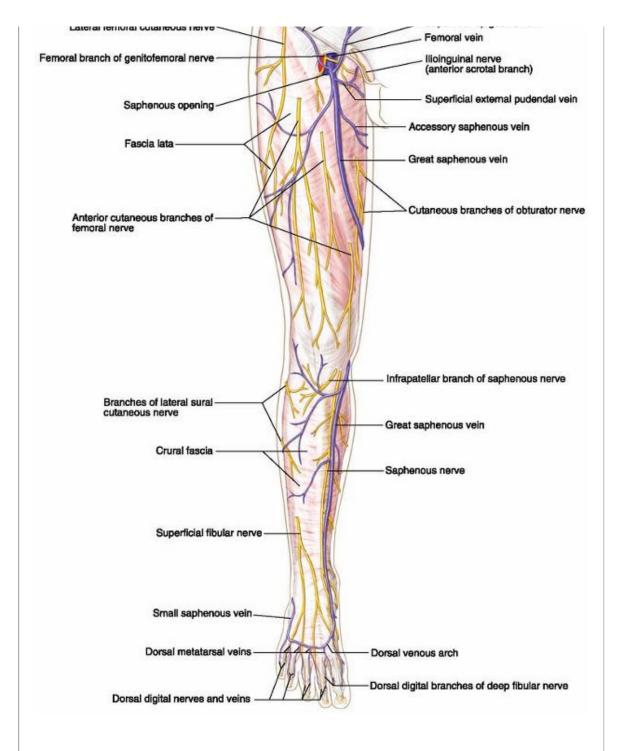
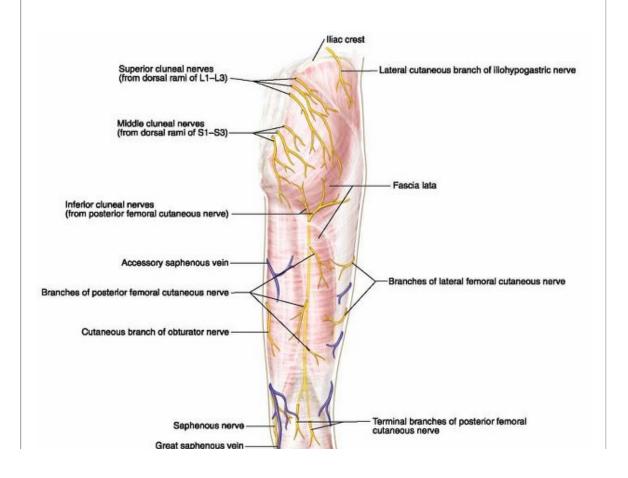


Plate 3-02 Cutaneous Nerves and Superficial Veins of the Lower Limb, Anterior View



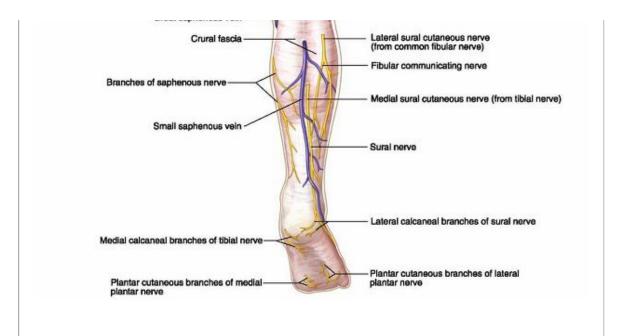
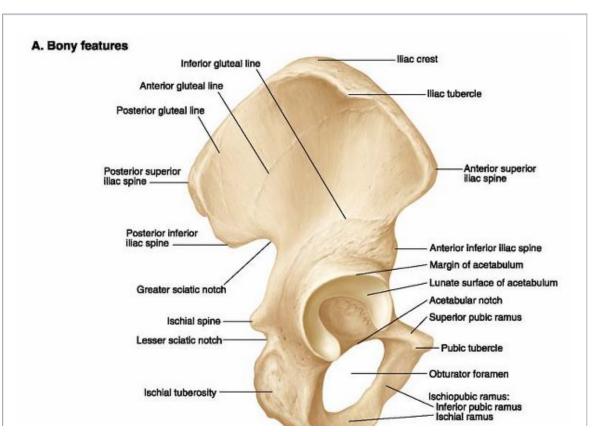
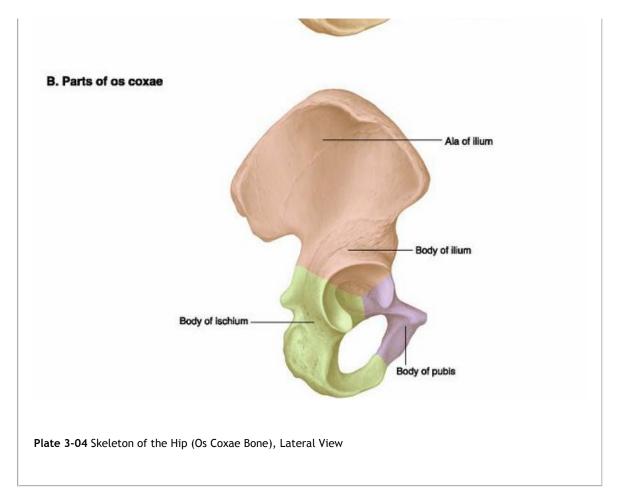
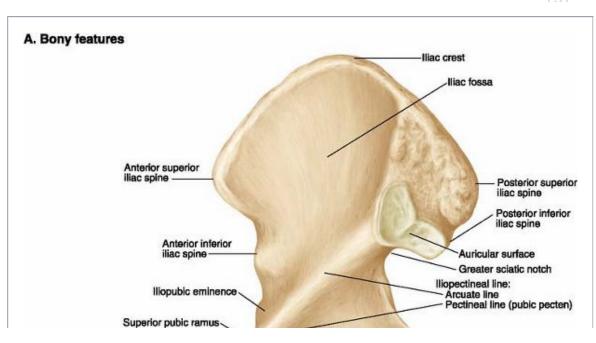
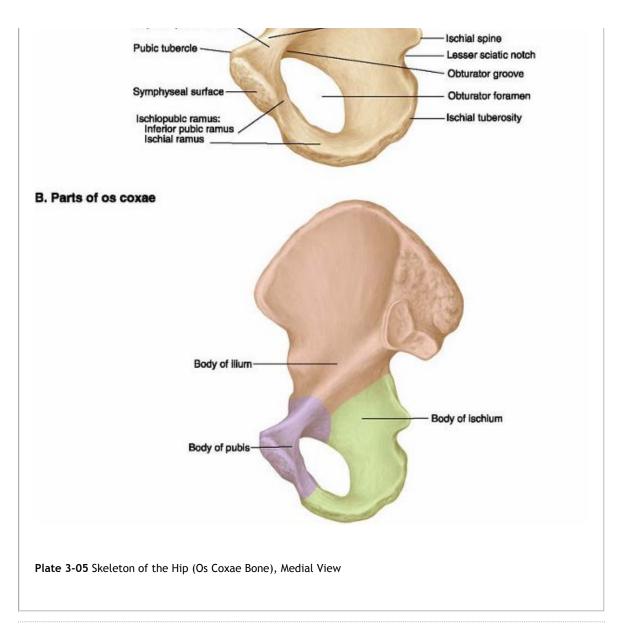


Plate 3-03 Cutaneous Nerves and Superficial Veins of the Lower Limb, Posterior View

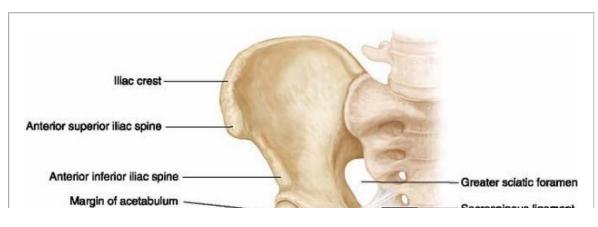












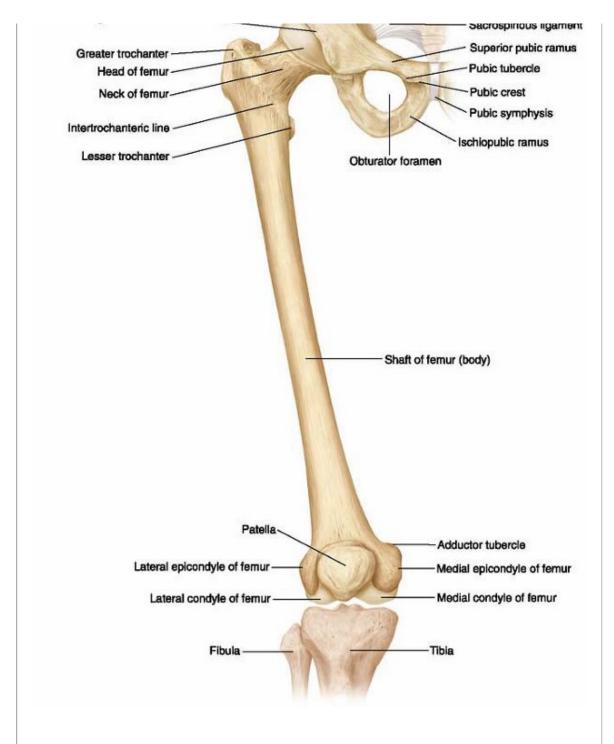
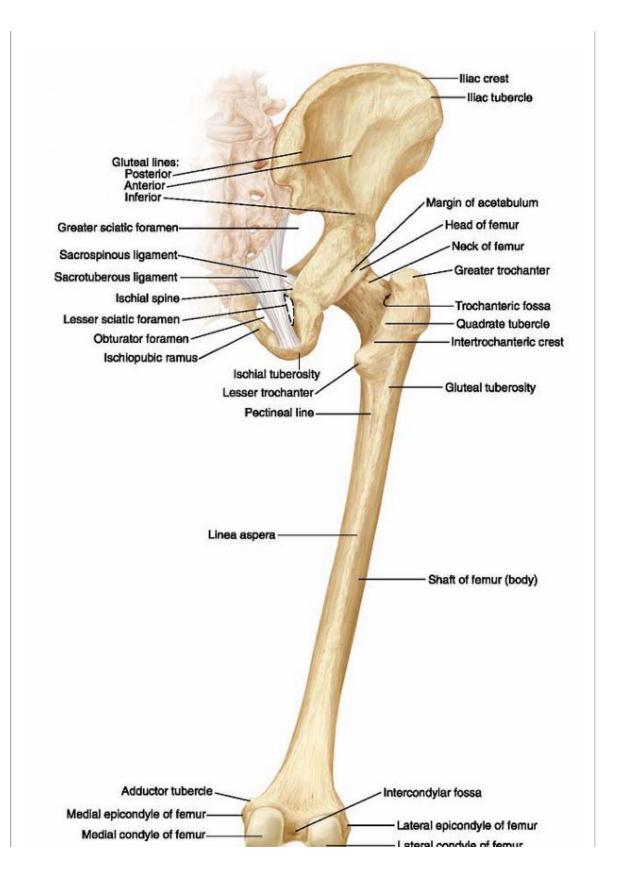
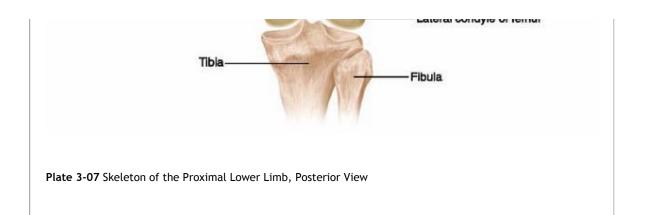
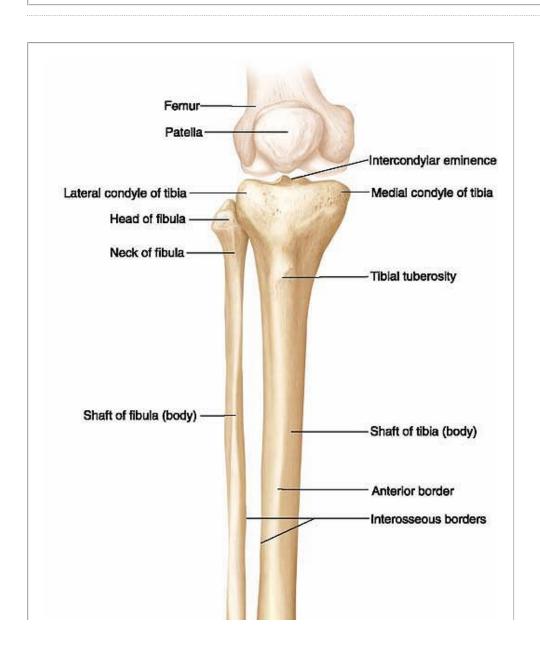
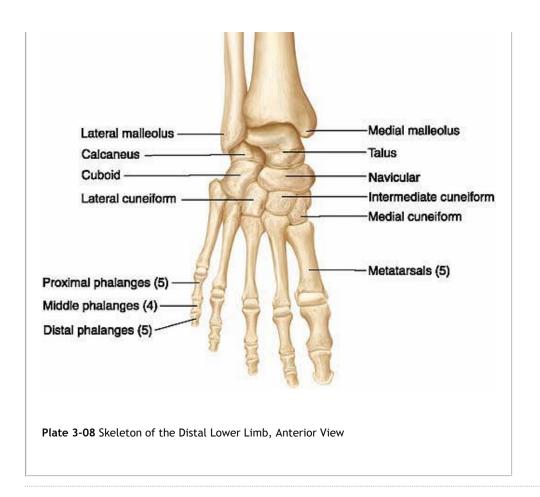


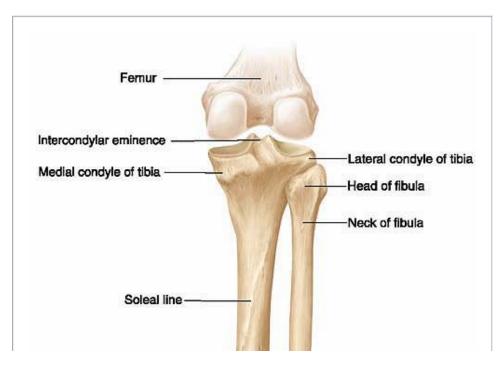
Plate 3-06 Skeleton of the Proximal Lower Limb, Anterior View

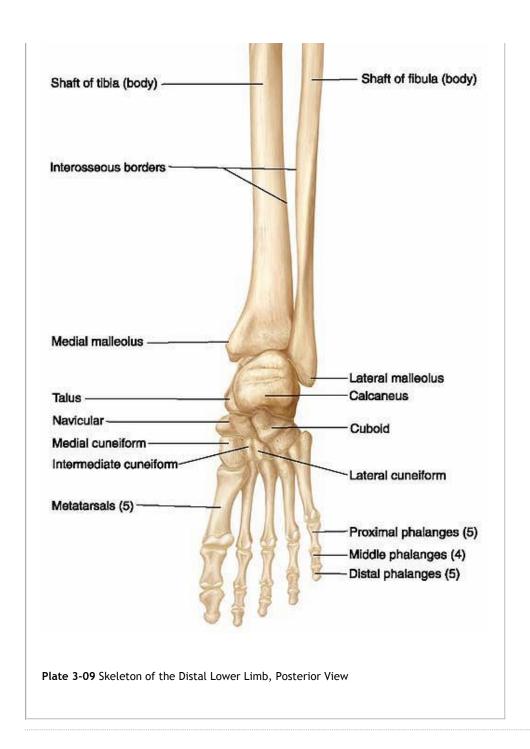








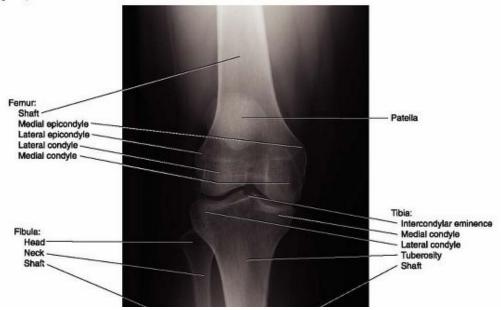




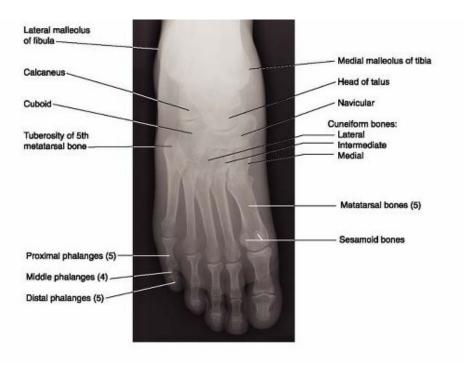
A. Hip joint, anterior view



B. Knee joint, anterior view







B. Lateral view

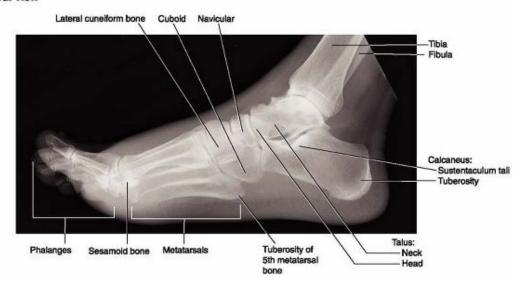


Plate 3-11 Radiographs of the Foot and Ankle

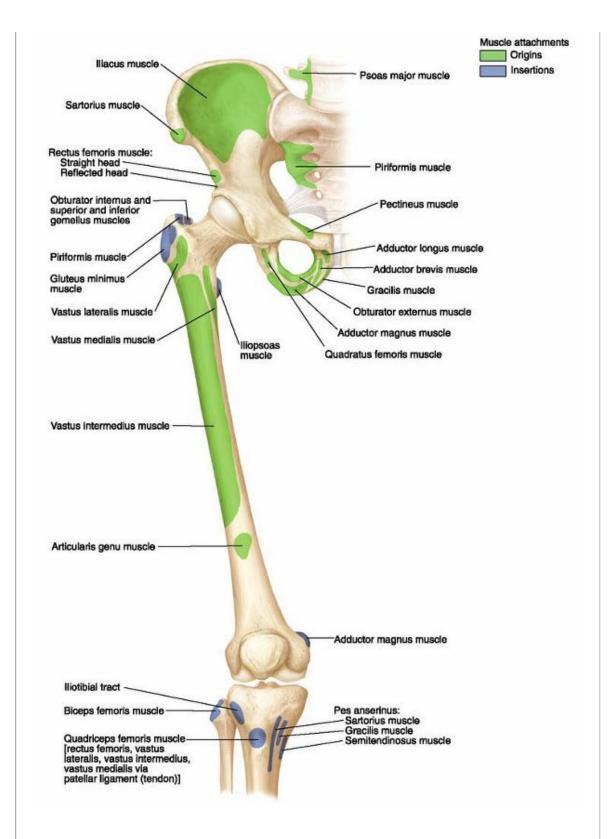
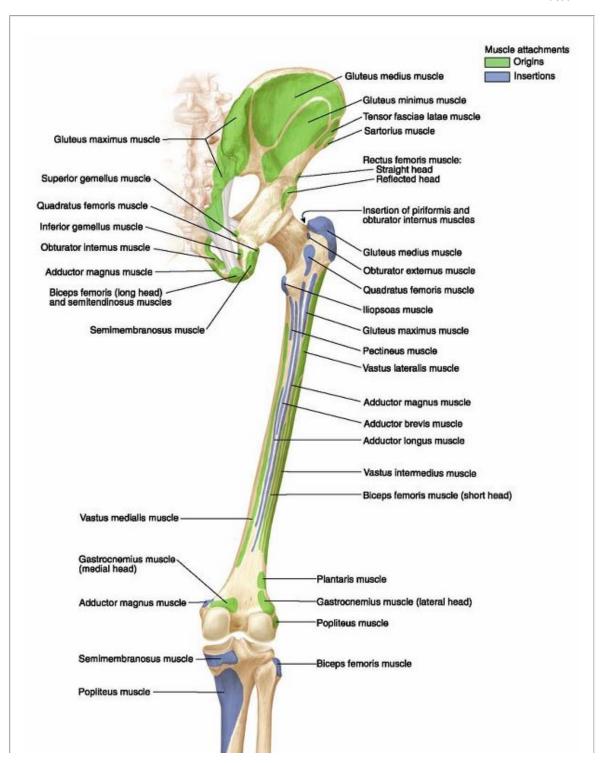
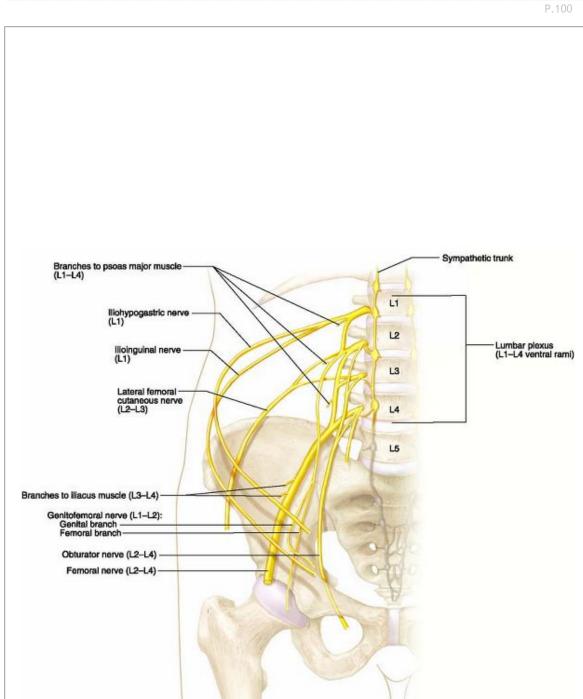
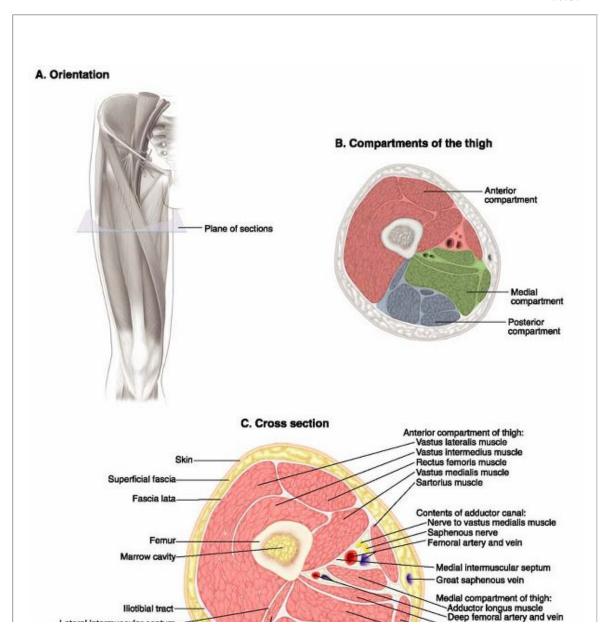
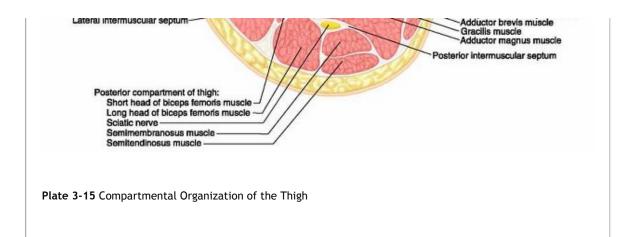


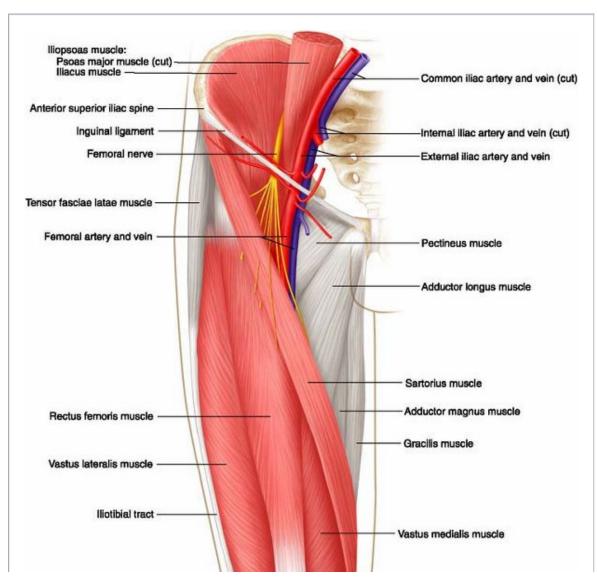
Plate 3-12 Muscle Attachments of the Proximal Lower Limb. Anterior View











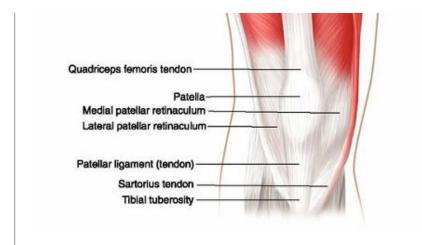
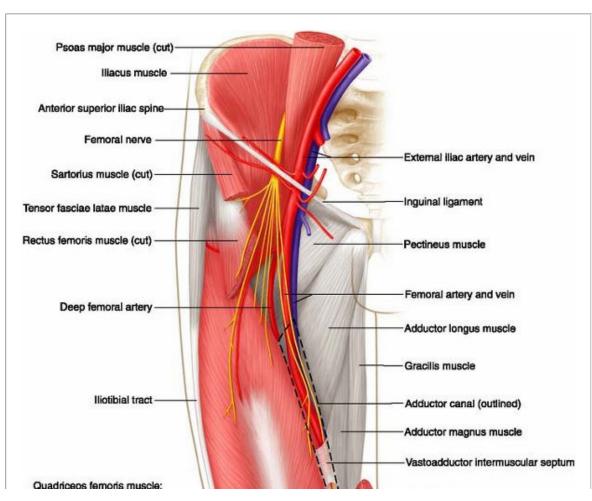
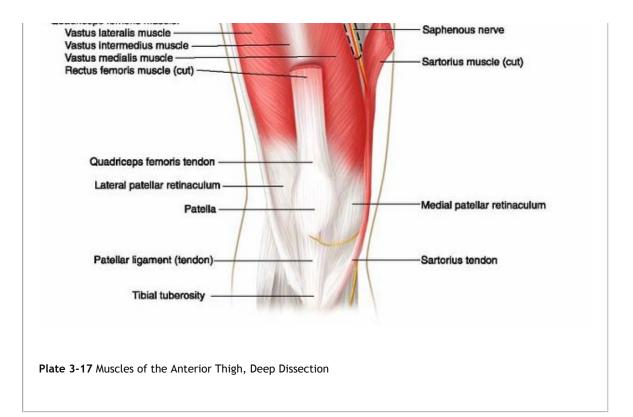
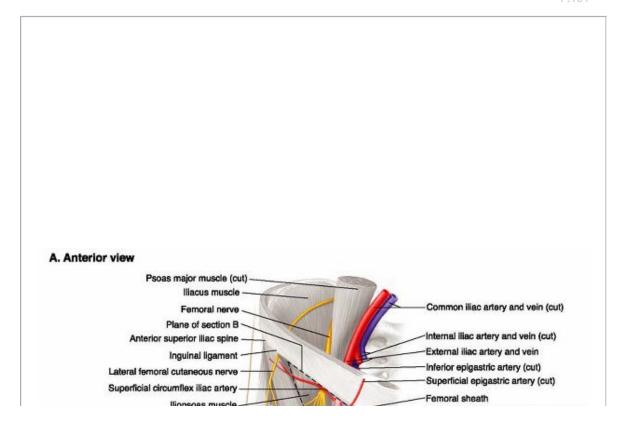
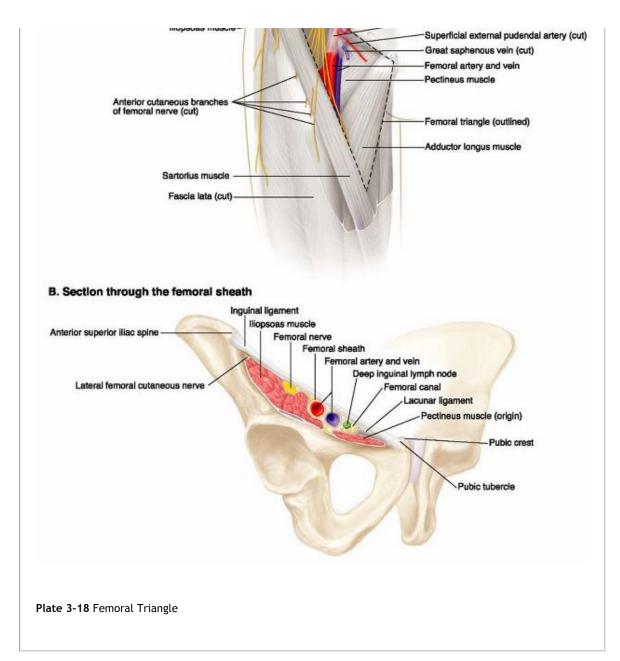


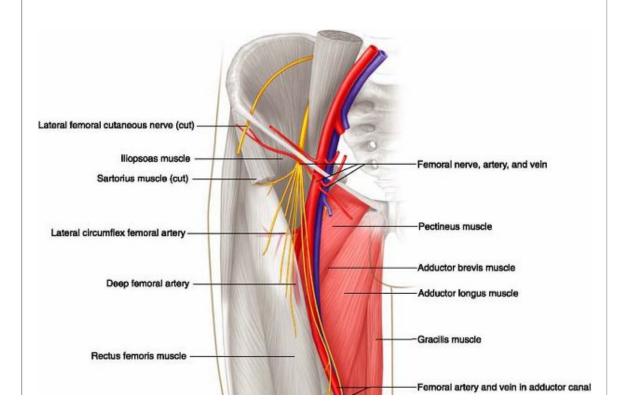
Plate 3-16 Muscles of the Anterior Thigh, Superficial Dissection

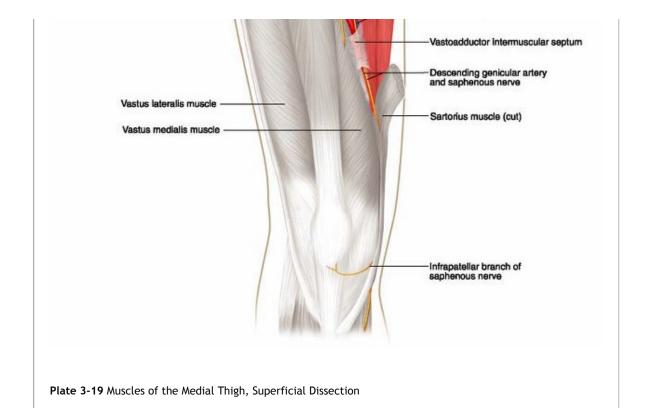












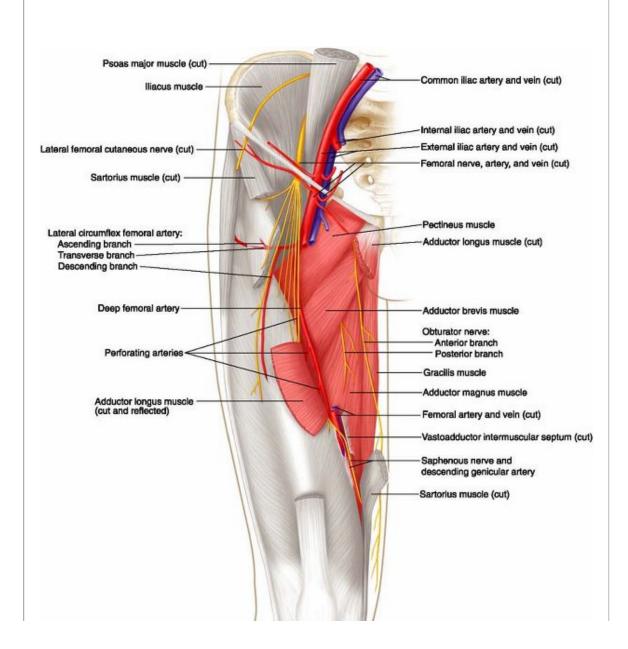




Plate 3-20 Muscles of the Medial Thigh, Intermediate Dissection

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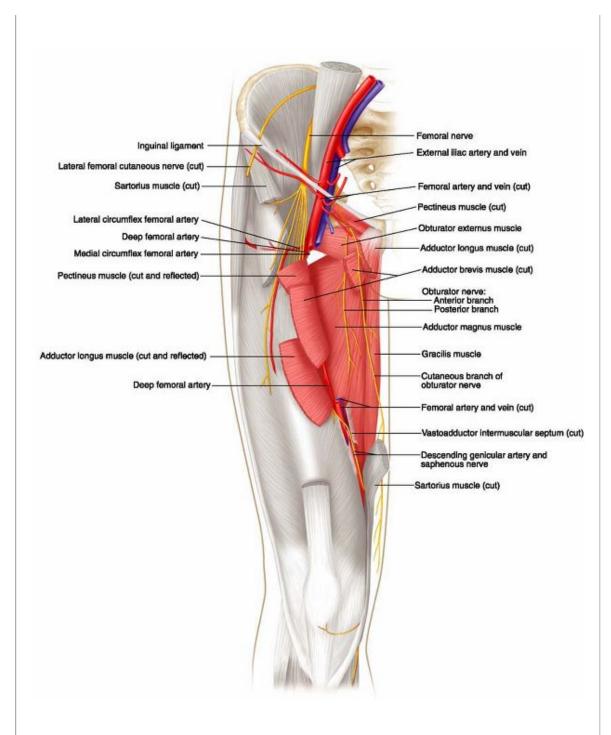


Plate 3-21 Muscles of the Medial Thigh, Deep Dissection

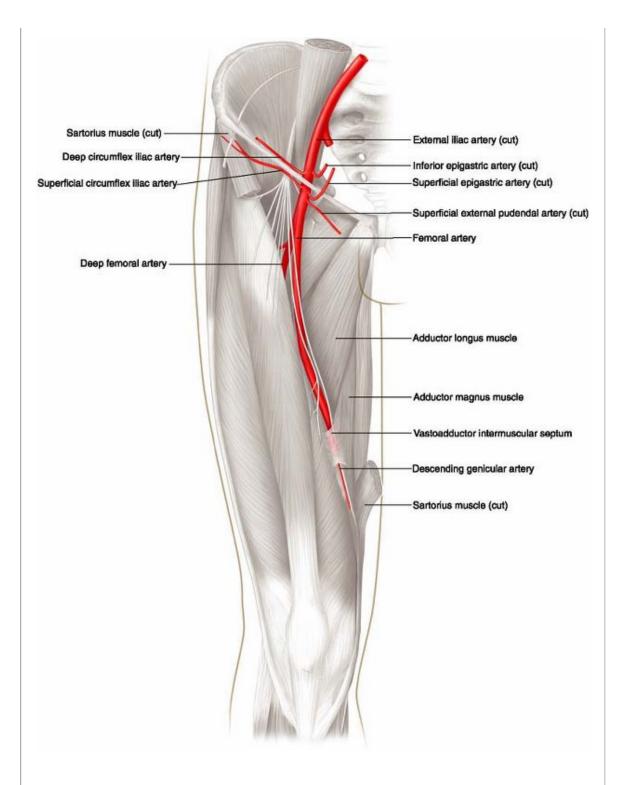
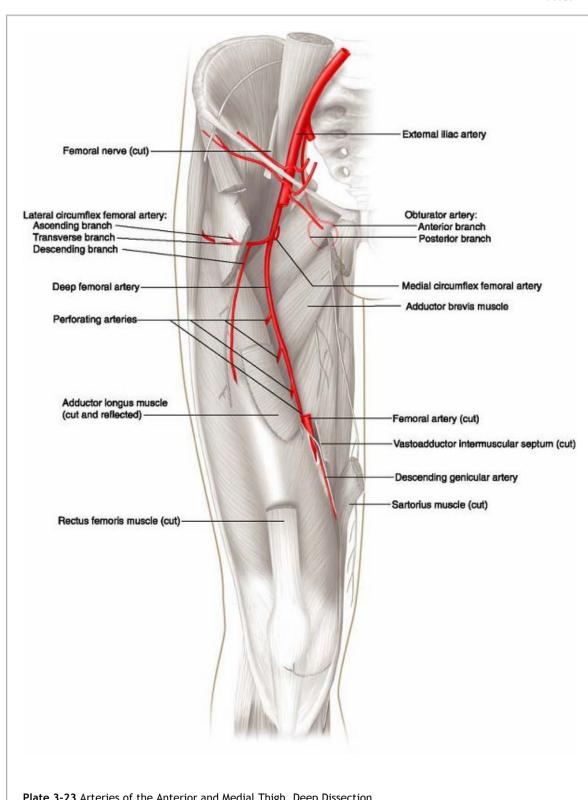
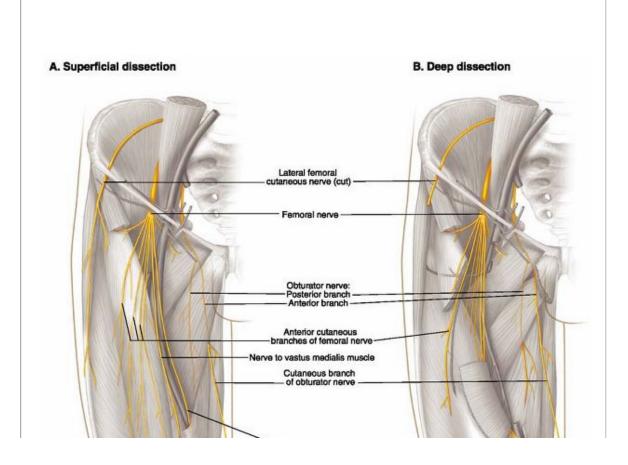
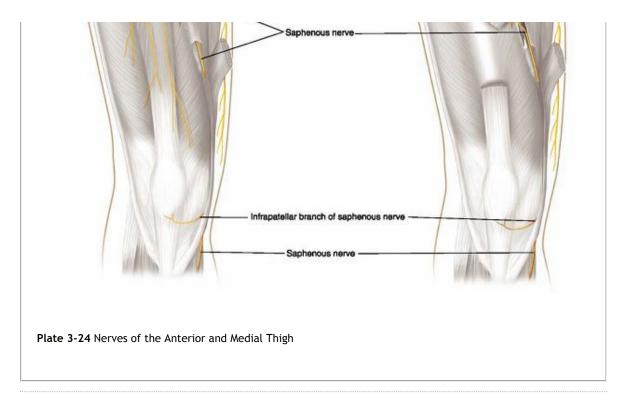
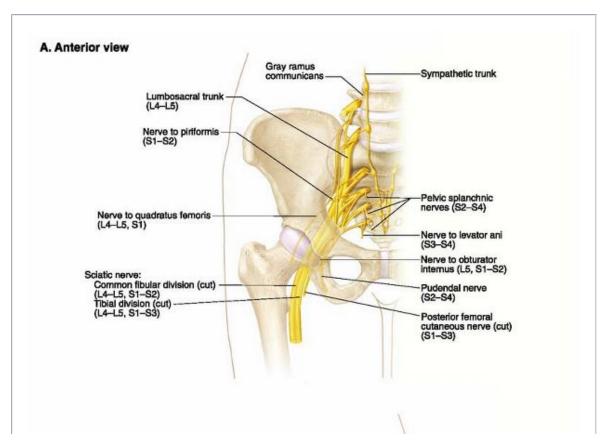


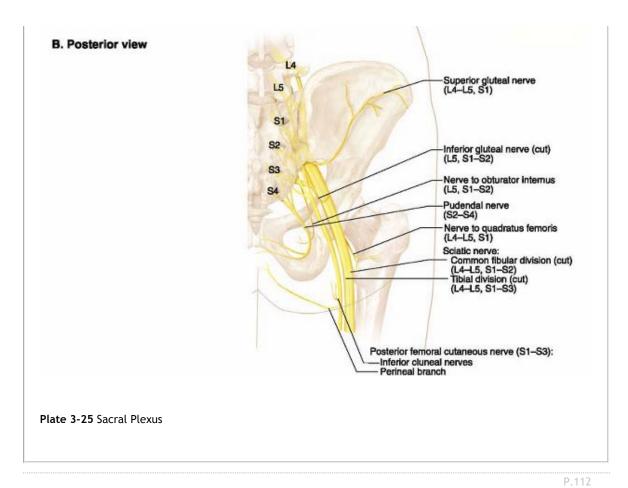
Plate 3-22 Arteries of the Anterior and Medial Thigh, Superficial Dissection

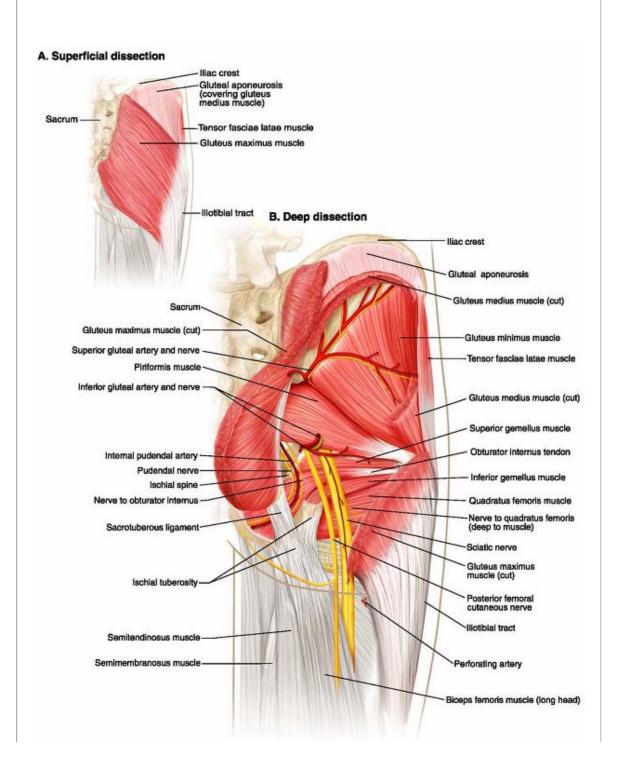




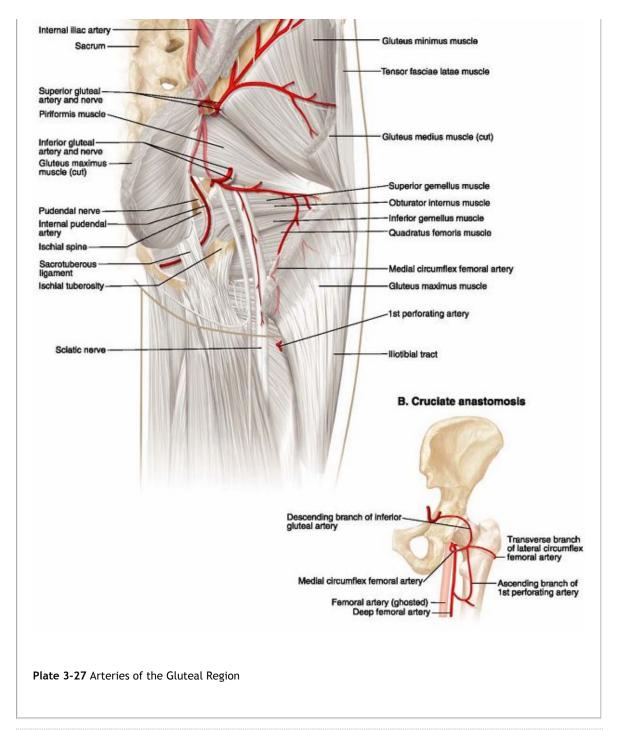


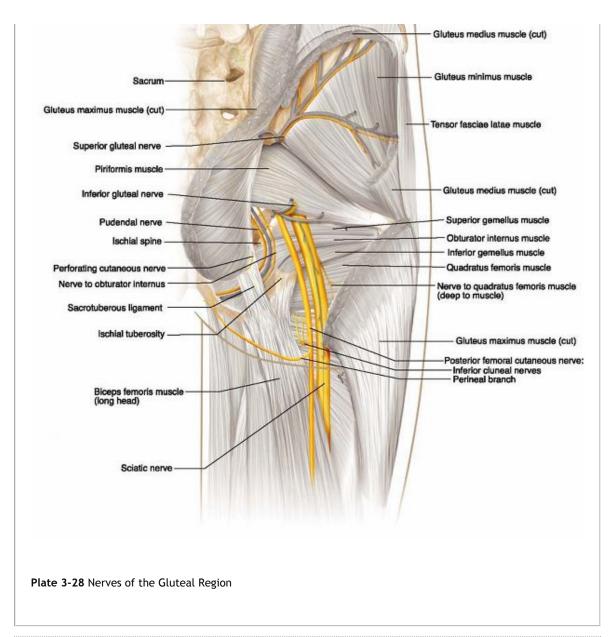


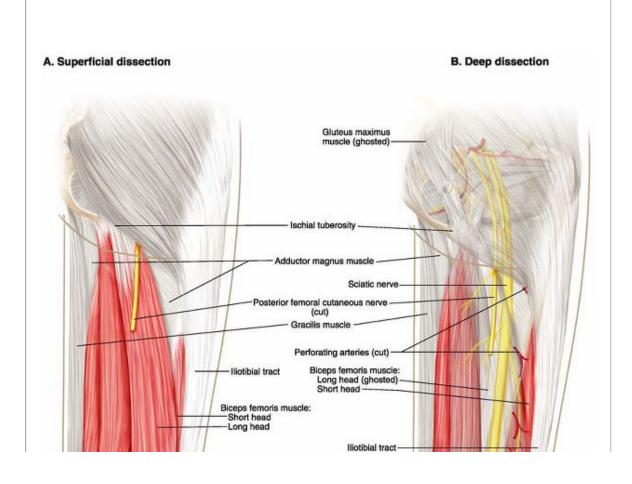


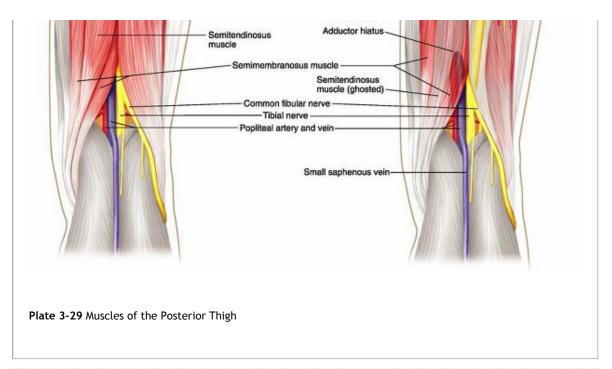


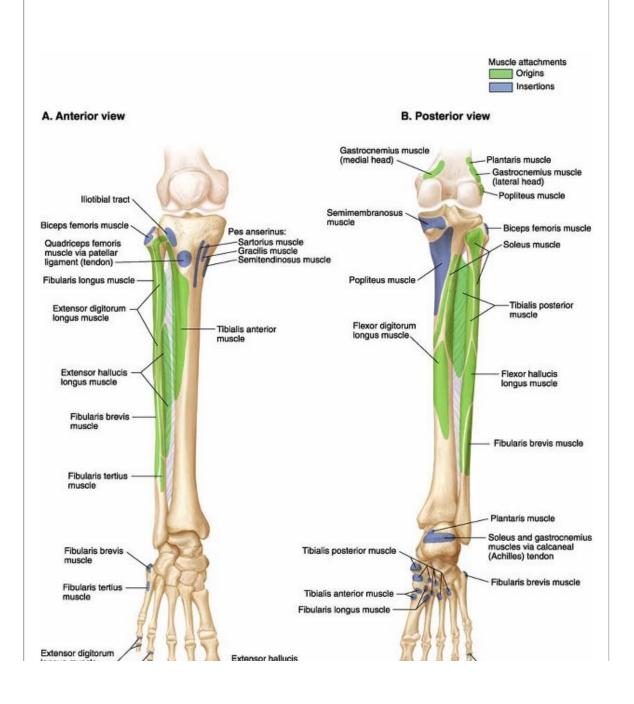
A. Arteries Iliac crest Gluteal aponeuroals	Plate 3-26 Muscles of the Gluteal Region	
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Glutous madus muscle (cut)	Common illac artery	aponeurosis medius muscle (cut)

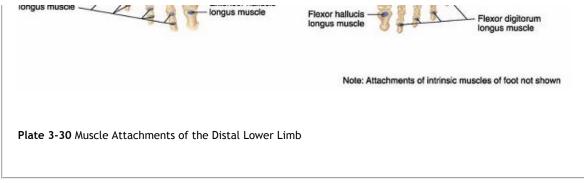




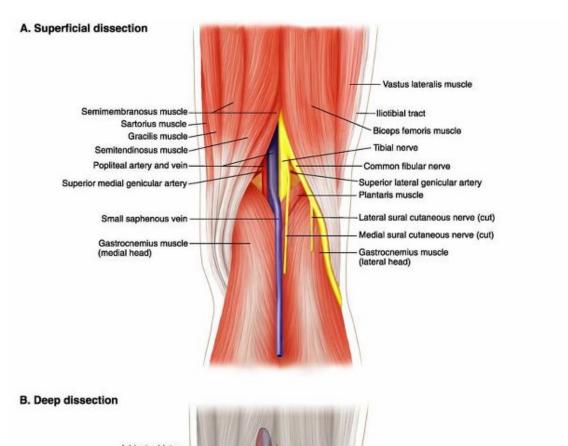








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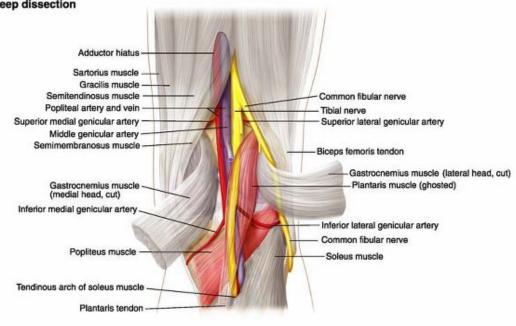
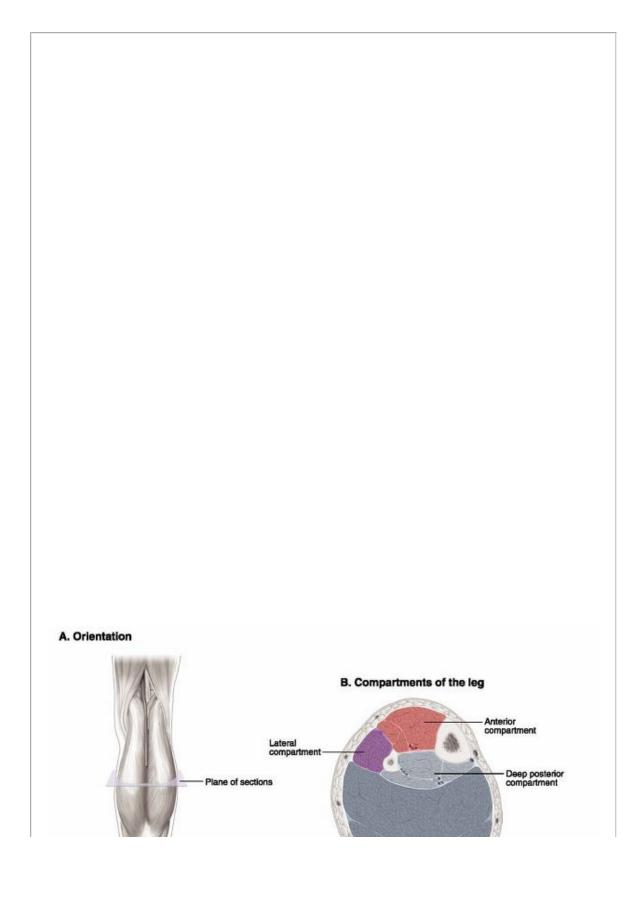
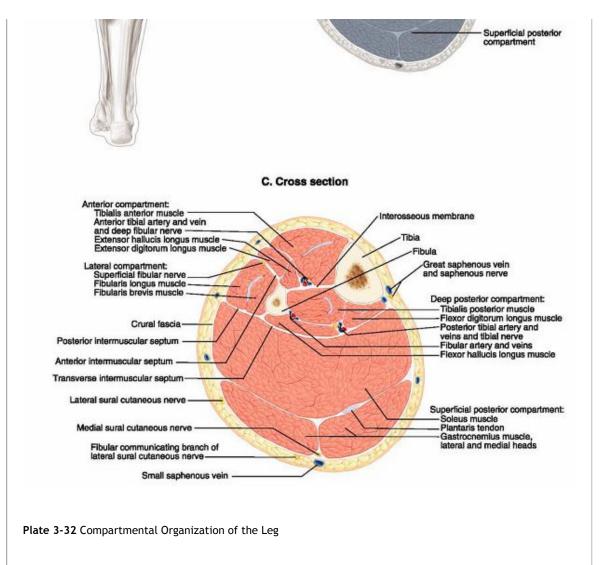
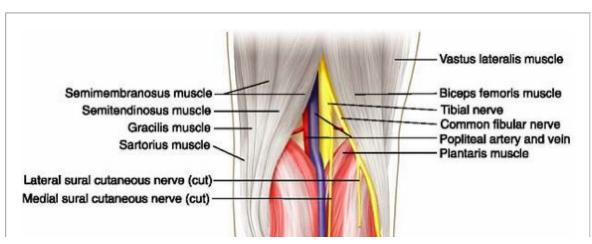


Plate 3-31 Popliteal Fossa







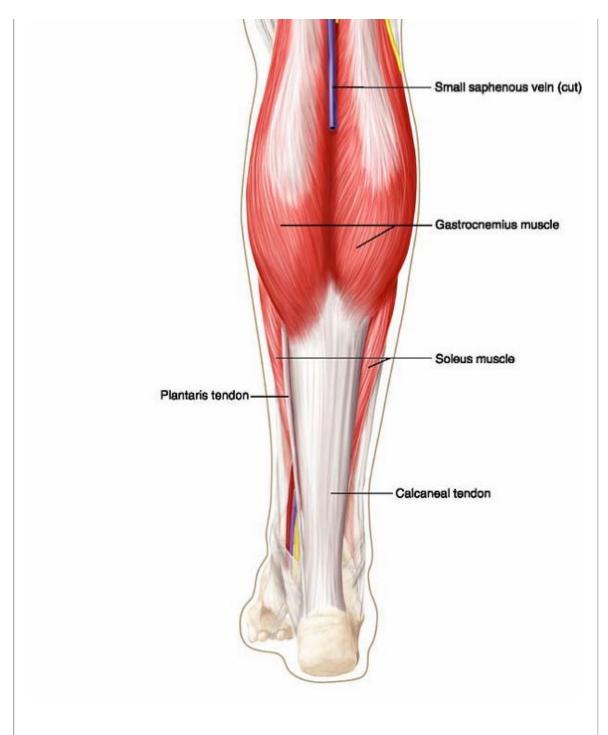


Plate 3-33 Muscles of the Posterior Leg, Superficial Dissection

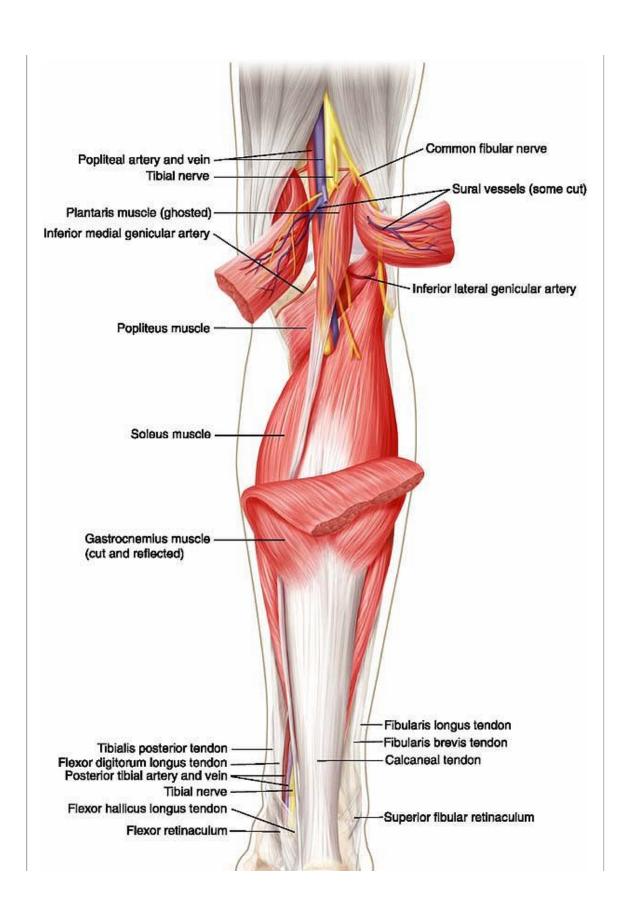
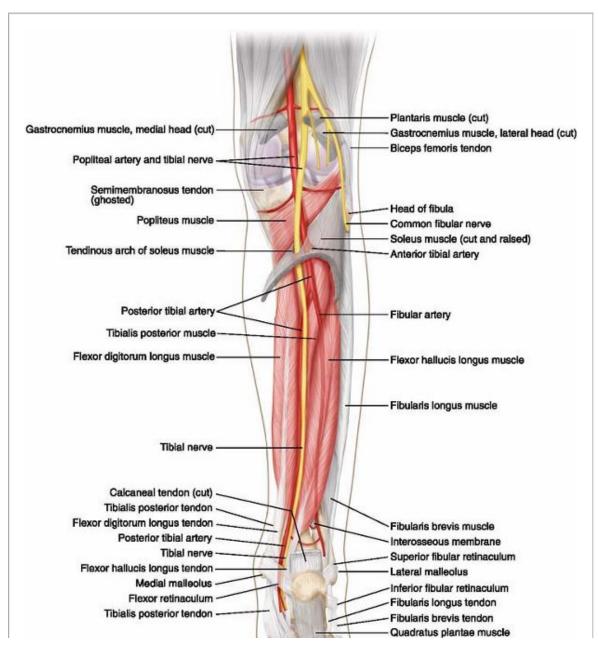
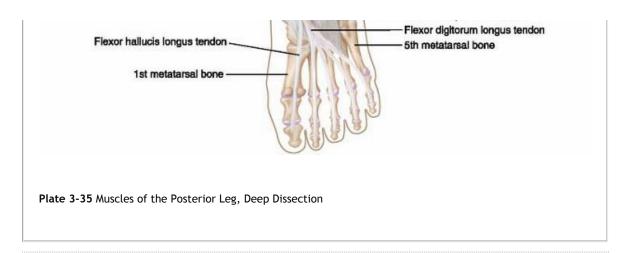


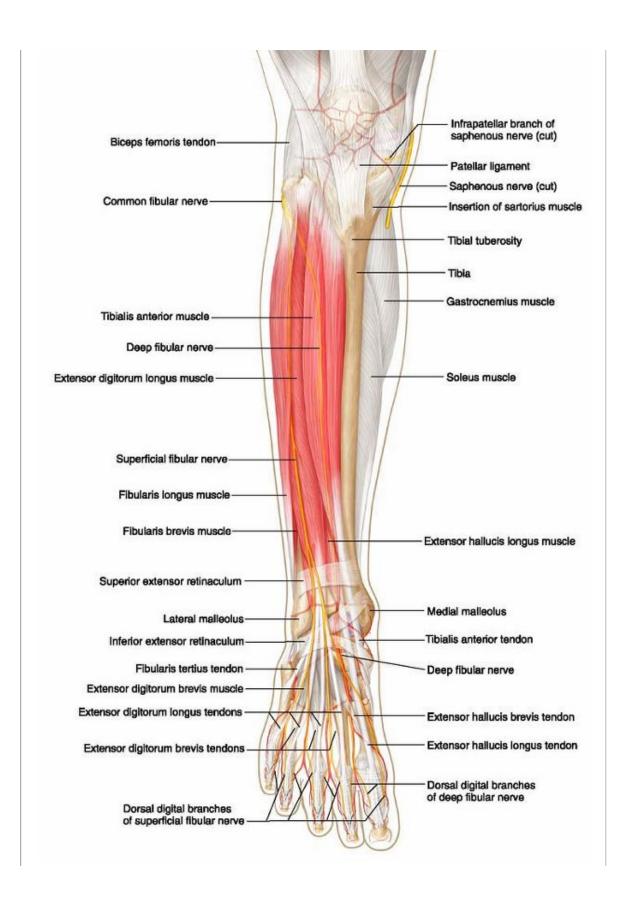


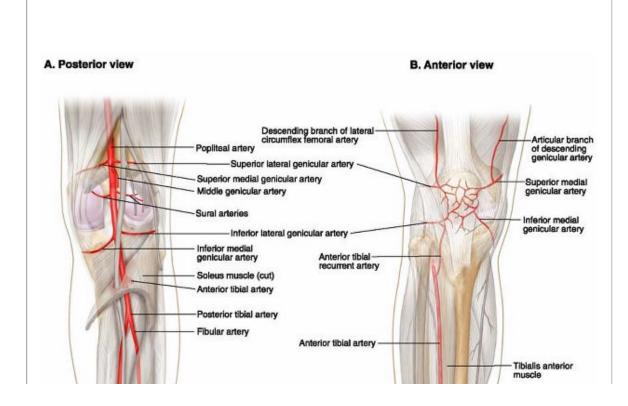
Plate 3-34 Muscles of the Posterior Leg, Intermediate Dissection

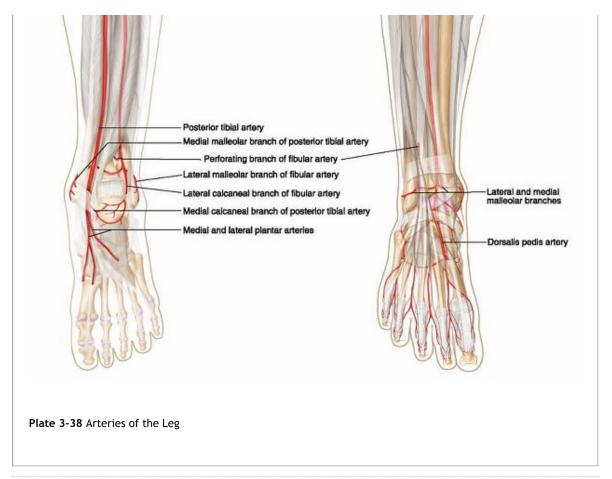




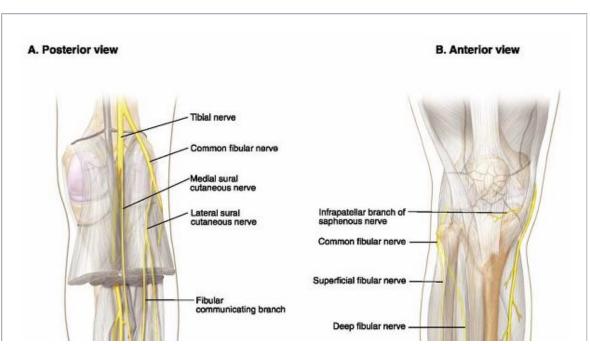


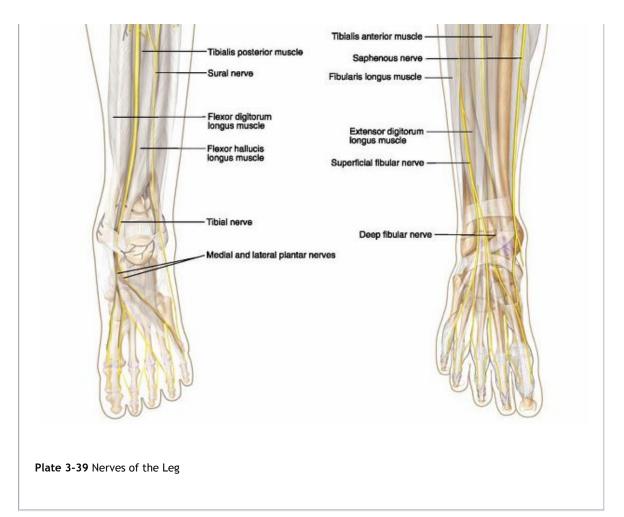


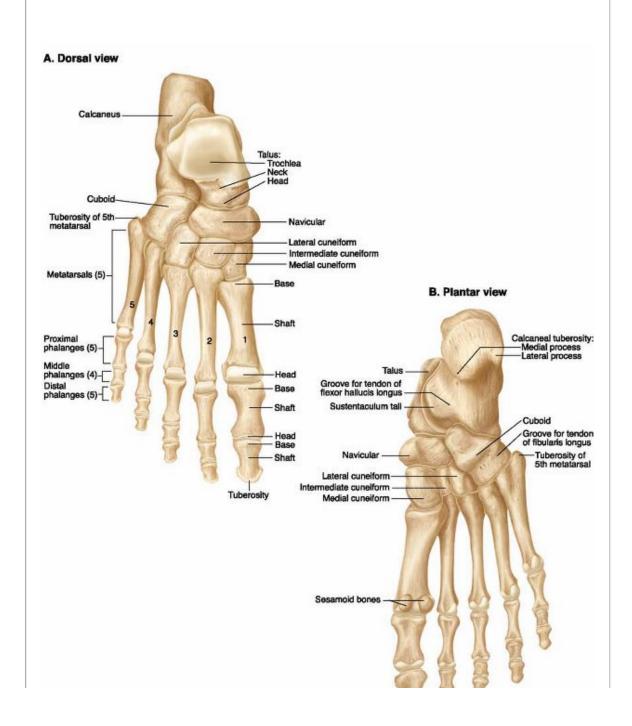




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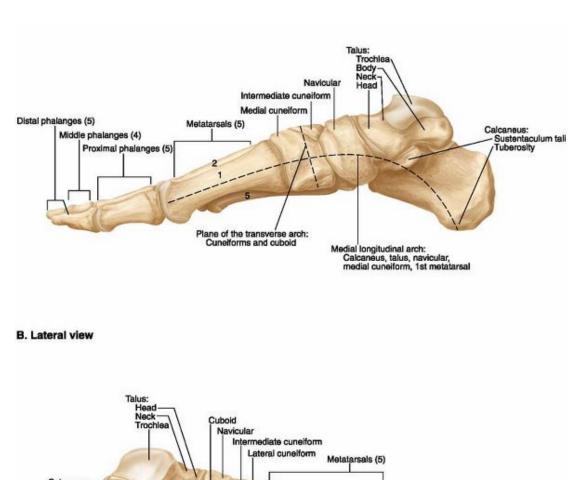








P.127 A. Medial view



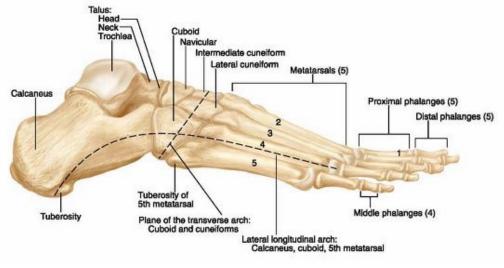
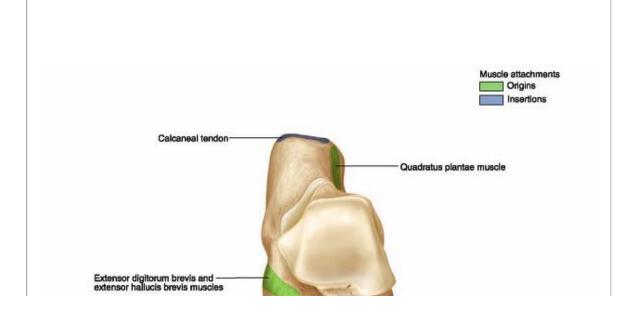
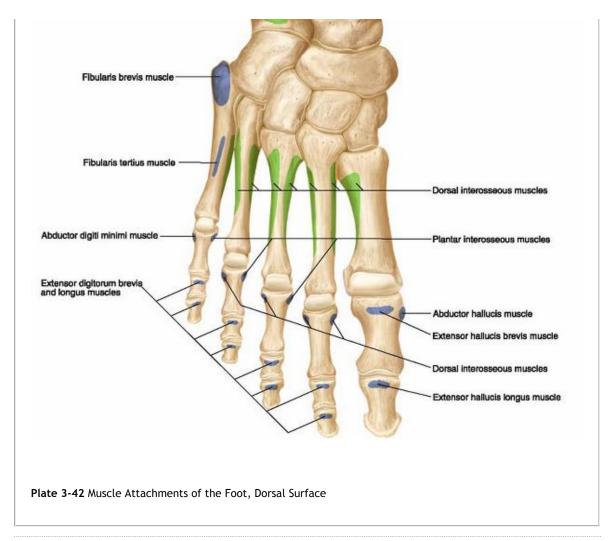
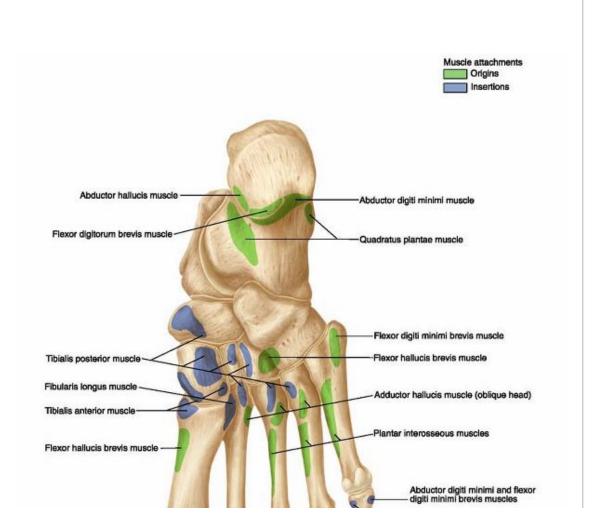


Plate 3-41 Arches of the Foot







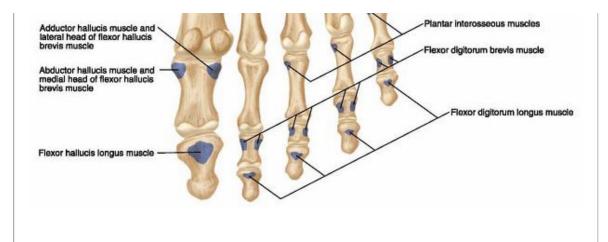
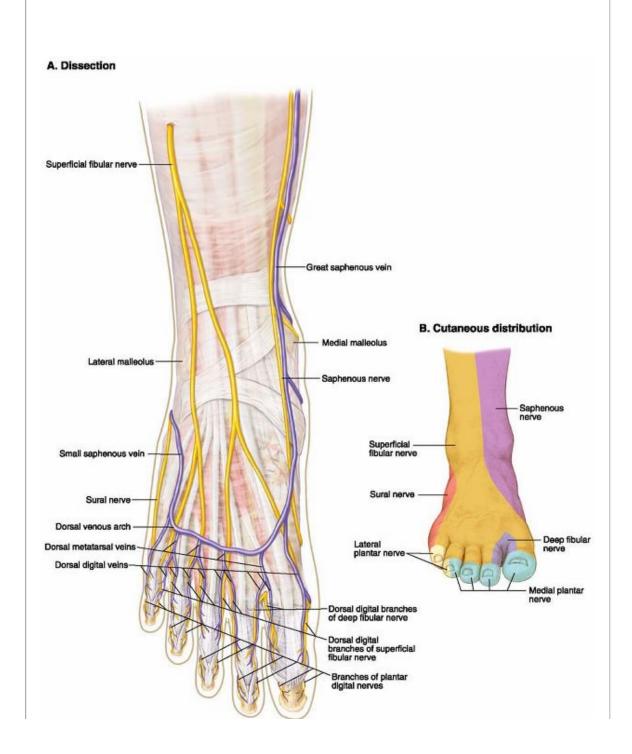
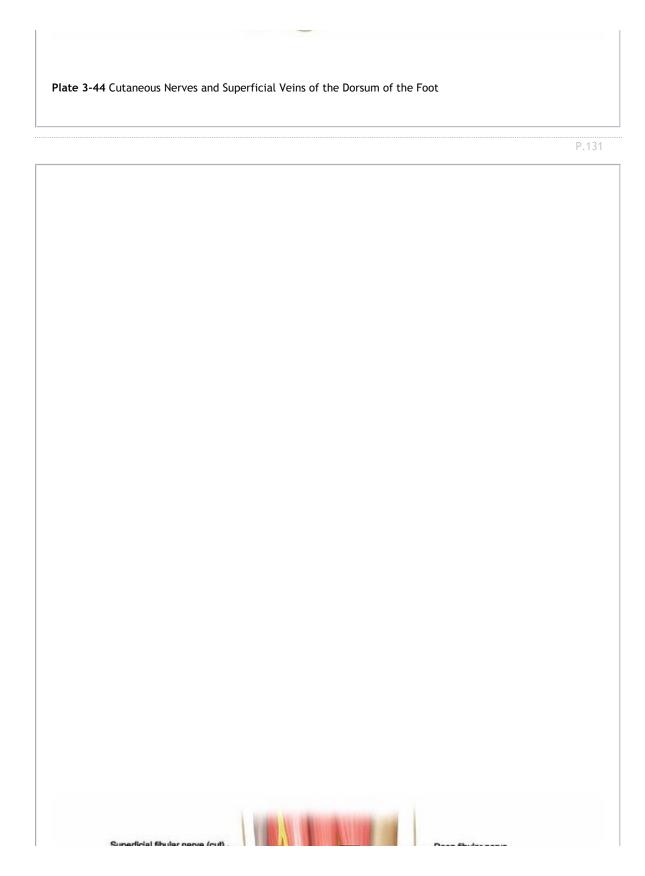
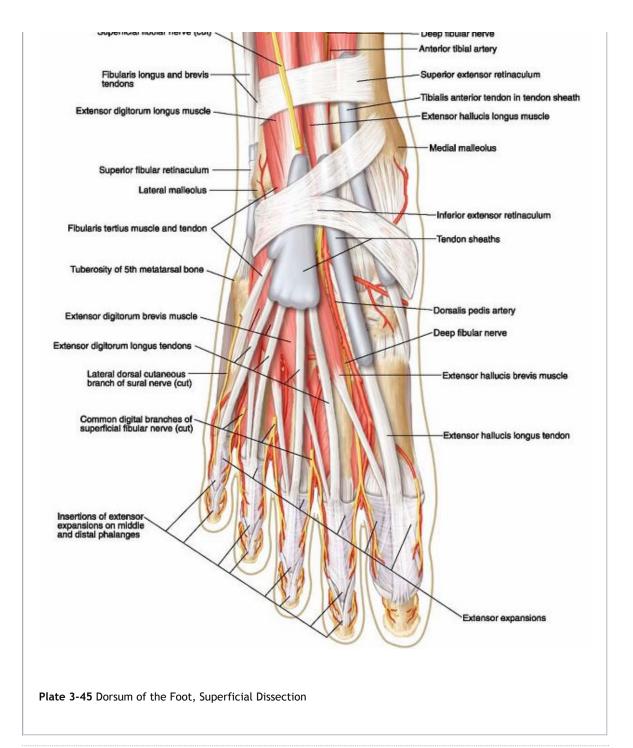
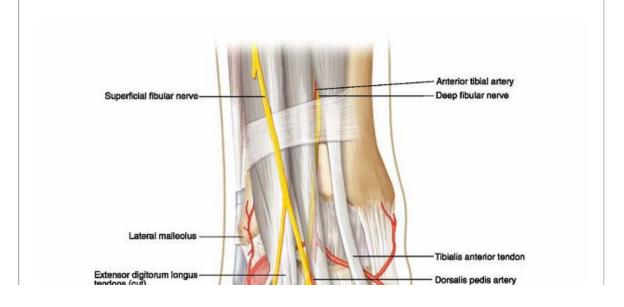


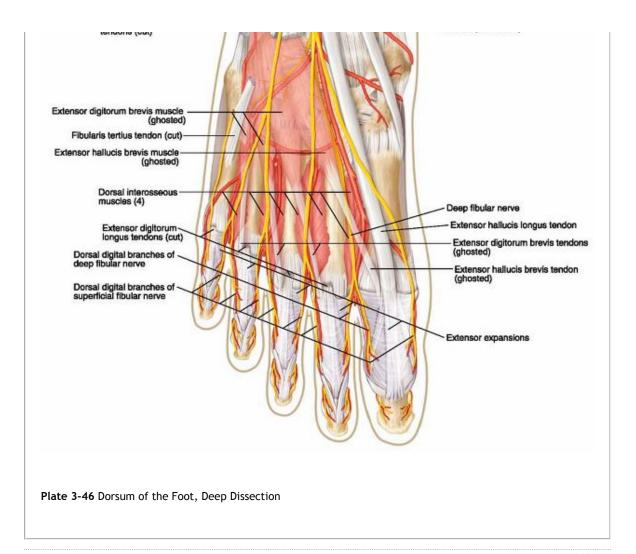
Plate 3-43 Muscle Attachments of the Foot, Plantar Surface

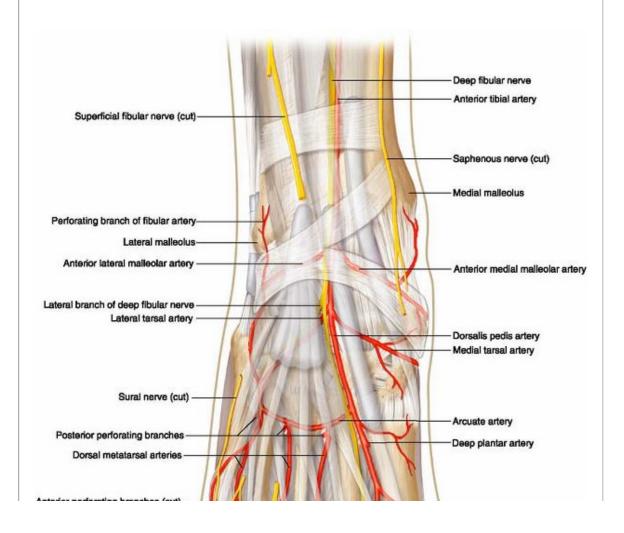


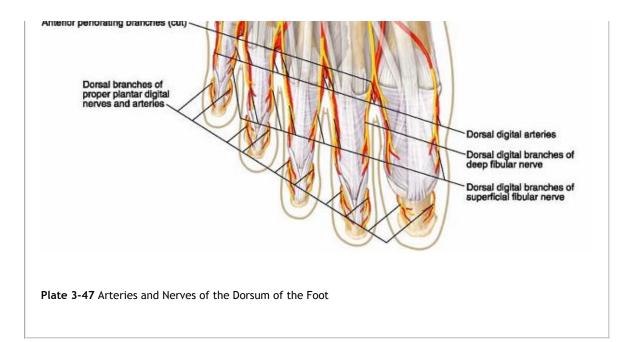


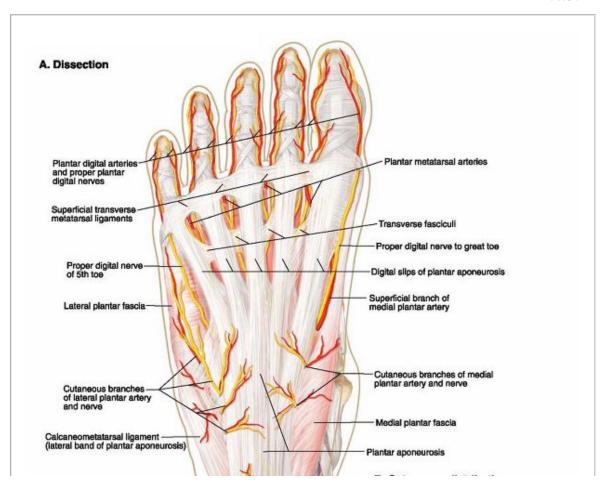


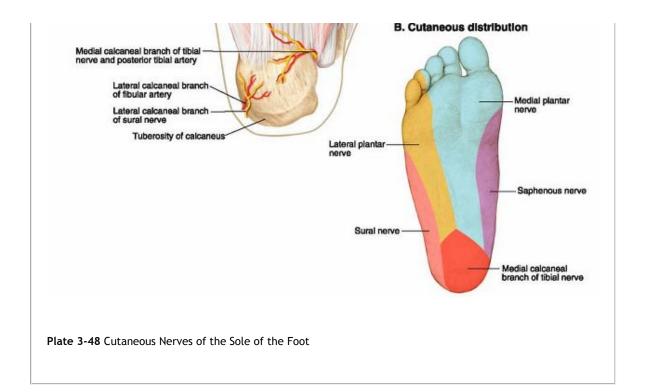


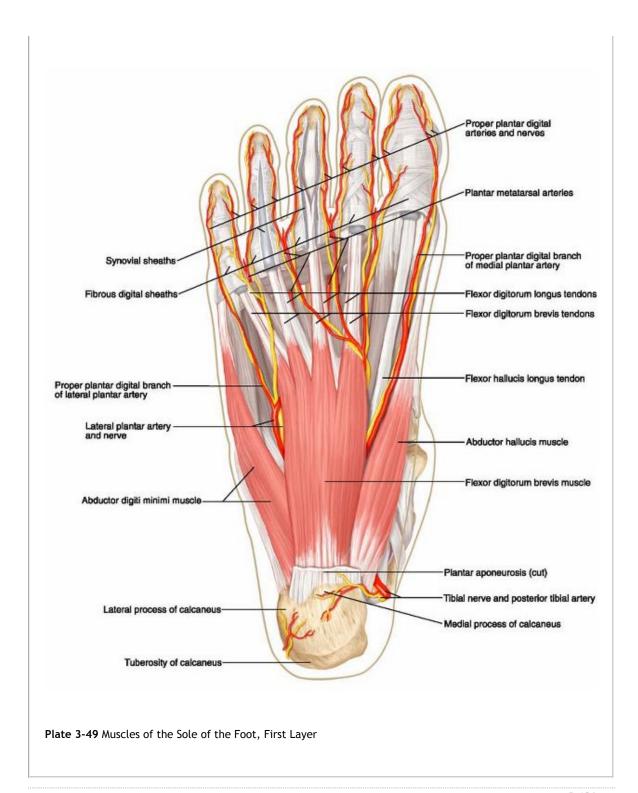


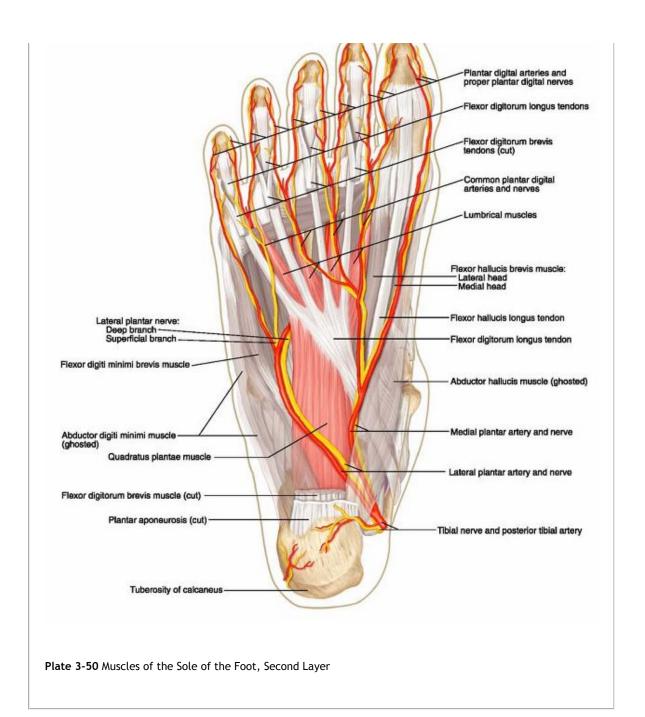


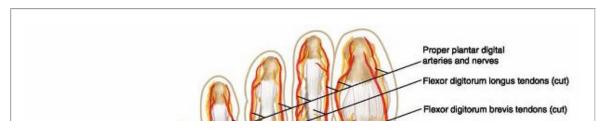


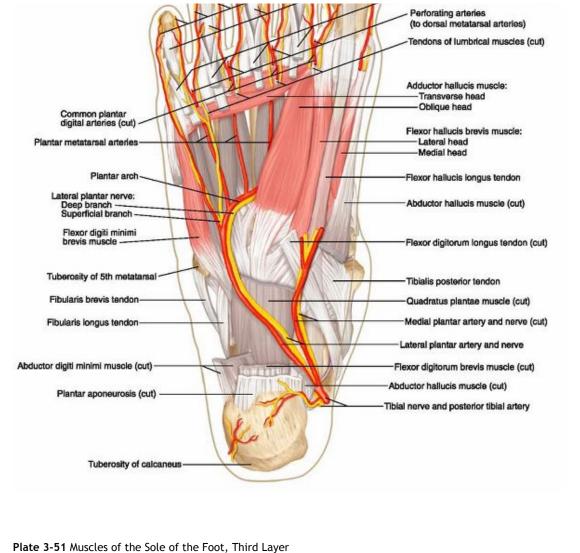


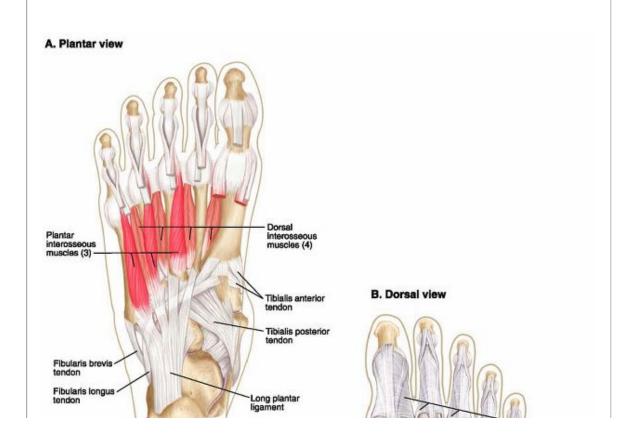


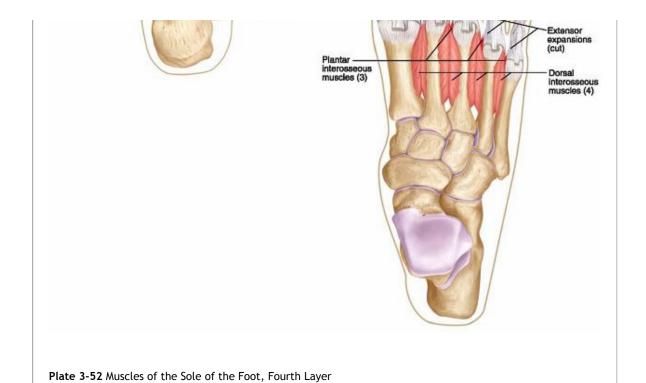


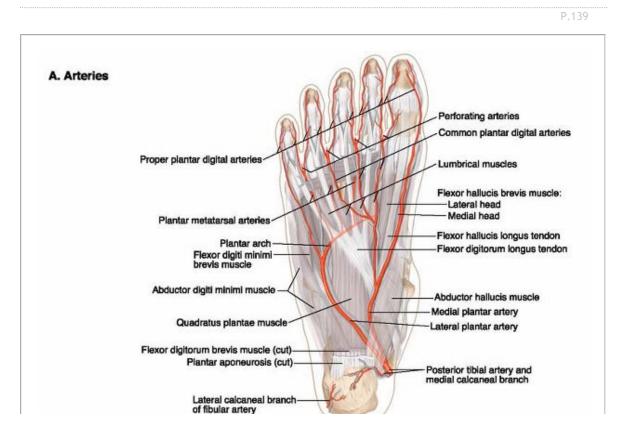


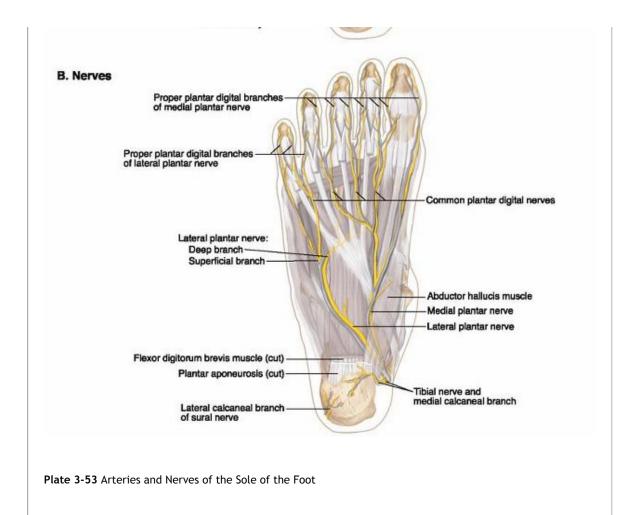


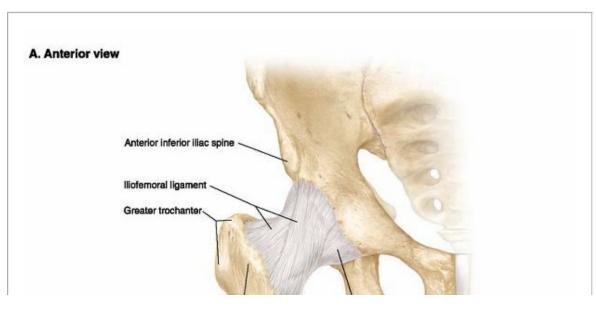


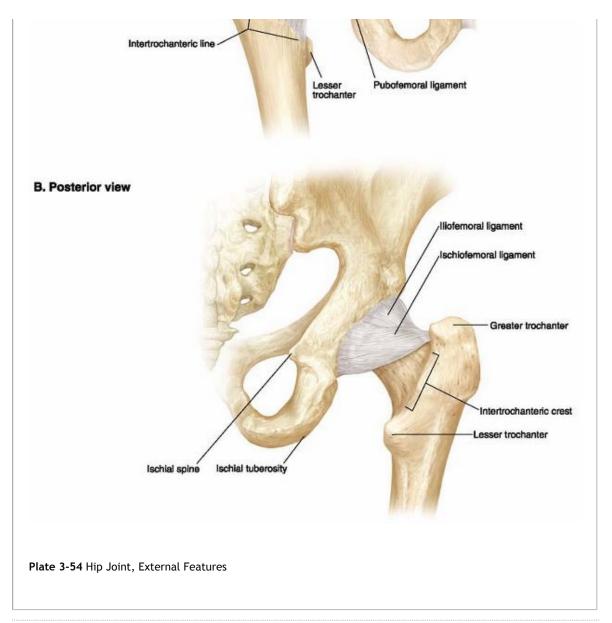




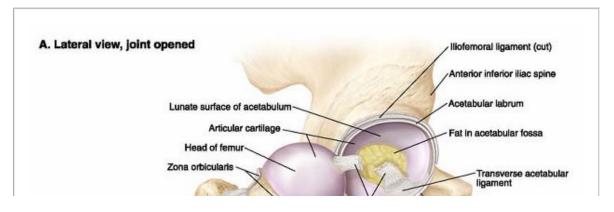


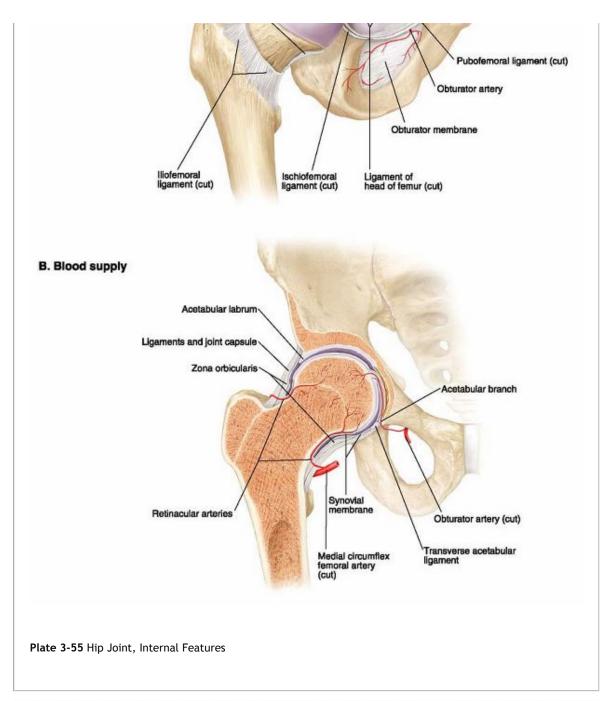




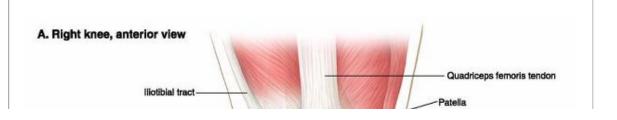


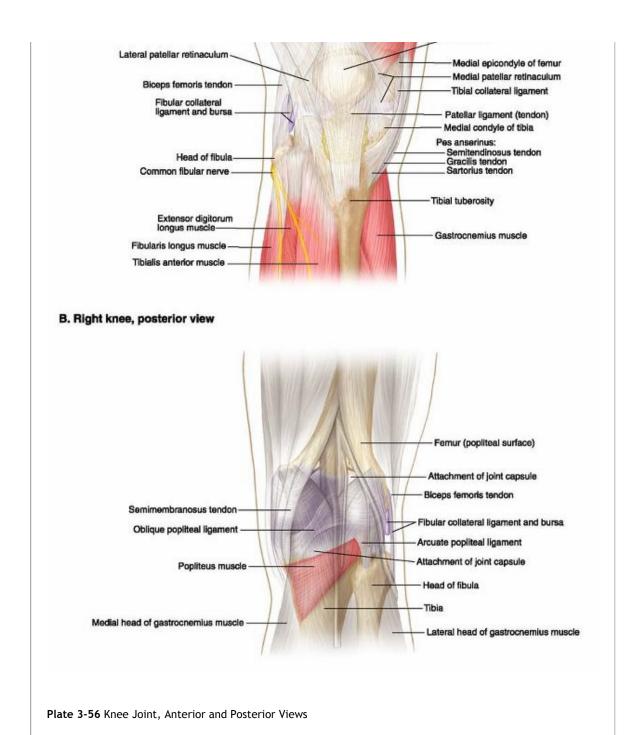
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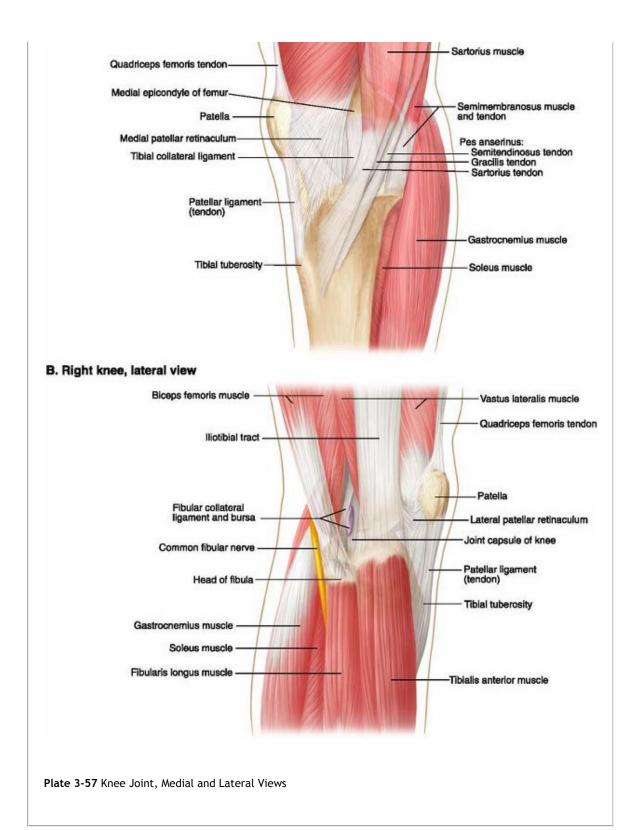


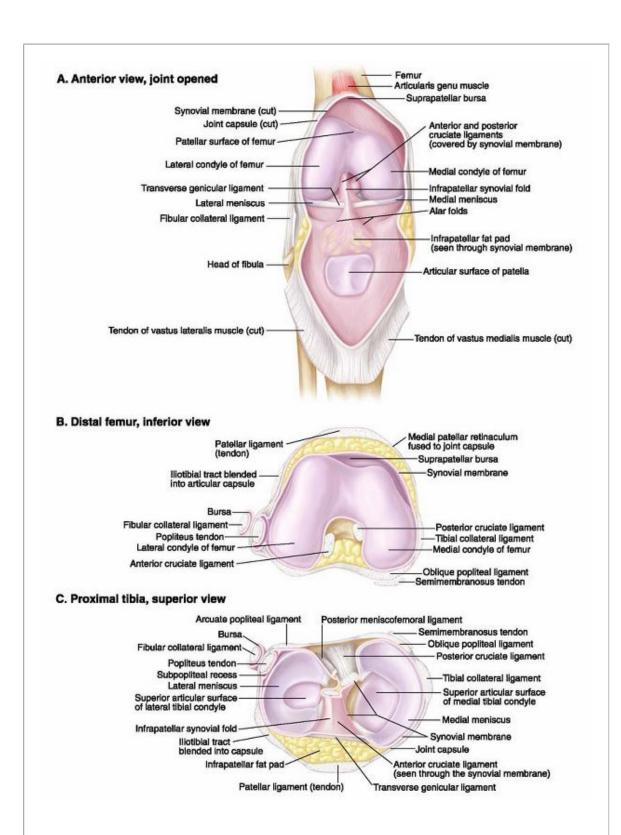


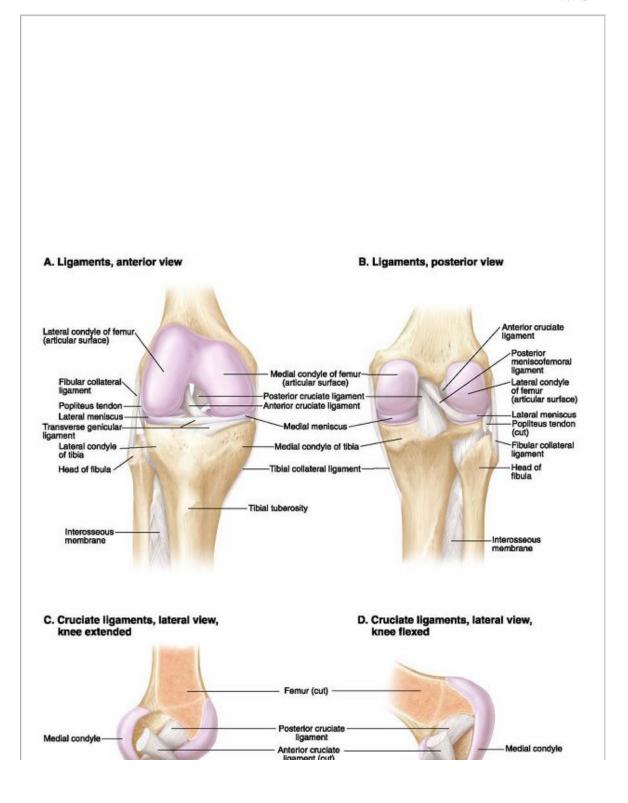
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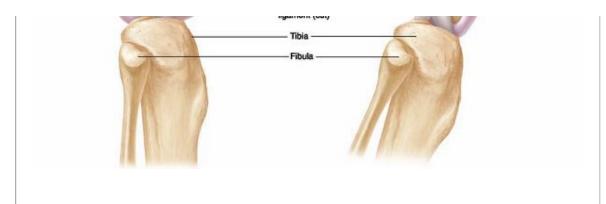
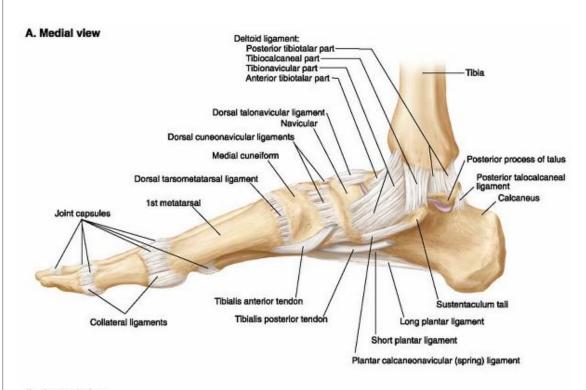
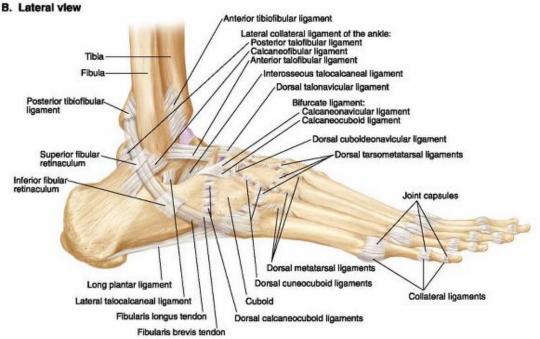
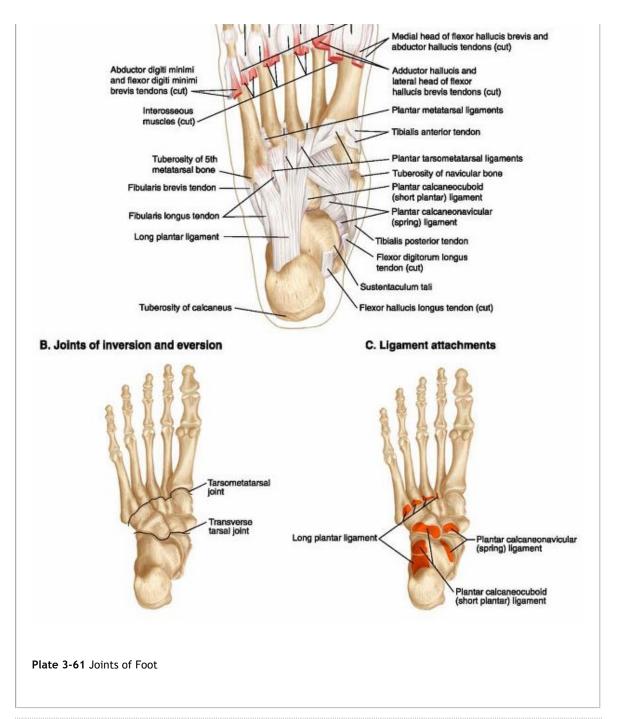
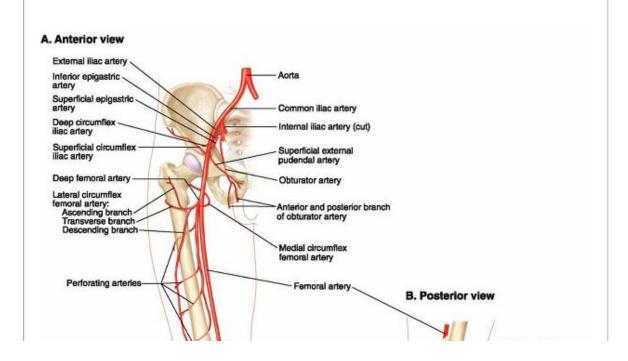


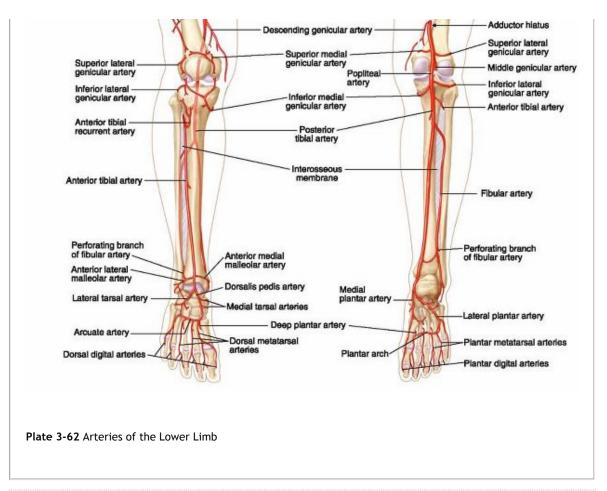
Plate 3-59 Ligaments of the Knee Joint, Internal View

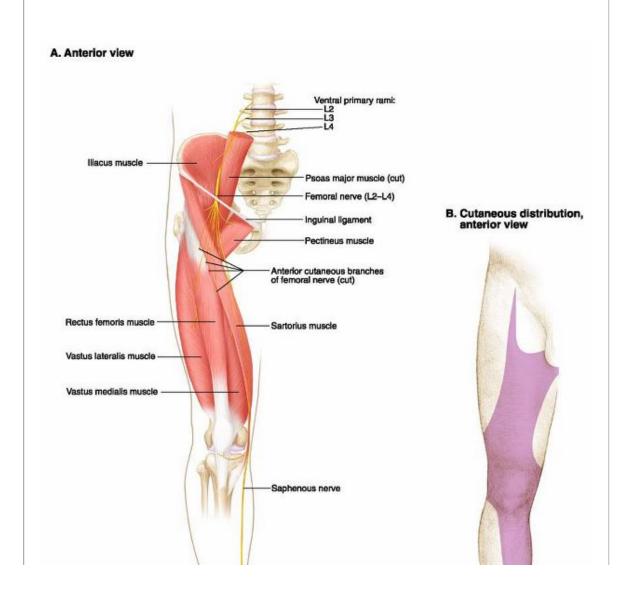














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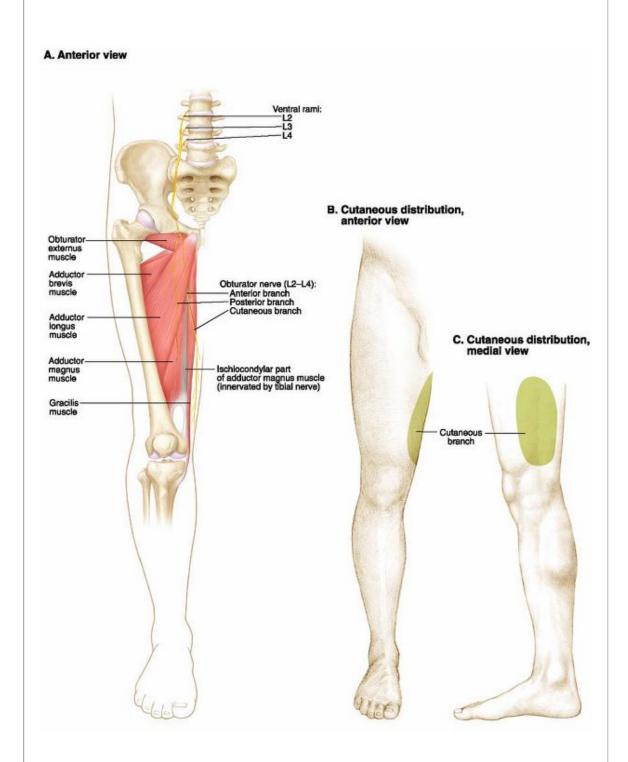
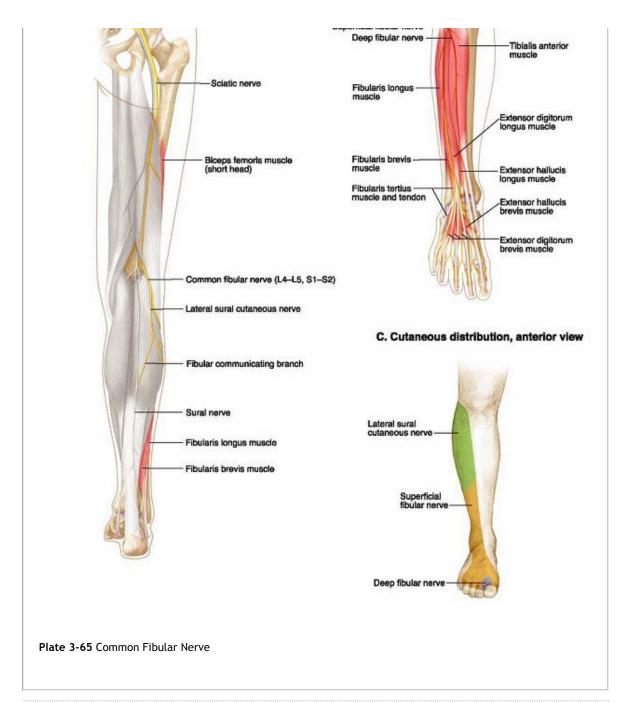
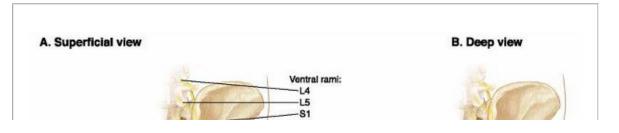
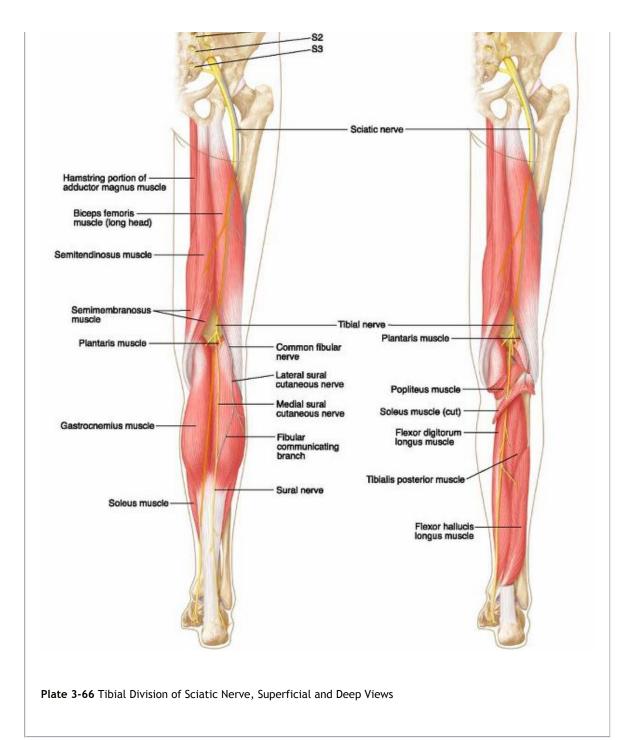


Plate 3-64 Obturator Nerve

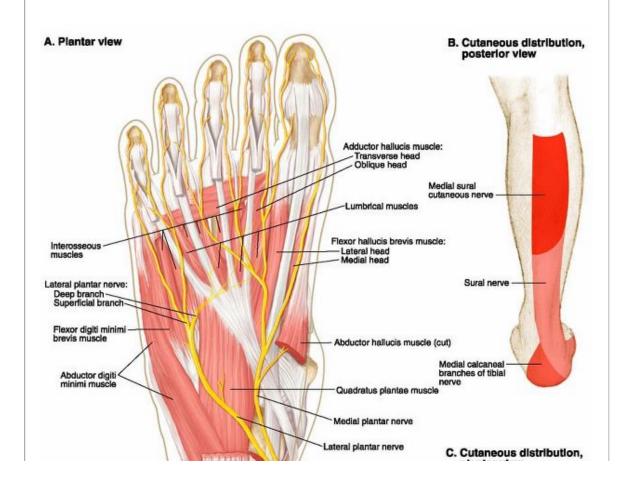
A. Posterior view Ventral rami: L4 L5 S1 S2 Common fibular nerve

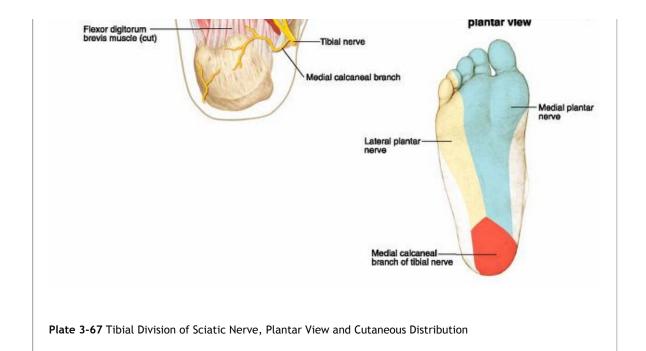


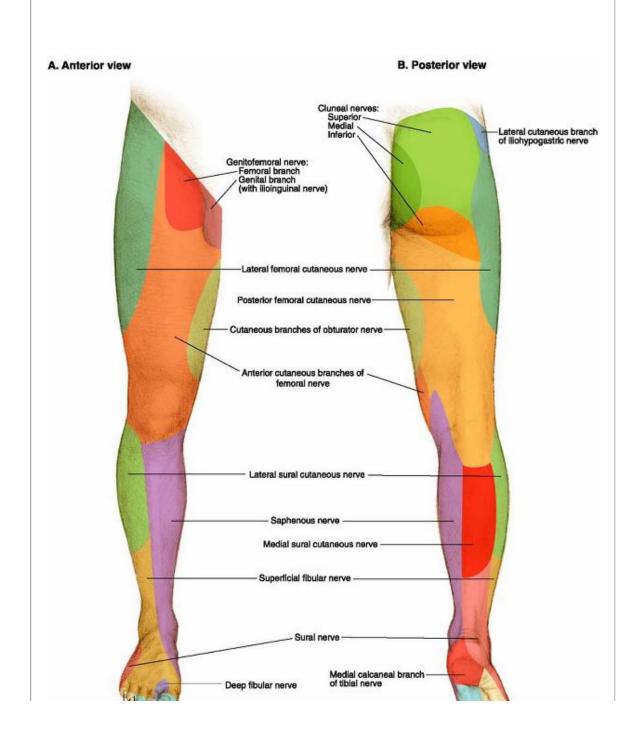




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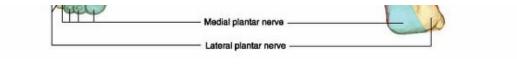
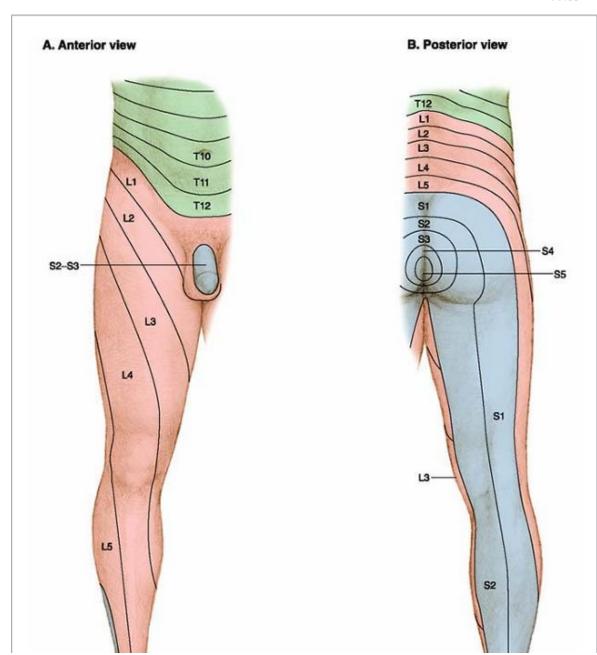
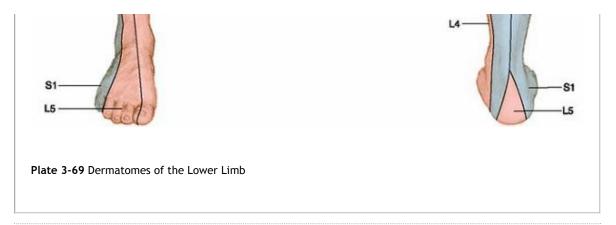
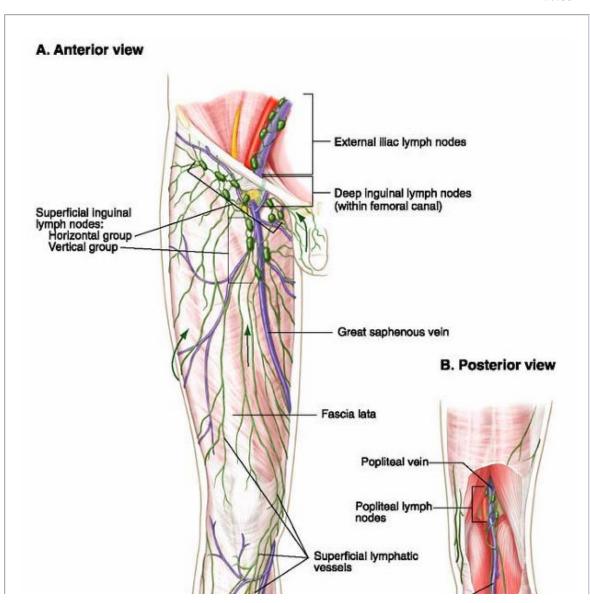


Plate 3-68 Cutaneous Innervation of the Lower Limb







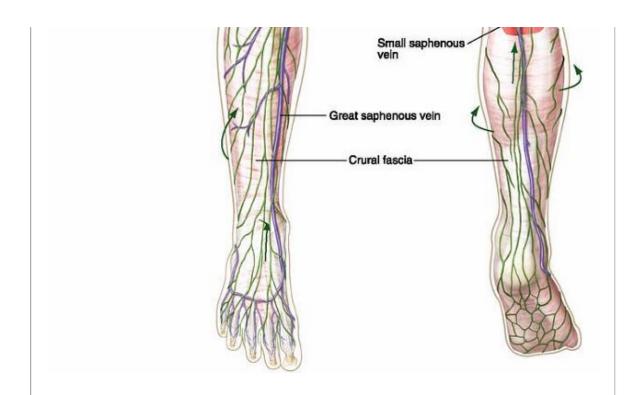


Plate 3-70 Lymphatics of the Lower Limb

Authors: Tank, Patrick W.; Gest, Thomas R.

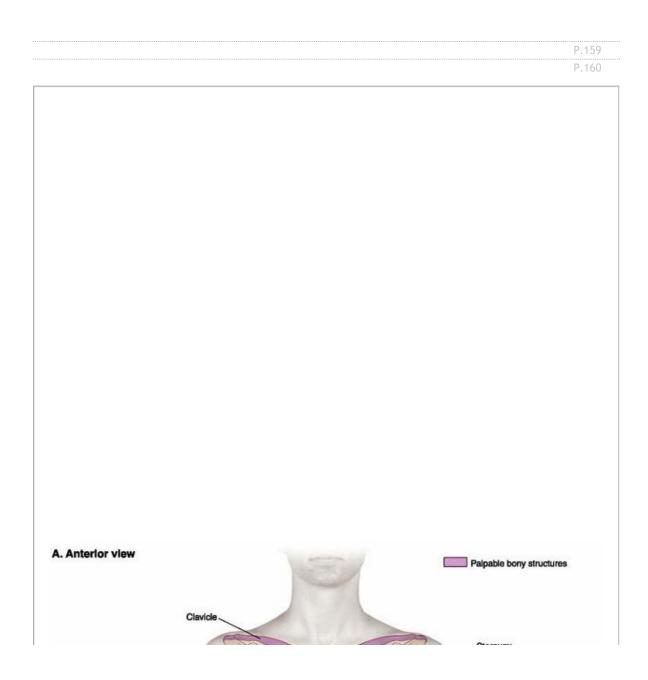
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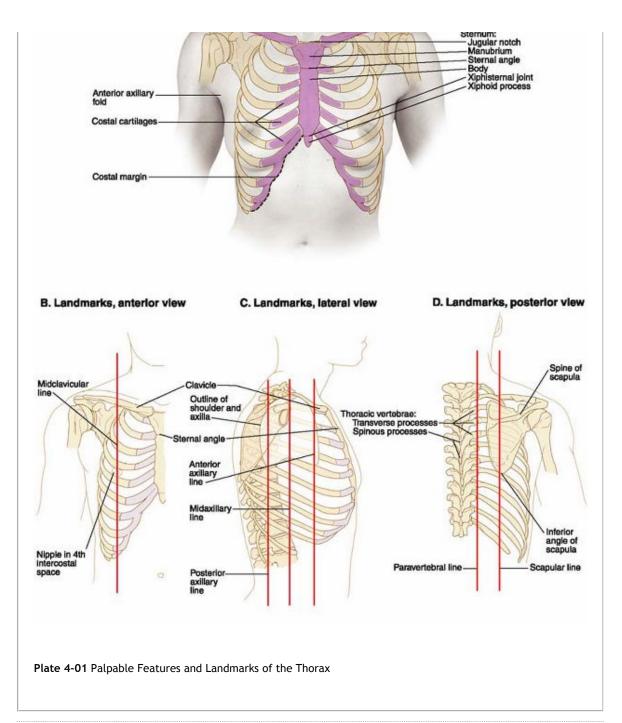
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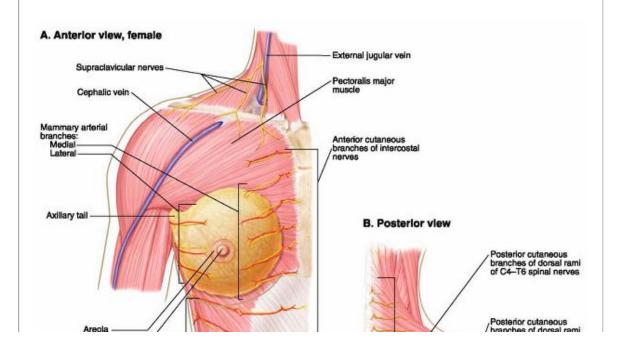
> Table of Contents > Chapter 4 - The Thorax

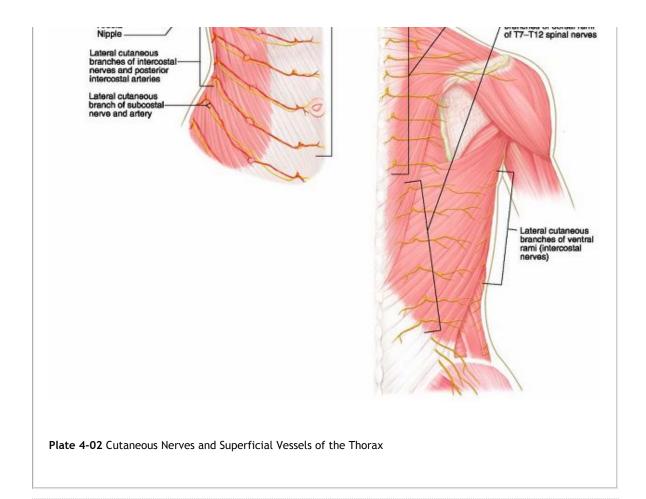
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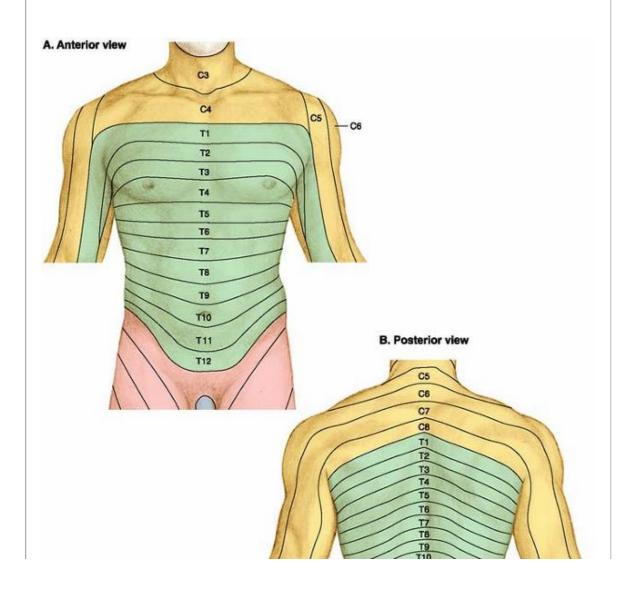
The Thorax











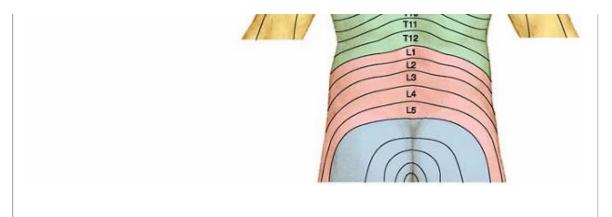
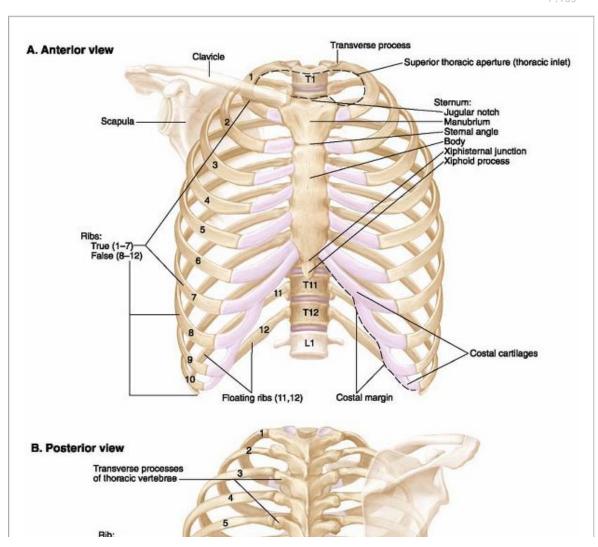
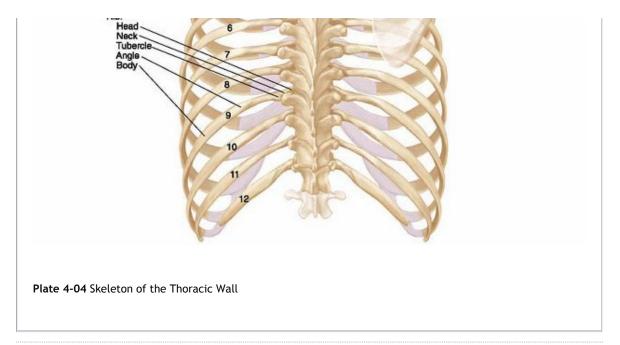
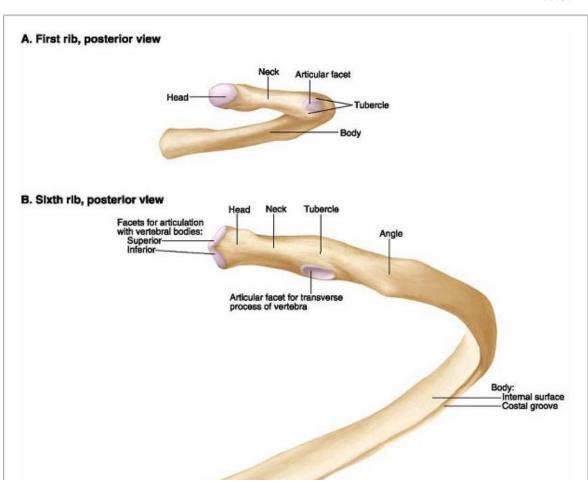
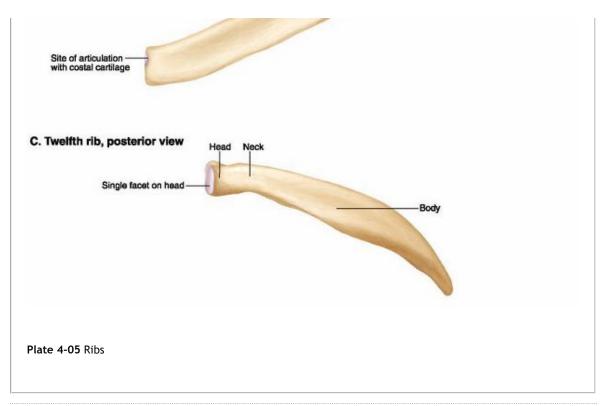


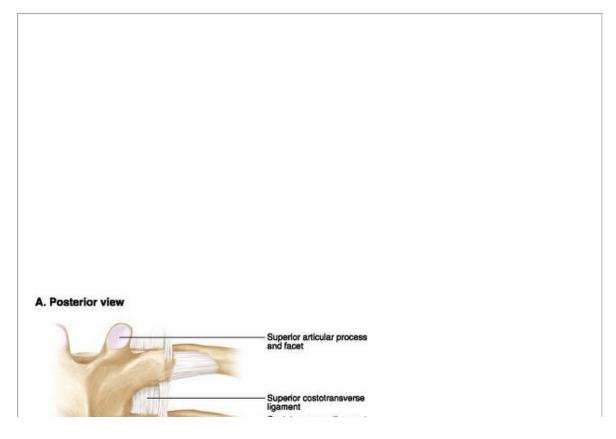
Plate 4-03 Dermatomes of the Thorax

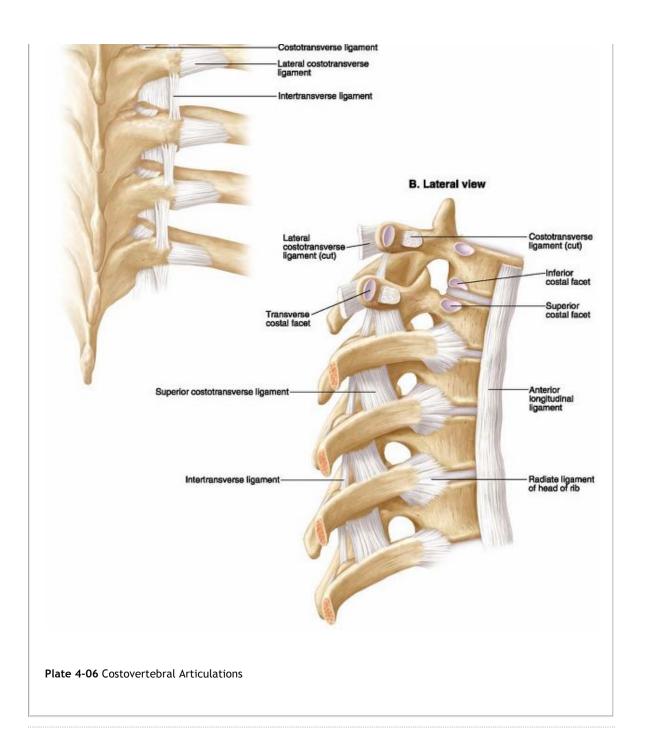


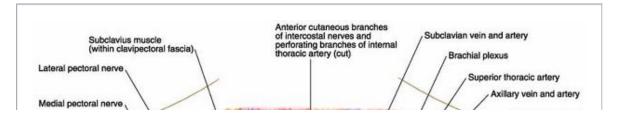


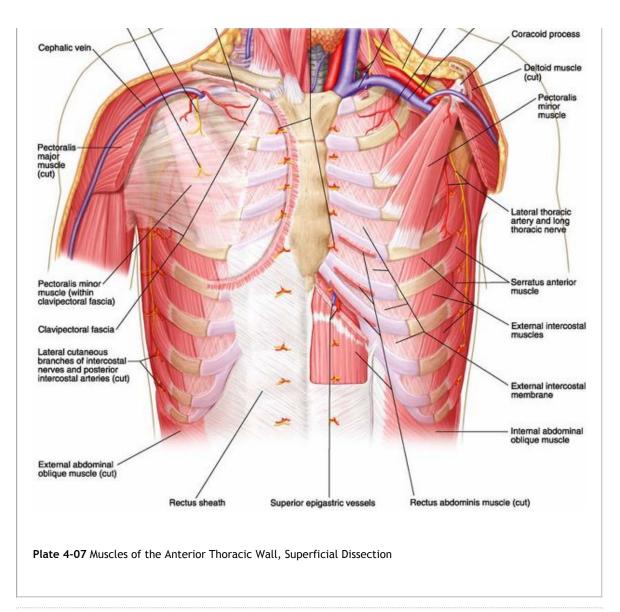




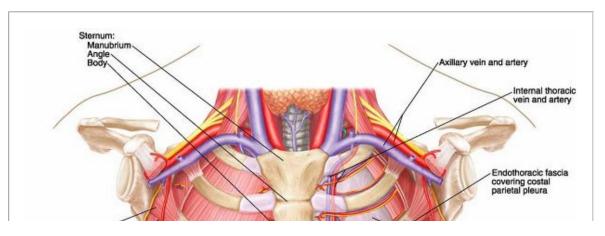


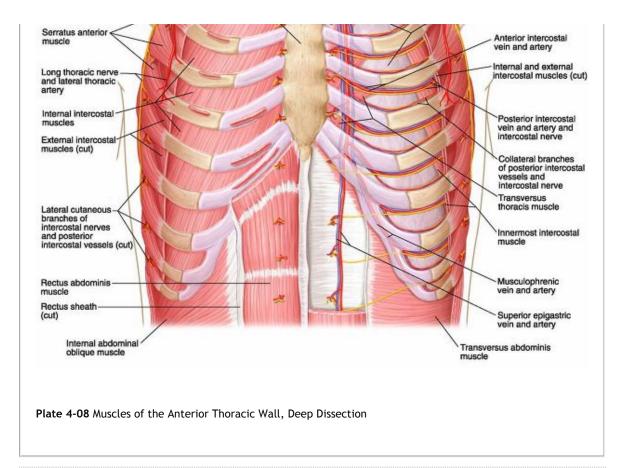


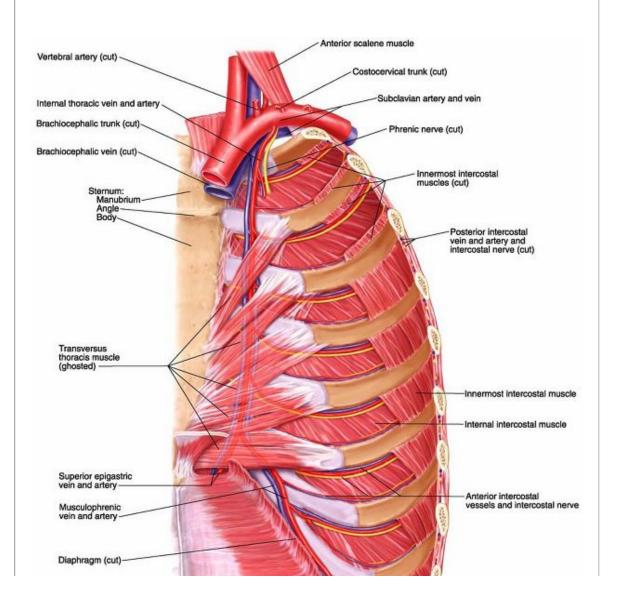


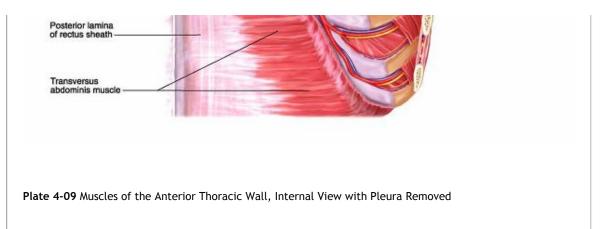


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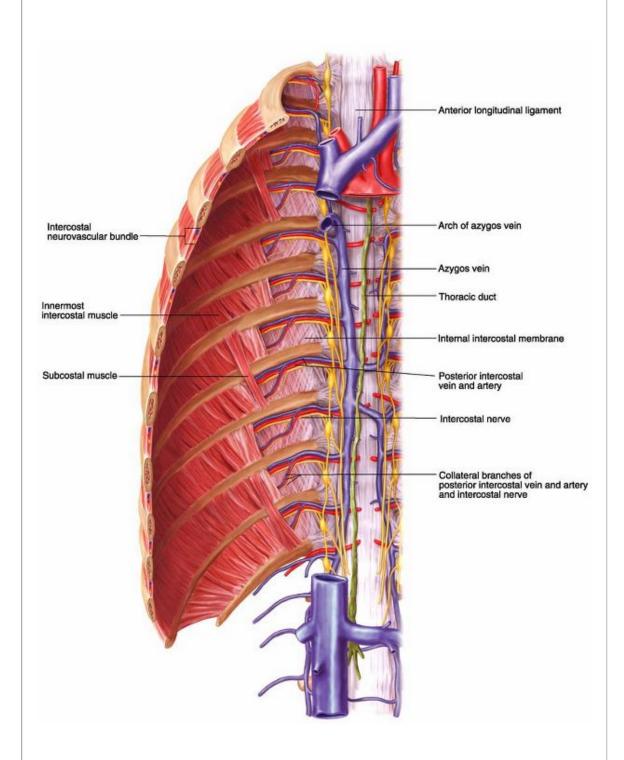
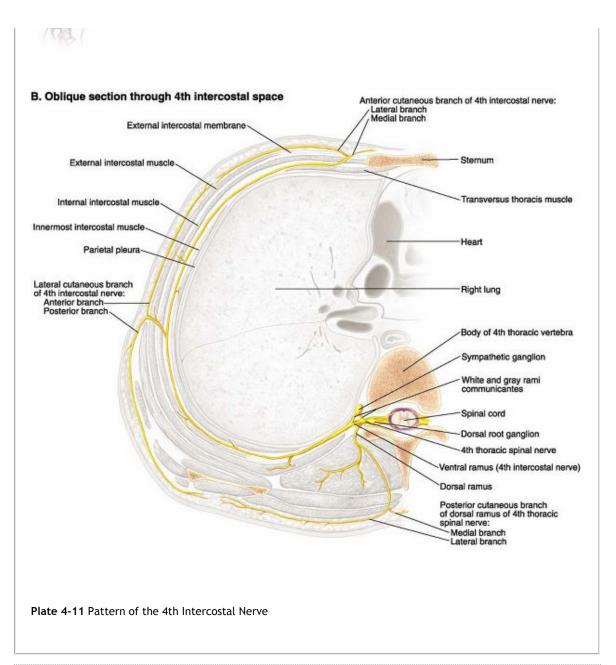
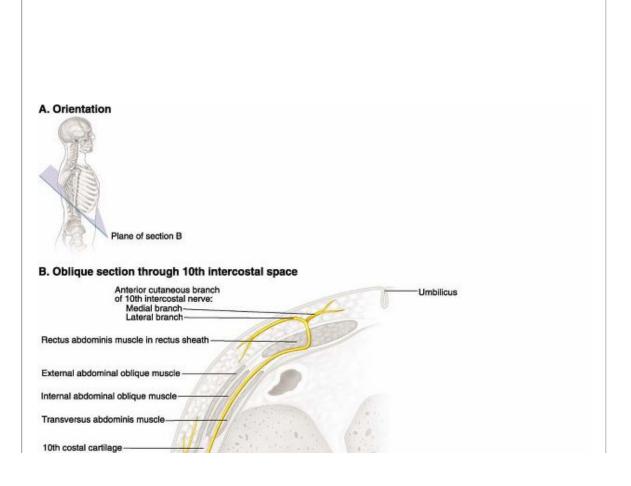


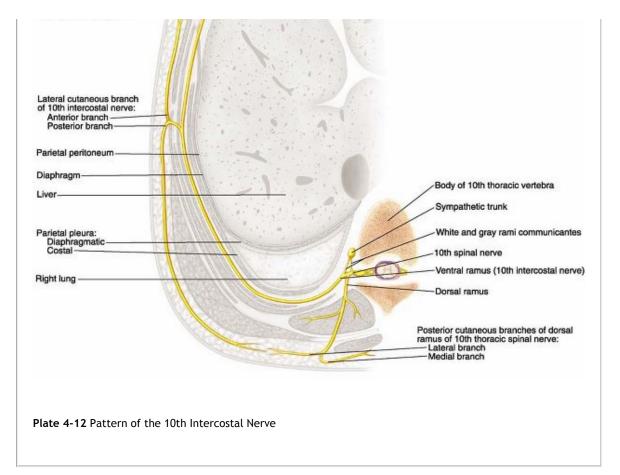
Plate 4-10 Muscles of the Posterior Thoracic Wall, Internal View with Pleura Removed

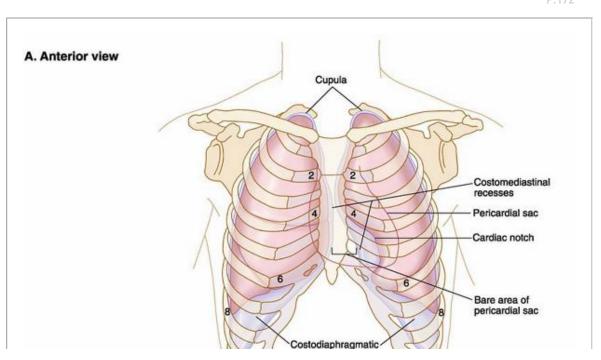
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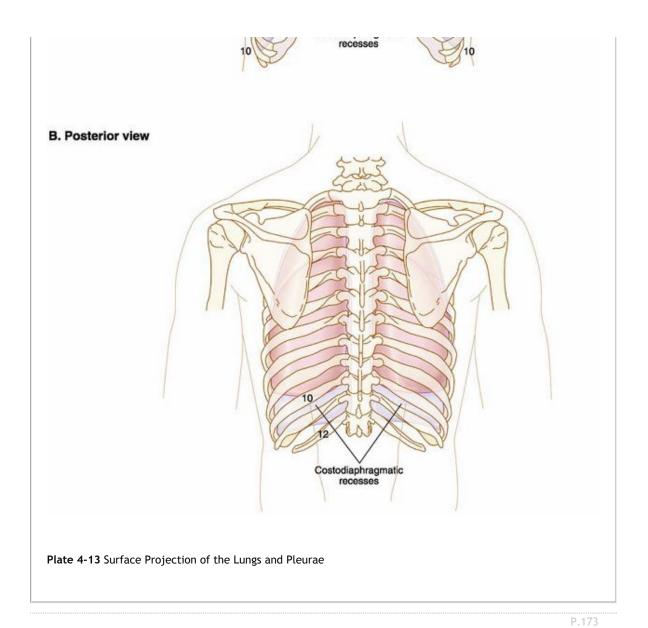


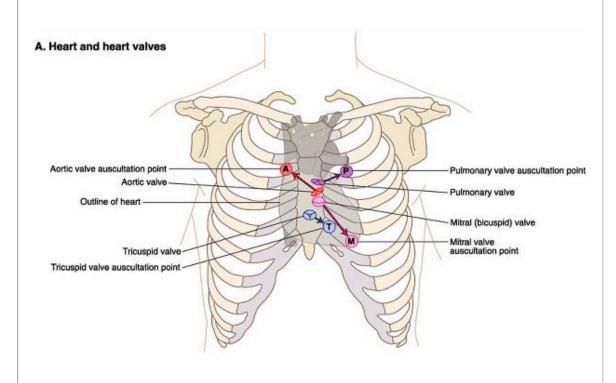












B. Mediastinum, anterior view

C. Mediastinum, right lateral view

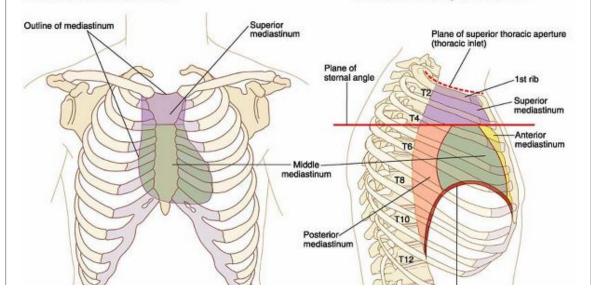




Plate 4-14 Surface Projection of the Heart and Mediastinum

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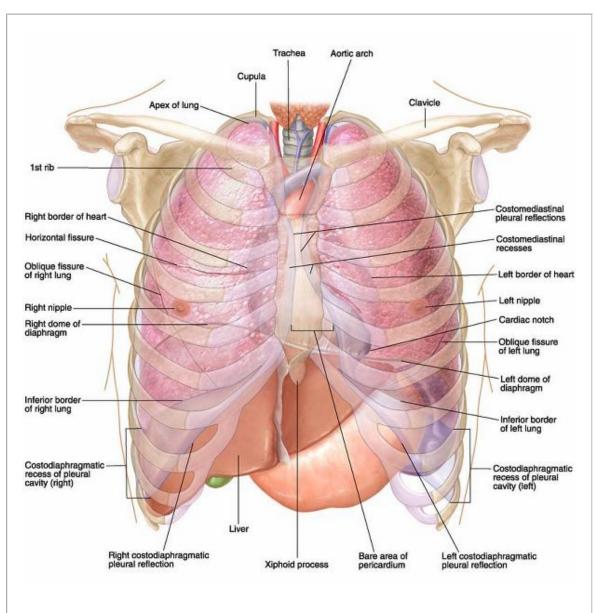
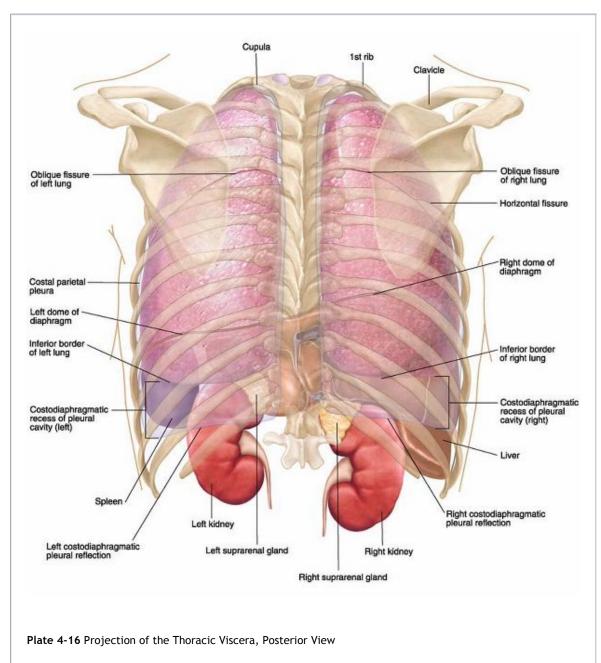
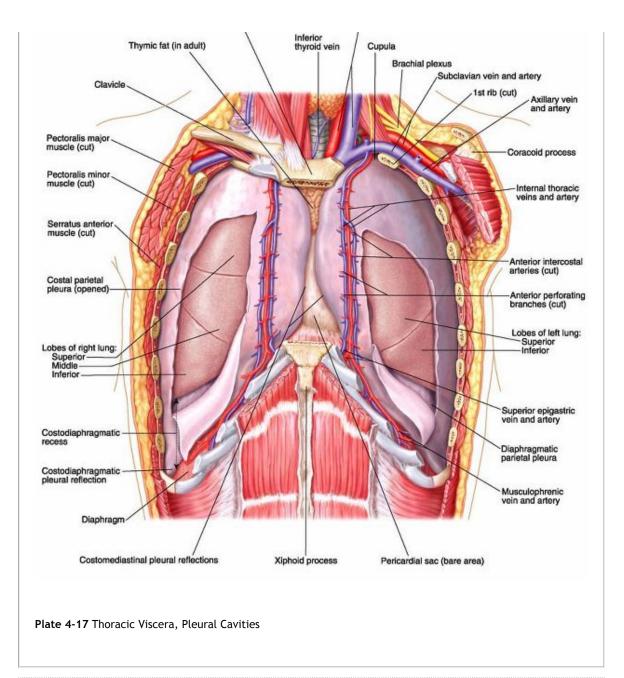
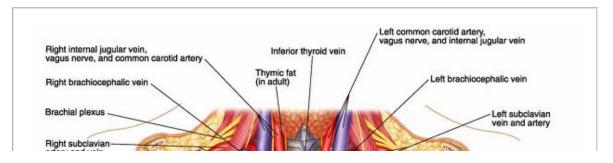
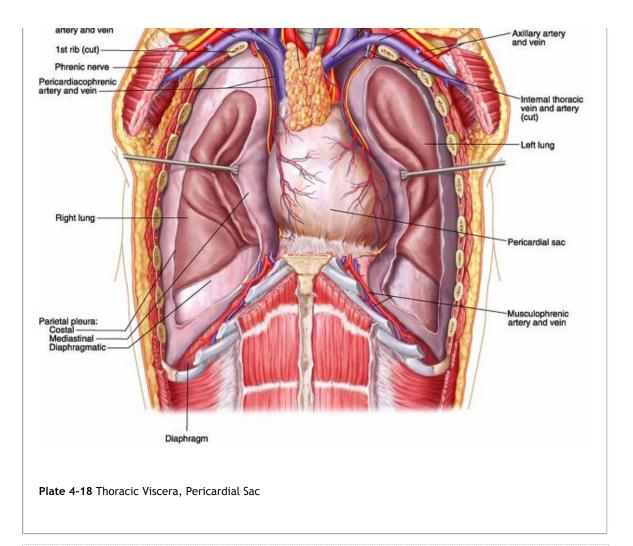


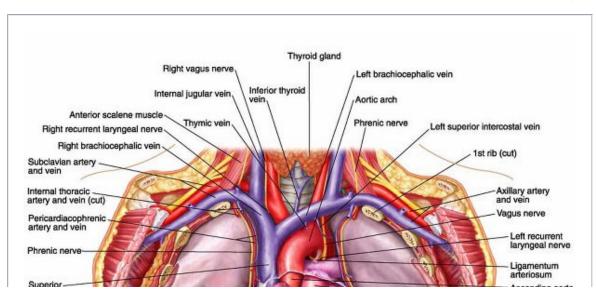
Plate 4-15 Projection of the Thoracic Viscera, Anterior View

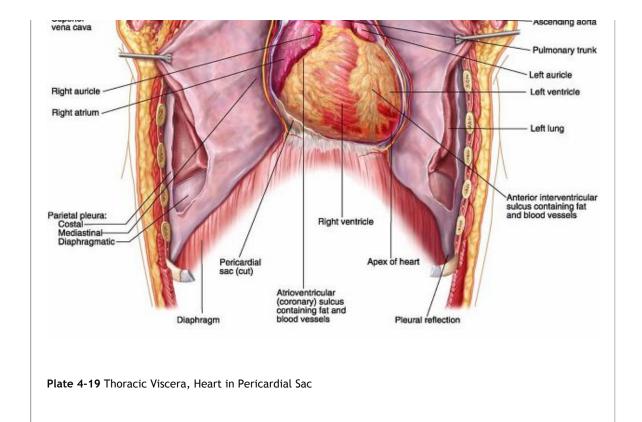




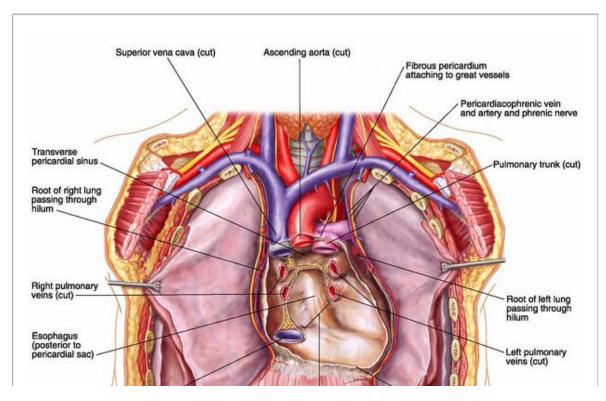


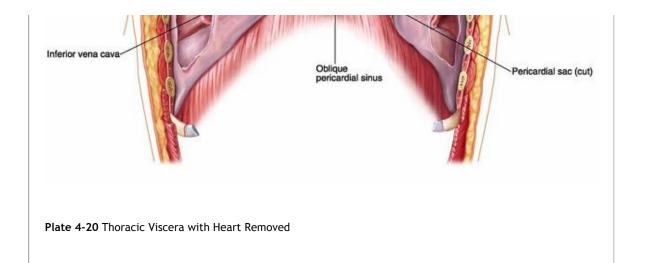


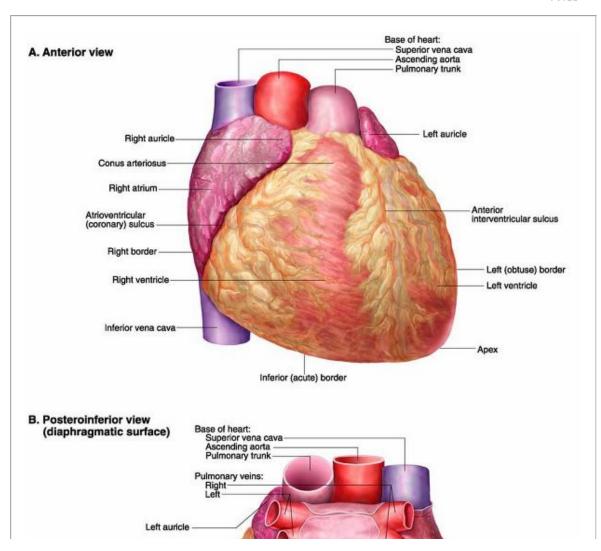


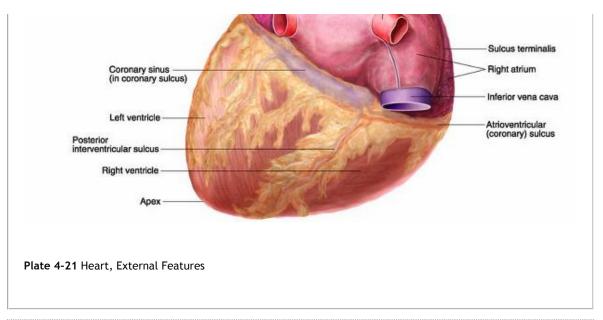


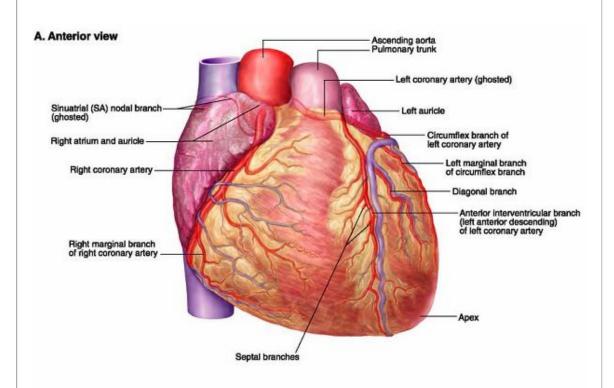












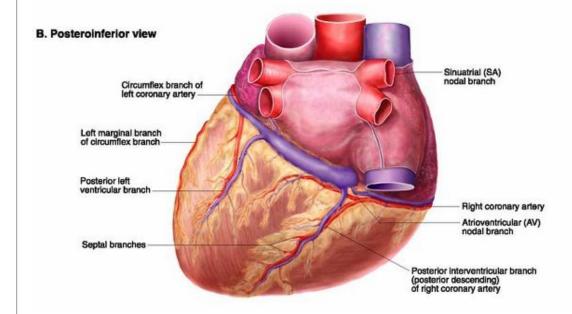
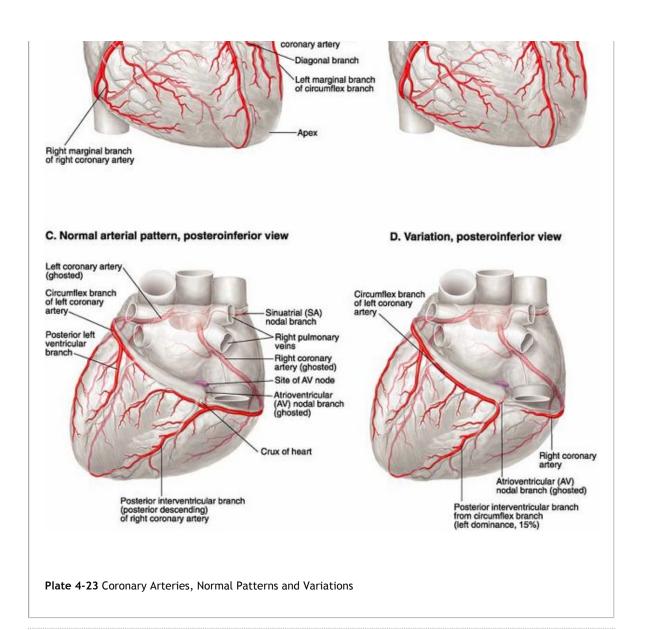


Plate 4-22 Coronary Arteries

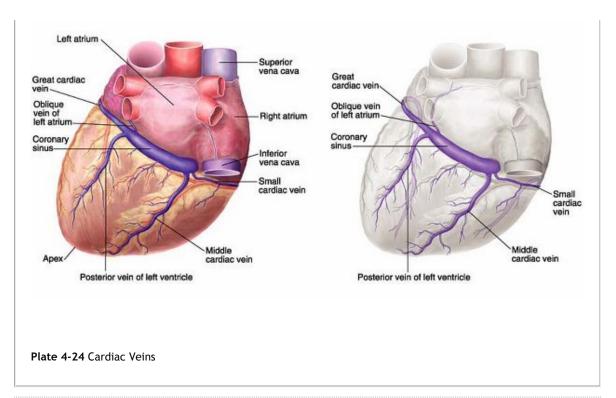
A. Normal arterial pattern, anterior view Sinuatrial (SA) nodal branch (ghosted) Pulmonary trunk Left coronary artery (ghosted) Right coronary artery Anterior interventricular branch (left anterior descending) of left

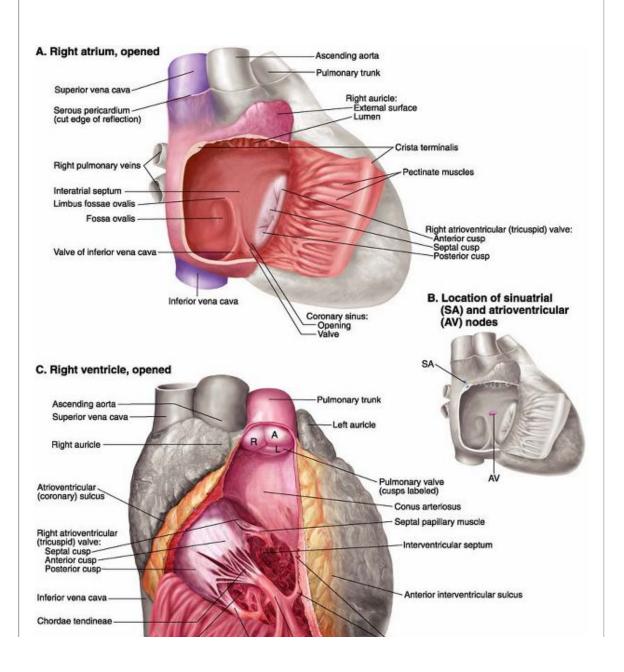
Sinuatrial (SA) nodal branch from circumflex branch (40%, ghosted)

B. Variation, anterior view



A. Anterior view B. Normal venous pattern, anterior view Ascending aorta Coronary sinus (ghosted) Oblique vein of left atrium (ghosted) Pulmonary trunk Right atrium and auricle Left auricle Great cardiac vein Anterior cardiac Anterior cardiac veins Great cardiac vein Small— cardiac vein Small – cardiac vein Middle cardiac vein (ghosted) C. Posteroinferior view D. Normal venous pattern, posteroinferior view





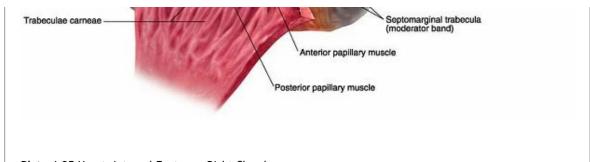
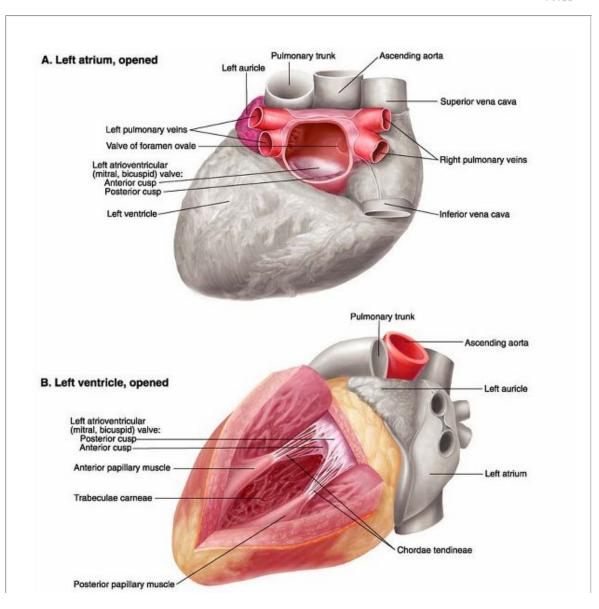


Plate 4-25 Heart, Internal Features, Right Chambers



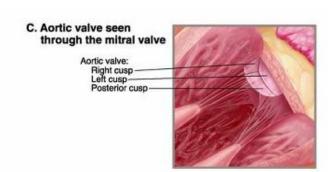
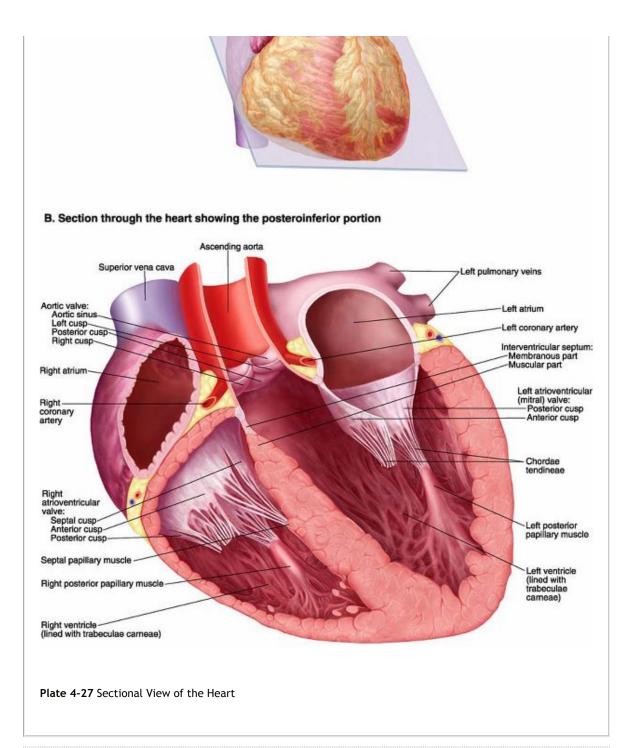
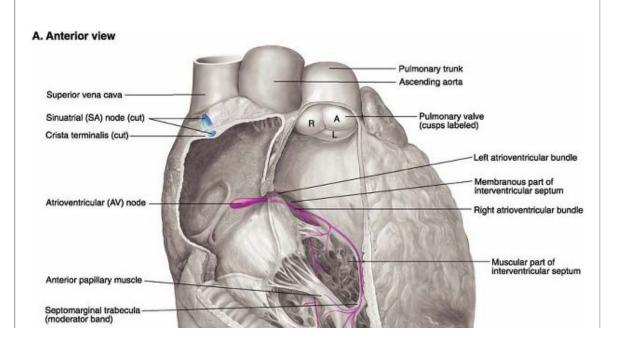
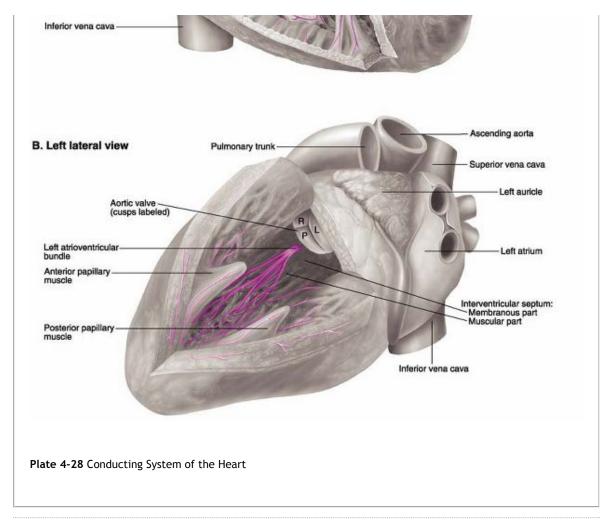


Plate 4-26 Heart, Internal Features, Left Chambers

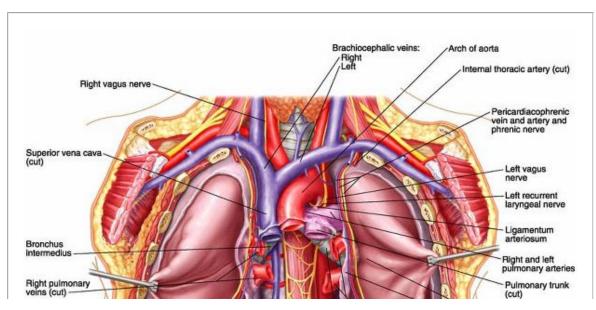
A. Plane of section

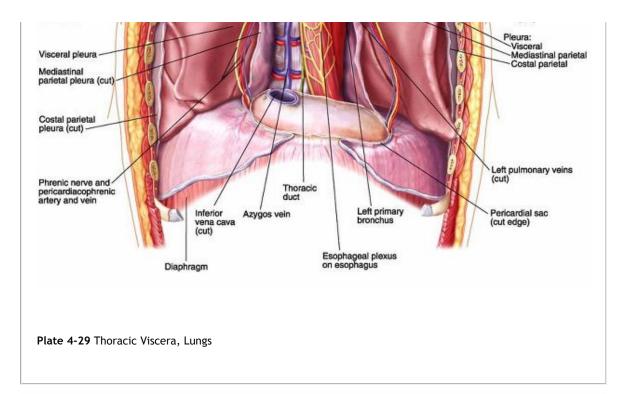


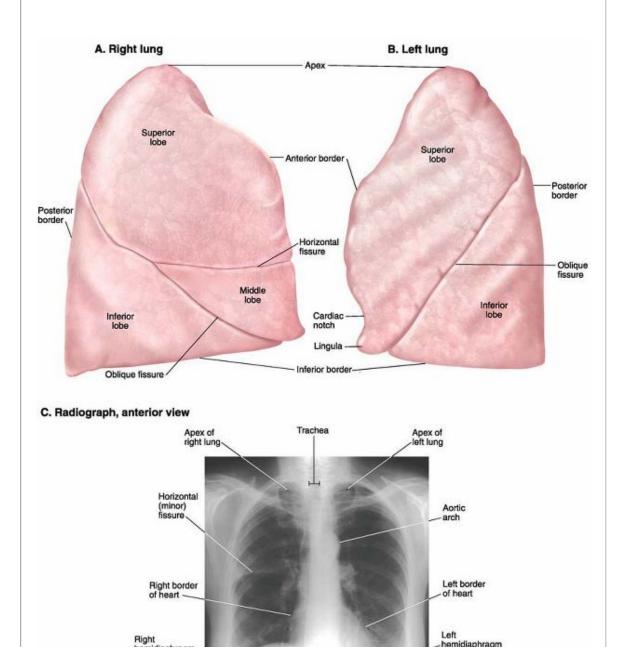


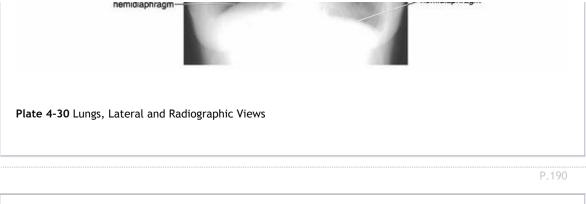


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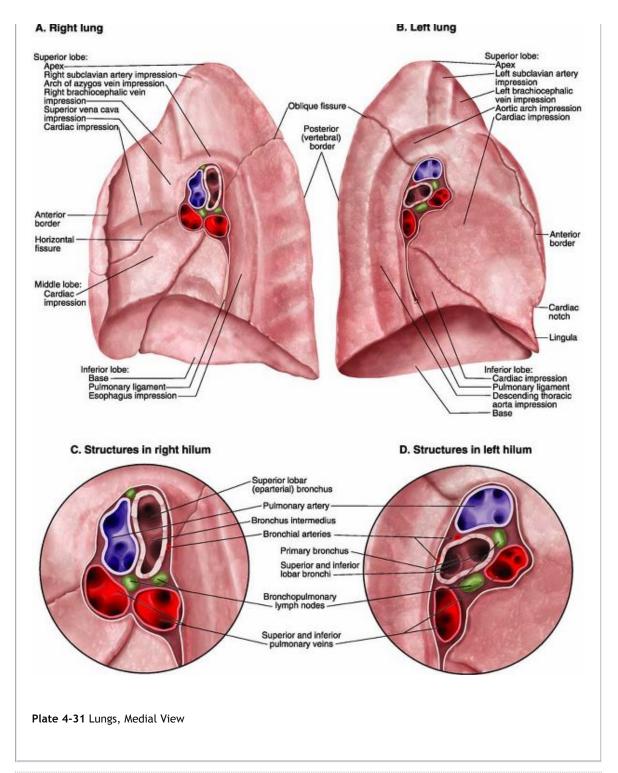


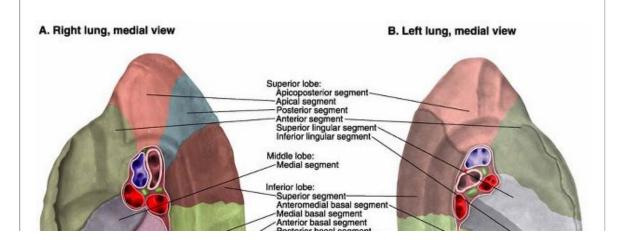


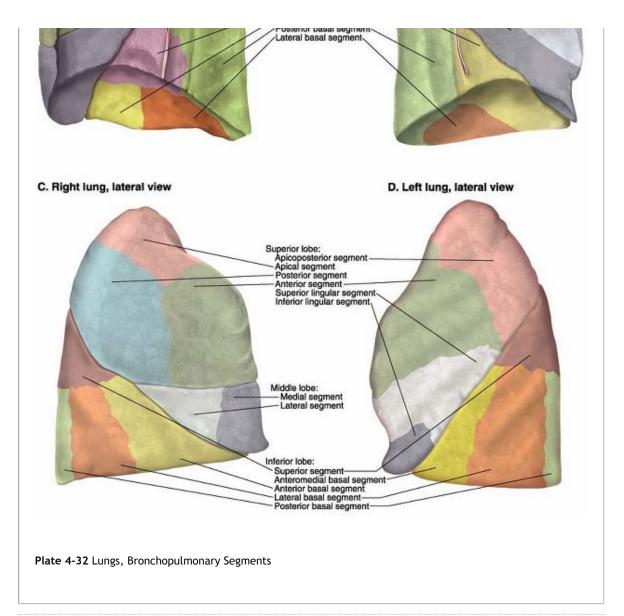


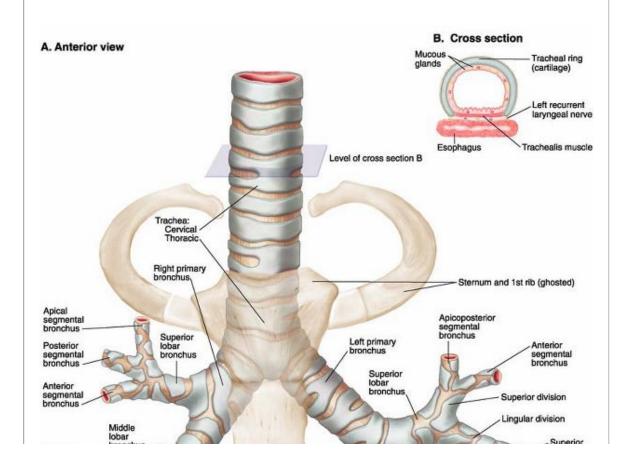


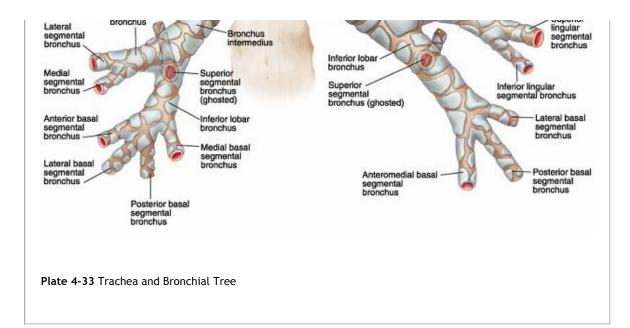
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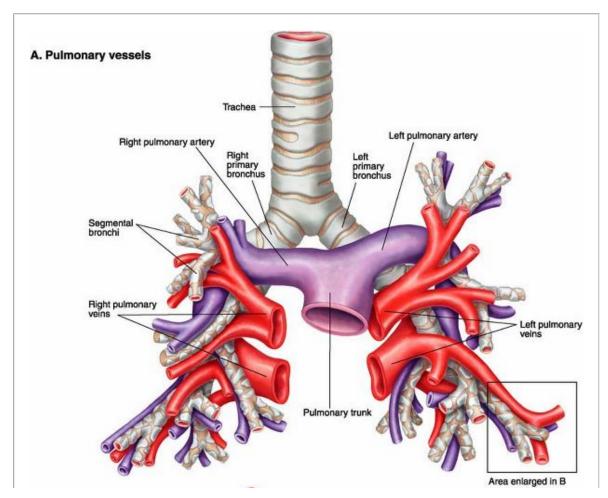


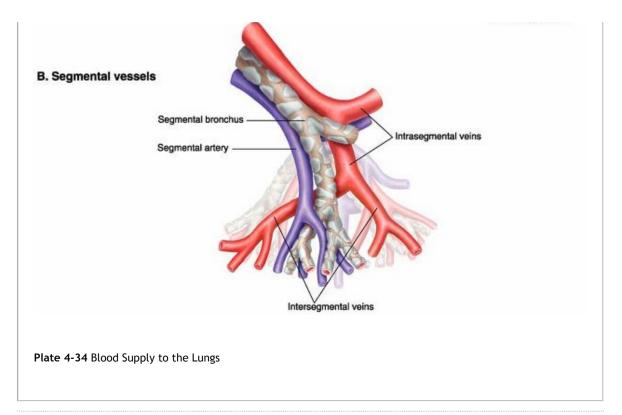


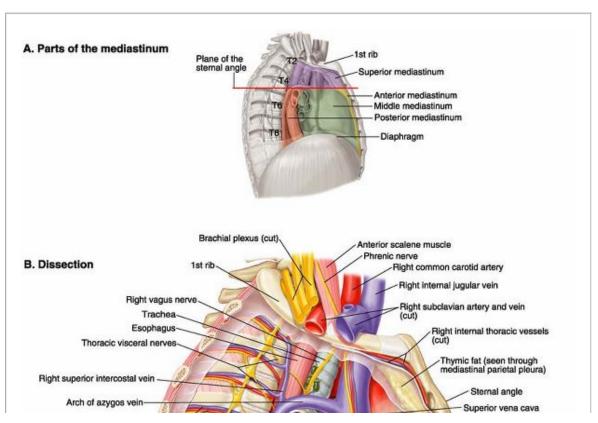


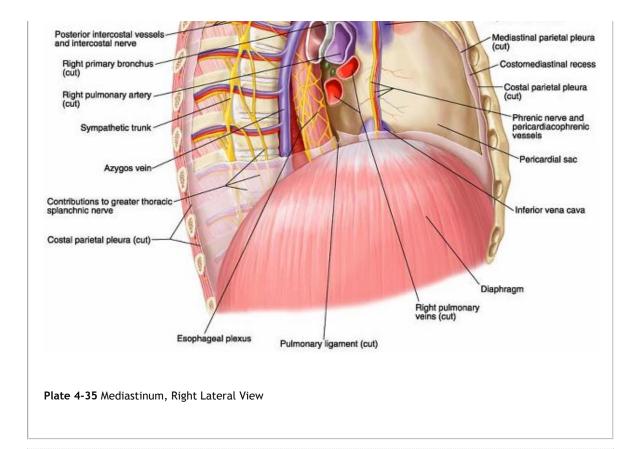




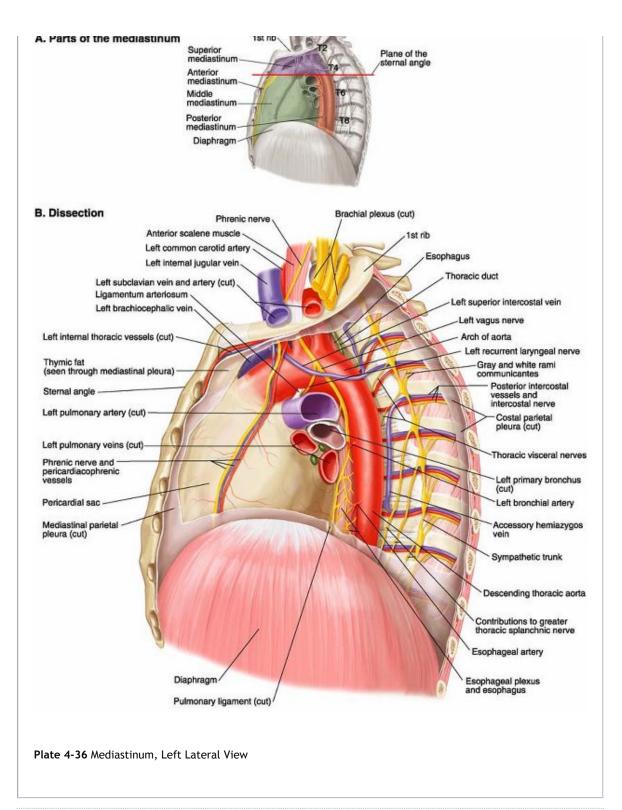


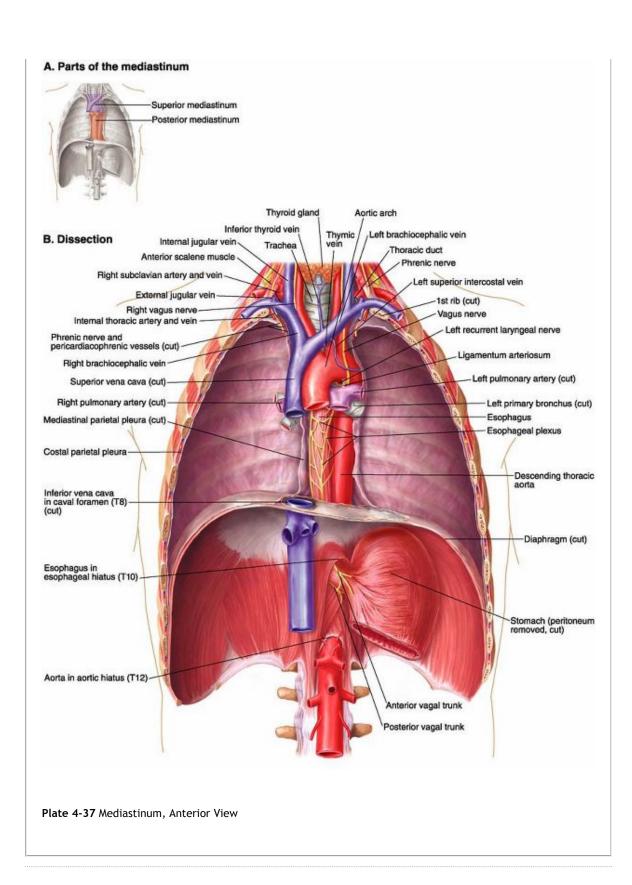






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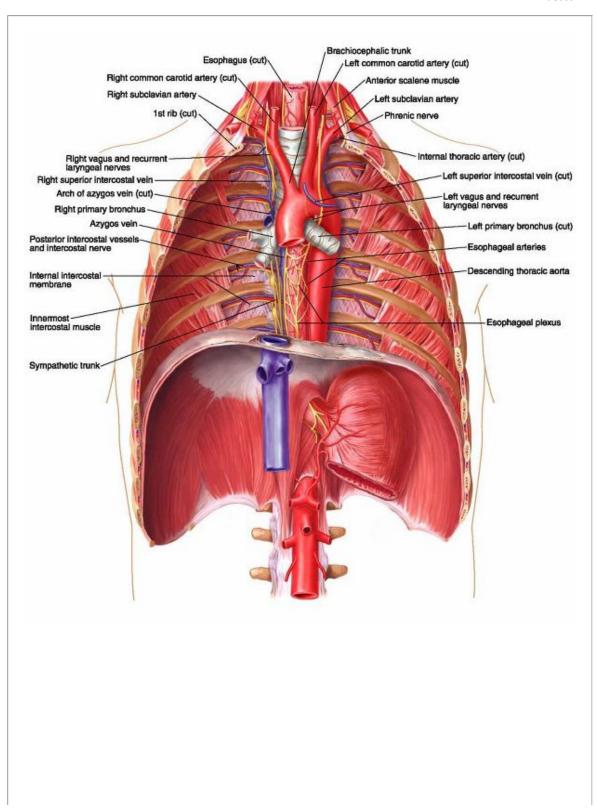
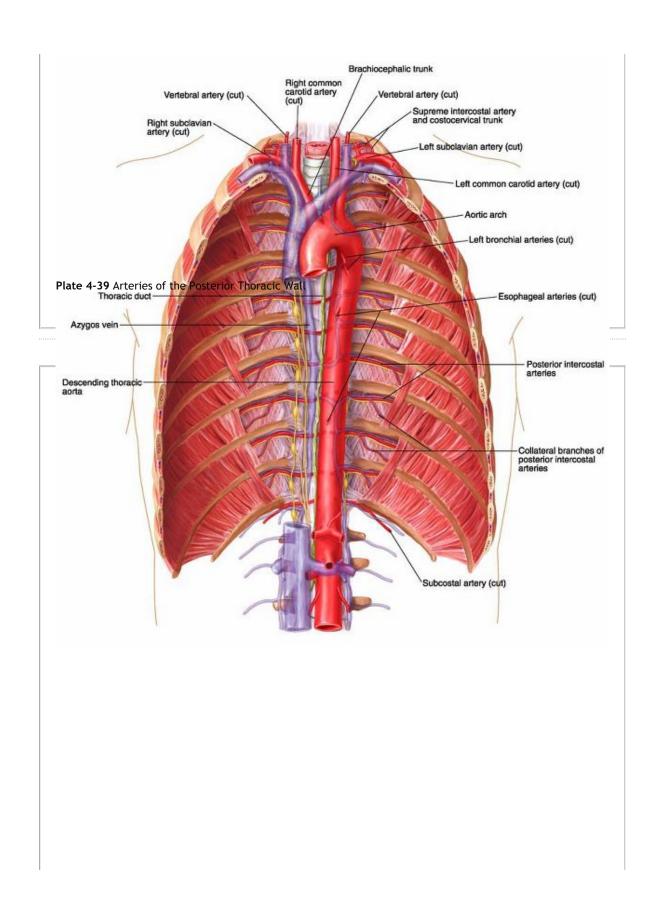
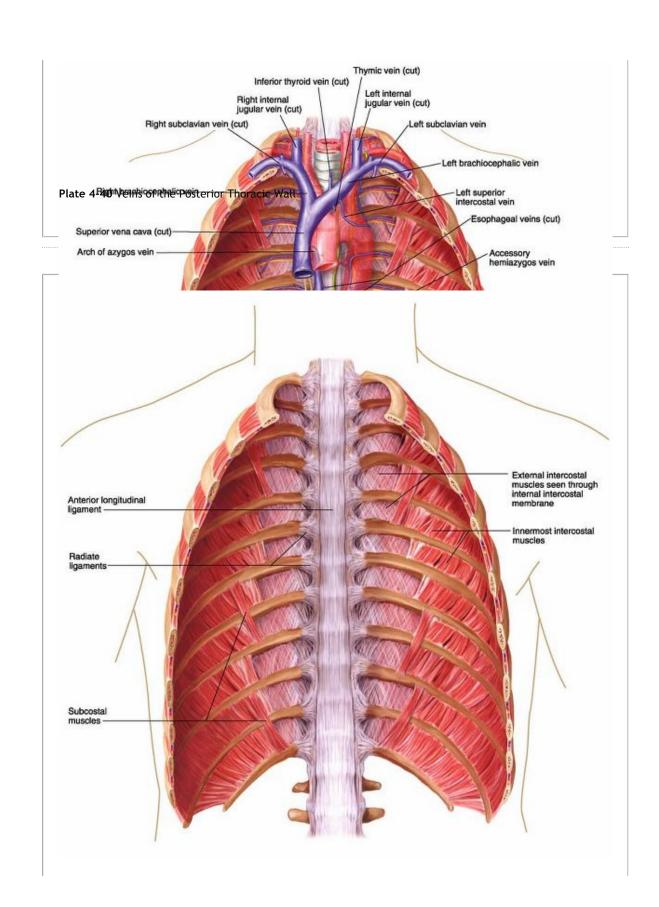
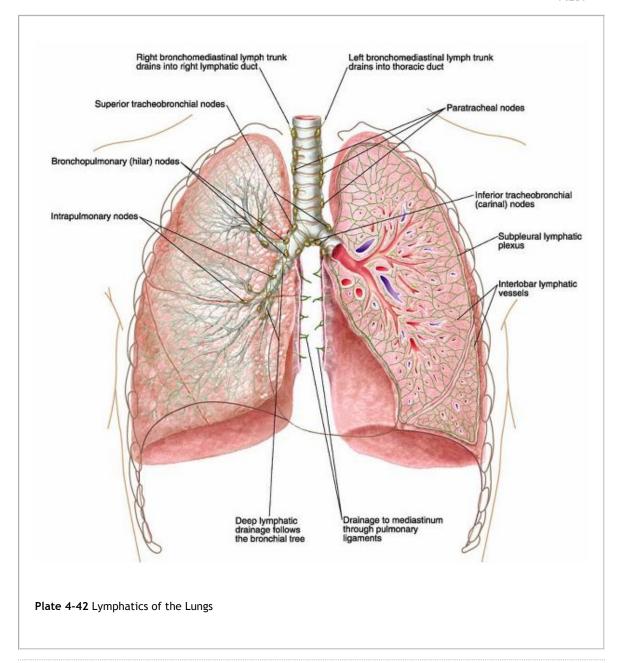
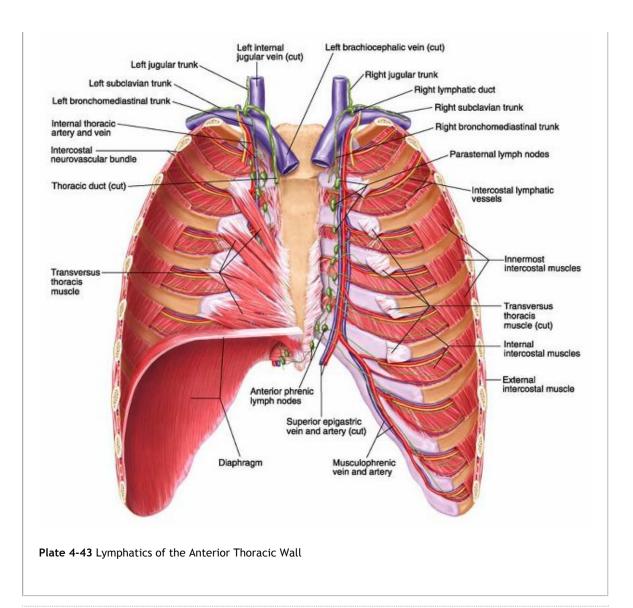


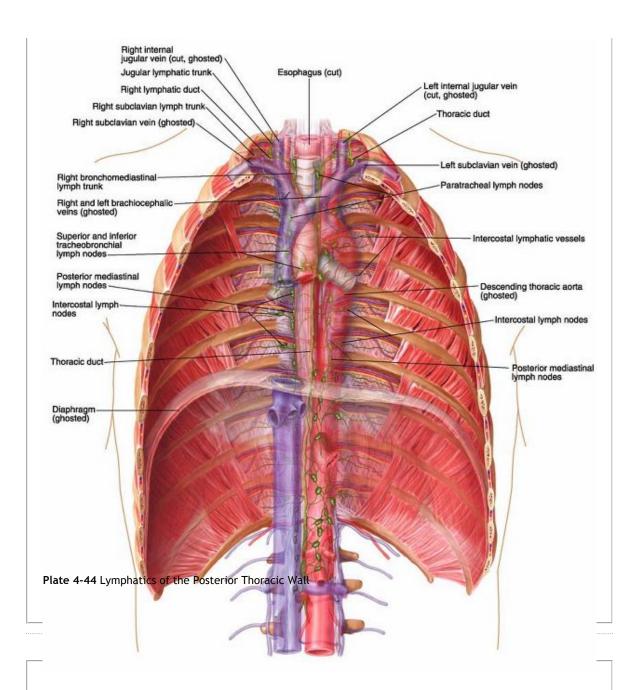
Plate 4-38 Mediastinum, Deep Dissection	
	P.198

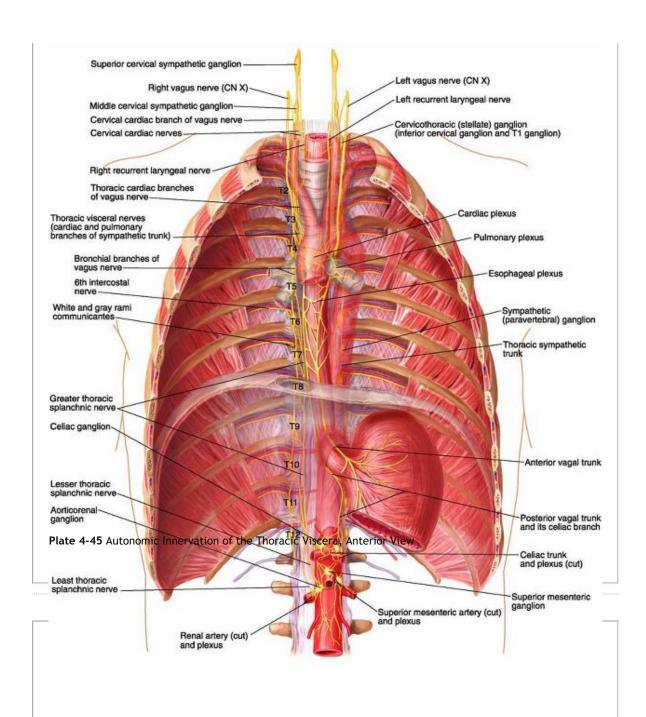












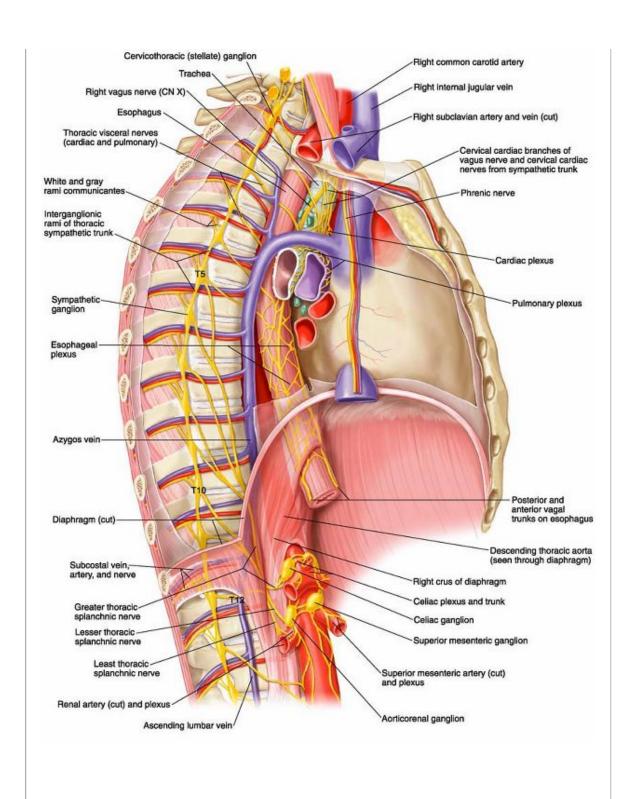
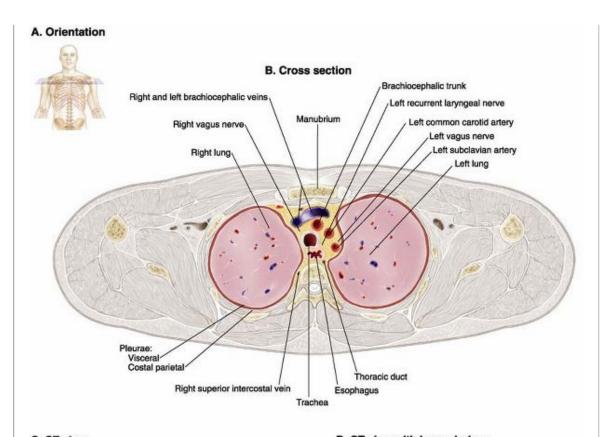
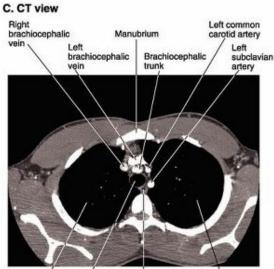


Plate 4-46 Autonomic Innervation of the Thorac	cic Viscera, Lateral View	
	P.20)6





Esophagus

Left lung

Right lung

Trachea

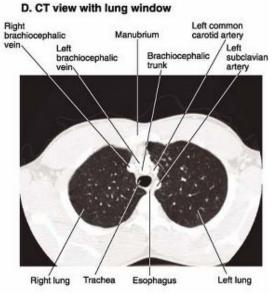
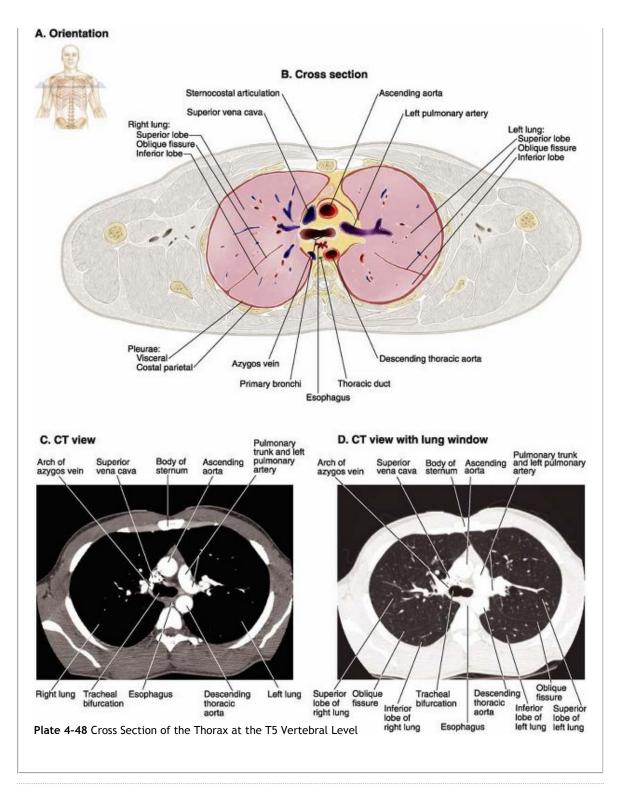
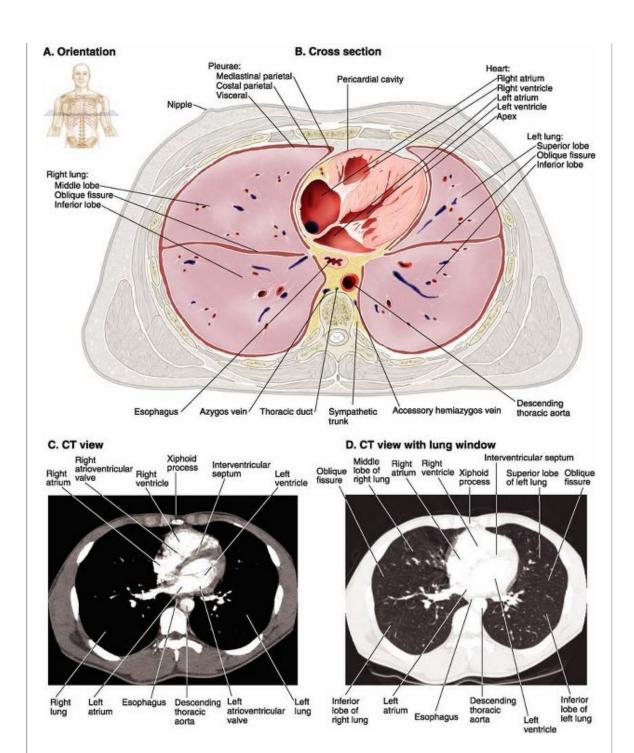


Plate 4-47 Cross Section of the Thorax at the T2 Vertebral Level	
	P.207





Pla	Plate 4-49 Cross Section of the Thorax at the T7 Vertebral Level	
1		

Authors: Tank, Patrick W.; Gest, Thomas R.

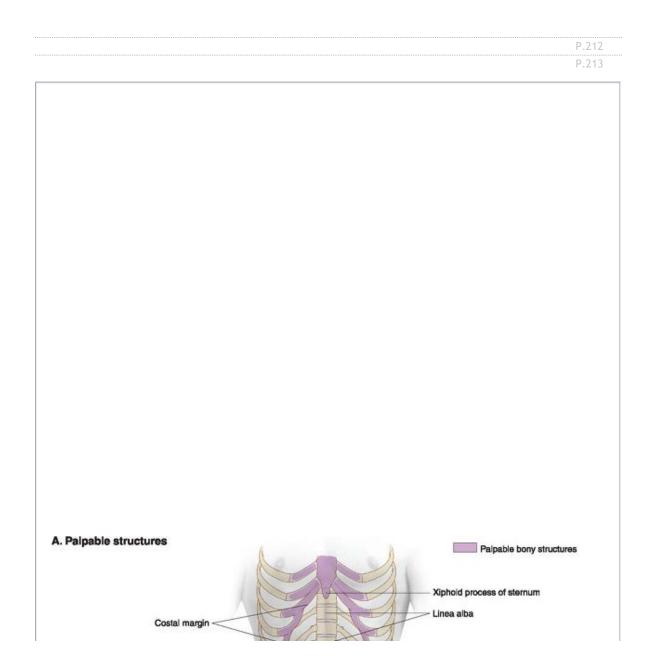
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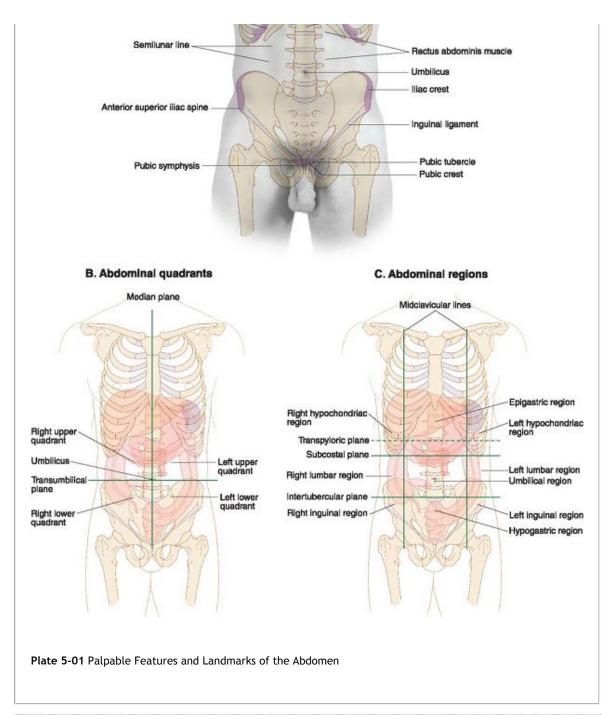
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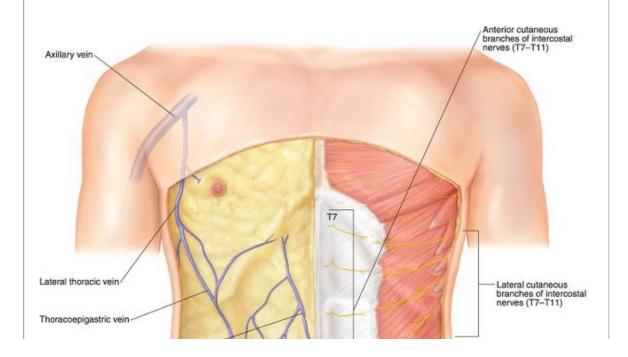
> Table of Contents > Chapter 5 - The Abdomen

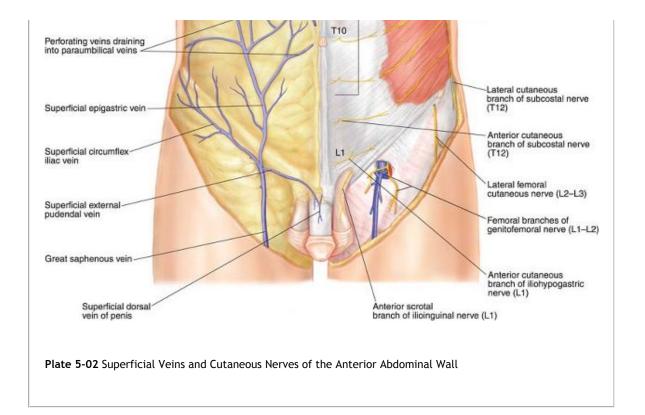
Chapter 5

The Abdomen

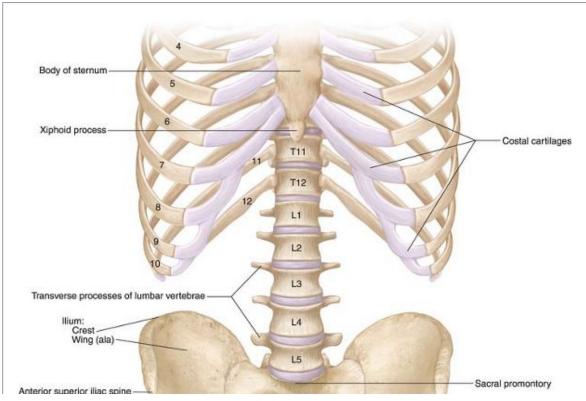


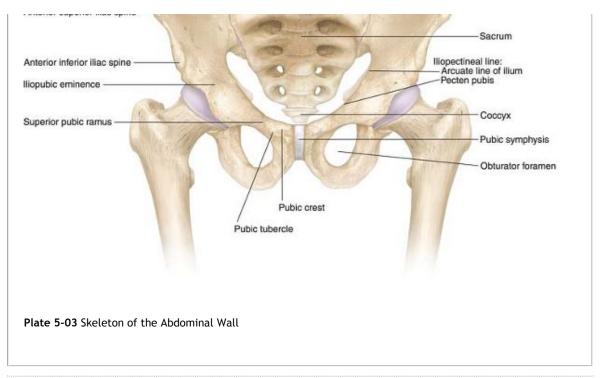


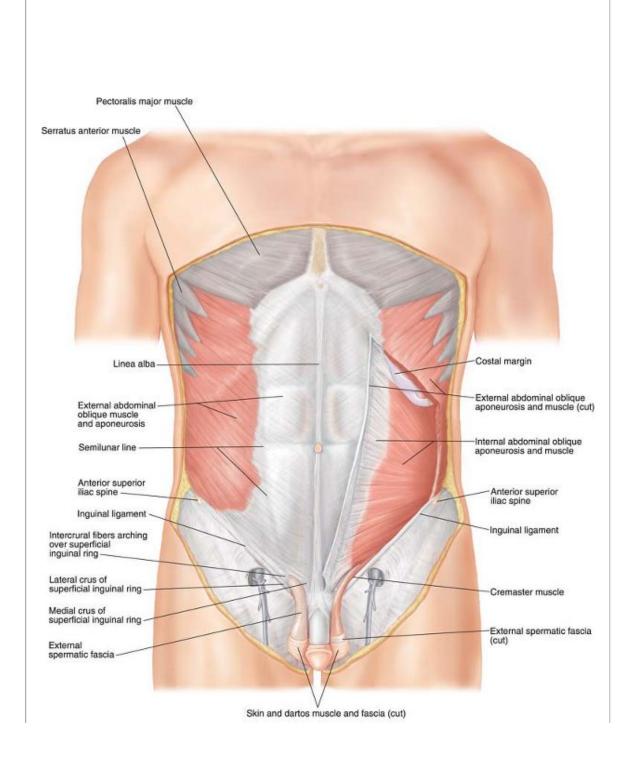












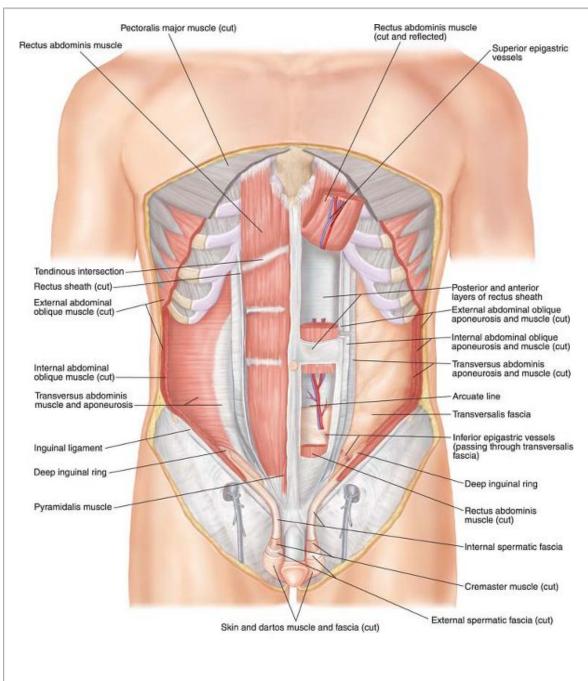
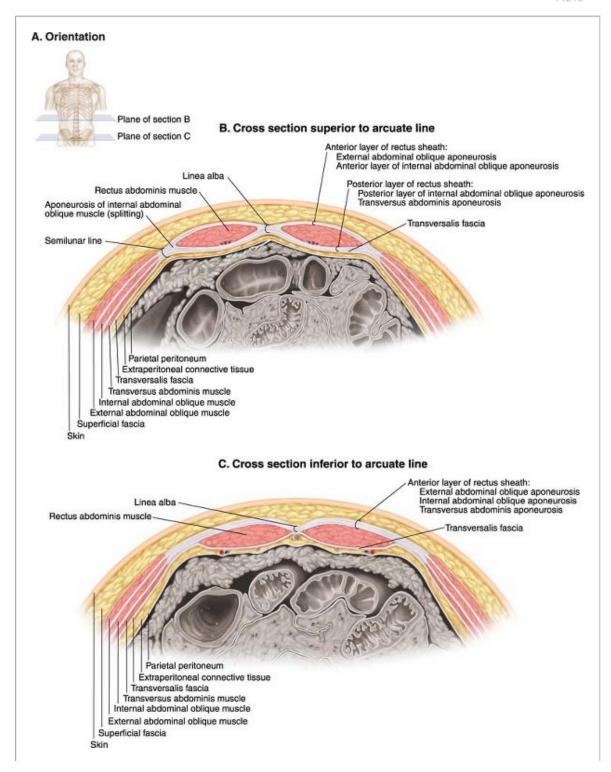


Plate 5-05 Muscles of the Anterior Abdominal Wall, Deep Dissection



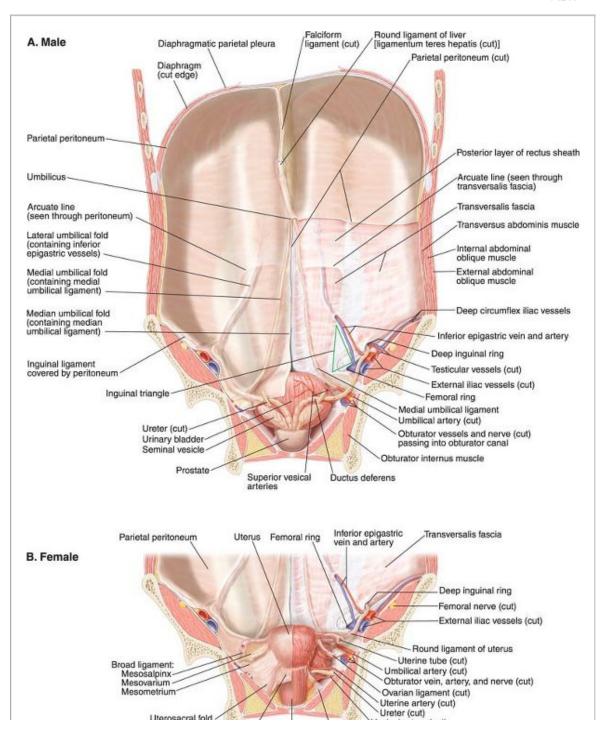
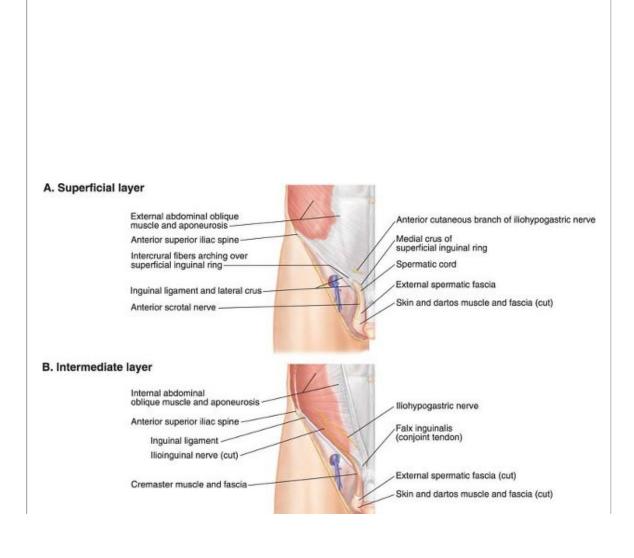
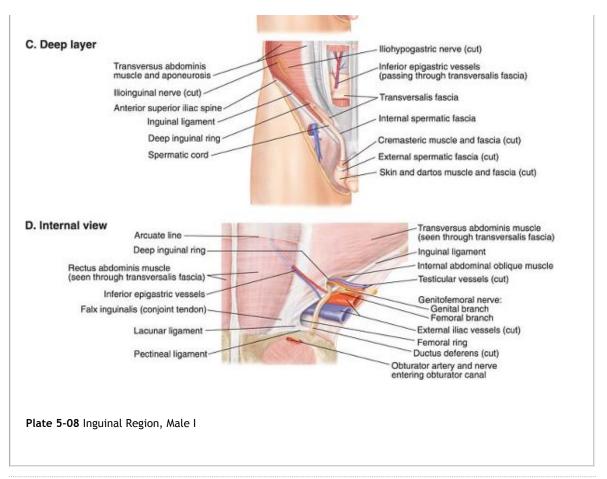
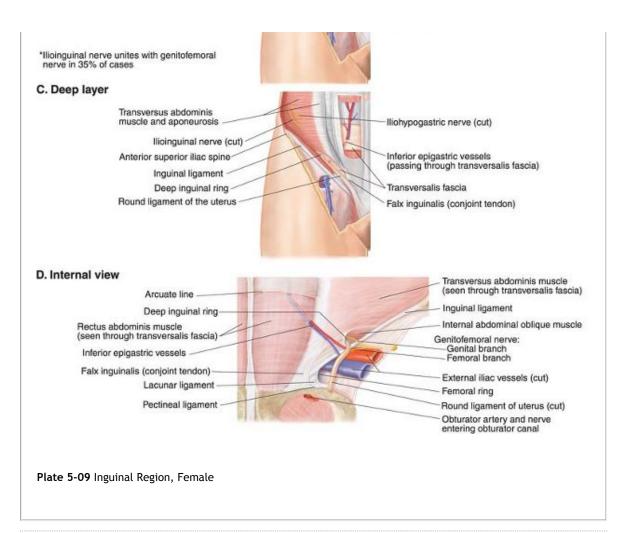


Plate 5-07 Anterior Abdominal Wall, Internal Features

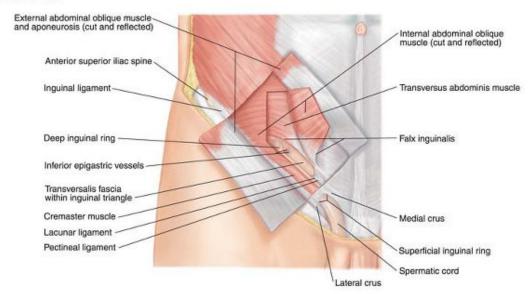




A. Superficial layer External abdominal oblique muscle and aponeurosis Anterior superior iliac spine Anterior cutaneous branch of iliohypogastric nerve Intercrural fibers arching over superficial inguinal ring Medial crus of superficial inguinal ring Inguinal ligament and lateral crus of superficial inguinal ring Round ligament of uterus Anterior labial nerve Skin and dartos muscle and fascia of labium majus B. Intermediate layer Internal abdominal oblique lliohypogastric nerve muscle and aponeurosis Transversalis fascia Anterior superior iliac spine Falx inguinalis (conjoint tendon) Inguinal ligament Ilioinguinal nerve (cut)* Round ligament of uterus Cremaster muscle and fascia



A. Dissection



B. Layers separated for visibility

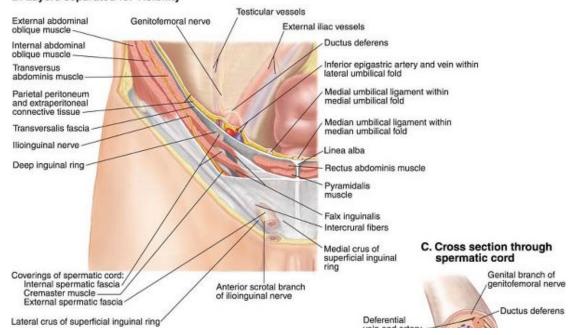
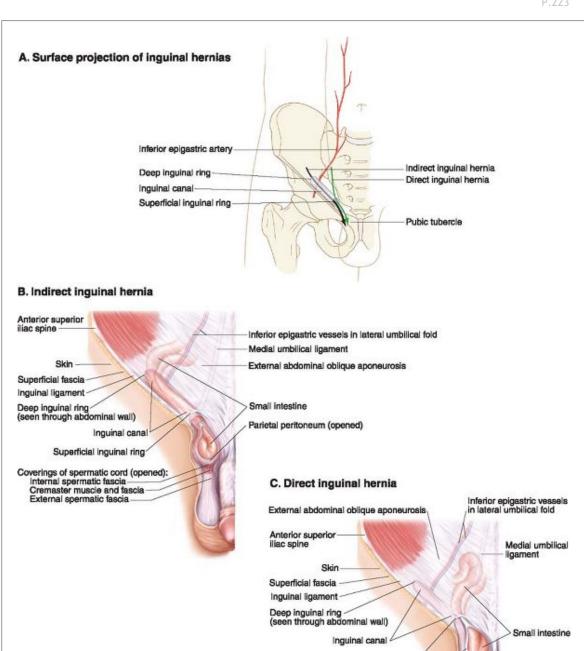


Plate 5-10 Inguinal Region, Male II



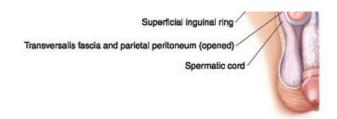
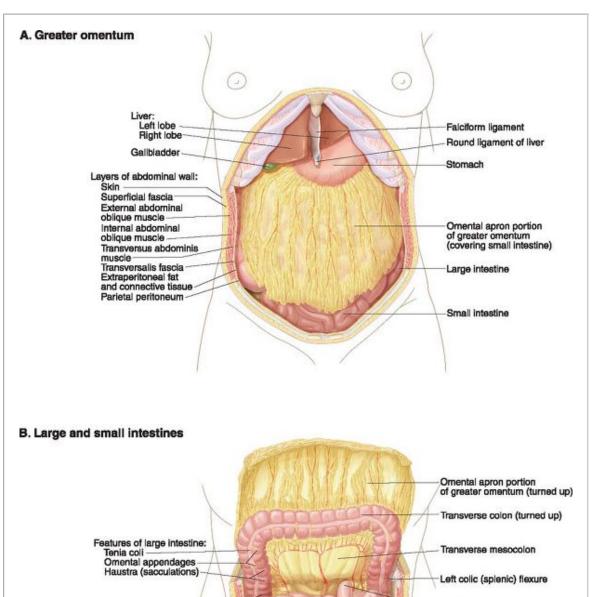
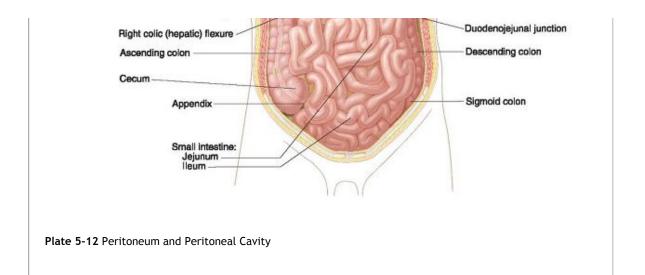
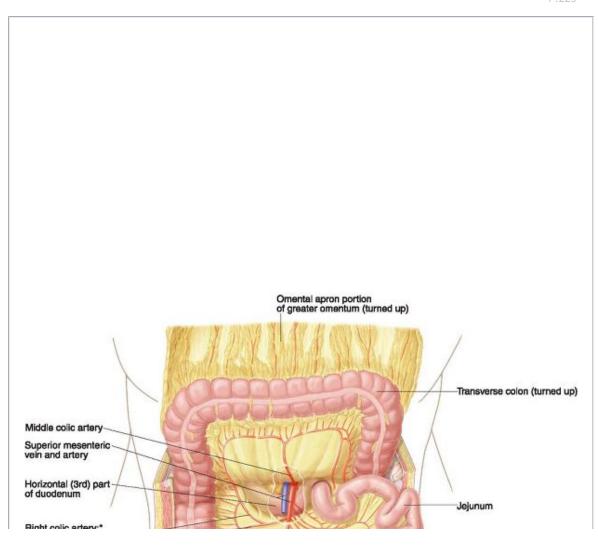
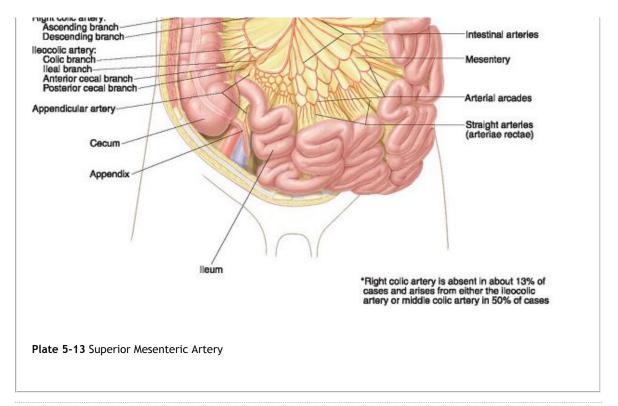


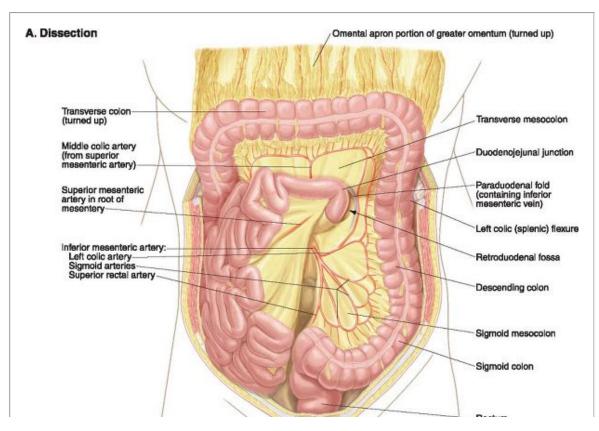
Plate 5-11 Inguinal Hernias

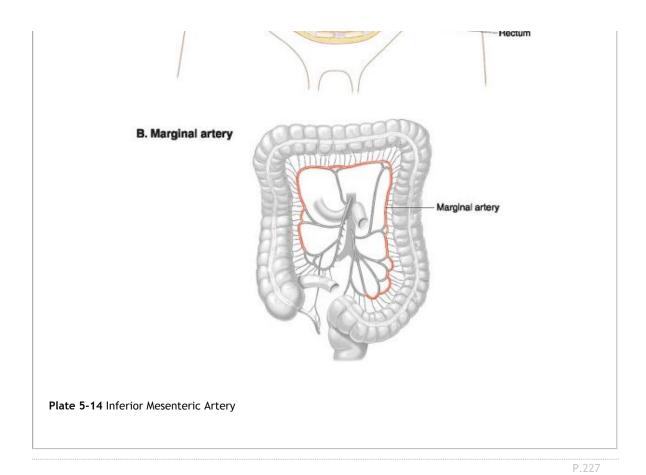


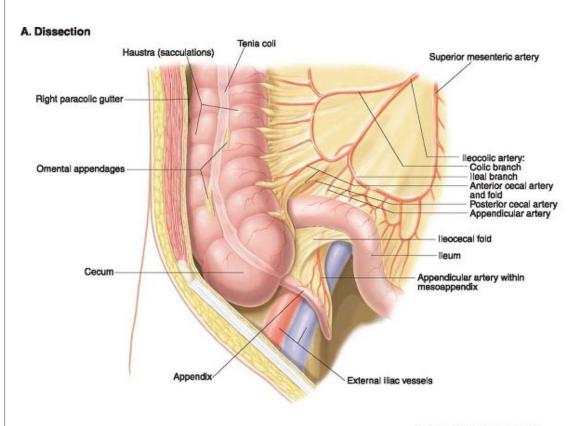




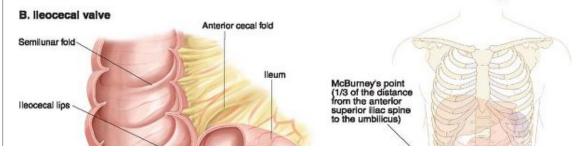


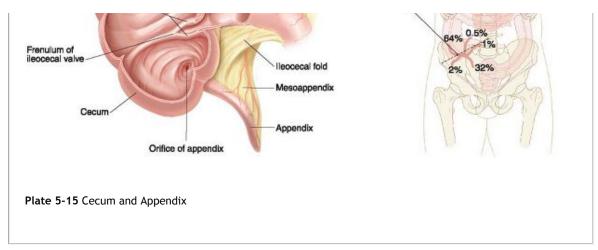






C. Location of appendix





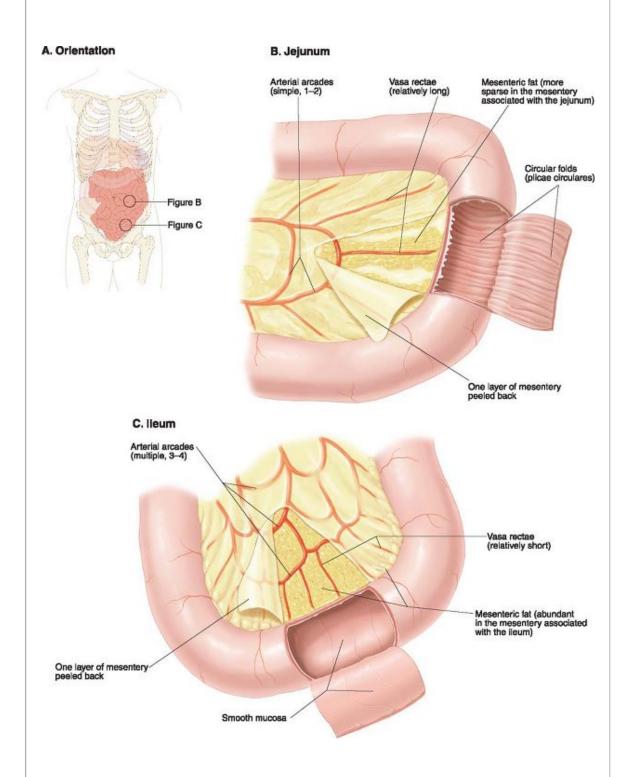
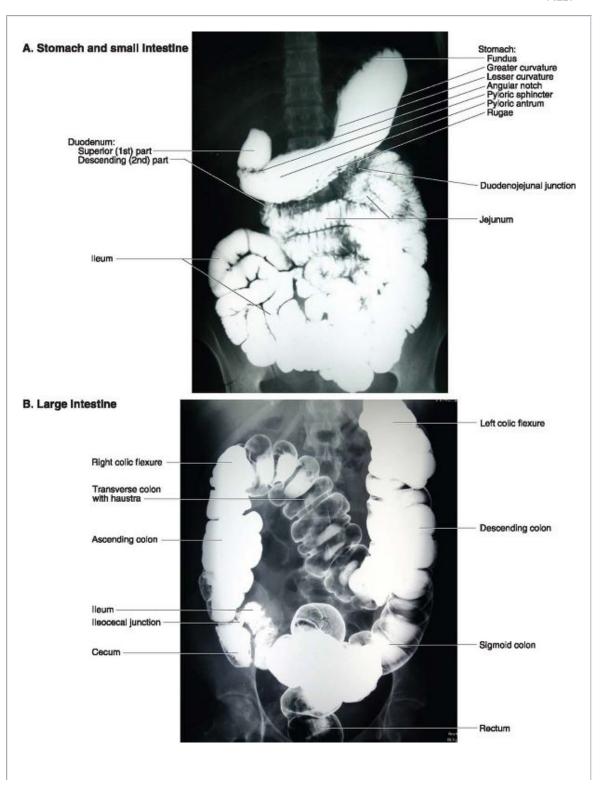
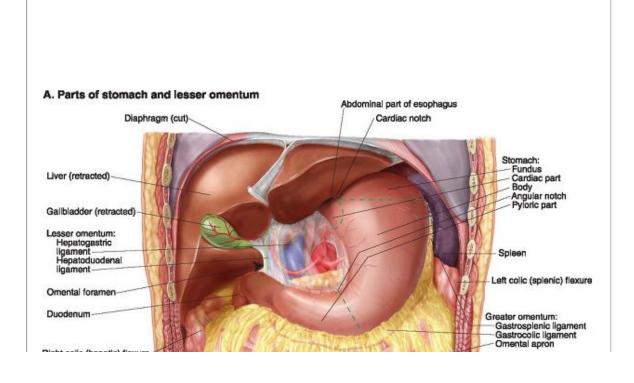
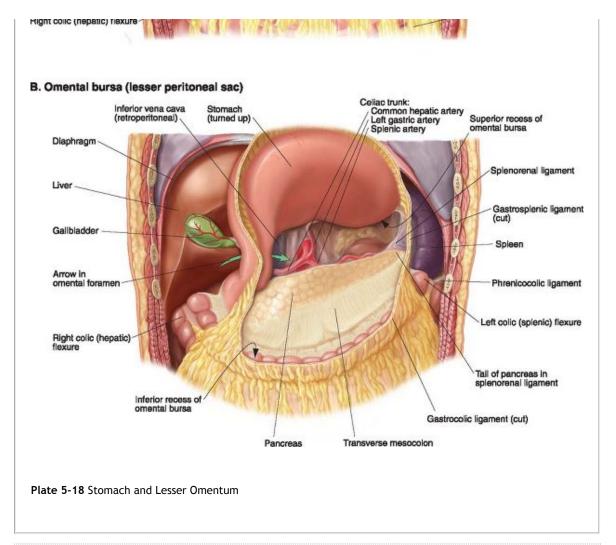
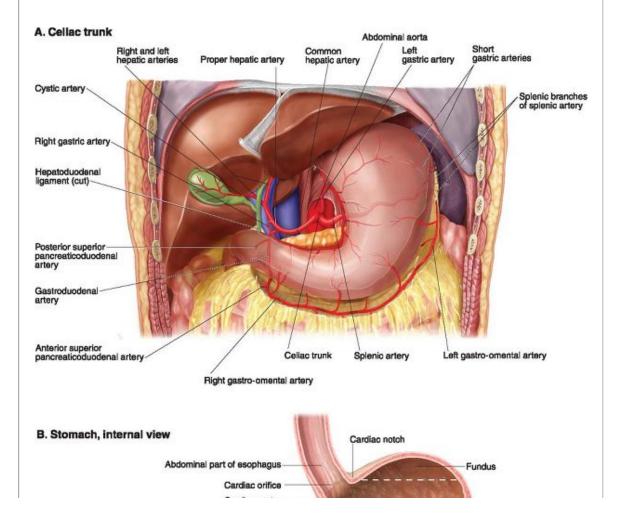


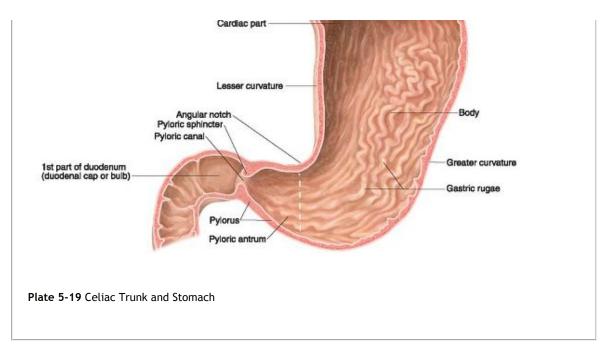
Plate 5-16 Jejunum and Ileum



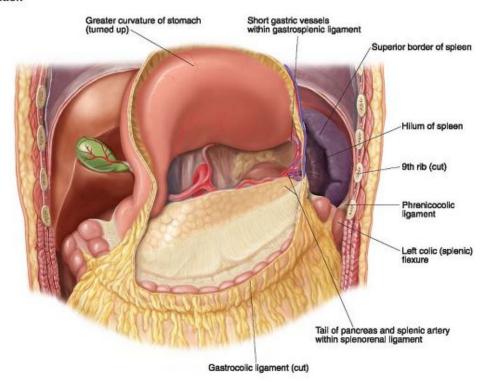






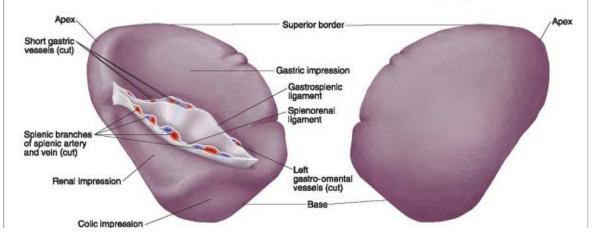


A. Dissection



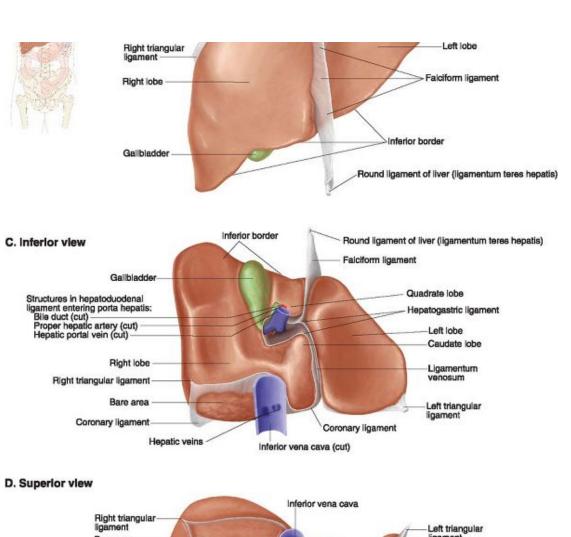
B. Visceral surface

C. Diaphragmatic surface



A. Orientation





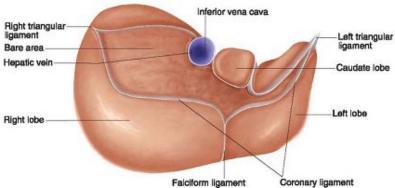
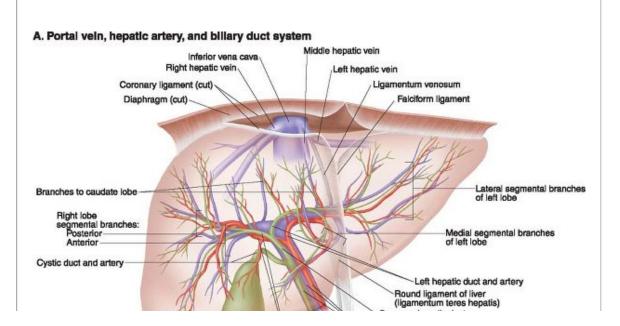
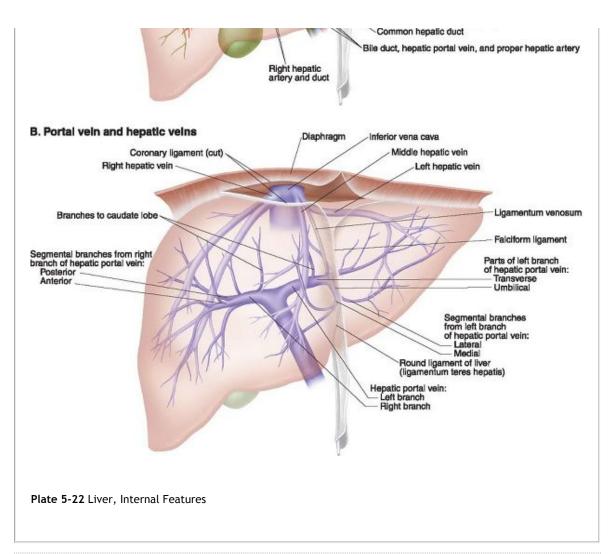
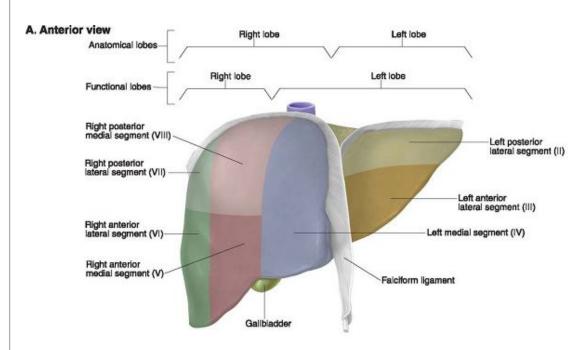
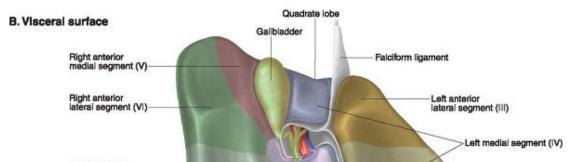


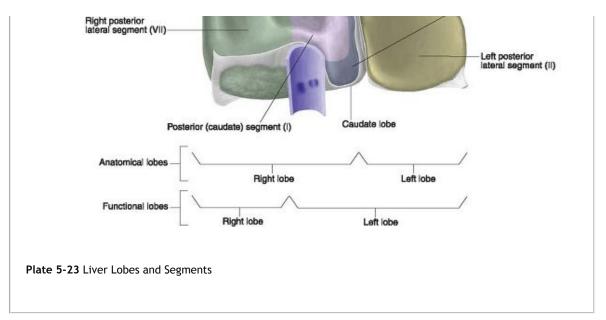
Plate 5-21 Liver





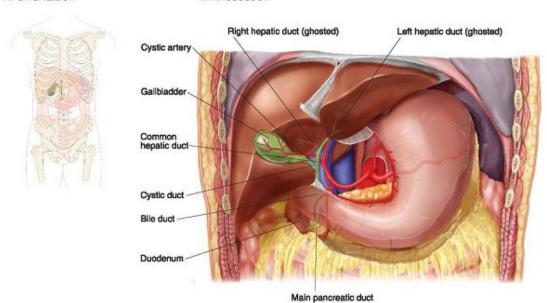


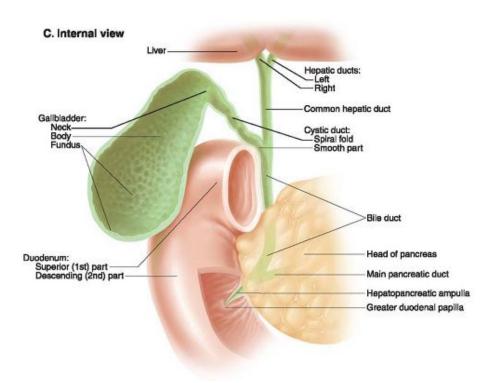




A. Orientation

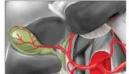
B. Dissection

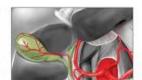


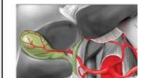


A. Variations in the hepatic arteries











Right and left hepatic arteries arising from proper hepatic artery; right hepatic artery passing posterior to common hepatic duct (64%)



Right hepatic artery passing anterior to common hepatic duct (24%)



Right hepatic artery arising from superior mesenteric artery (12%)



Left hepatic artery arising from left gastric artery (11%)

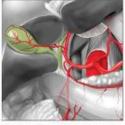
B. Variations in the cystic artery



Cystic artery arising from right hepatic artery and passing posterior to common hepatic duct (76%)



Cystic artery arising from right hepatic artery and passing anterior to common hepatic duct (13%)



Cystic artery arising from left hepatic artery and passing anterior to common hepatic duct (6%)

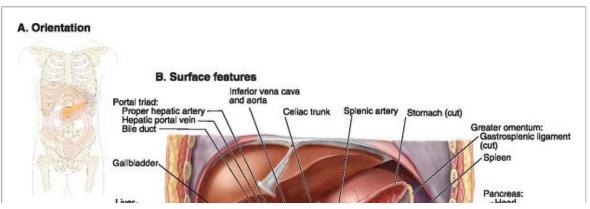


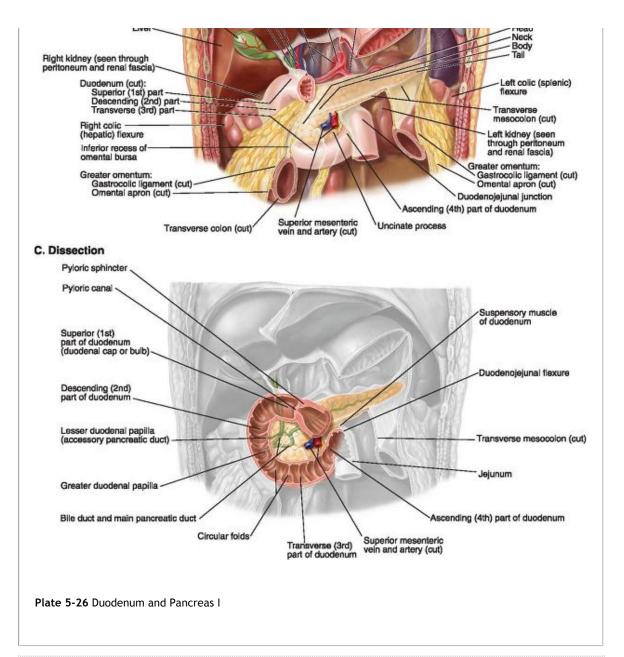
Cystic artery arising from gastroduodenal artery and passing anterior to common hepatic duct (3%)

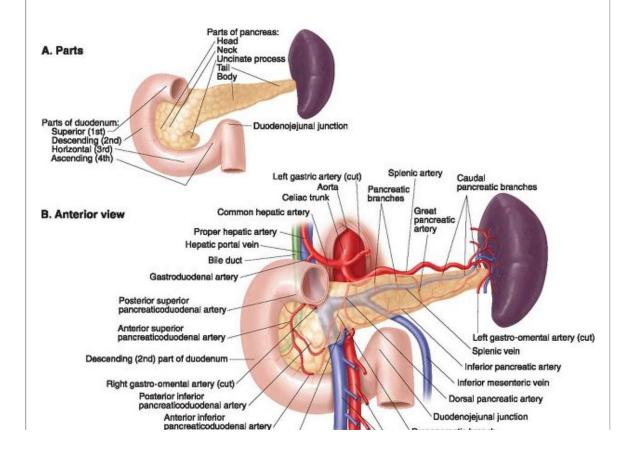


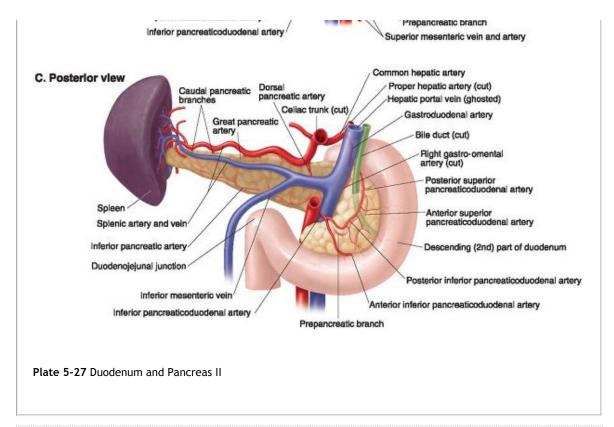
Cystic artery arising from proper hepatic artery and passing anterior to common hepatic duct (2%)

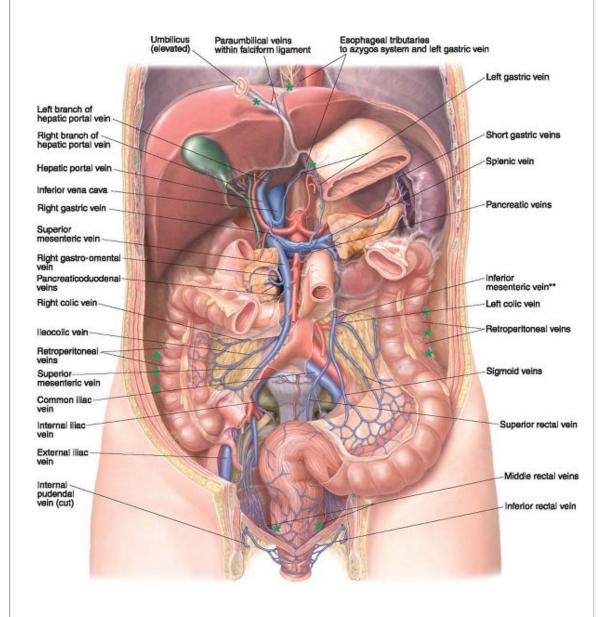
Plate 5-25 Variations in Blood Supply to the Liver and Gallbladder





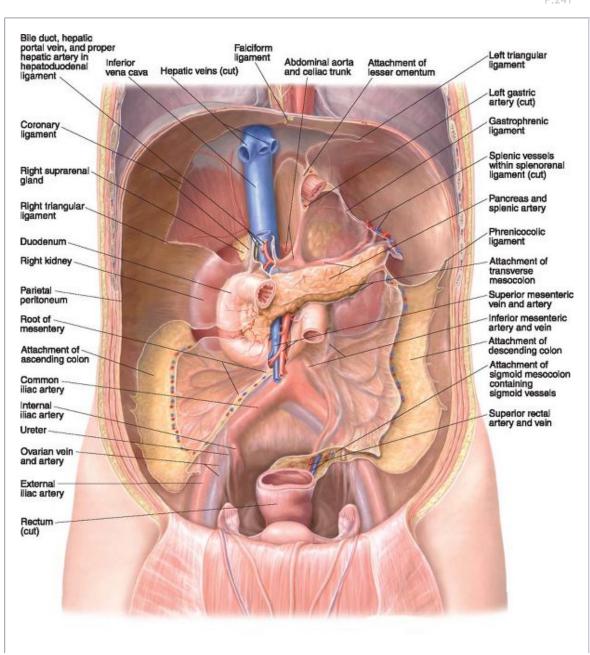






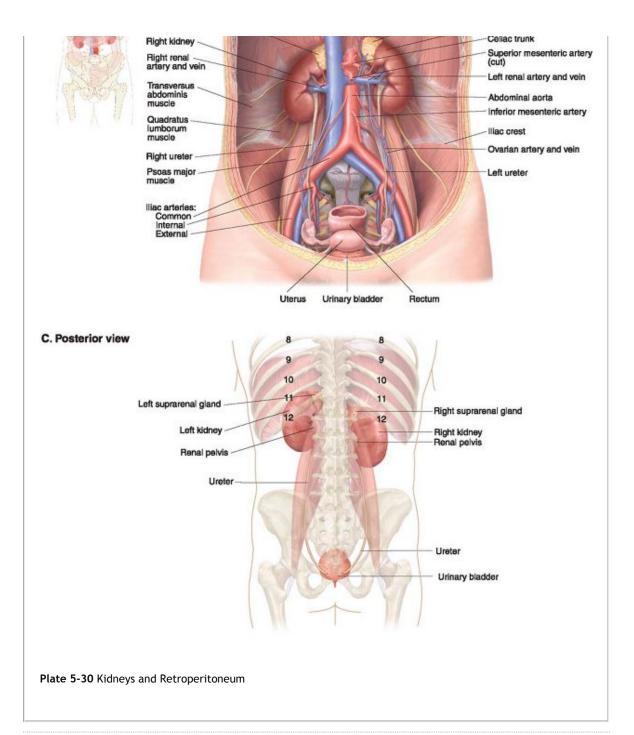
- Esophageal inbutaries of left gastric vein to esophageal inbutaries of azygos system of veins
 Superior rectal vein to middle and inferior rectal veins
 Paraumbilical tributaries of left hepatic portal vein to superficial veins of anterior body wall
 Retroperitoneal veins to veins of posterior body wall

Plate 5-28 Hepatic Portal Vein



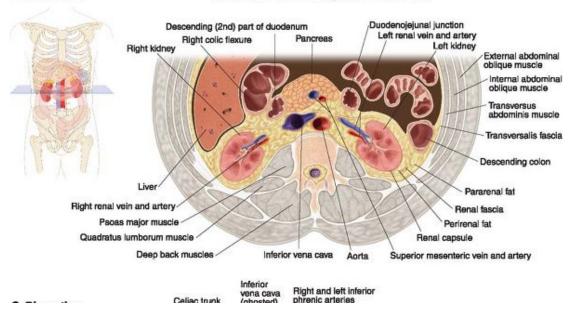
^{**}Inferior mesenteric vein can join the splenic vein (34%), the superior mesenteric vein (33%), or the junction of the splenic and superior mesenteric veins (32%)

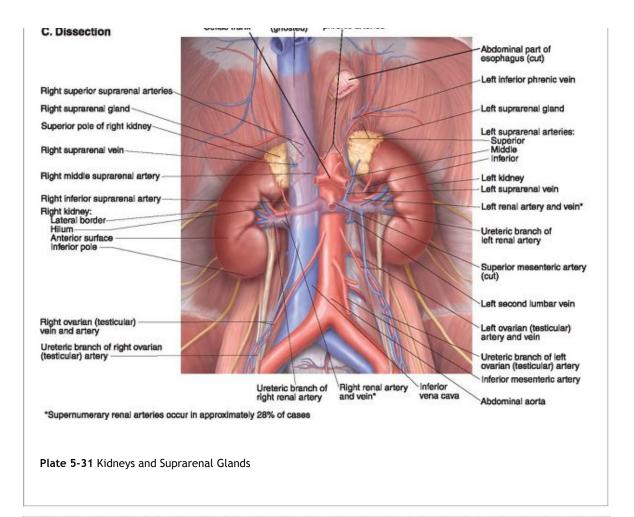
Left kidney

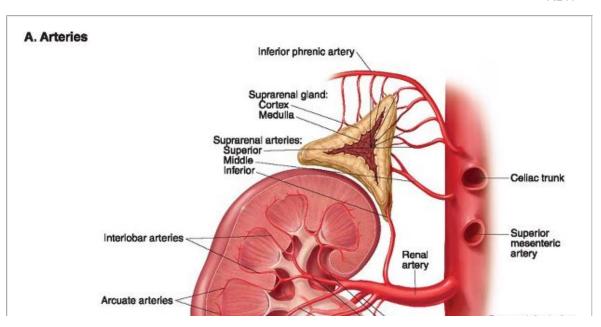


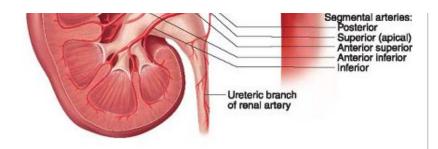
A. Orientation

B. Cross section through the L2 vertebra









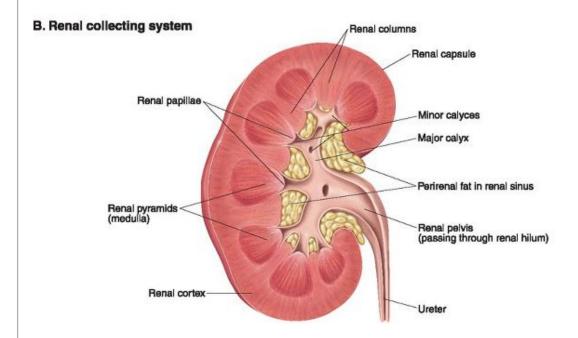
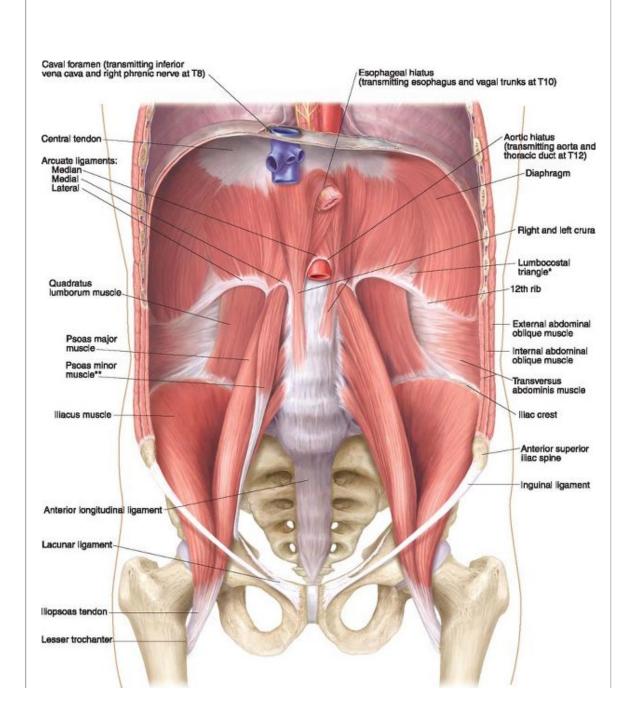
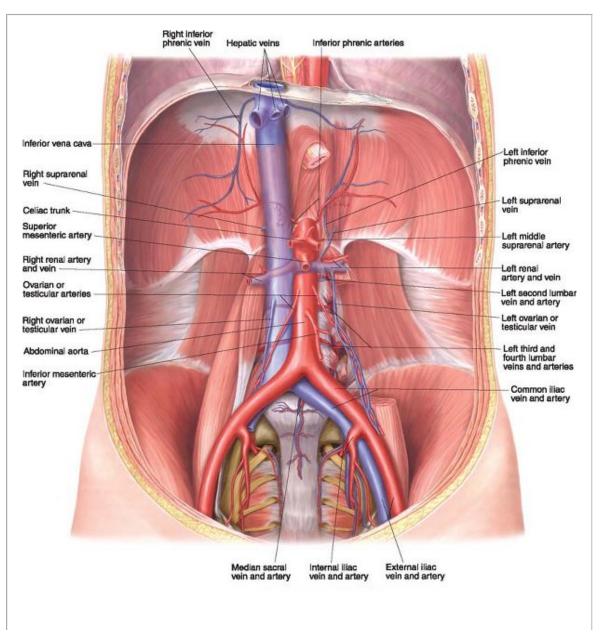


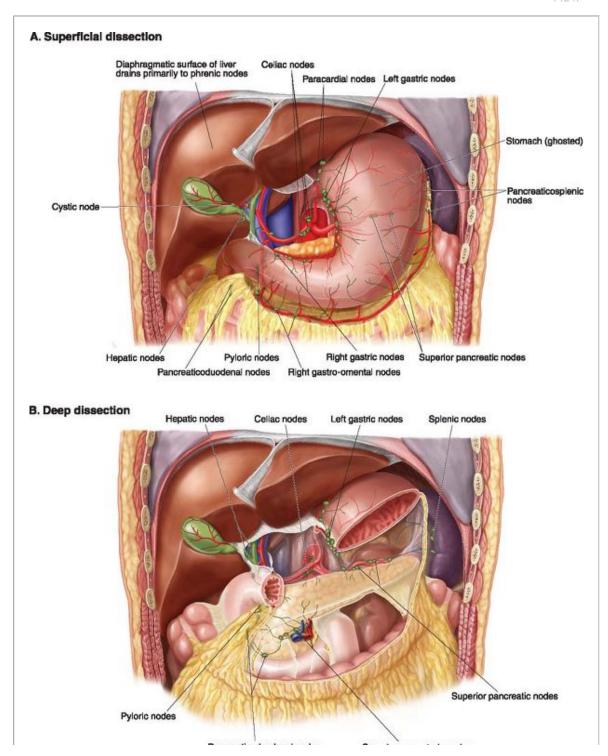
Plate 5-32 Kidney and Suprarenal Gland, Internal Features



* Lumbocostal triangle is present in 80% of cases ** Psoas minor muscle is present in 50% of cases

Plate 5-33 Diaphragm and Muscles of the Posterior Abdominal Wall





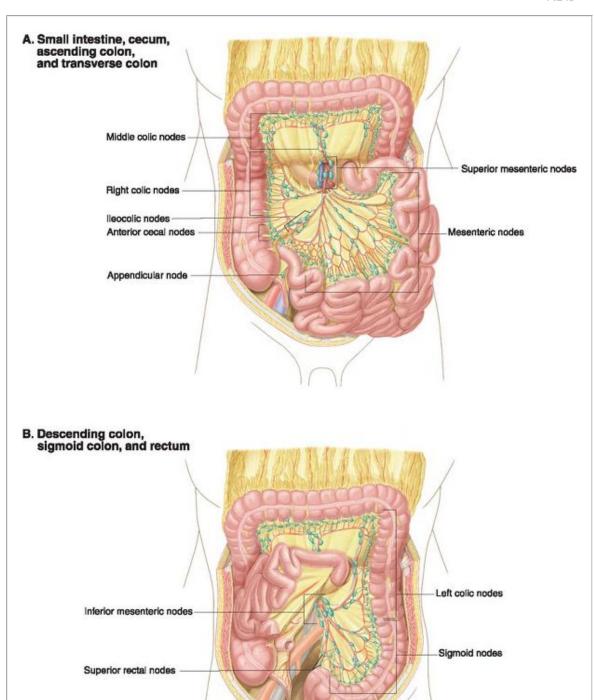
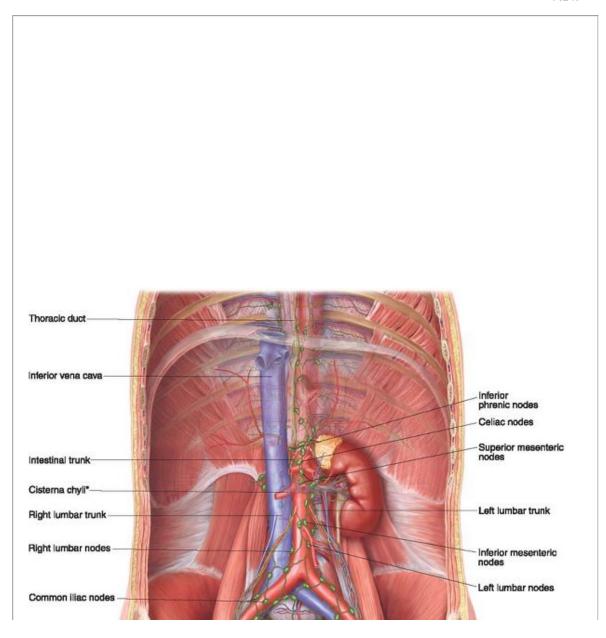




Plate 5-36 Lymphatic Drainage of the Small and Large Intestines



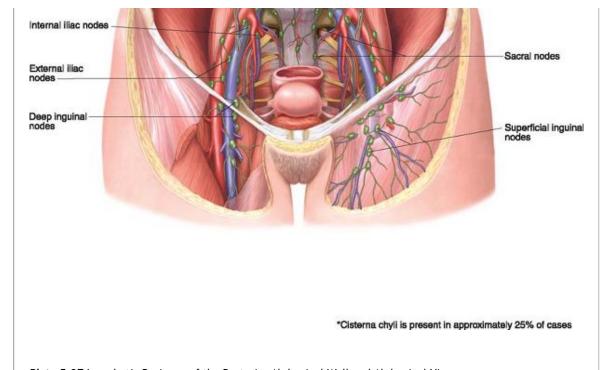
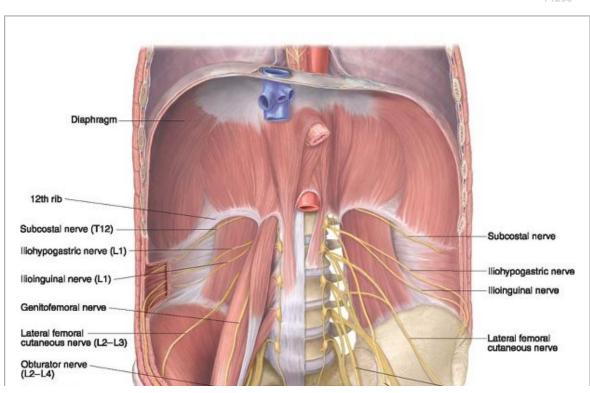
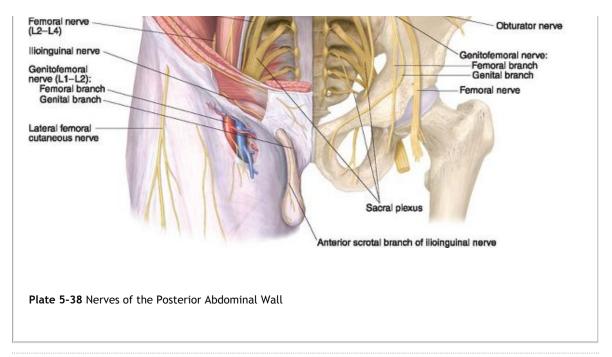
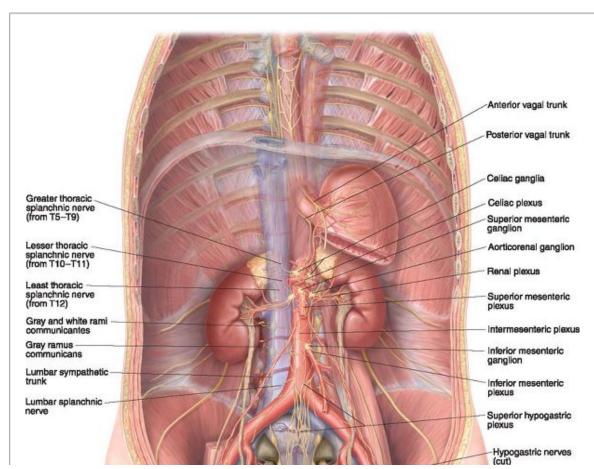


Plate 5-37 Lymphatic Drainage of the Posterior Abdominal Wall and Abdominal Viscera





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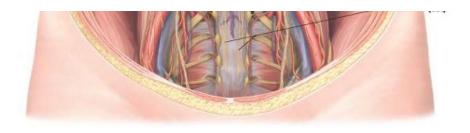
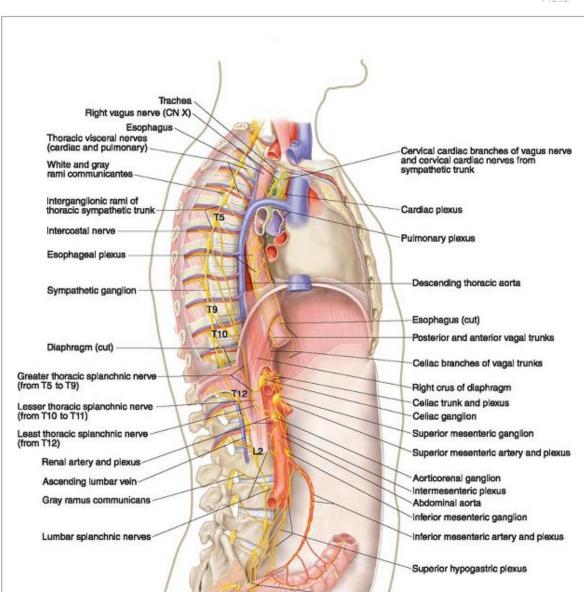


Plate 5-39 Autonomic Nerves of the Abdomen, Anterior View



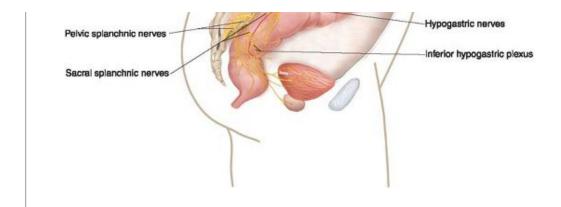
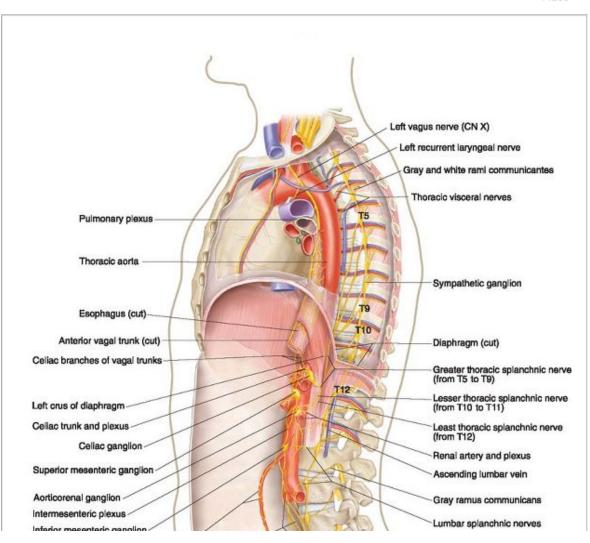
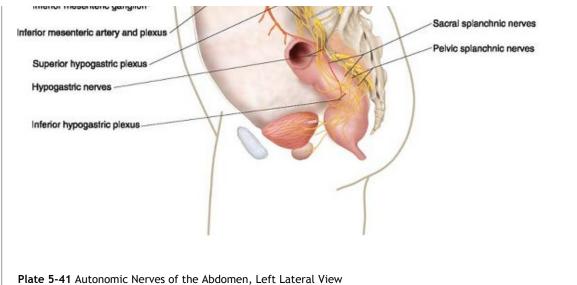
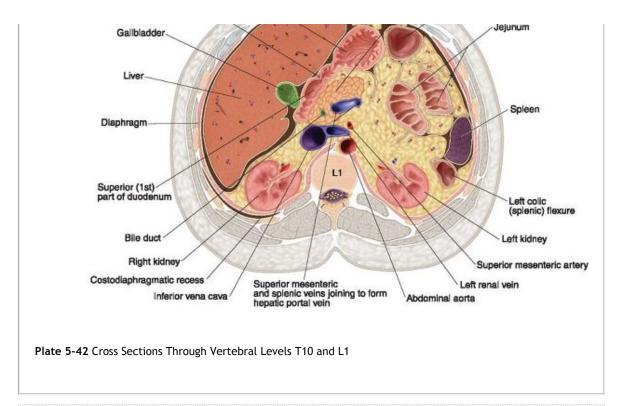


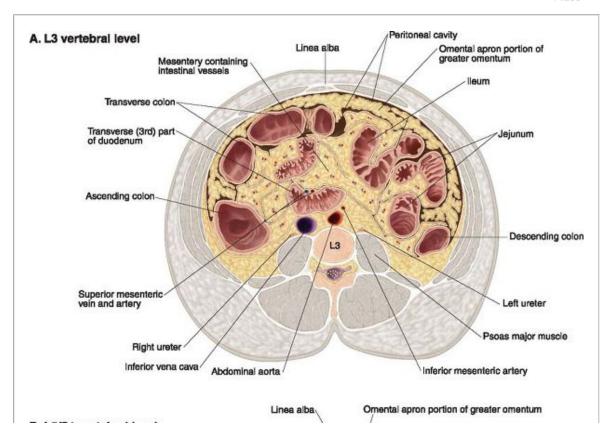
Plate 5-40 Autonomic Nerves of the Abdomen, Right Lateral View





A.T10 vertebral level Falciform ligament Costal cartilages Peritoneal cavity Pleural cavity Esophageal opening Fundus of stomach Spleen Diaphragm Hepatic veins Left lung Right lung Right crus of diaphragm Thoracic duct
Azygos vein Hemiazygos vein Descending thoracic aorta Inferior vena cava Linea alba Peritoneal cavity B. L1 vertebral level Falciform ligament Neck of pancreas Stomach-Transverse colon Pyloric sphincter-





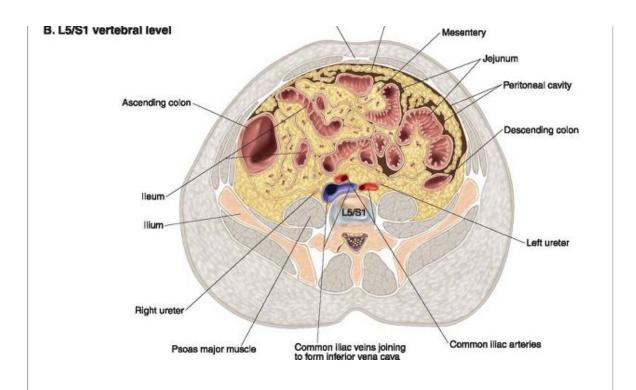


Plate 5-43 Cross Sections Through Vertebral Levels L3 and L5/S1

Authors: Tank, Patrick W.; Gest, Thomas R.

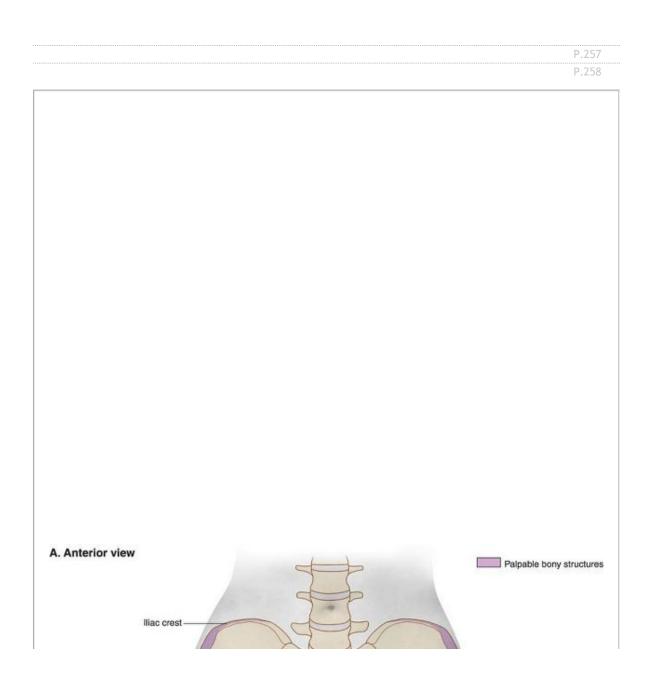
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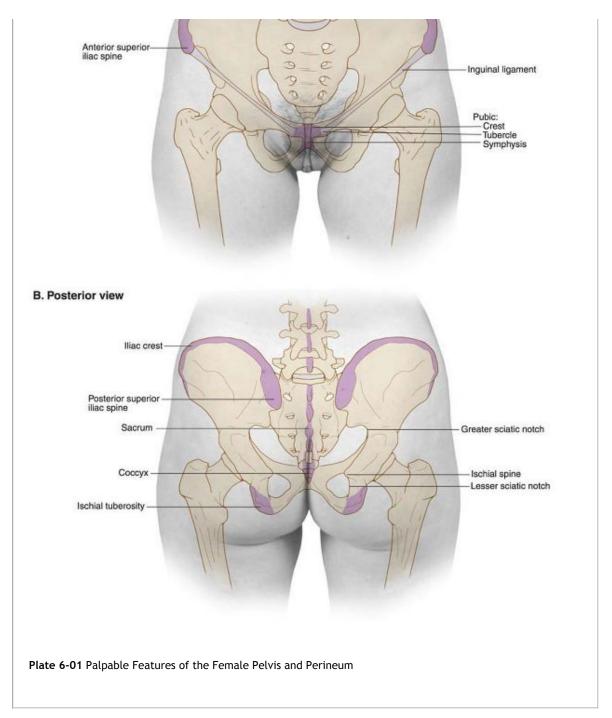
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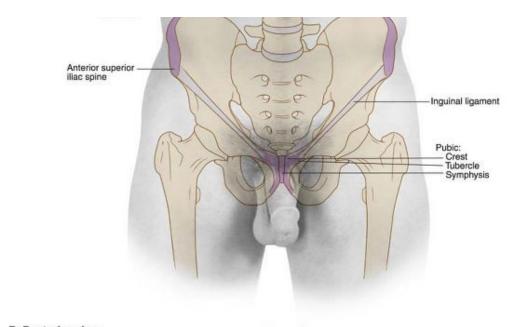
Chapter 6

The Pelvis and Perineum









B. Posterior view

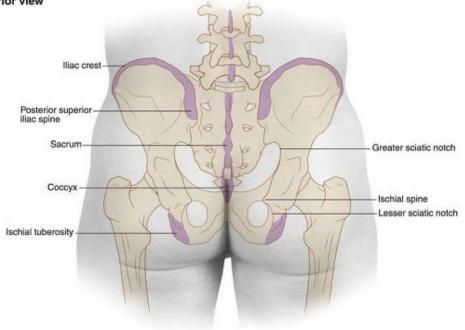
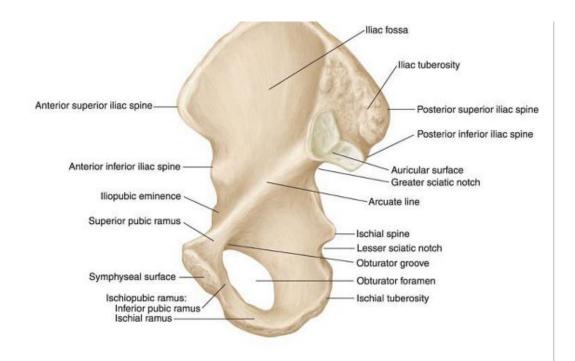


Plate 6-02 Palpable Features of the Male Pelvis and Perineum



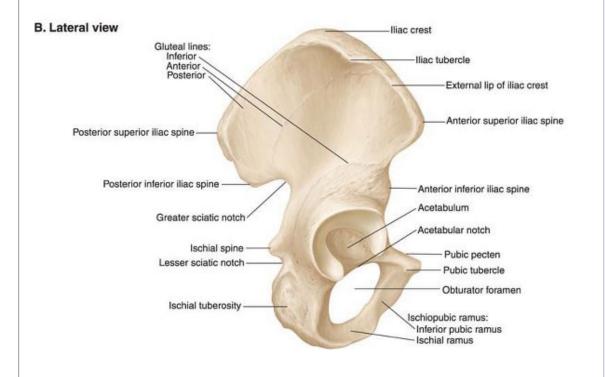
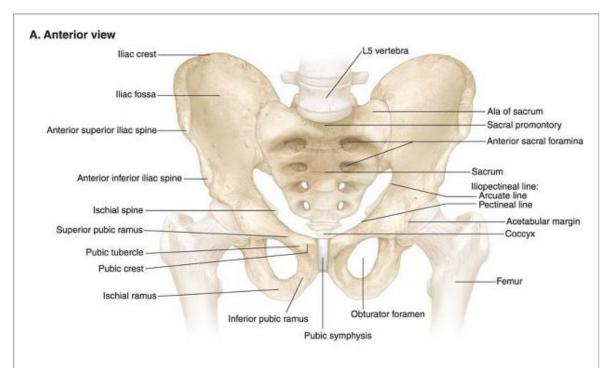


Plate 6-03 Skeleton of the Hip (Os Coxae)



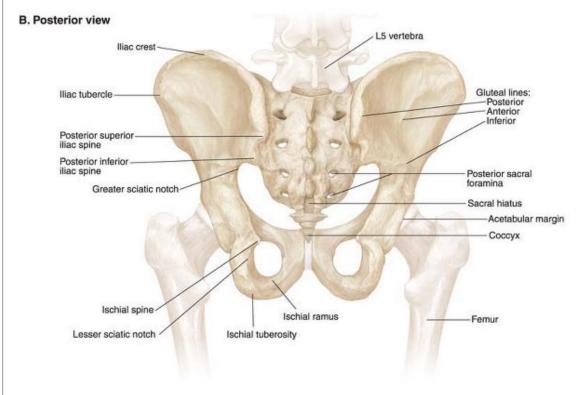
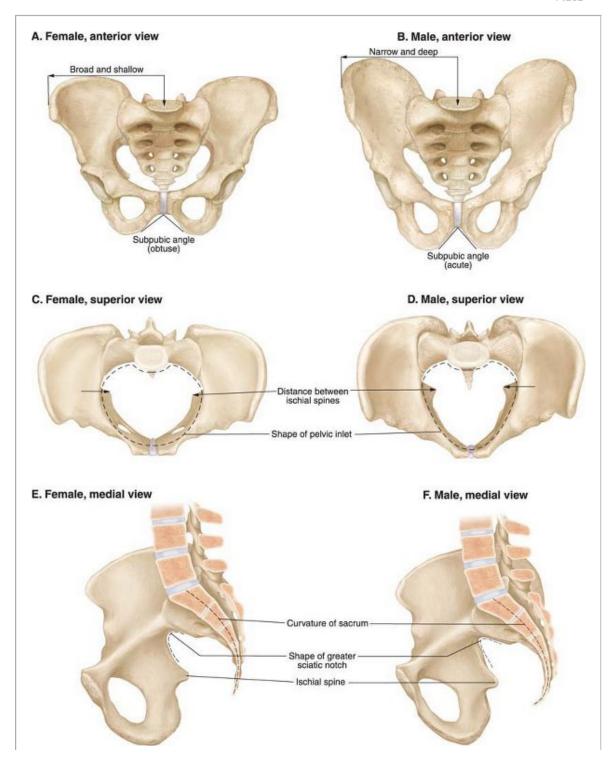


Plate 4 04 Articulated Delvic Male



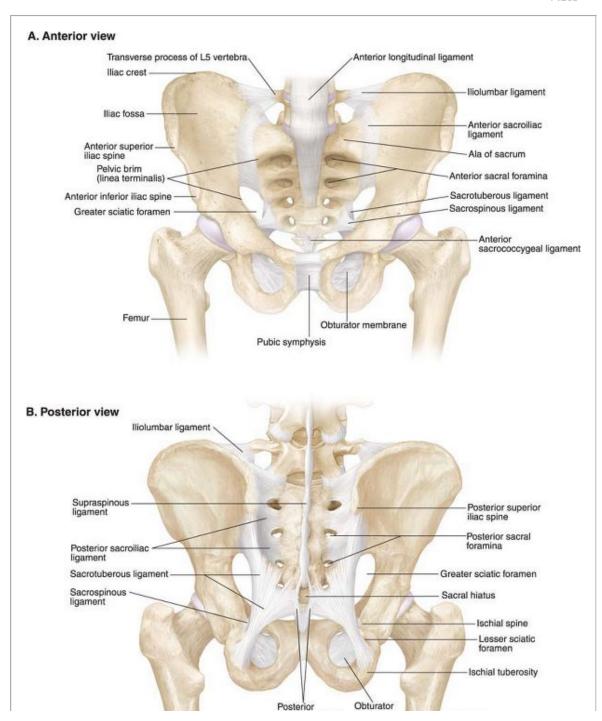
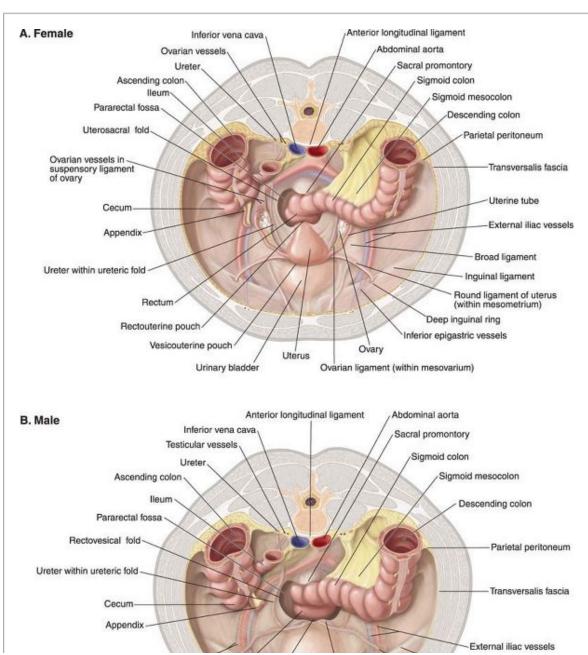
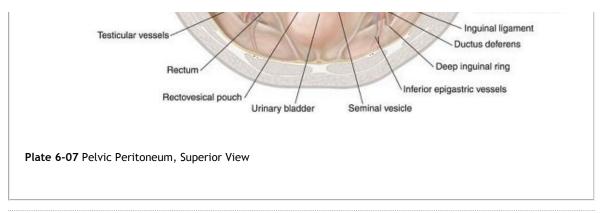
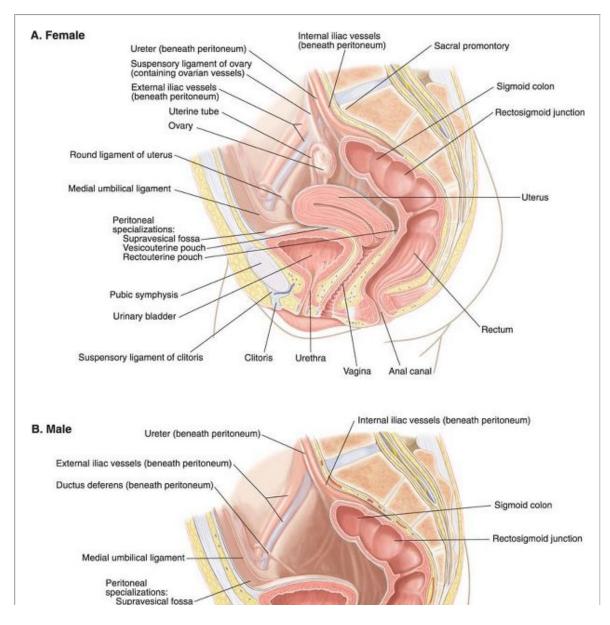


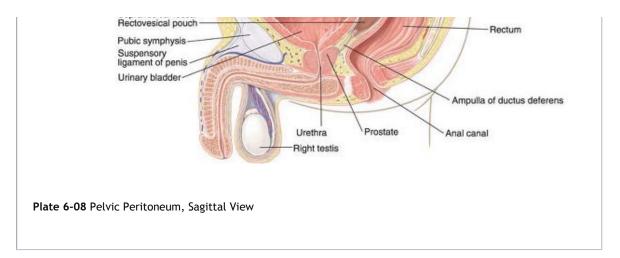


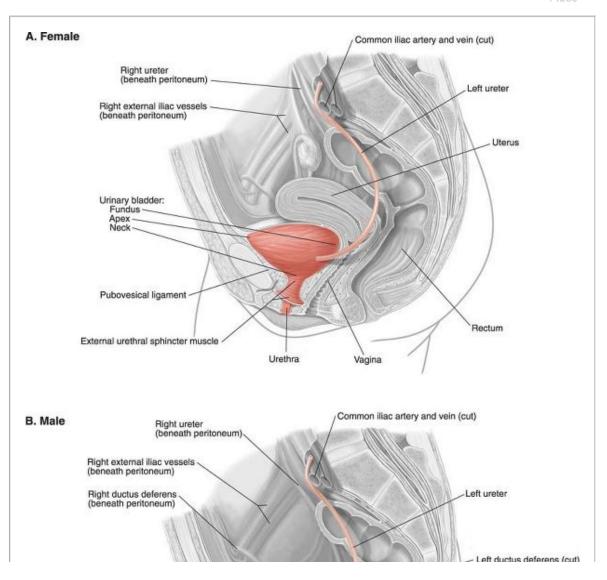
Plate 6-06 Ligaments of the Pelvis

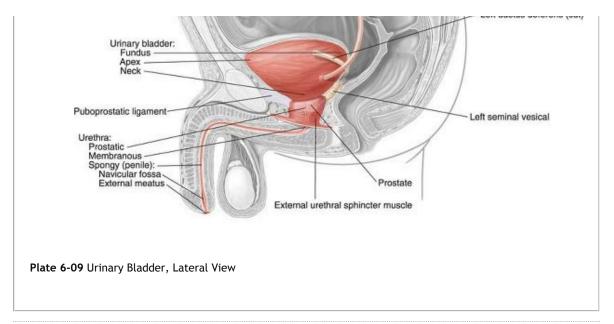


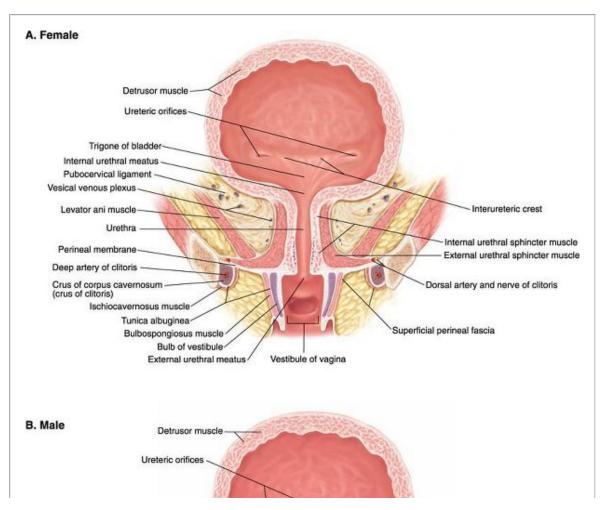


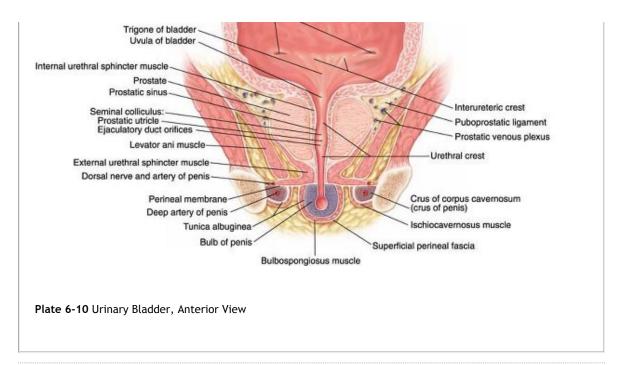


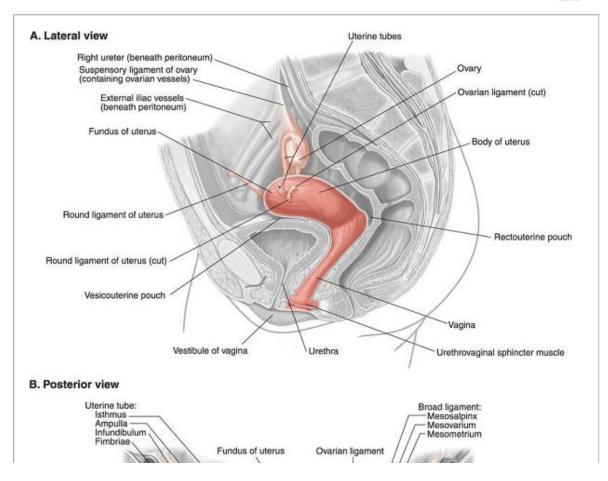


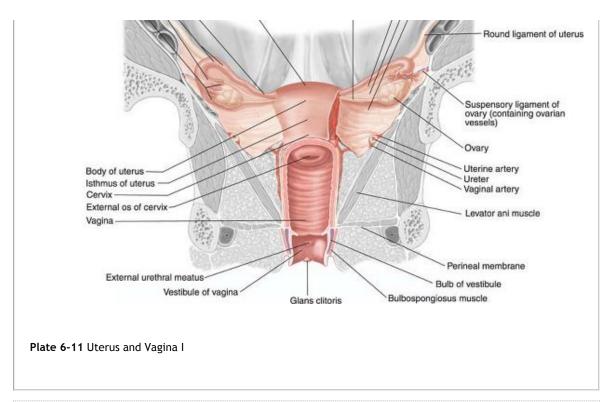




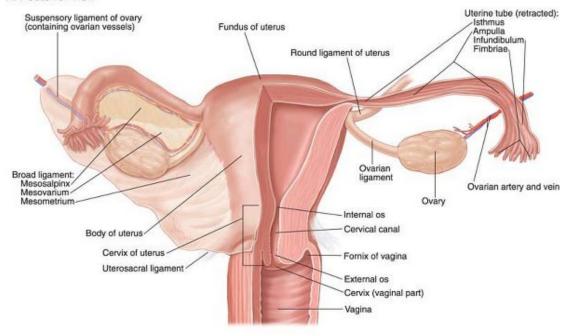








A. Posterior view



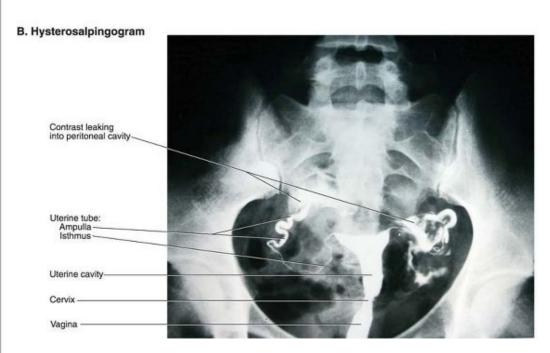
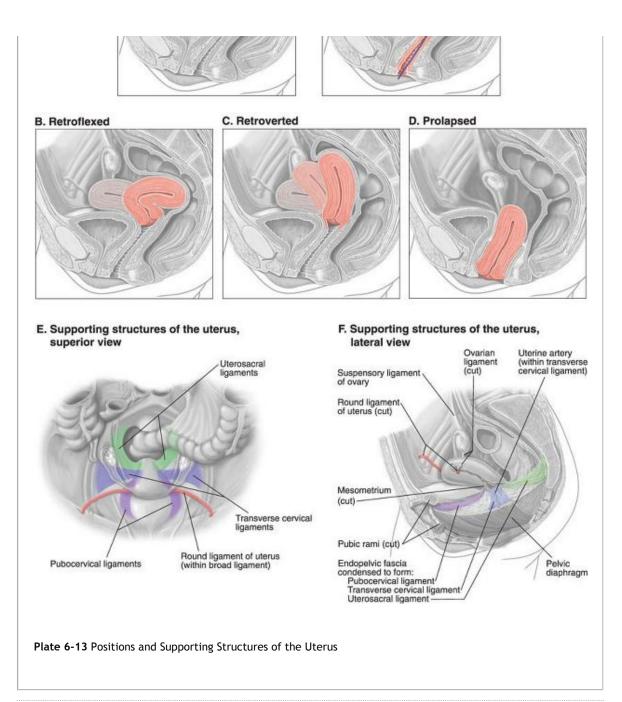


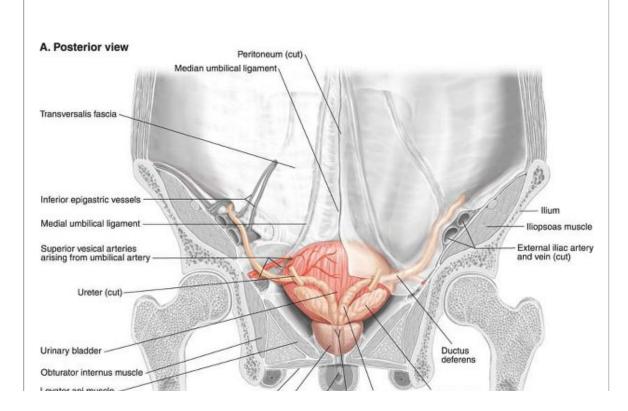
Plate 6-12 Uterus and Vagina II

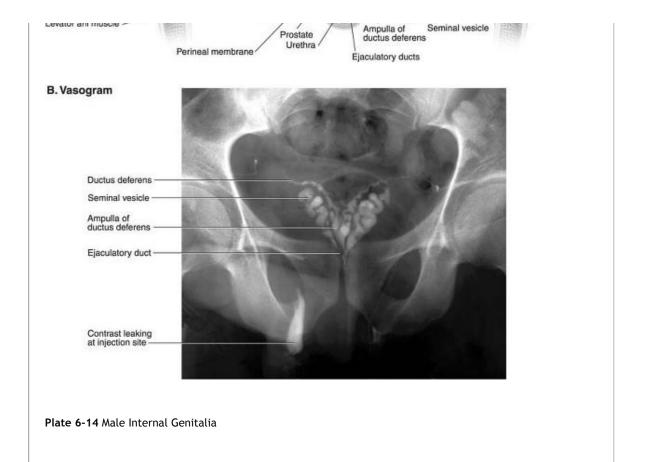
A. Normal positions

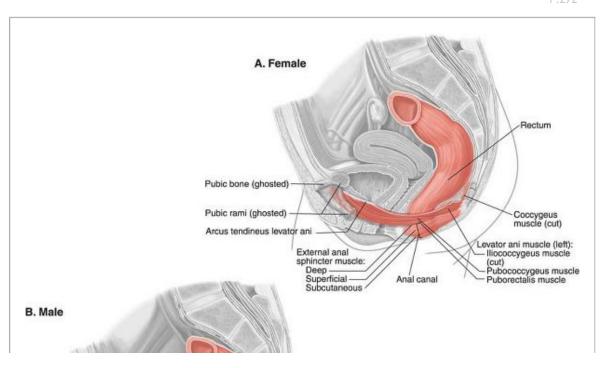


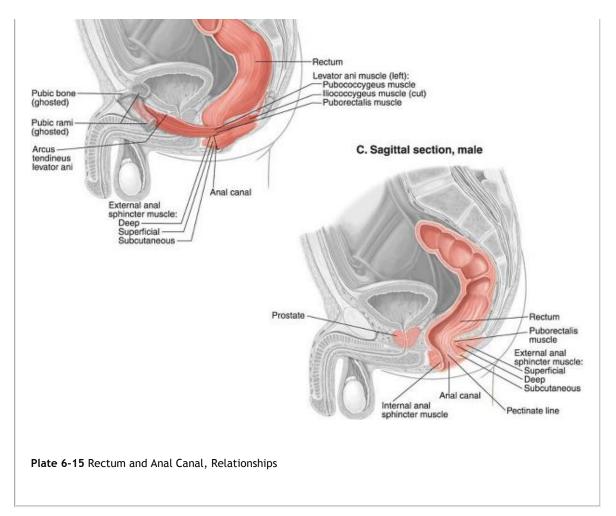


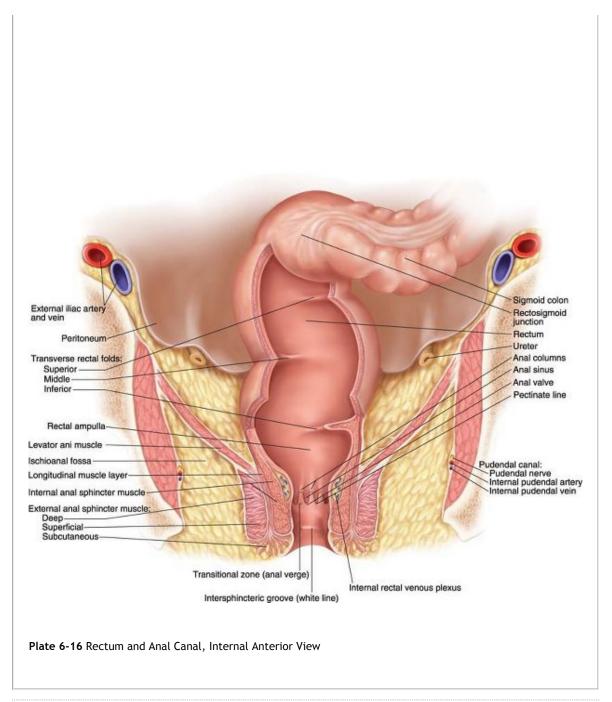












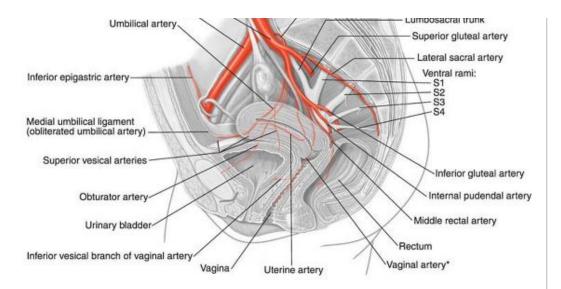
A. Female

Abdominal aorta

Right common iliac artery

Internal iliac artery

External iliac artery



*Vaginal artery arises from uterine artery in 11% of cases

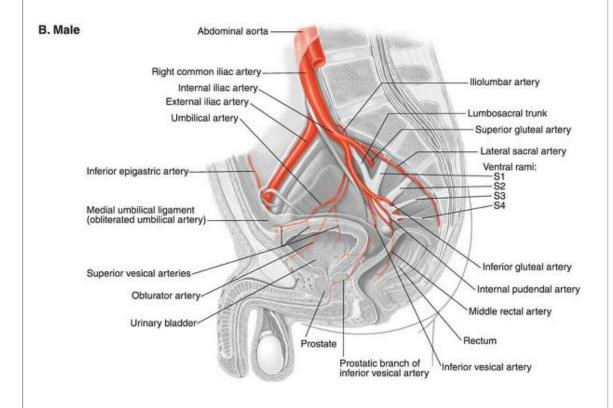
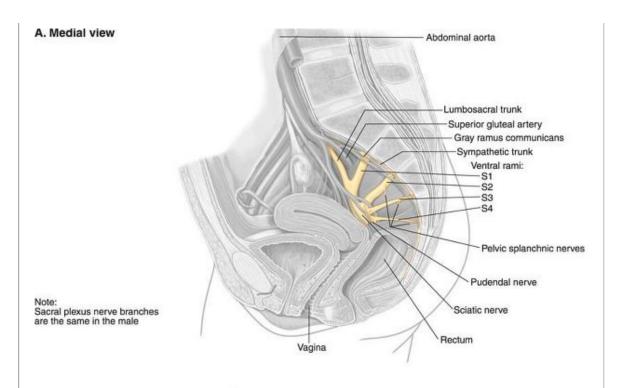
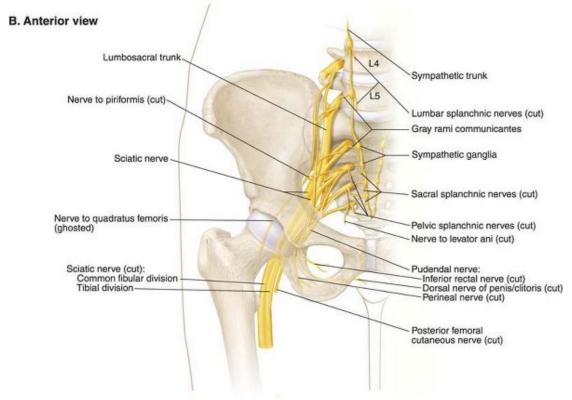
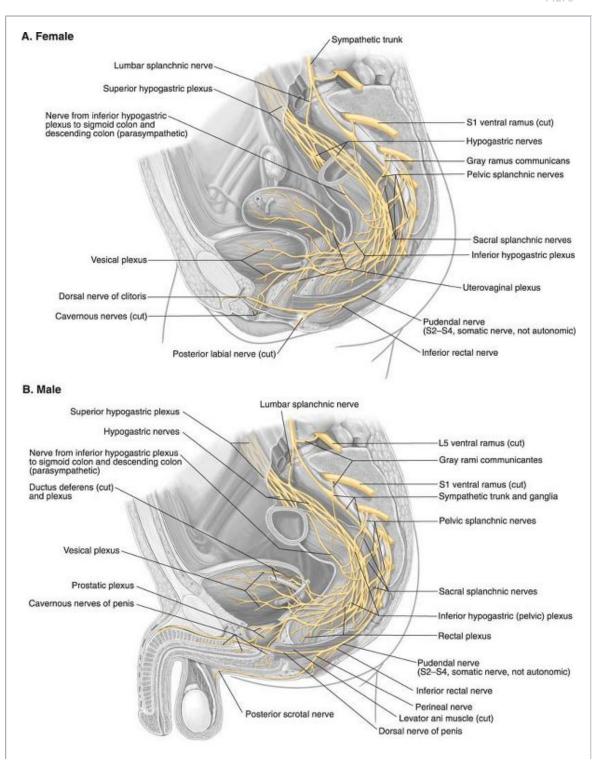
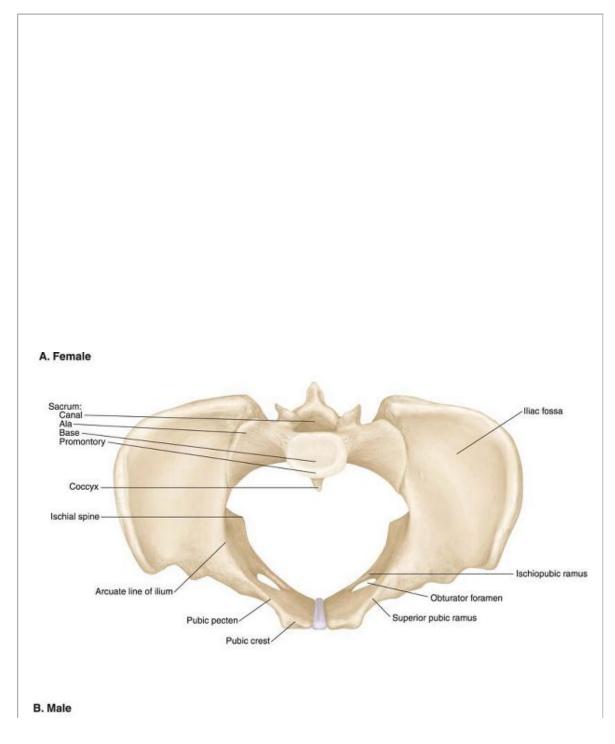


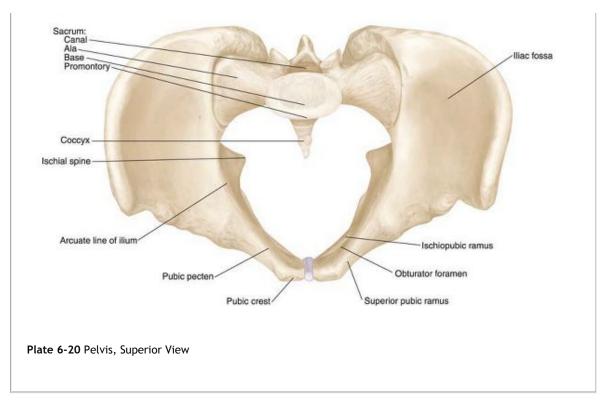
Plate 6-17 Blood Supply of the Pelvis



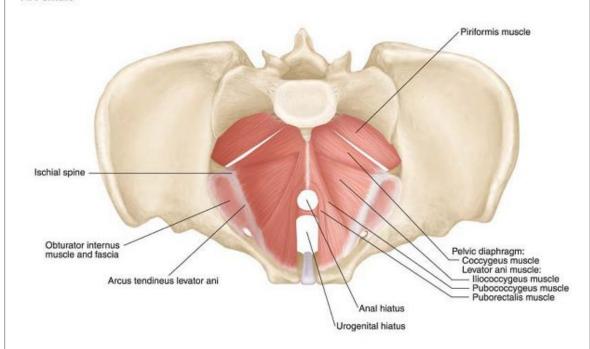


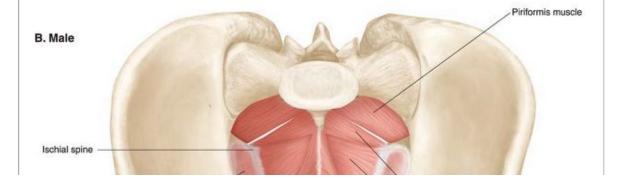


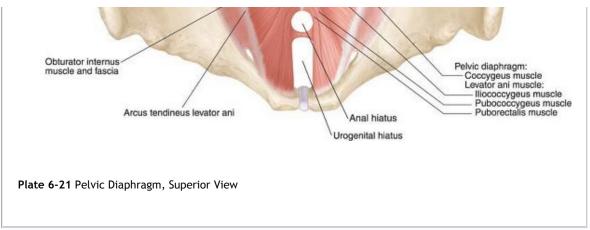


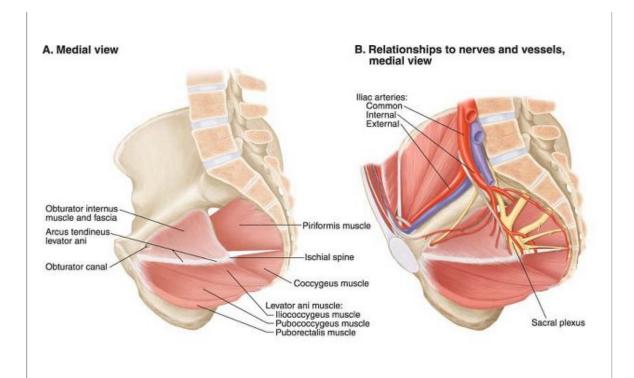


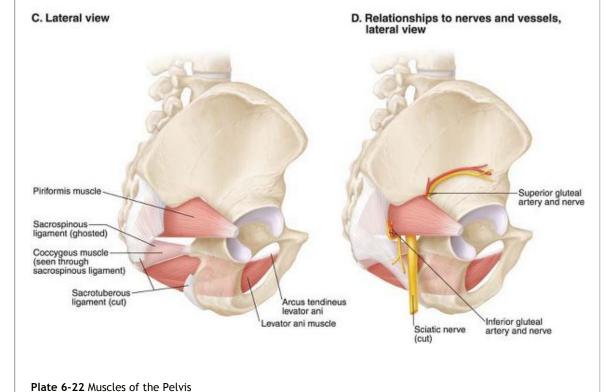
A. Female











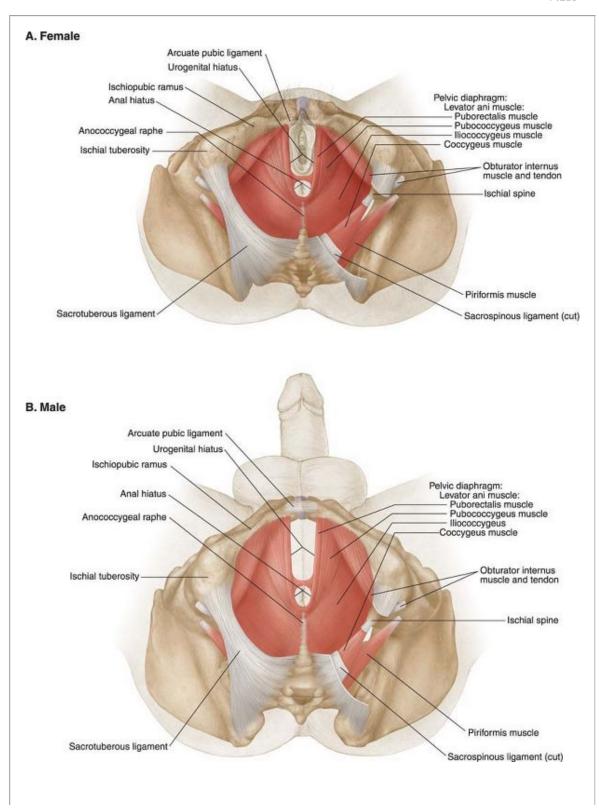
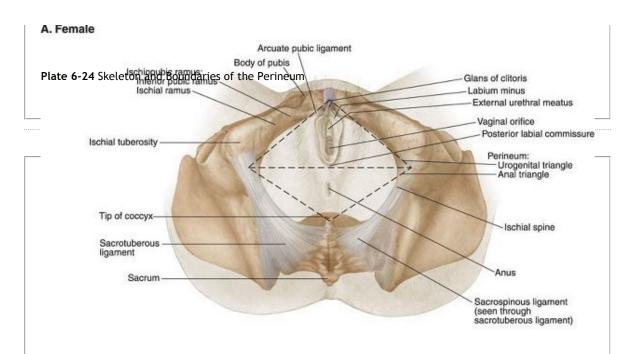
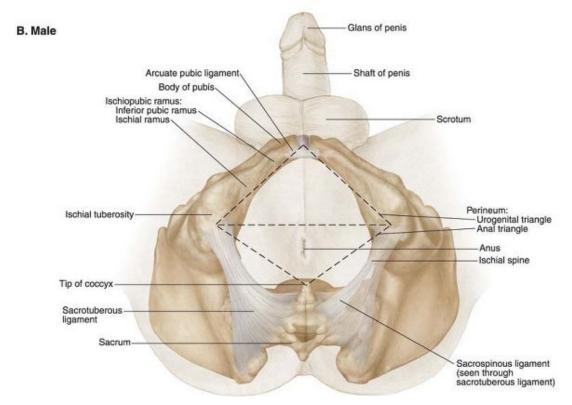
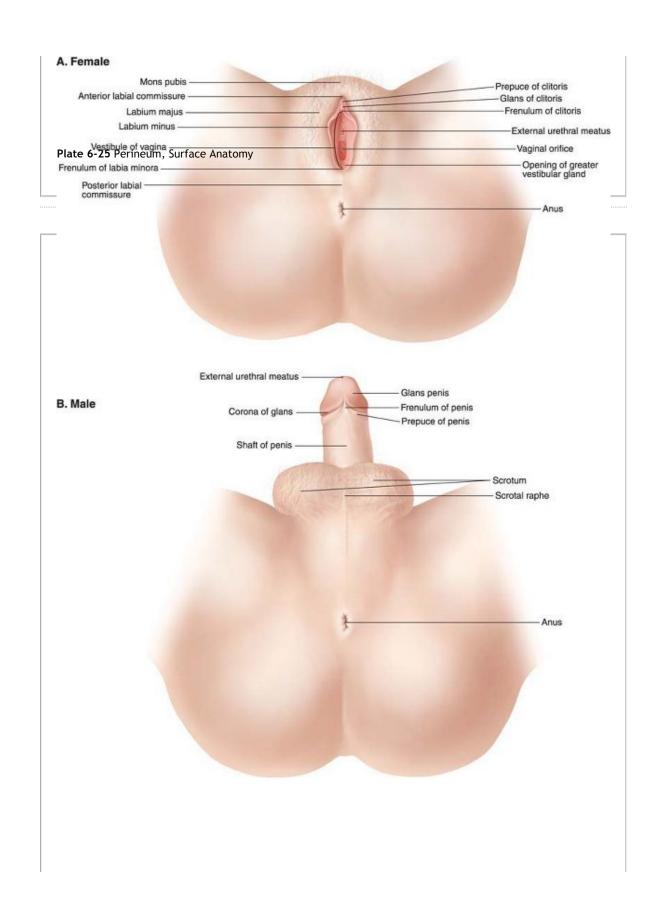
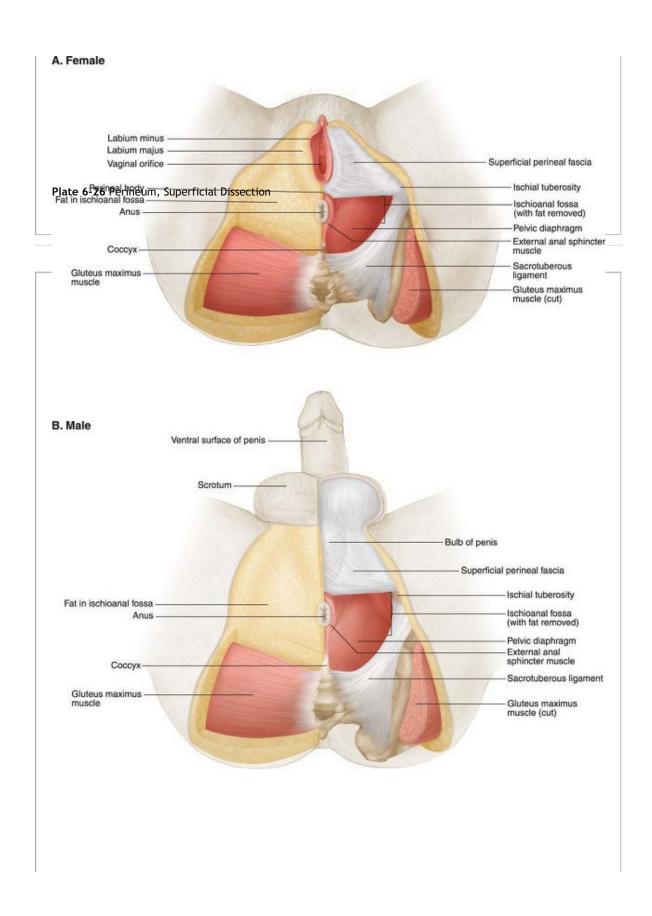


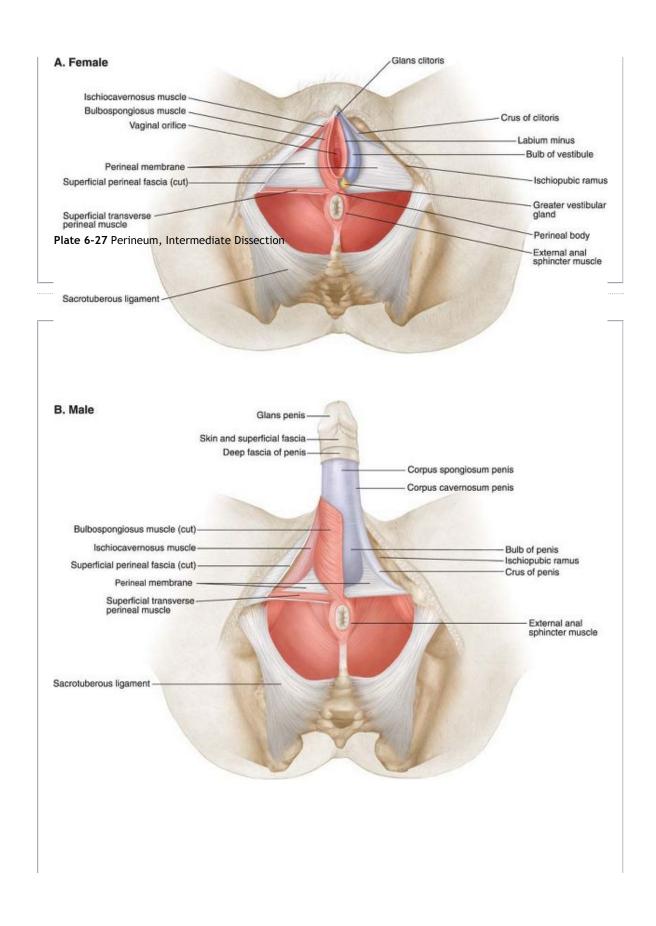
Plate 6-23 Pelvic Diaphragm, Inferior View	

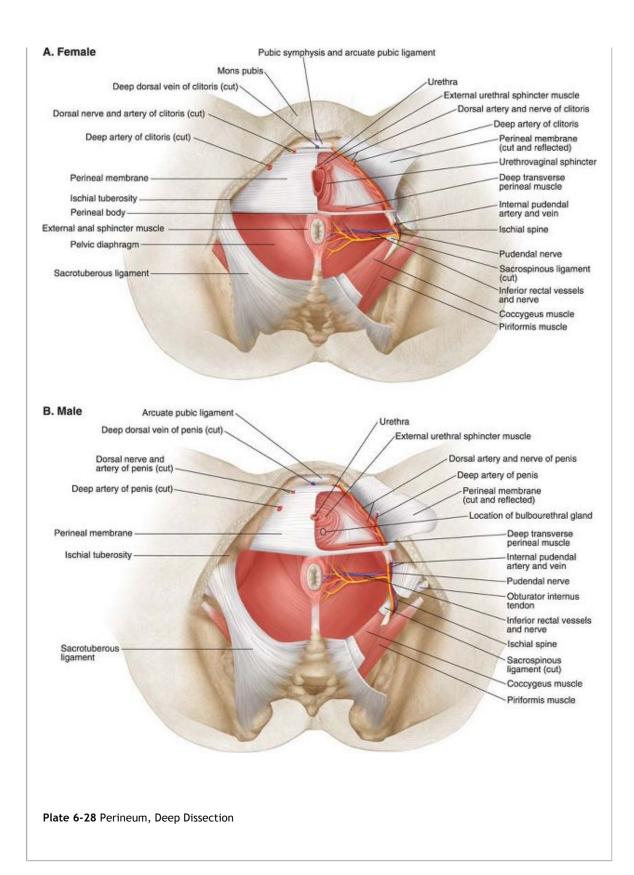












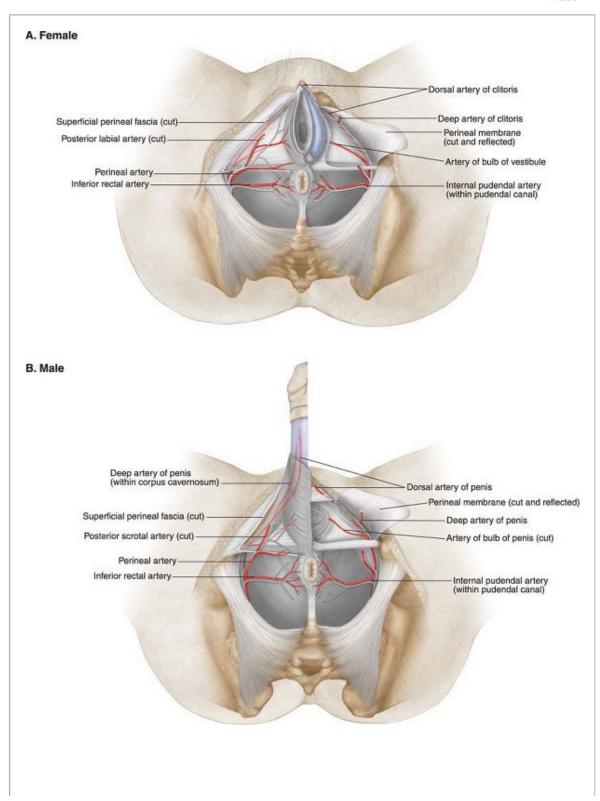
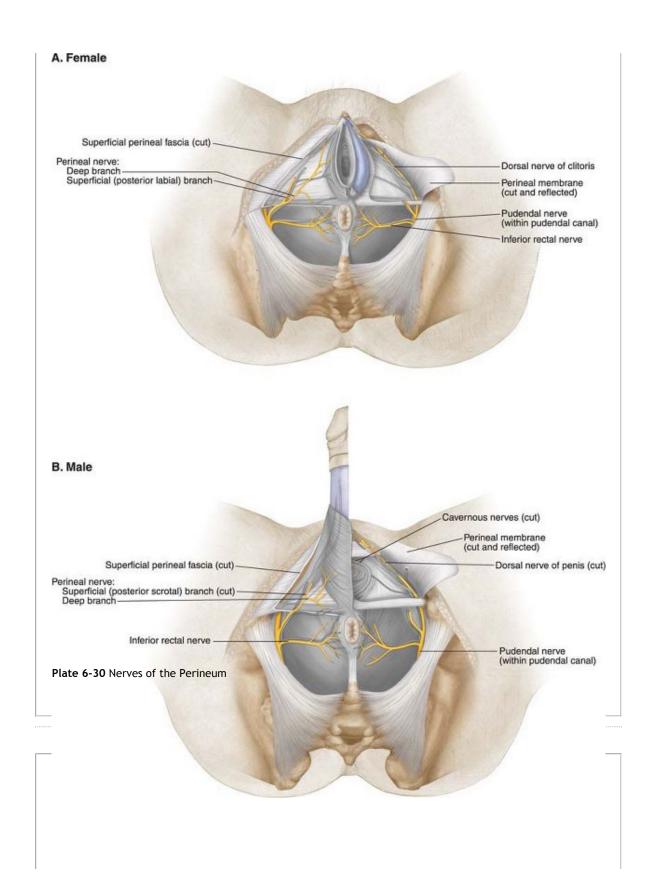


Plate 6-29 Arteries of the Perineum		
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A. Anterior view Suspensory ligament of penis Cremaster artery and vein (cut) Deep dorsal vein of penis Dorsal artery of penis Testicular artery Dorsal nerve of penis Pampiniform plexus Coverings of spermatic cord: Internal spermatic fascia Cremasteric muscle and fascia Ductus deferens Deferential artery External spermatic fascia Anterior scrotal nerve (cut) Head of epididymis Deep fascia (cut) Superficial dorsal vein of penis (cut) Superficial fascia (cut) Tunica vaginalis testis: -Visceral layer (covering testis) -Parietal layer (cut and reflected) Skin of prepuce (cut)-Layers of scrotum: —Internal spermatic fascia Cremasteric muscle and fascia External spermatic fascia Glans penis -Dartos fascia Skin

B. Lateral view

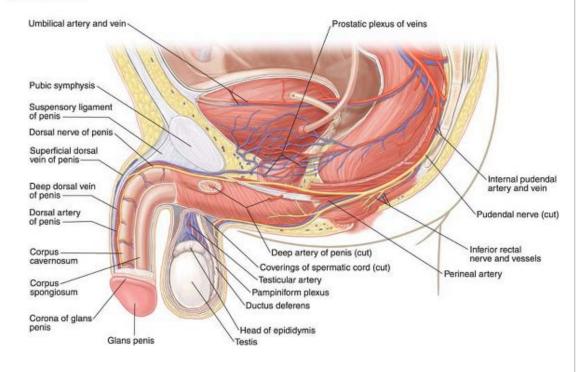


Plate 6-31 Penis and Testes P.289
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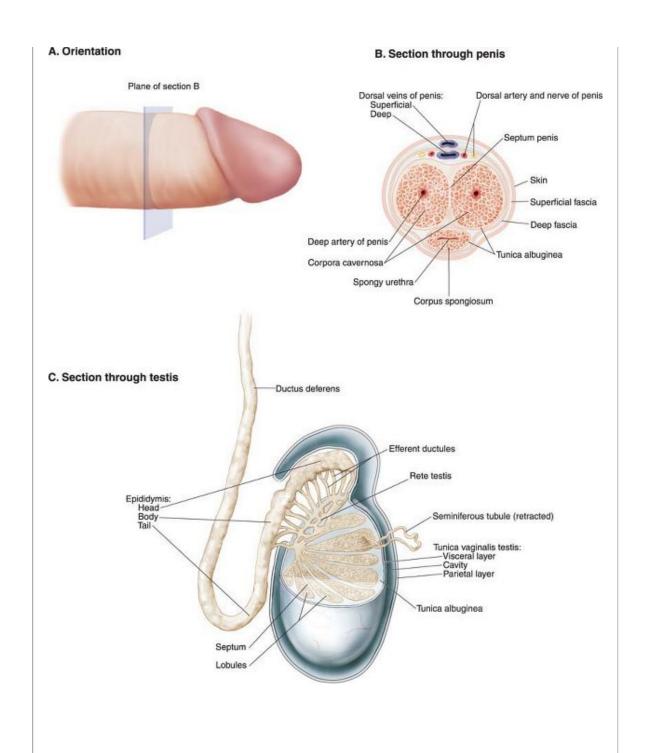
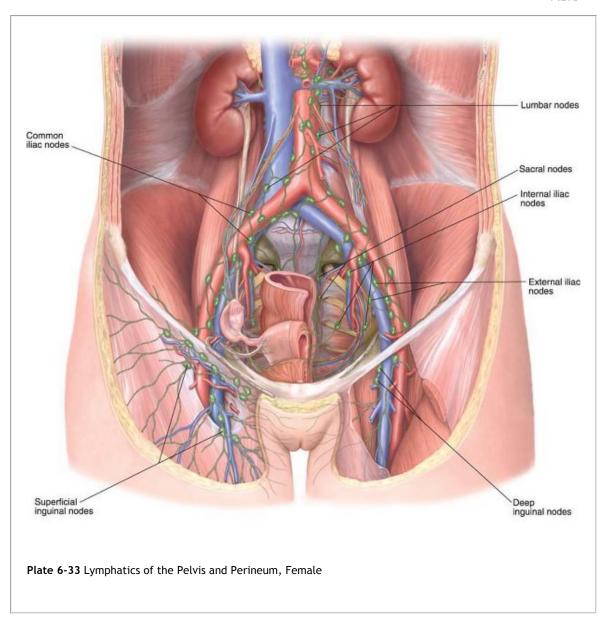
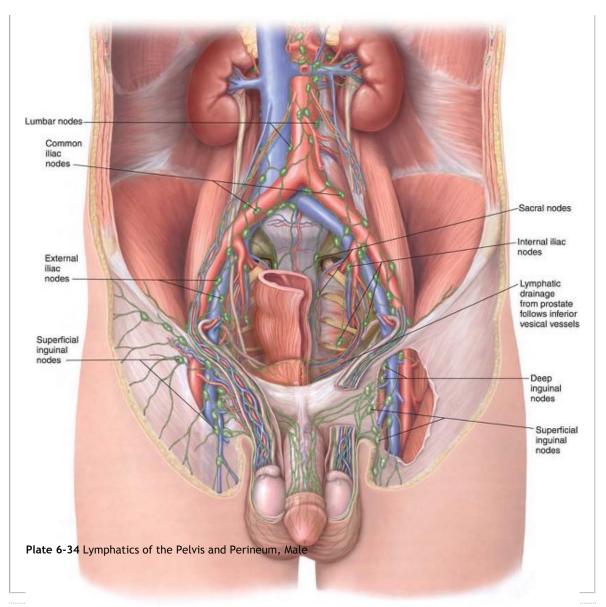


Plate 6-32 Sectional View of Penis and Testis





A. Orientation **B.** Cross section Urinary bladder Femoral vein and artery Vagina Lymph nodes Neck of femur Puborectalis muscle Greater trochanter Pubococcygeus muscle Plate 6-35 Cross Section of the Female Pelvis Sciatic nerve Acetabulum Fat in ischioanal fossa Obturator internus muscle Coccyx Rectum

B. Cross section B. Cross section Prostate Prostatic urethra Femoral vein Femoral artery Neck of femur Greater trochanter

Authors: Tank, Patrick W.; Gest, Thomas R.

Title: Lippincott Williams & Wilkins Atlas of Anatomy, 1st Edition

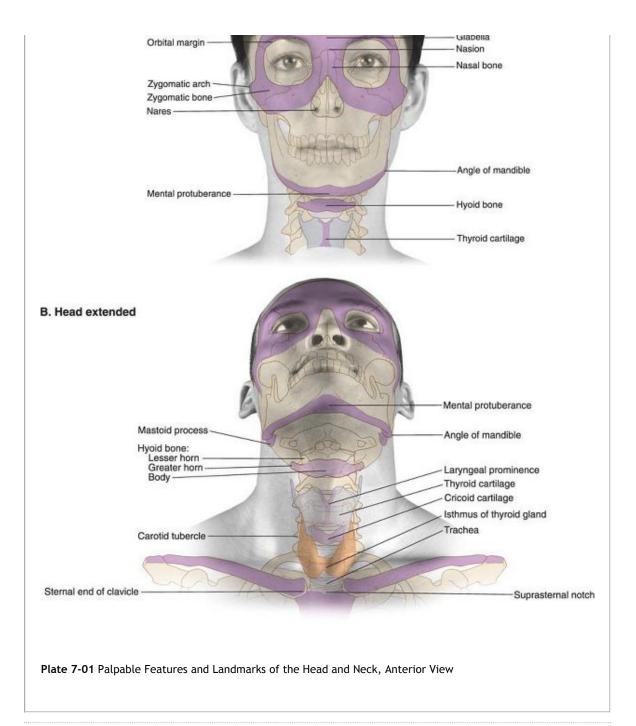
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Chapter 7

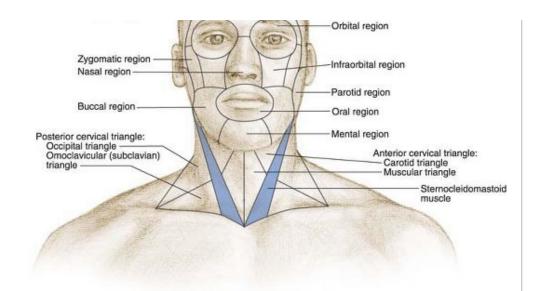
The Head and Neck





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B. Lateral view

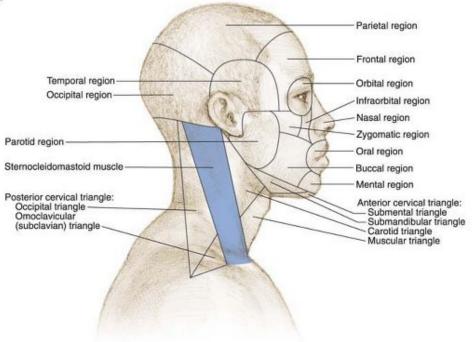
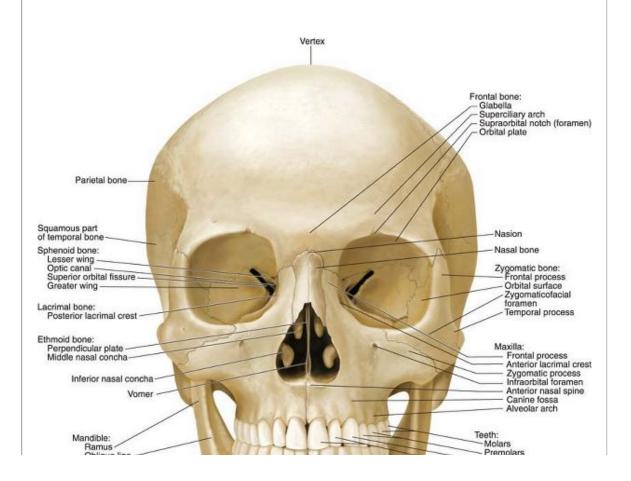
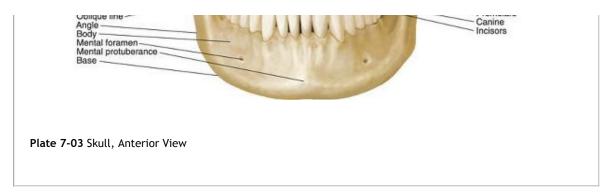
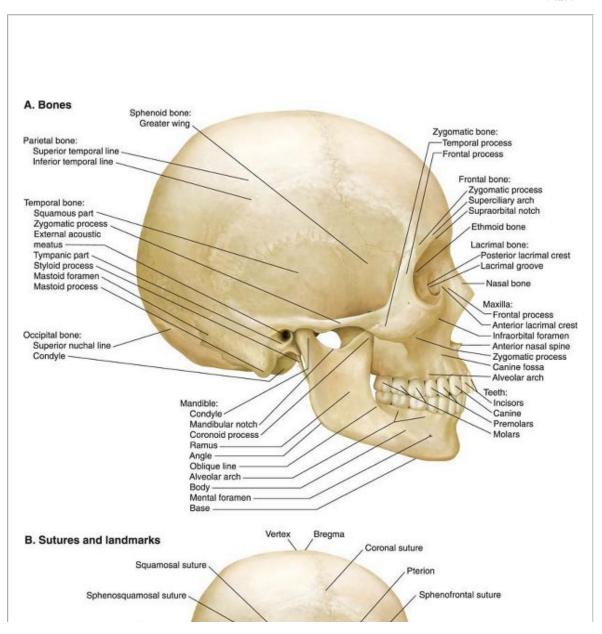
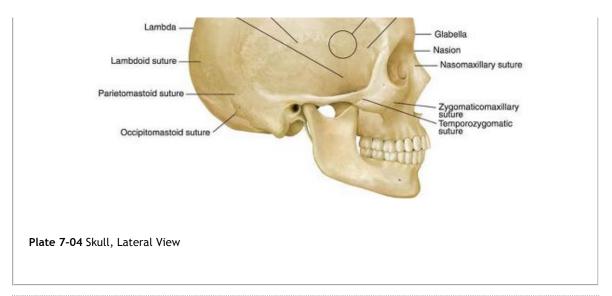


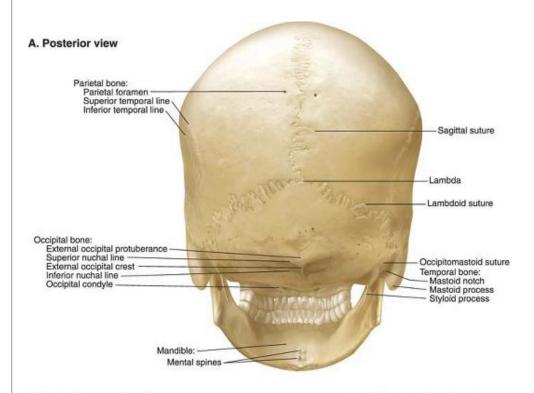
Plate 7-02 Regions of the Head and Triangles of the Neck











B. Calvaria, superior view

C. Calvaria, internal surface

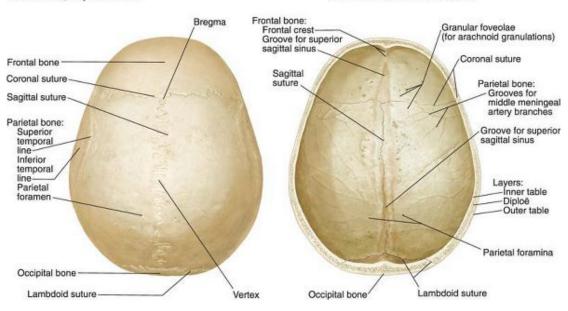
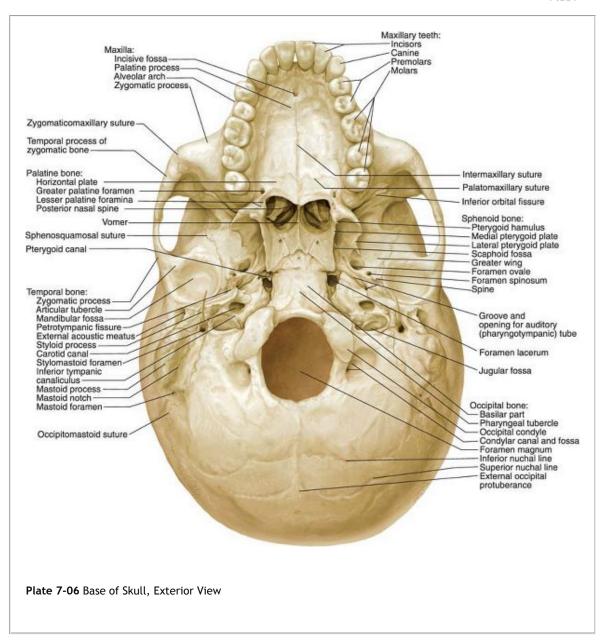
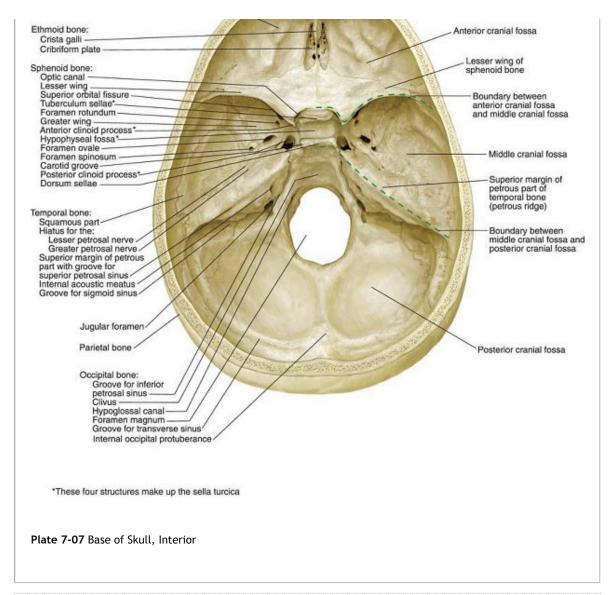
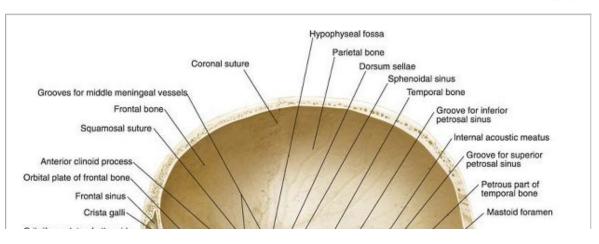


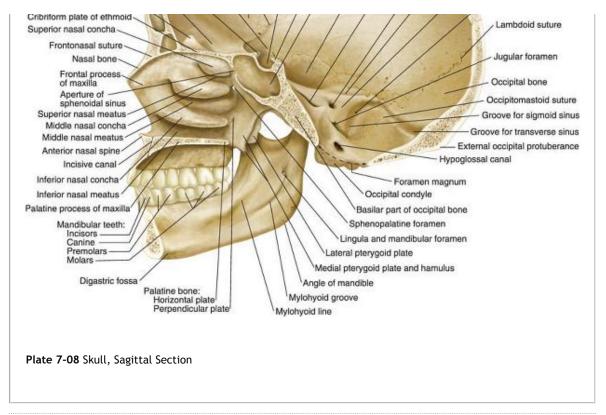
Plate 7-05 Skull and Calvaria

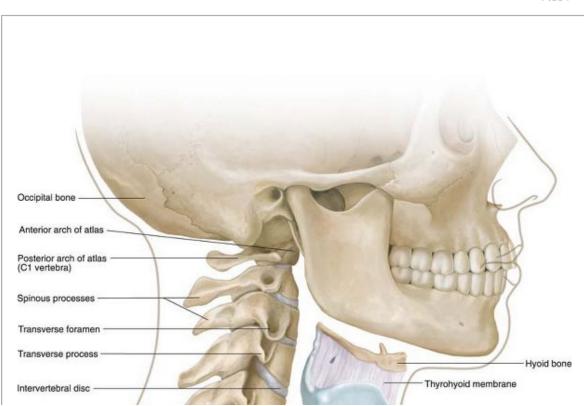


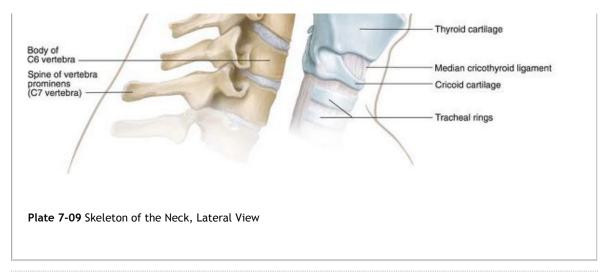




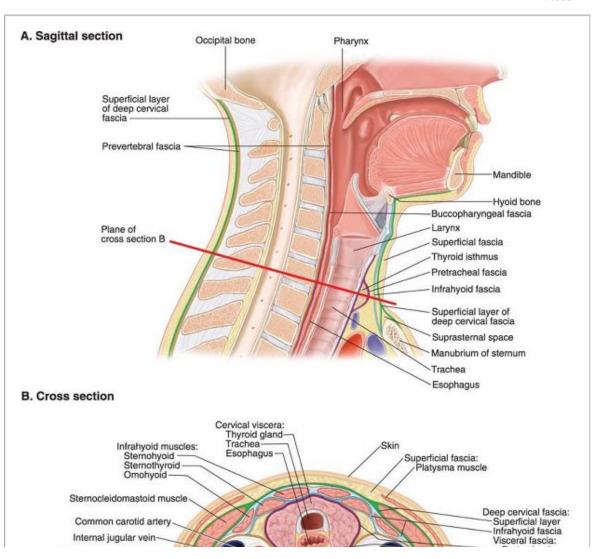


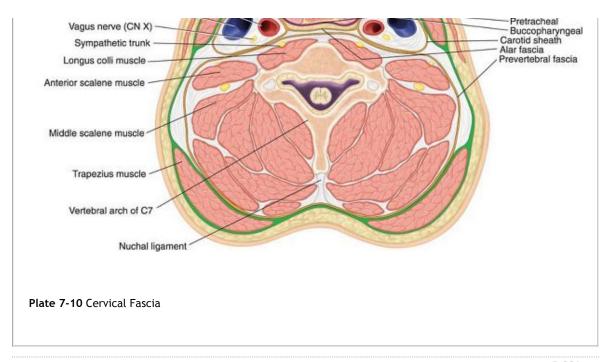




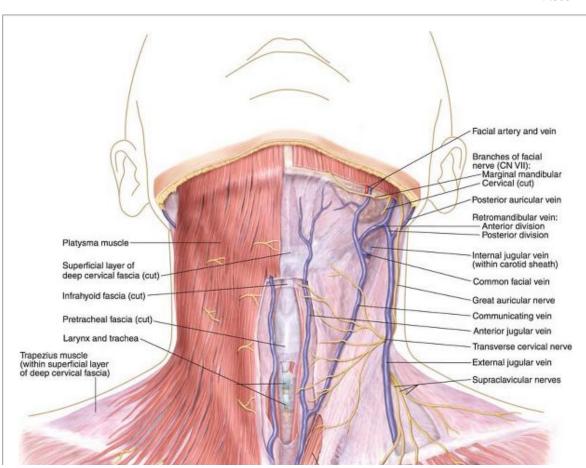


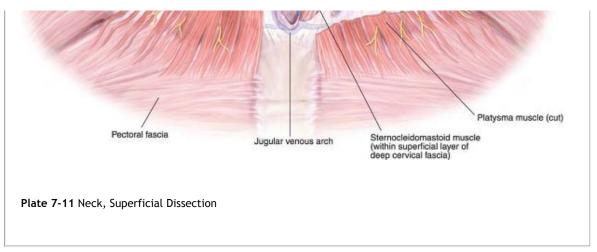
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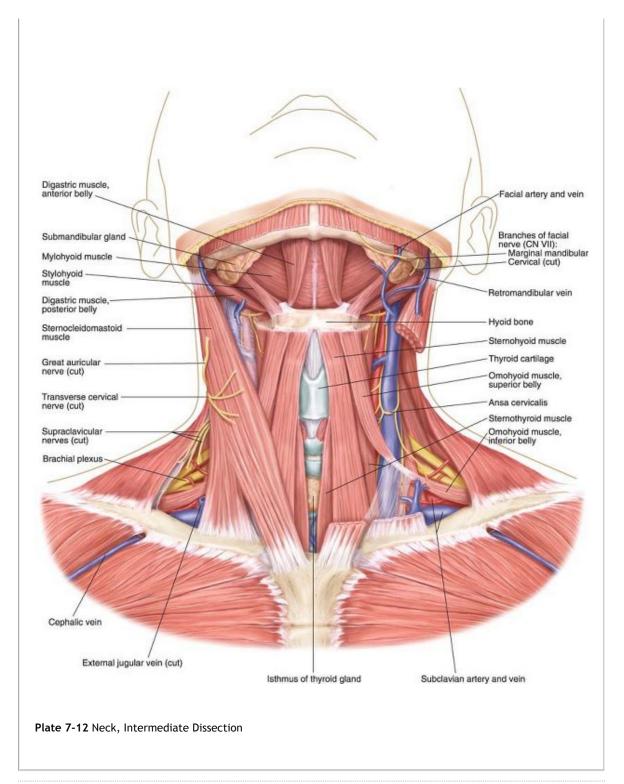


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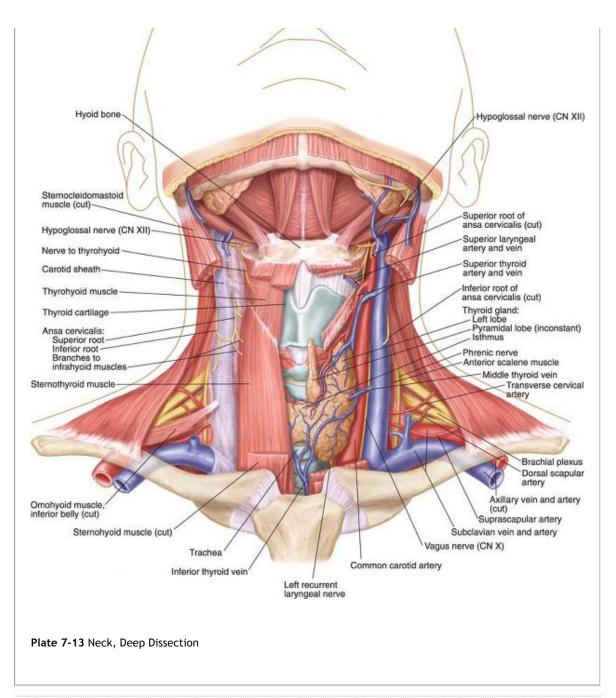


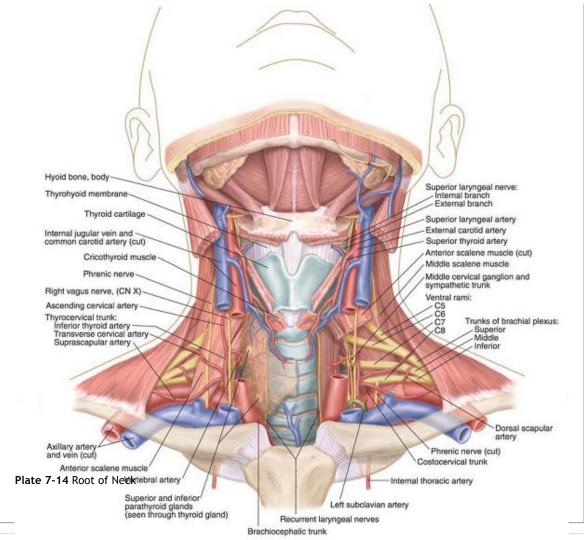


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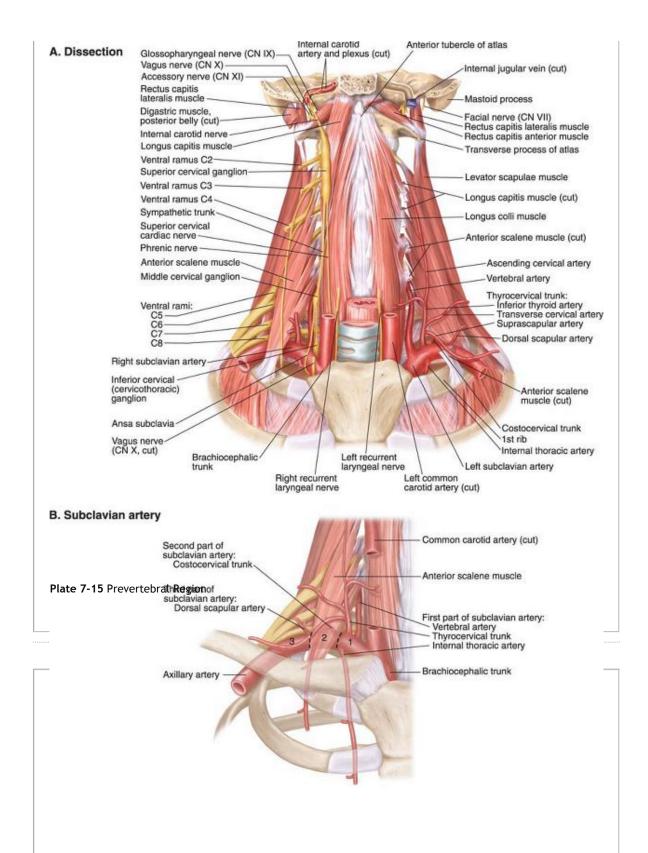


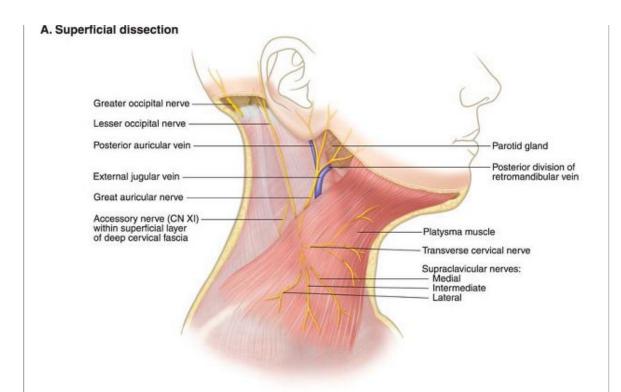
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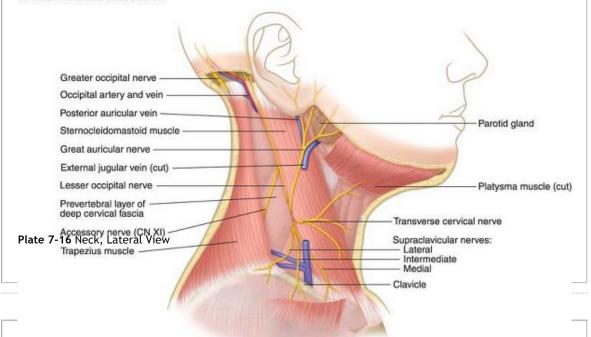


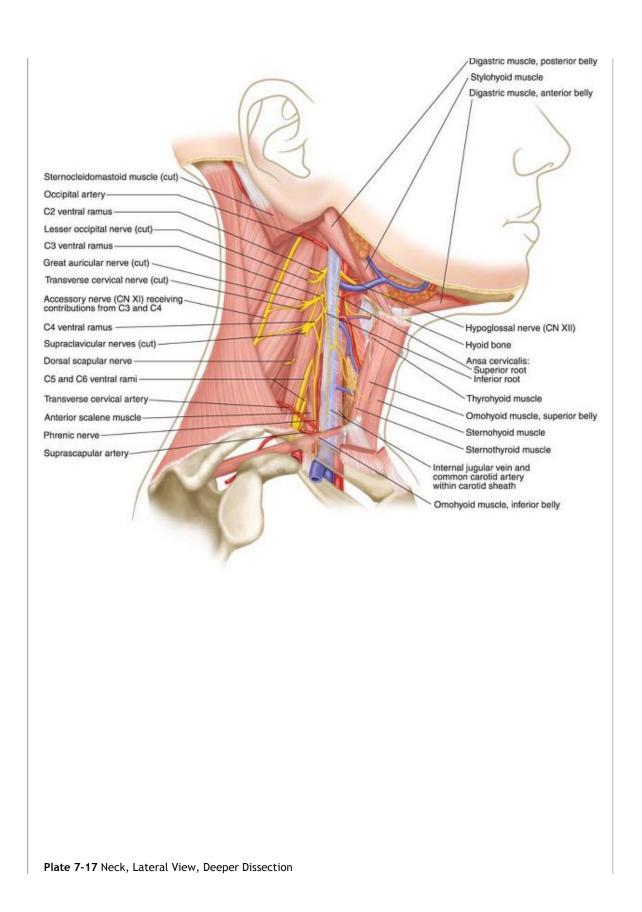
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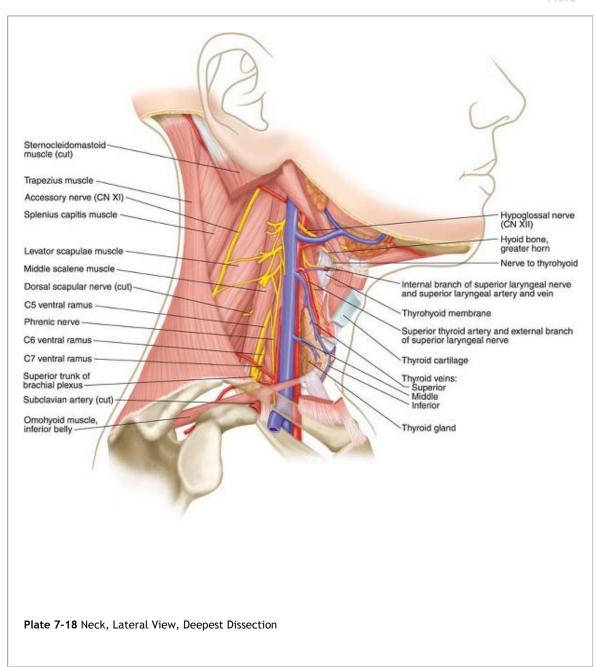


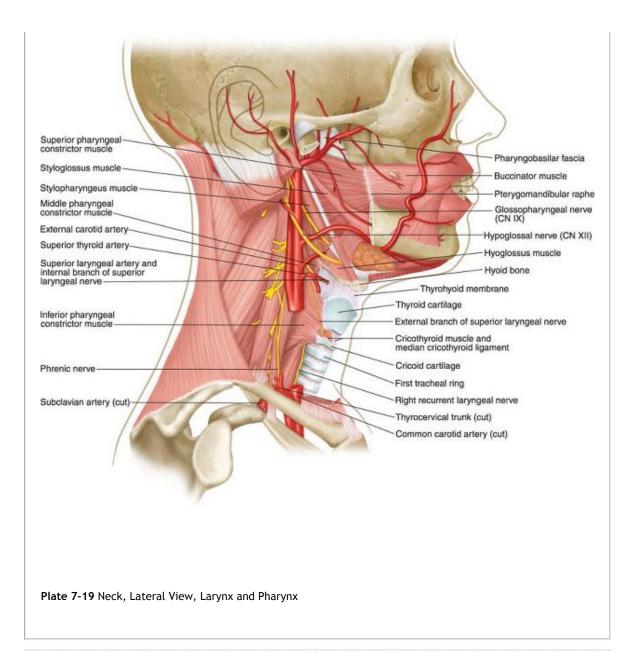


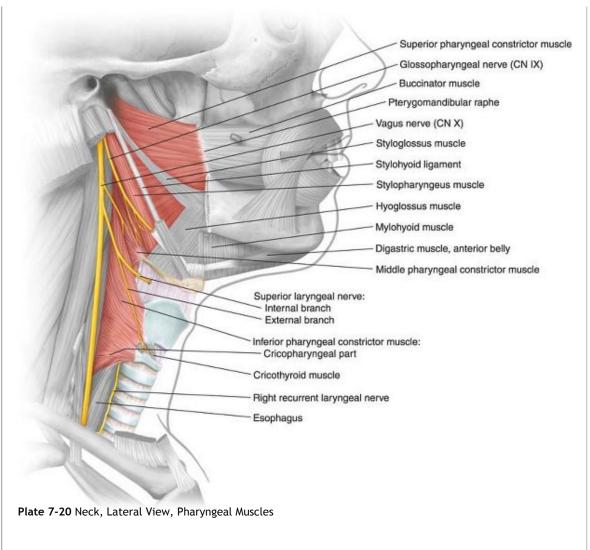
B. Intermediate dissection

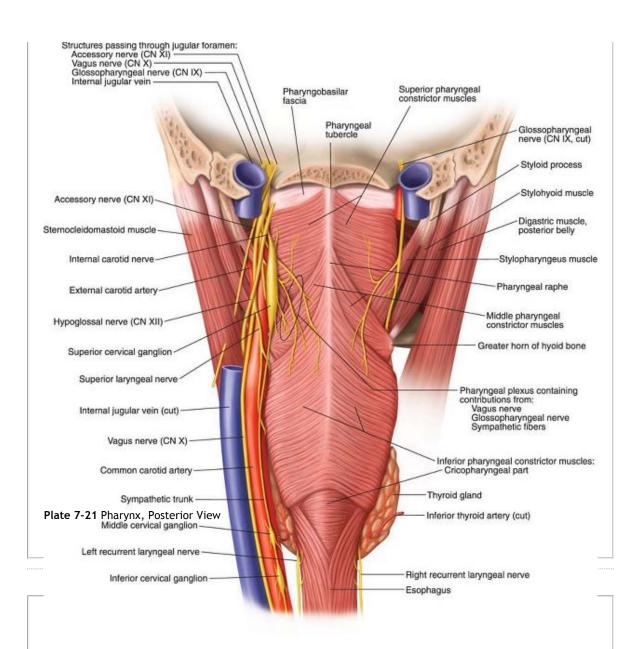


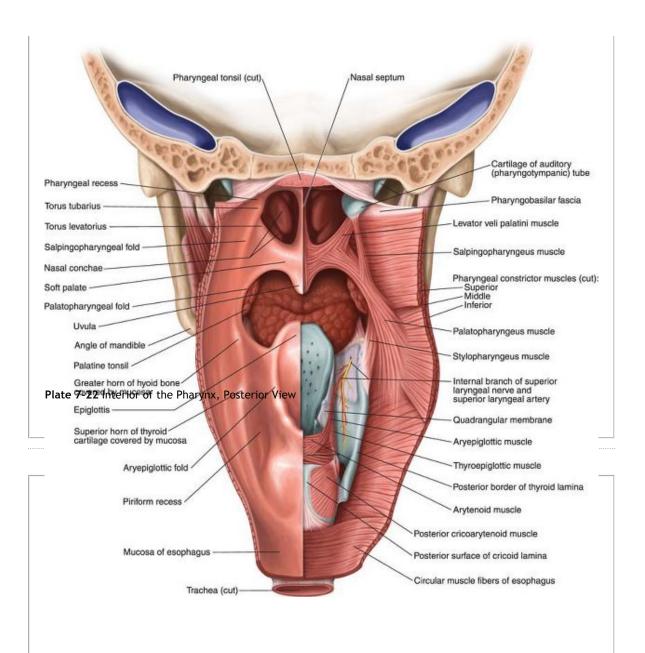


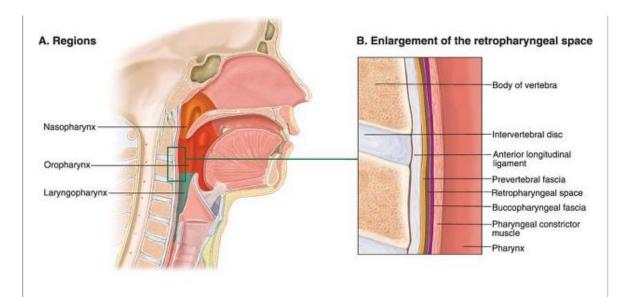


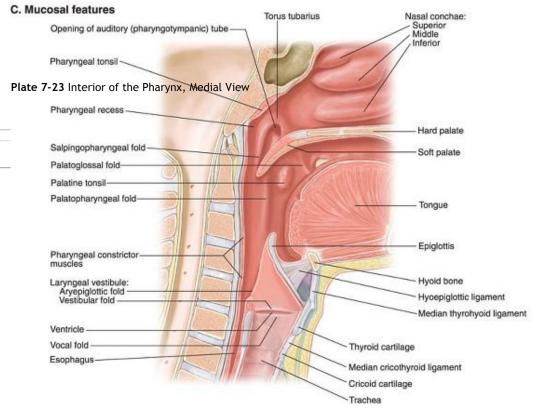


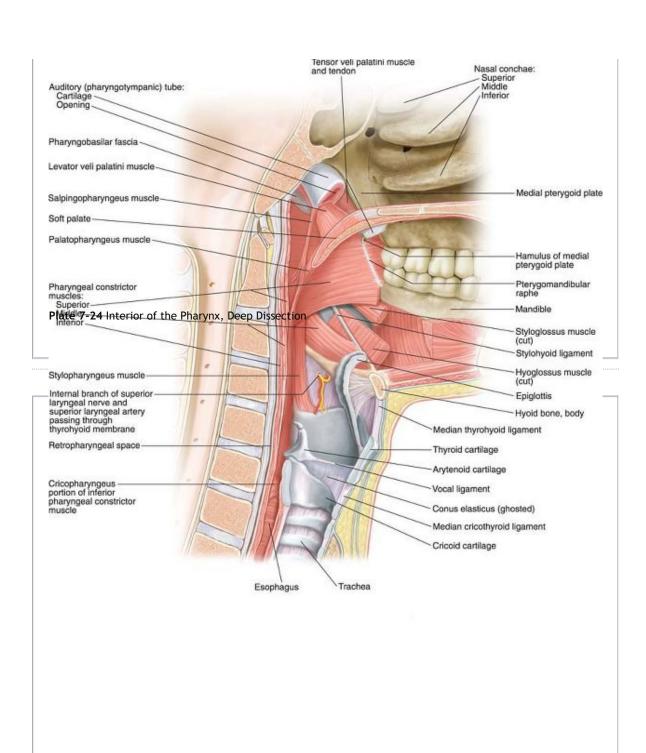


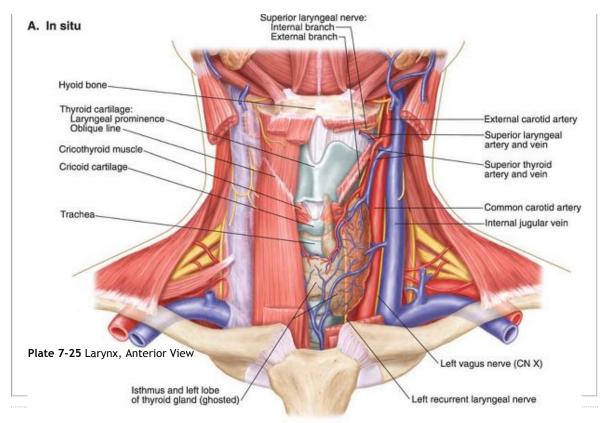


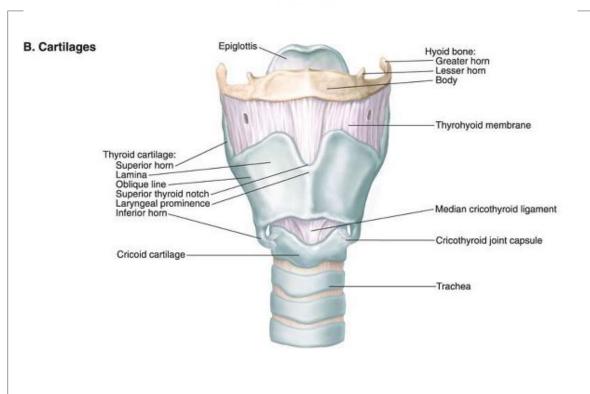


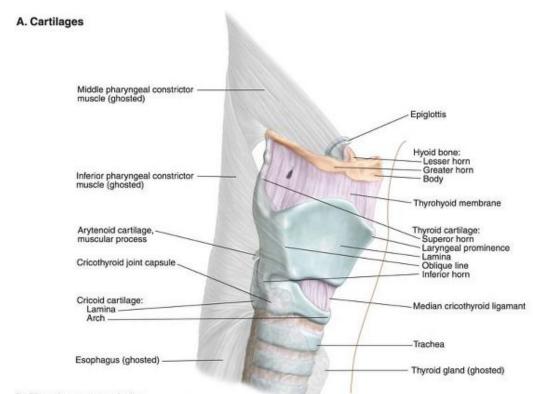












B. Muscles, external view

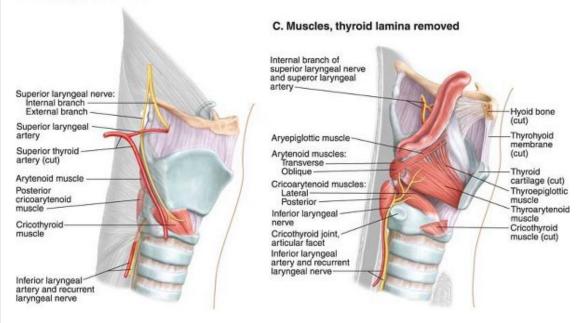


Plate 7-26 Larynx, Lateral View

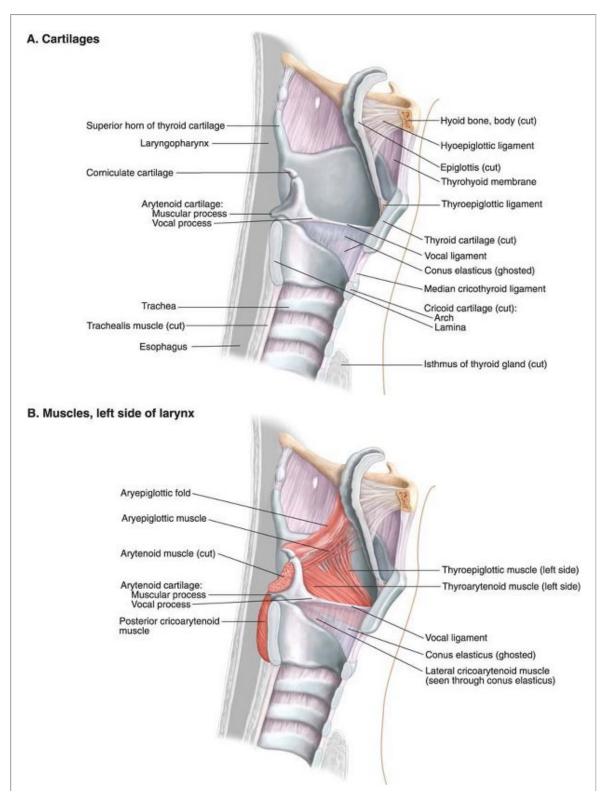


Plate 7-27 Larynx, Sagittal Section	
	P.323

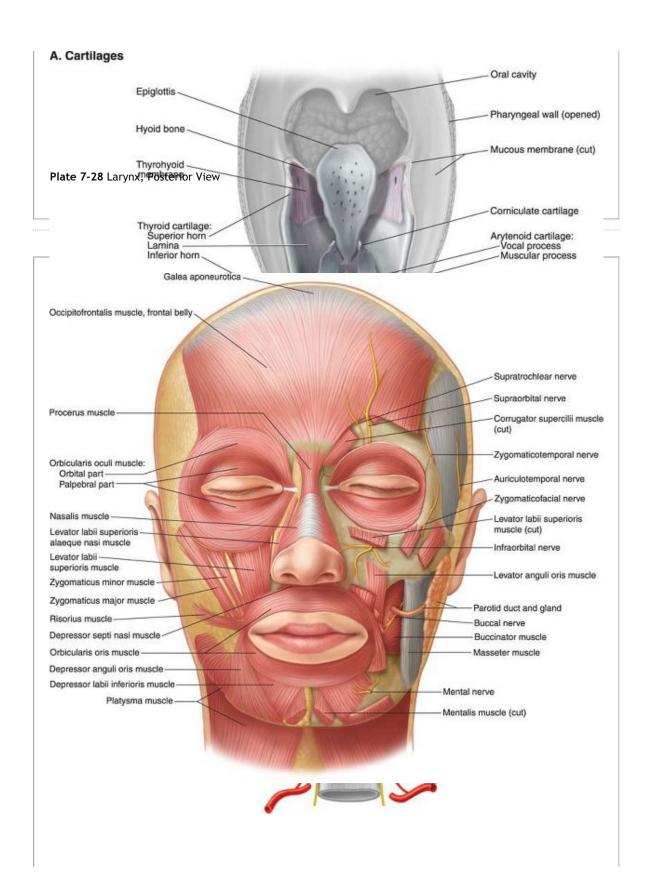
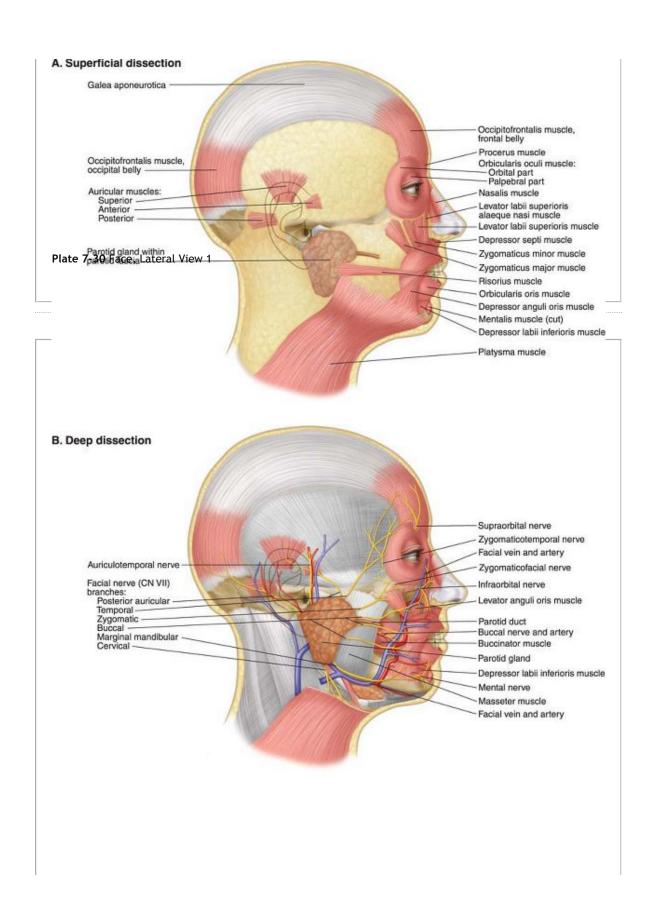
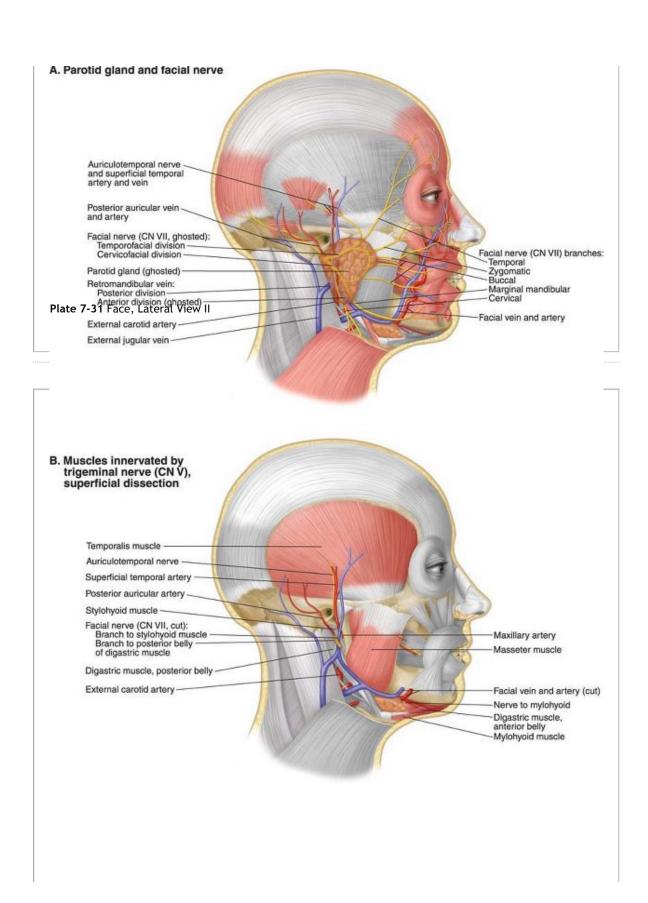
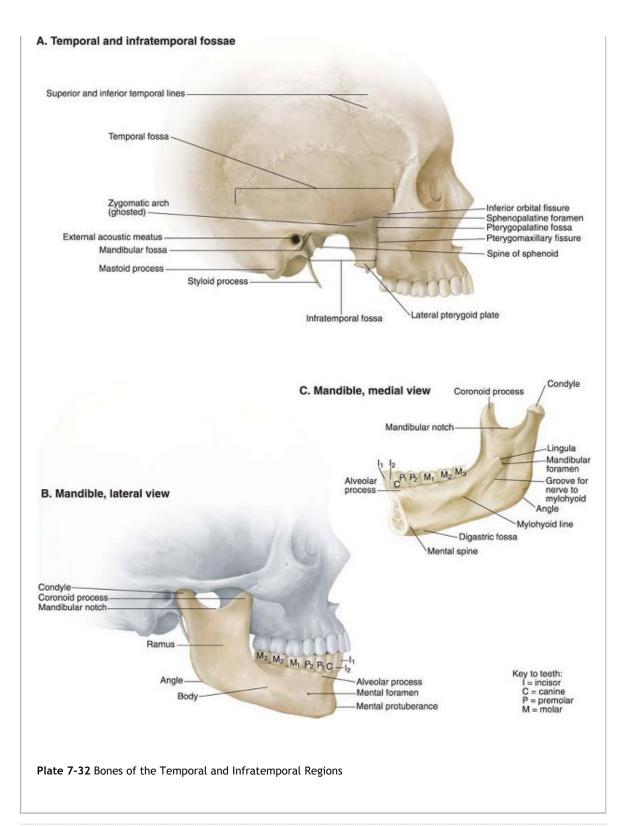
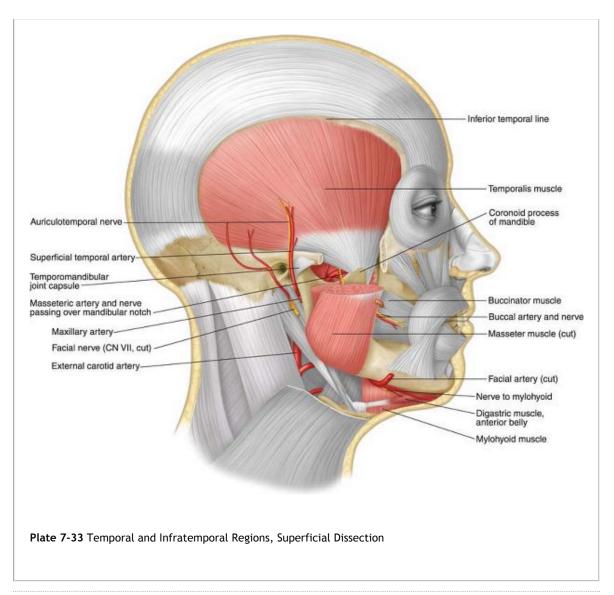


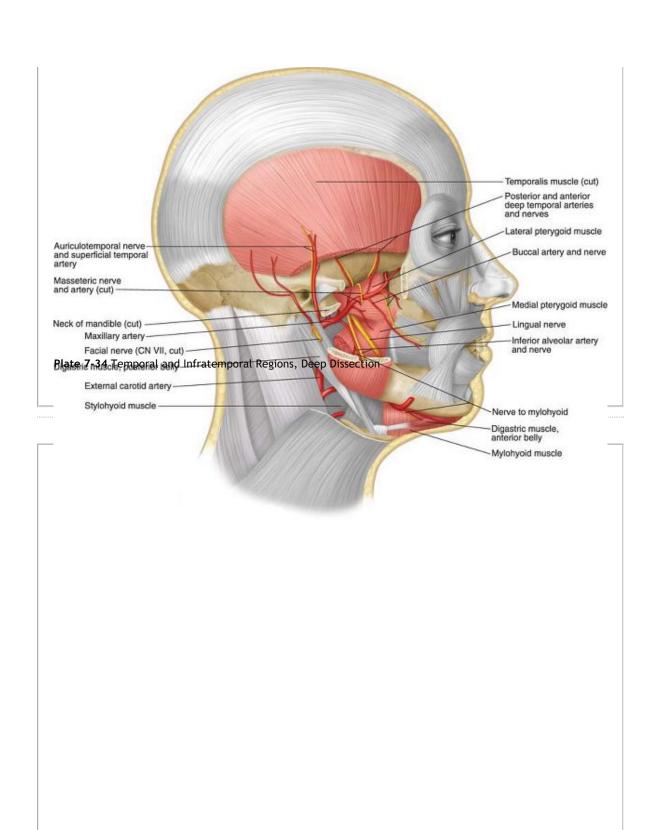
Plate 7-29 Face, Anterior View	
Place 7-27 lace, Africa for view	
	P.325
	P.323

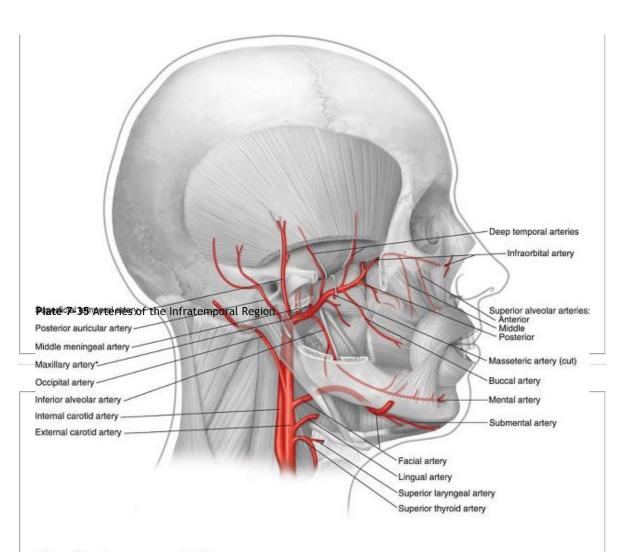




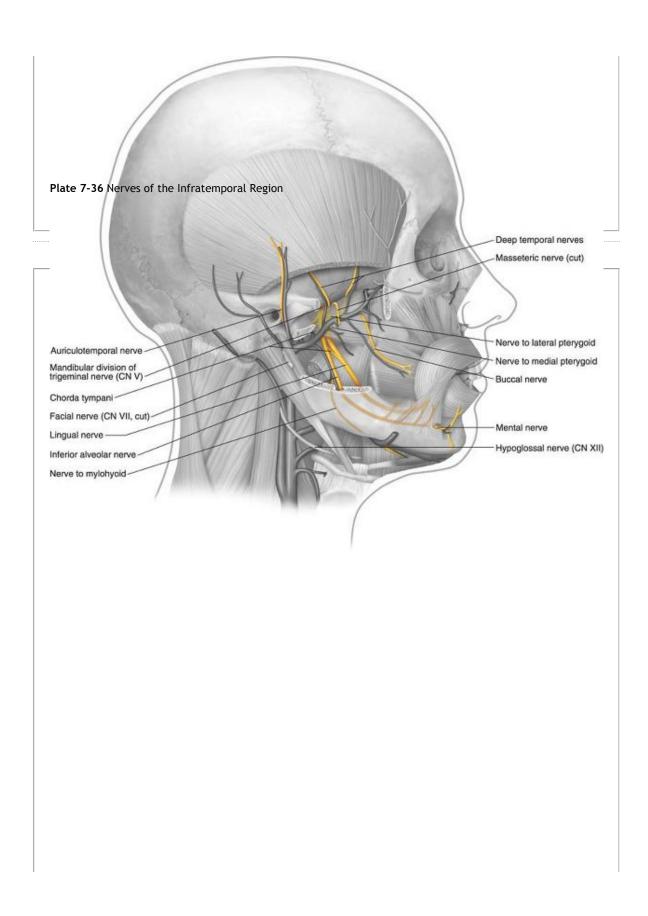


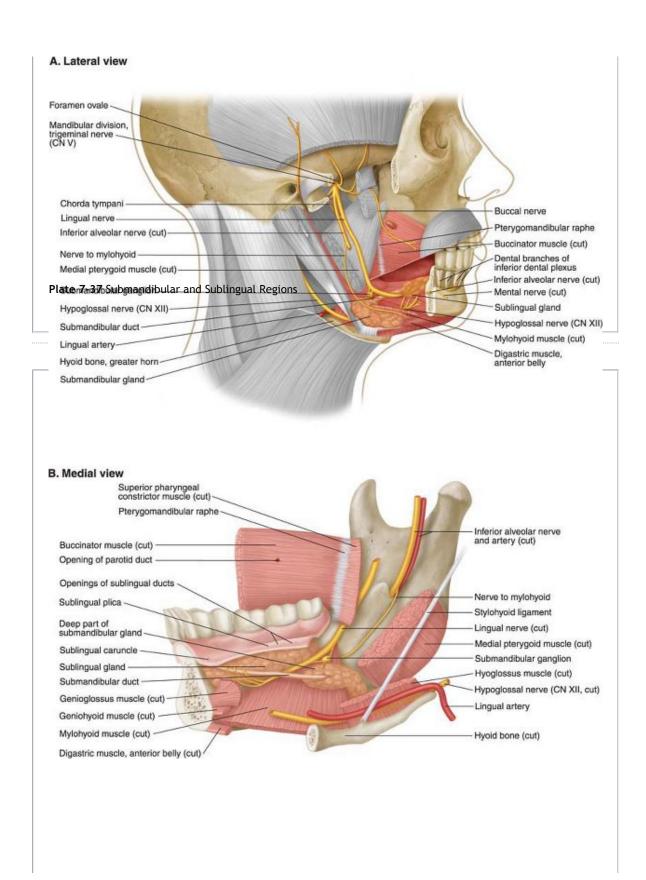


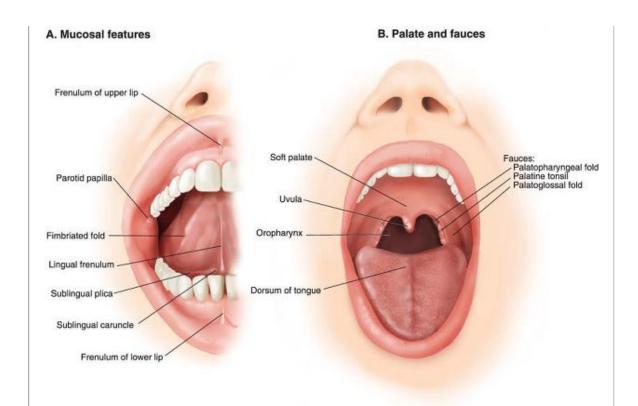


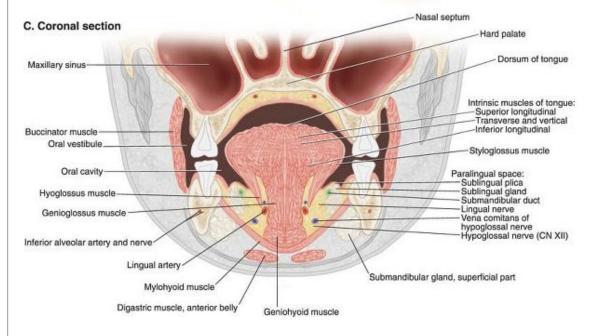


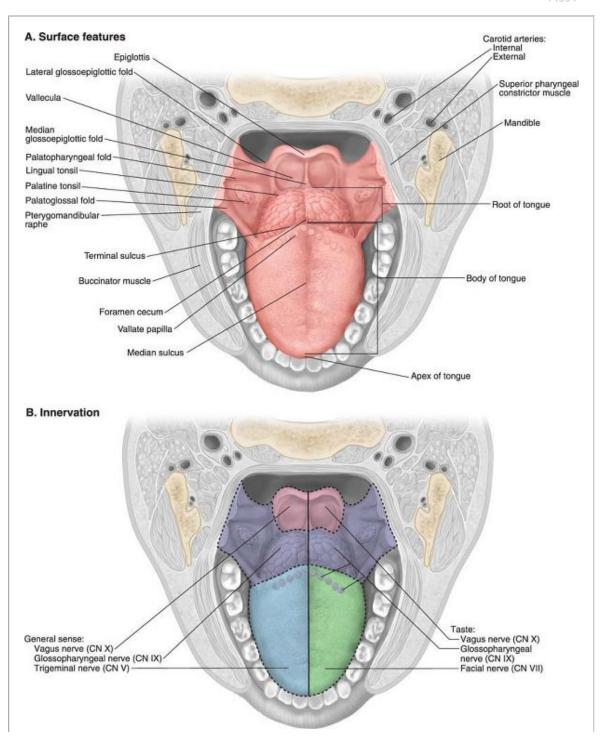
^{*} The maxillary artery may pass medial (42%) or lateral to lateral pterygoid muscle



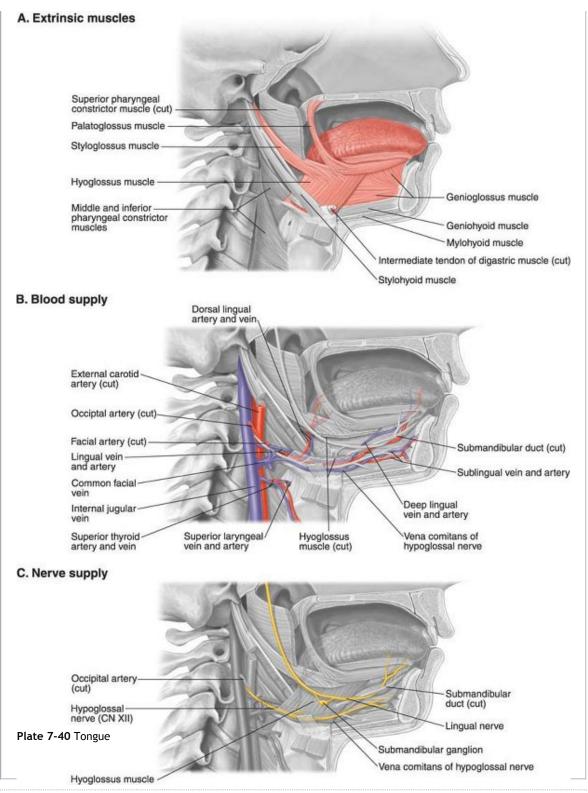


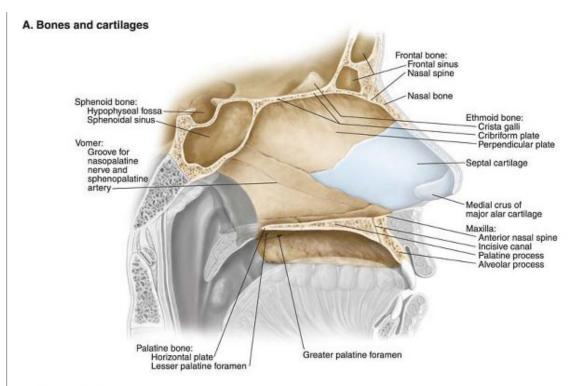












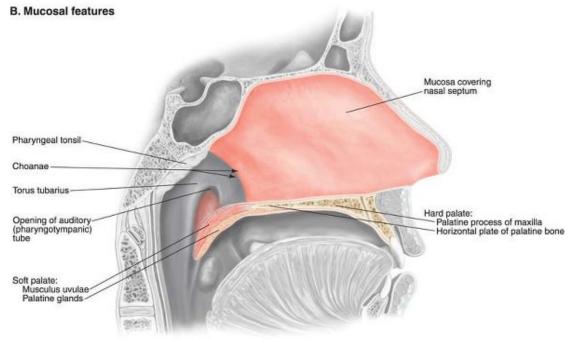
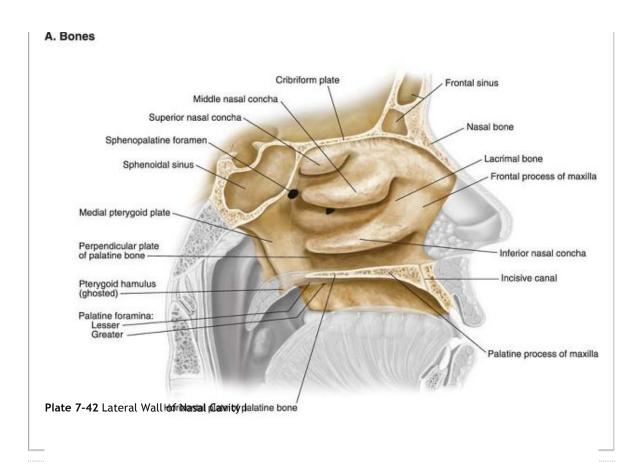
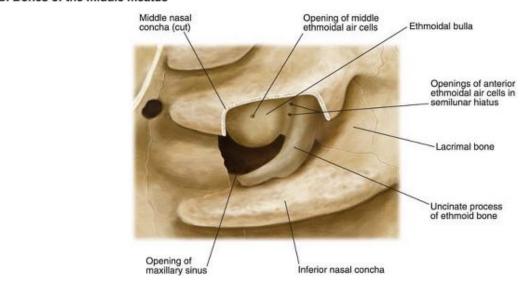


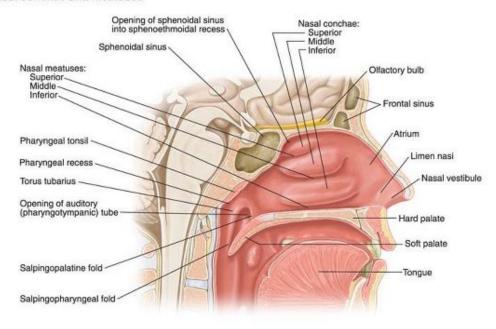
Plate 7-41 Nasal Sep	otum and Palate	
		P.337



B. Bones of the middle meatus



A. Nasal conchae and meatuses



B. Openings in the lateral wall of the nasal cavity

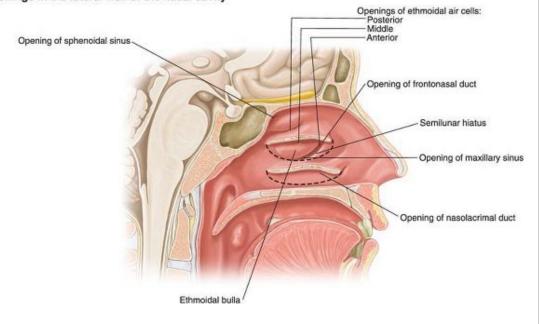
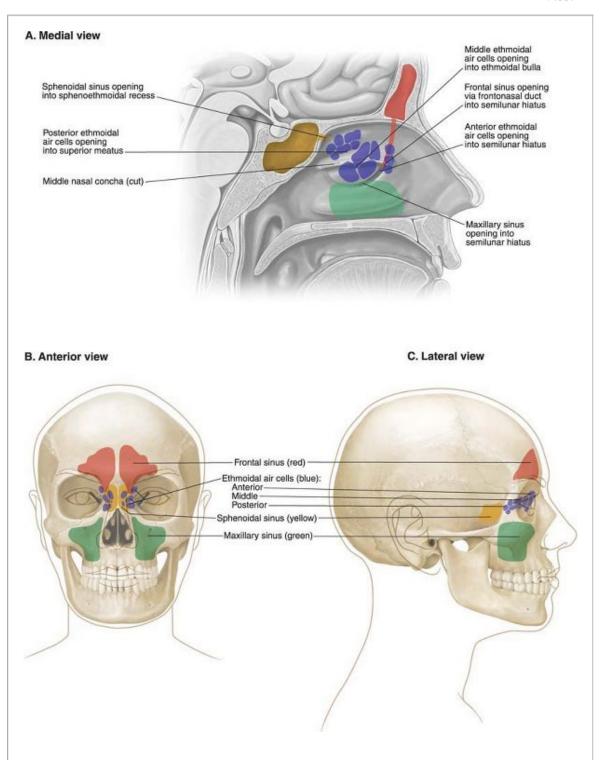
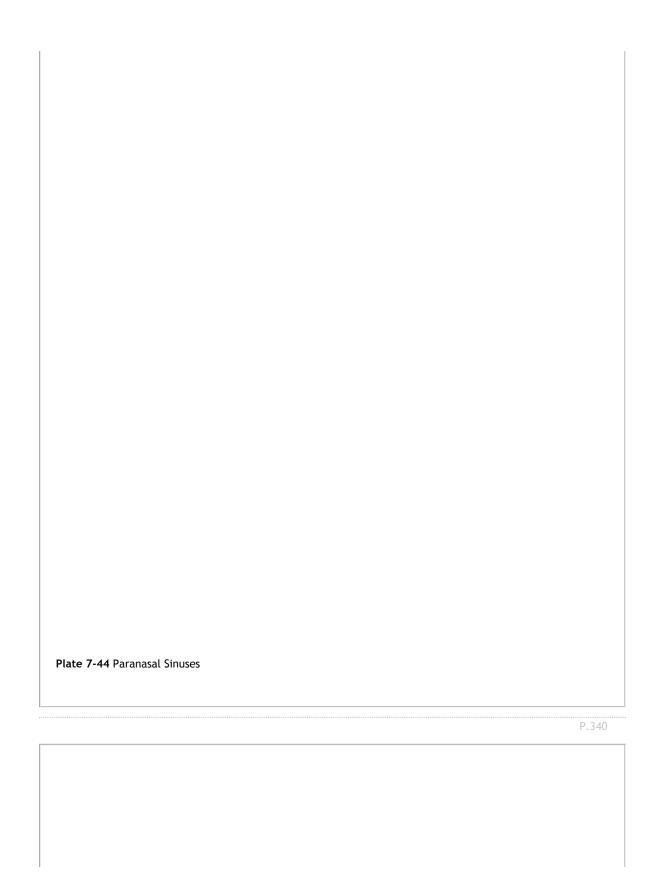
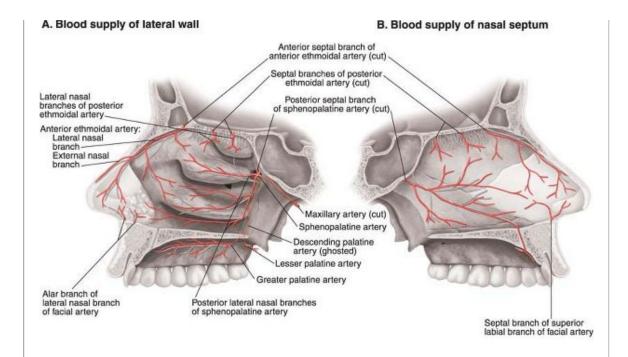


Plate 7-43 Lateral Wall of Nasal Cavity II

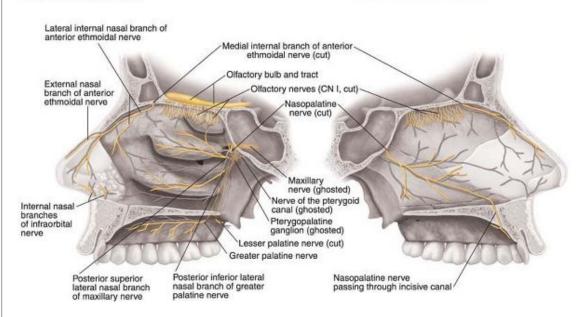




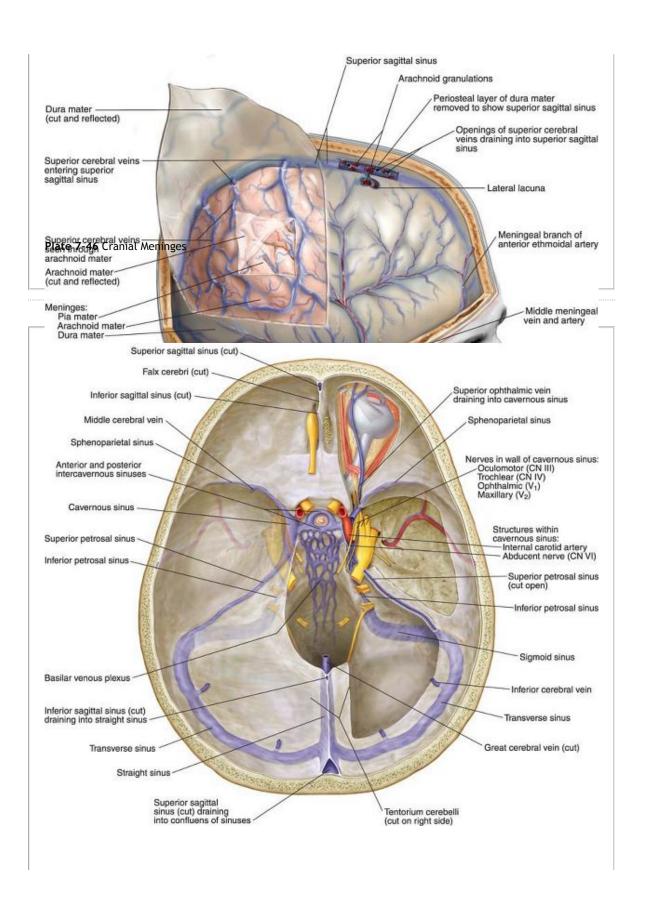


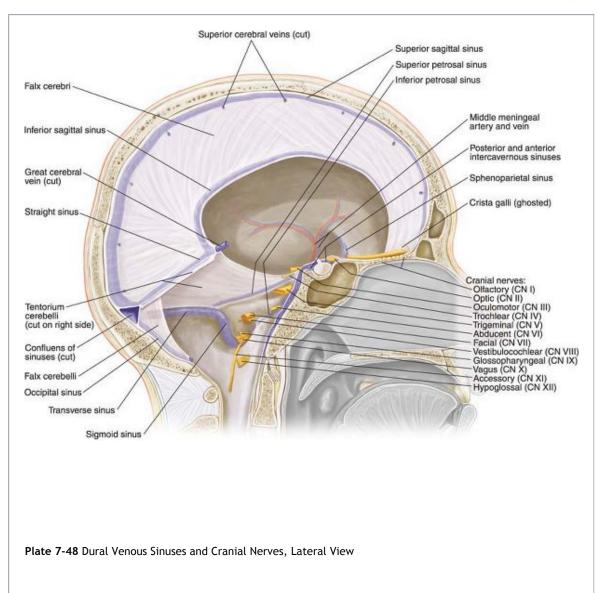
C. Nerves of lateral wall

D. Nerves of nasal septum



Plato 7	-45 Blood Supply and Innervation of the Nasal Cavity	
riate /-	-43 Blood supply and innervation of the Nasal Cavity	
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A. Sagittal section Falx cerebri Superior sagittal sinus Plane of section B Choroid plexus of 3rd ventricle Cingulate gyrus Inferior sagittal sinus Corpus callosum Septum pellucidum Fornix Anterior commissure Great cerebral 3rd ventricle Posterior and anterior intercavernous sinuses Straight sinus Tentorium cerebelli (cut) Hypophysis Sphenoidal sinus Confluens of sinuses (cut) Basilar artery Occipital sinus in falx cerebelli Basilar plexus Cerebellum 4th ventricle Central canal of medulla oblongata and spinal cord Cervical spinal cord Medulla oblongata

B. Coronal section

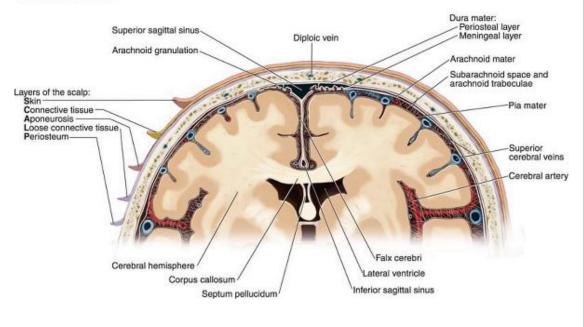
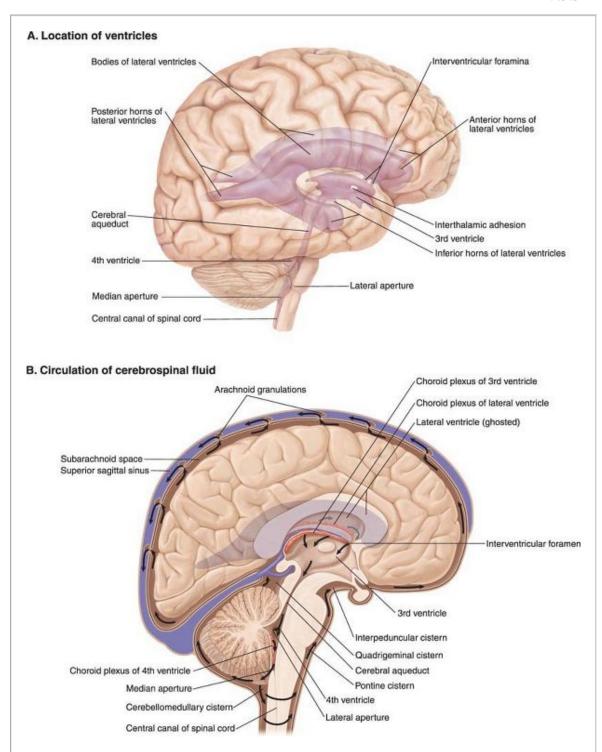
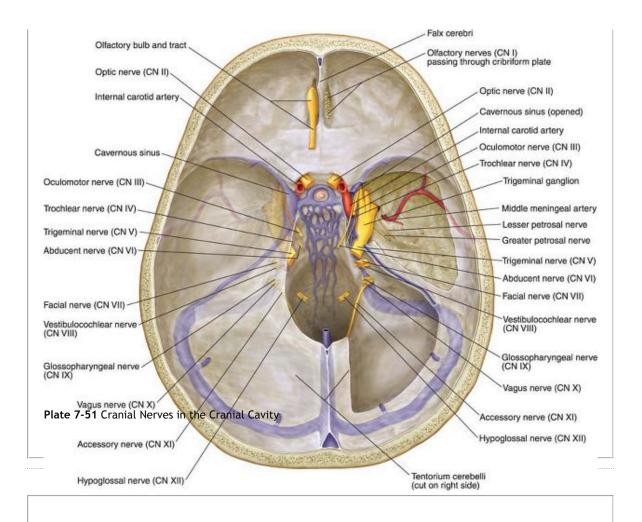
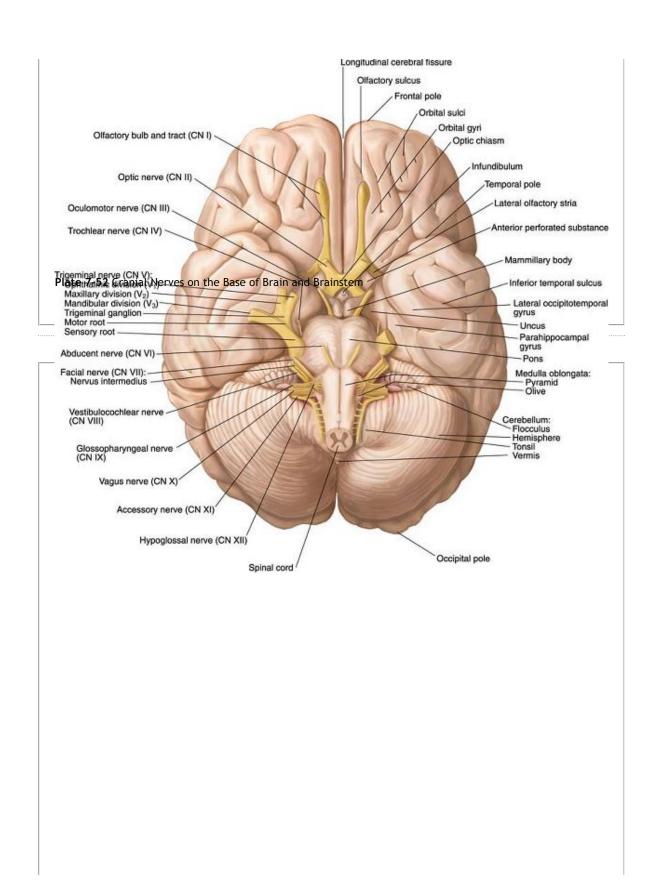


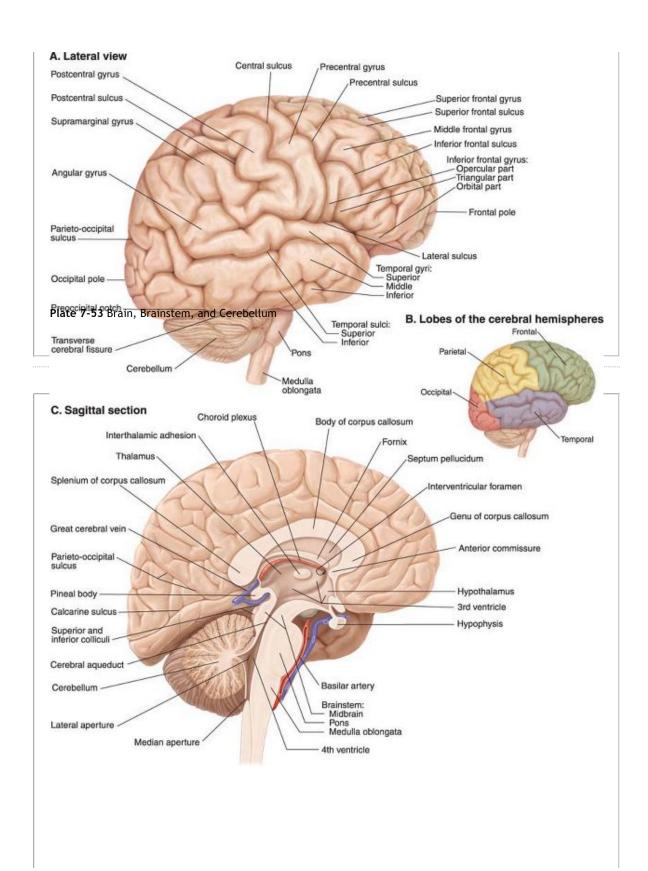
Plate 7-49 Dural Venous Sinuses, Sectioned

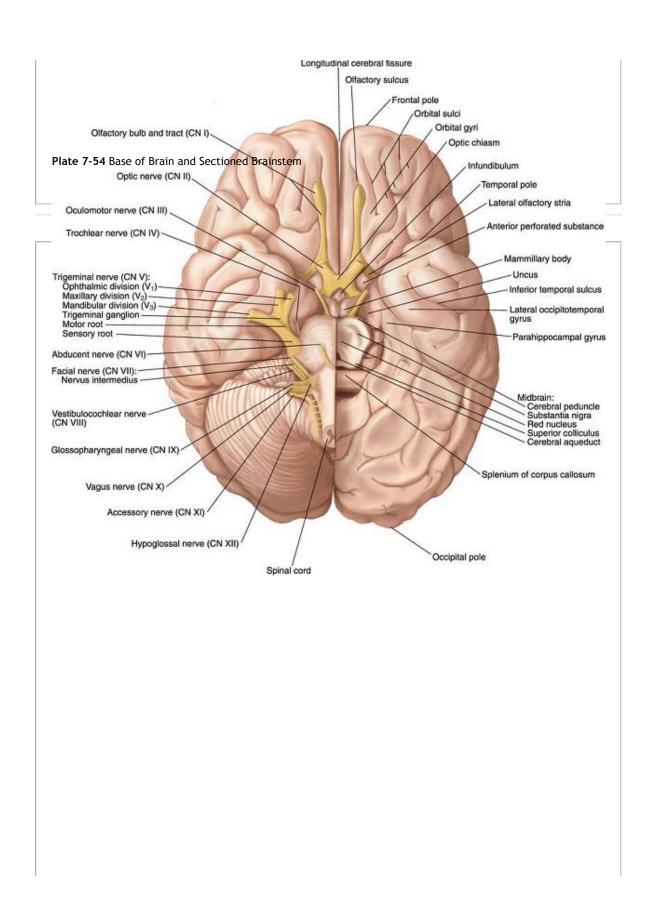


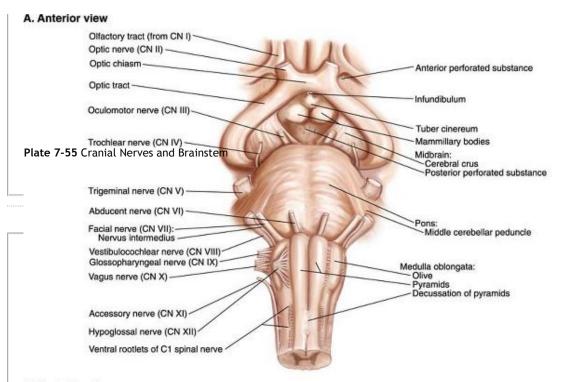
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	Plate 7-50 Ventricles of the Brain	
	P.346	
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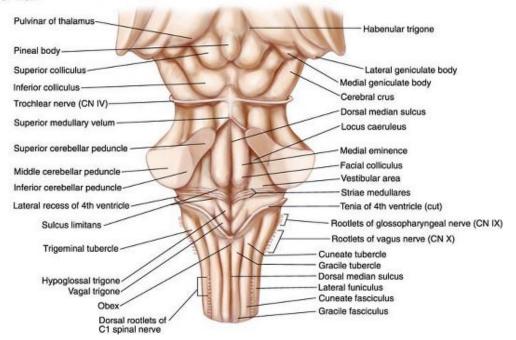


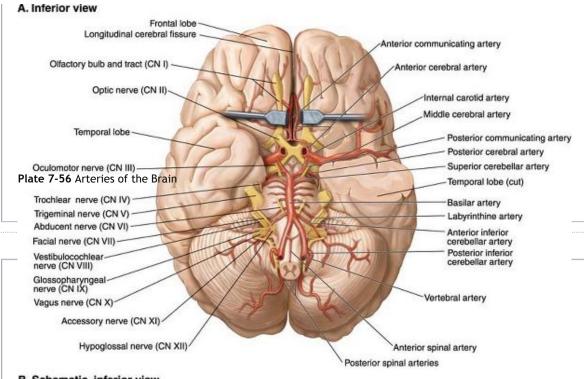




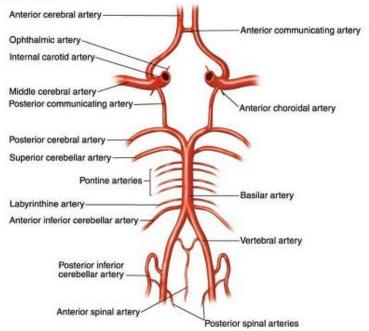


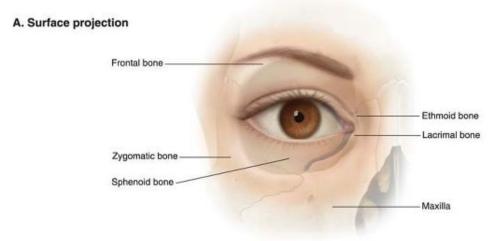
B. Posterior view

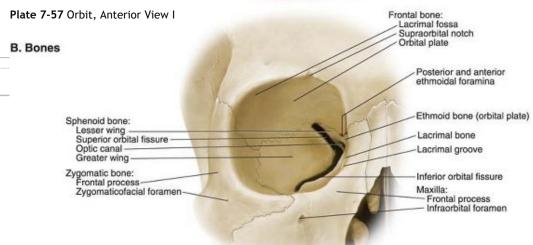


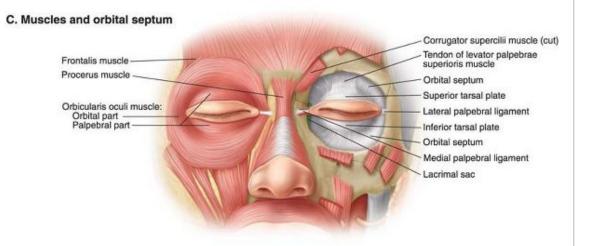


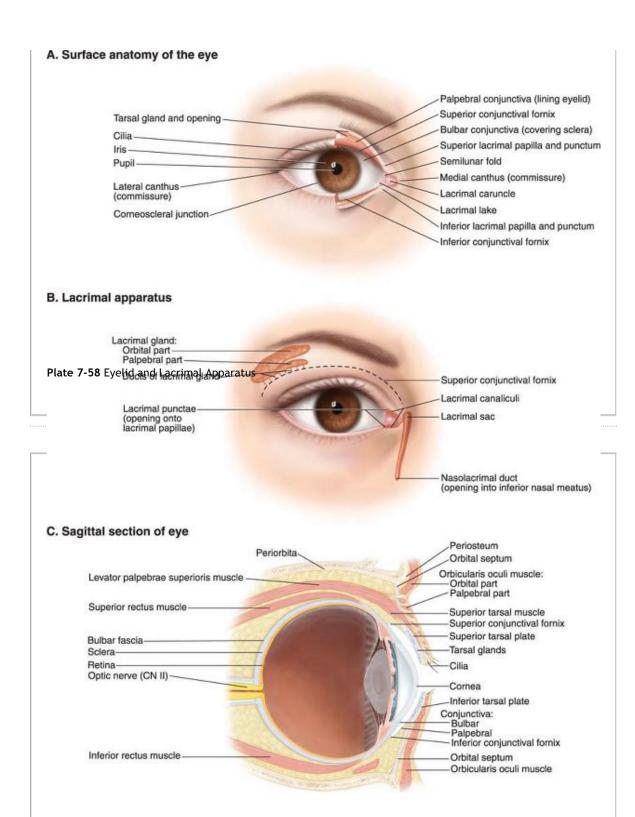
B. Schematic, inferior view

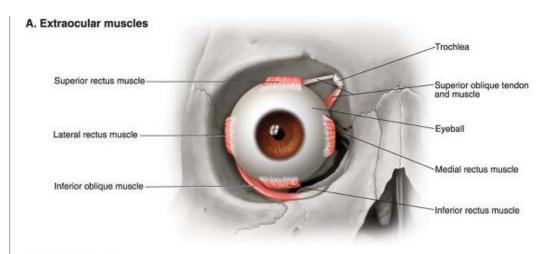




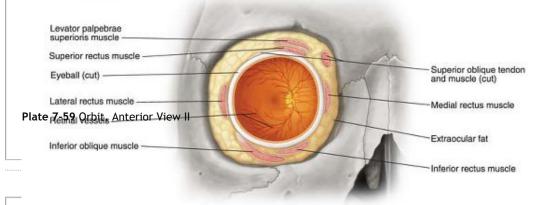


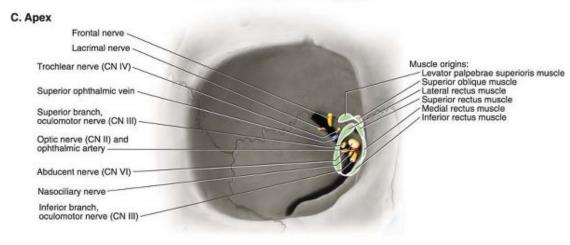


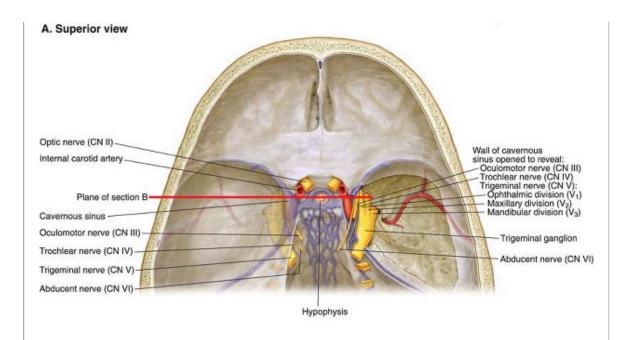




B. Coronal section







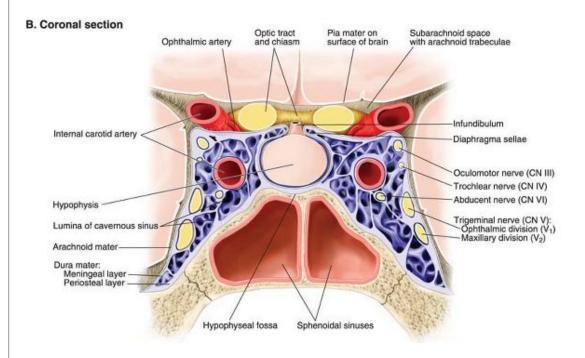
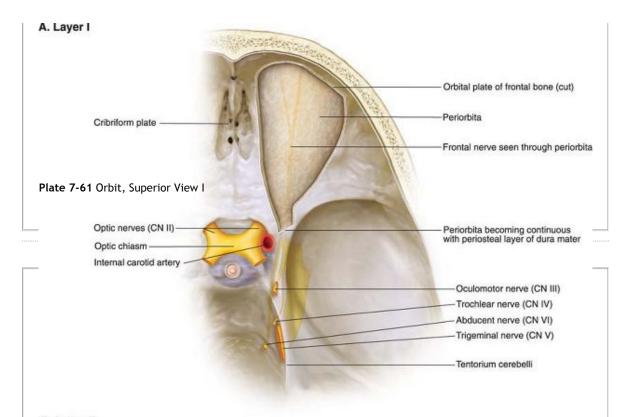
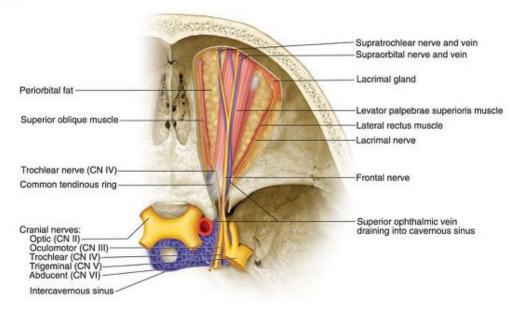
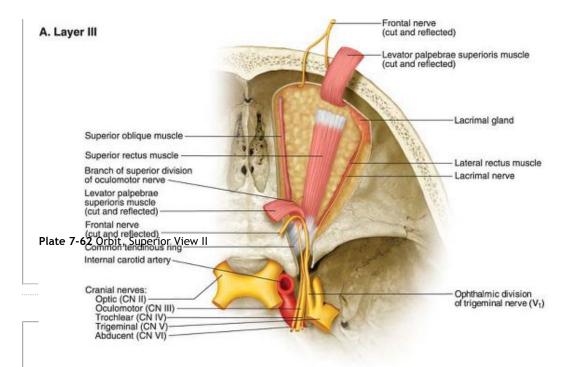


Plate 7-60 Cavernous Sinus	
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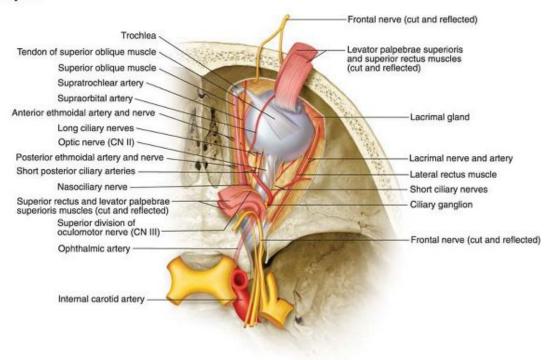


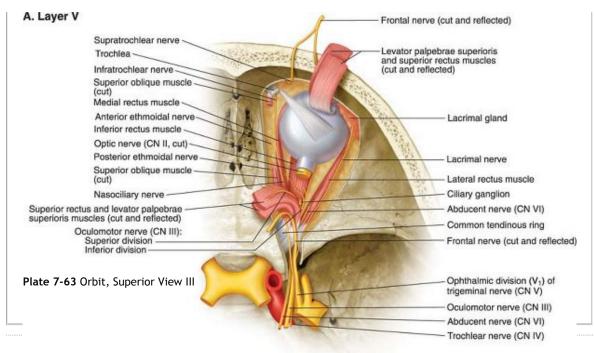
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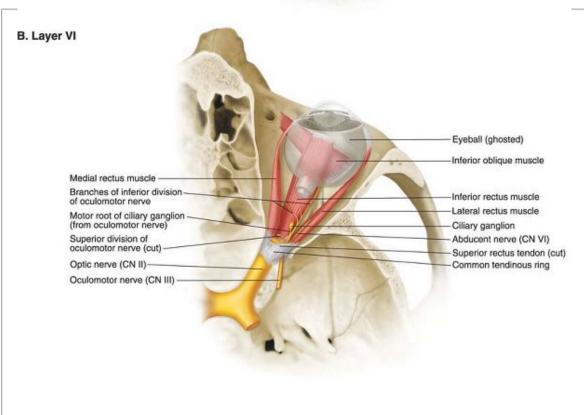


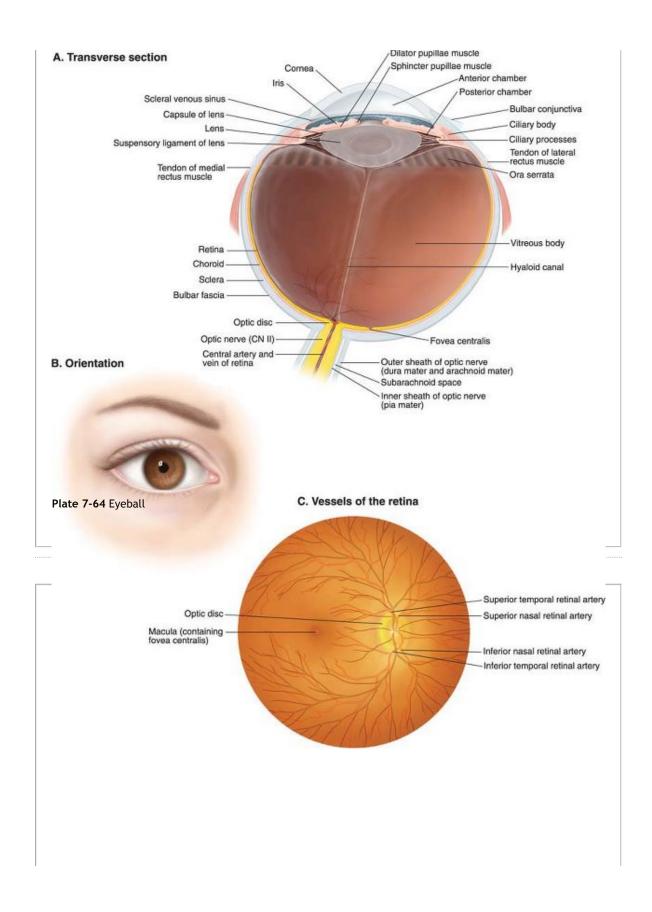


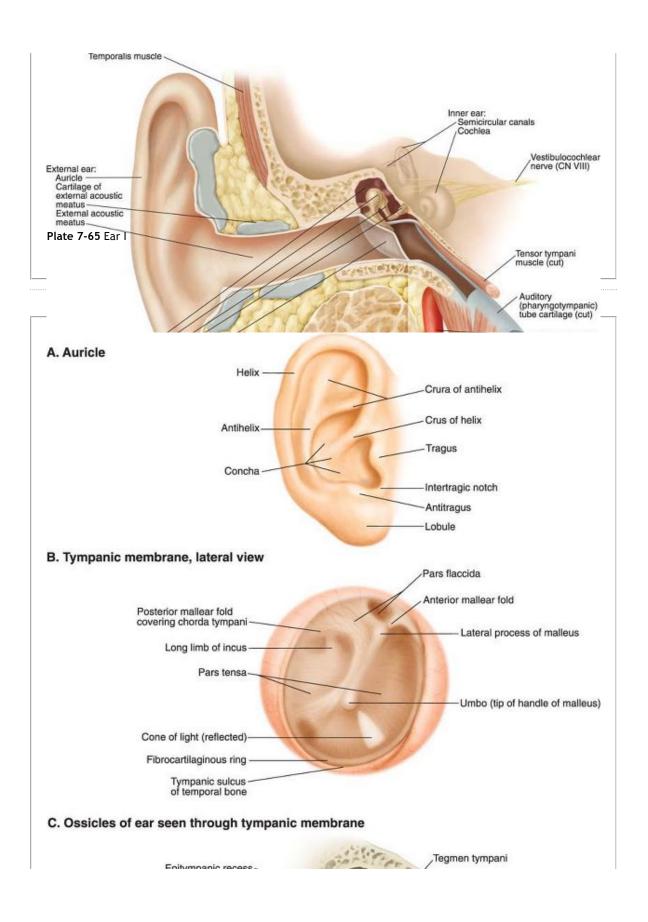
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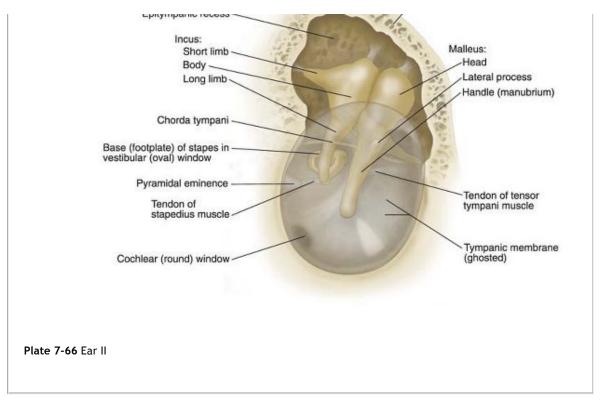




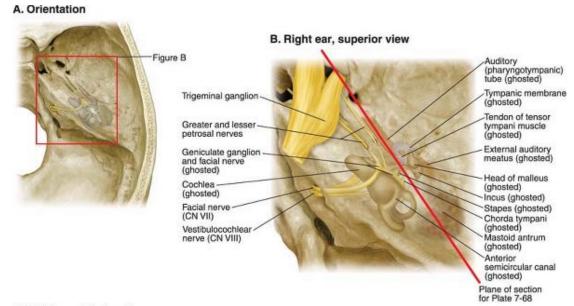








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C. Right ear, inferior view

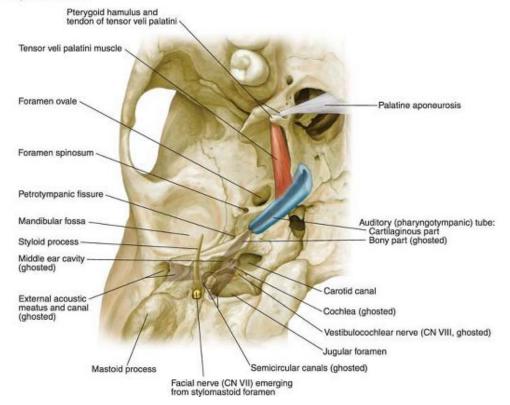
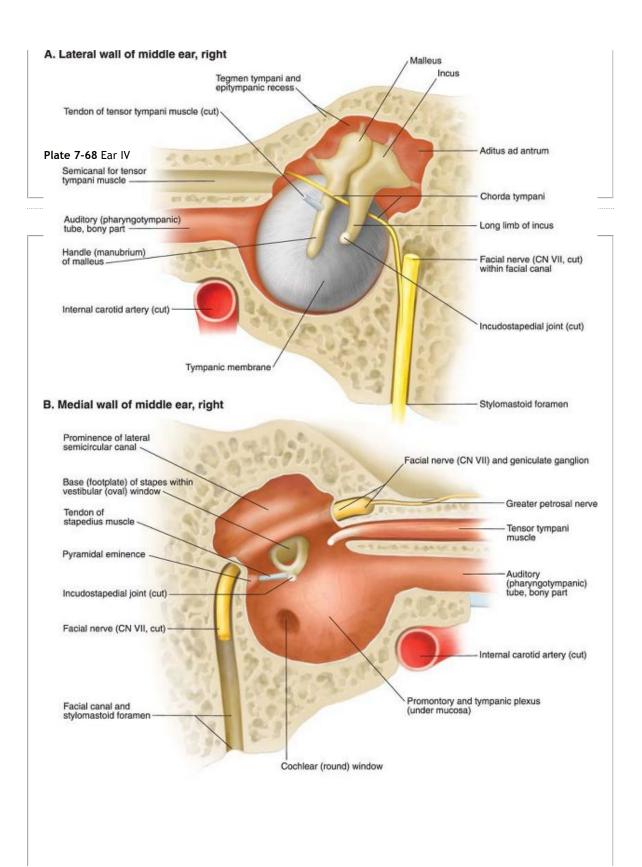
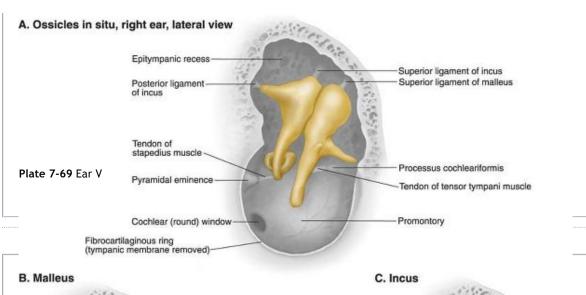
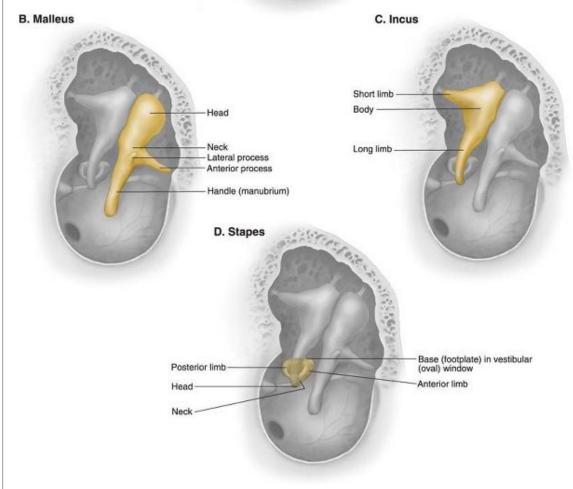
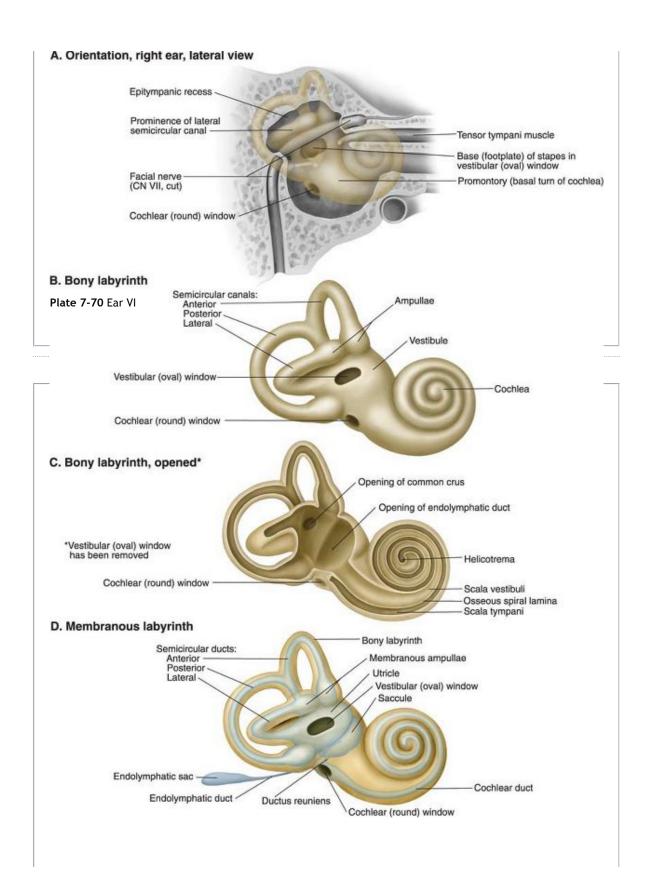


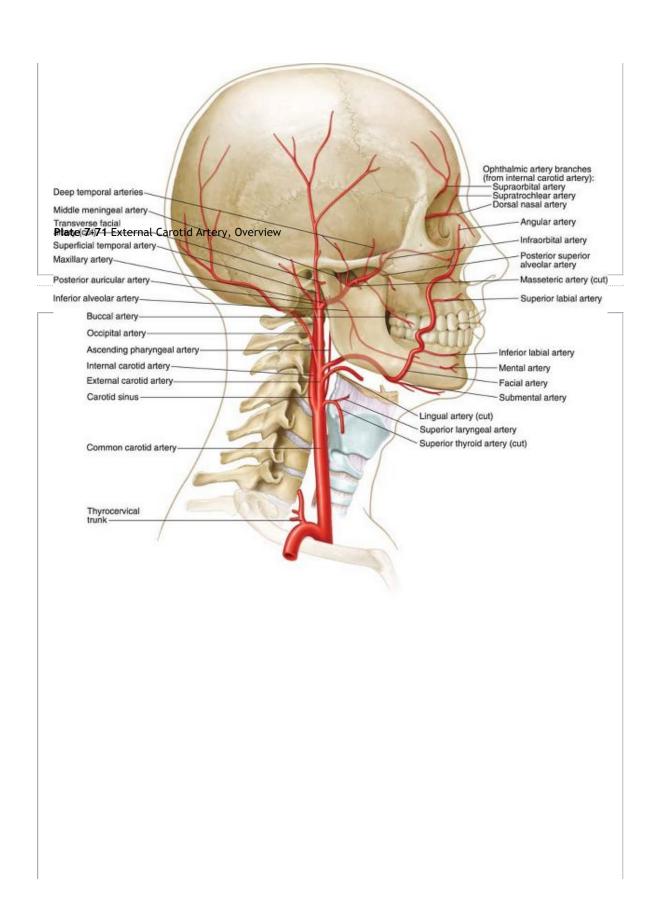
Plate 7-67 Ear III	
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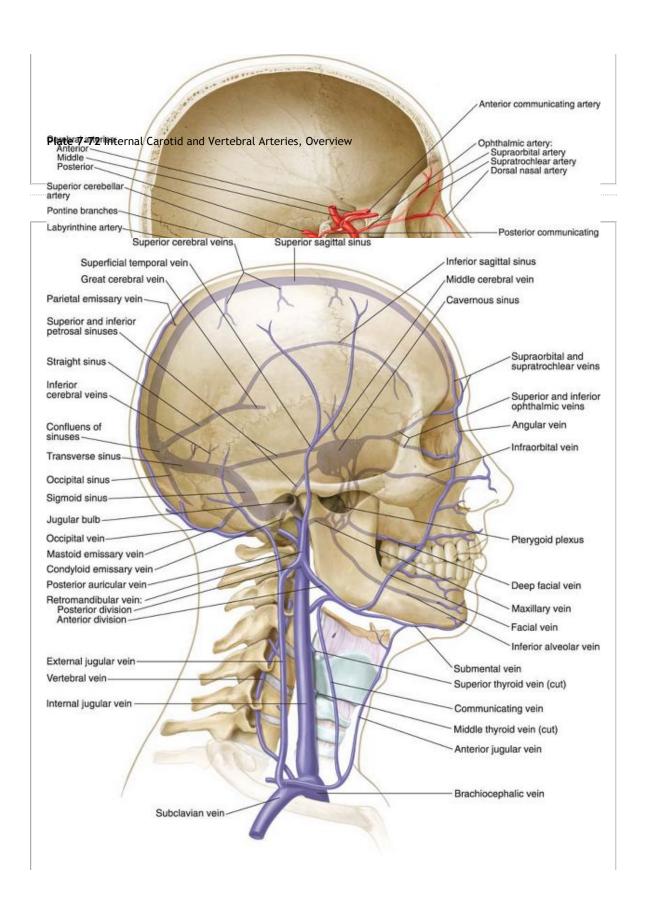


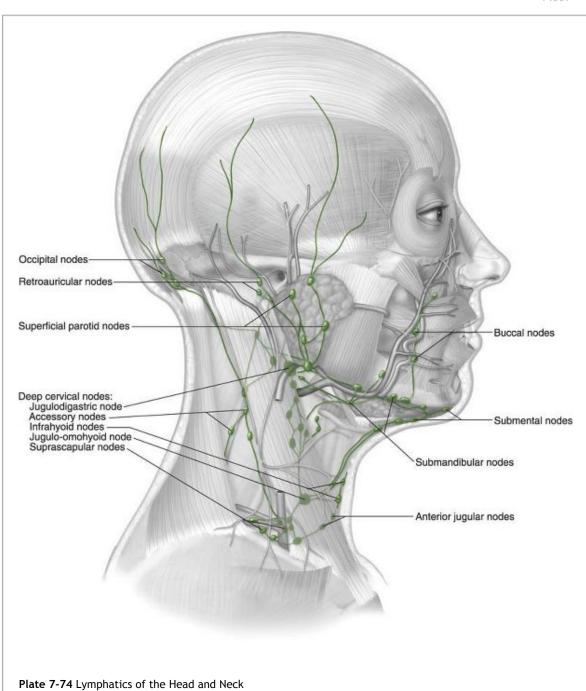


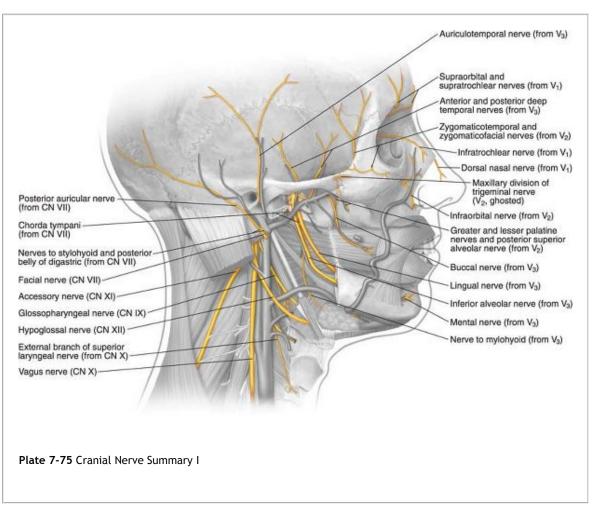


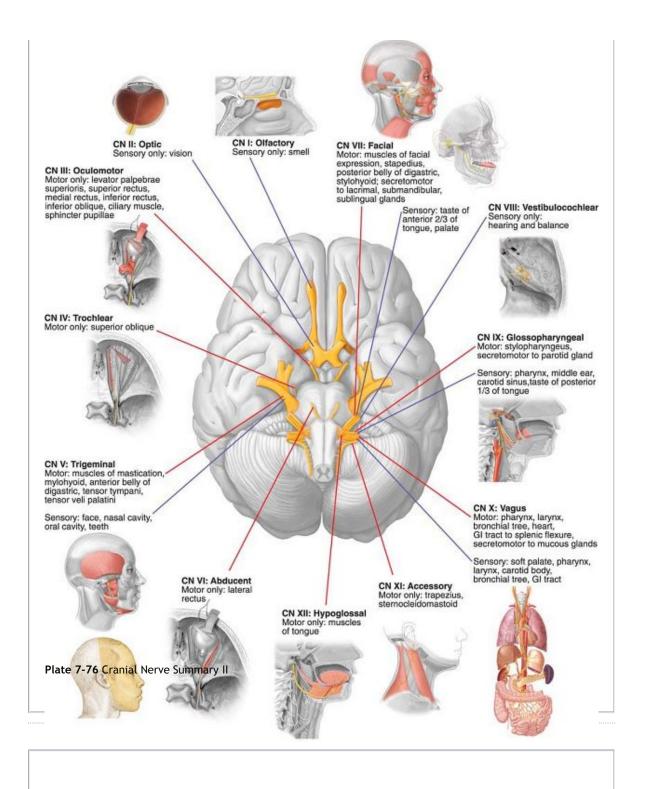


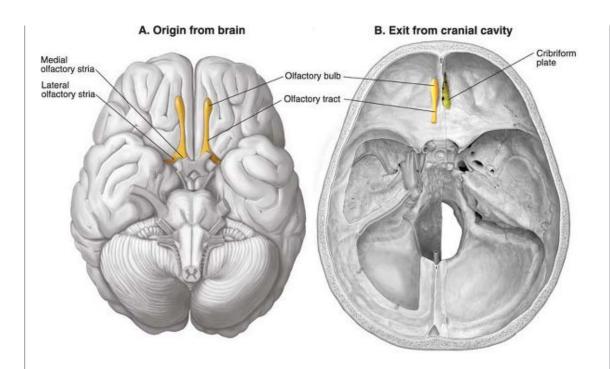












C. Sensory innervation, sagittal section

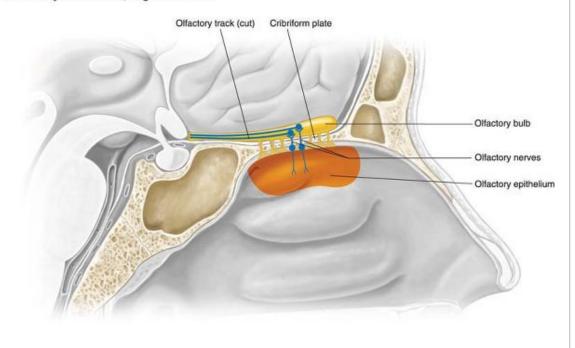
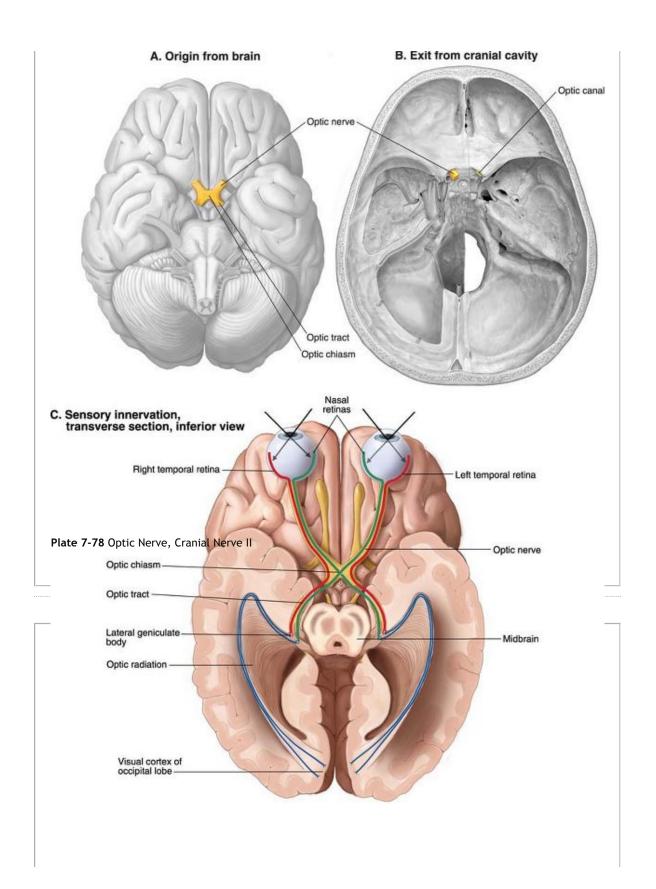
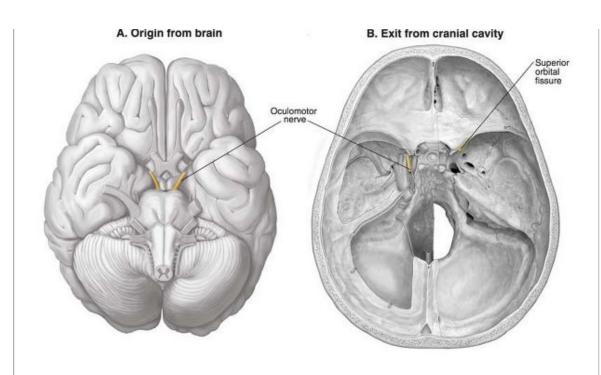


Plate 7-77 Olfactory Nerve, Cranial Nerve I	
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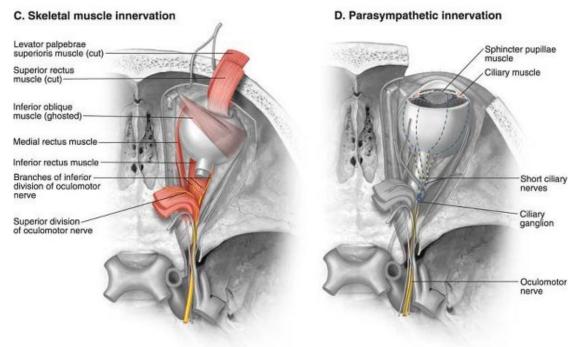
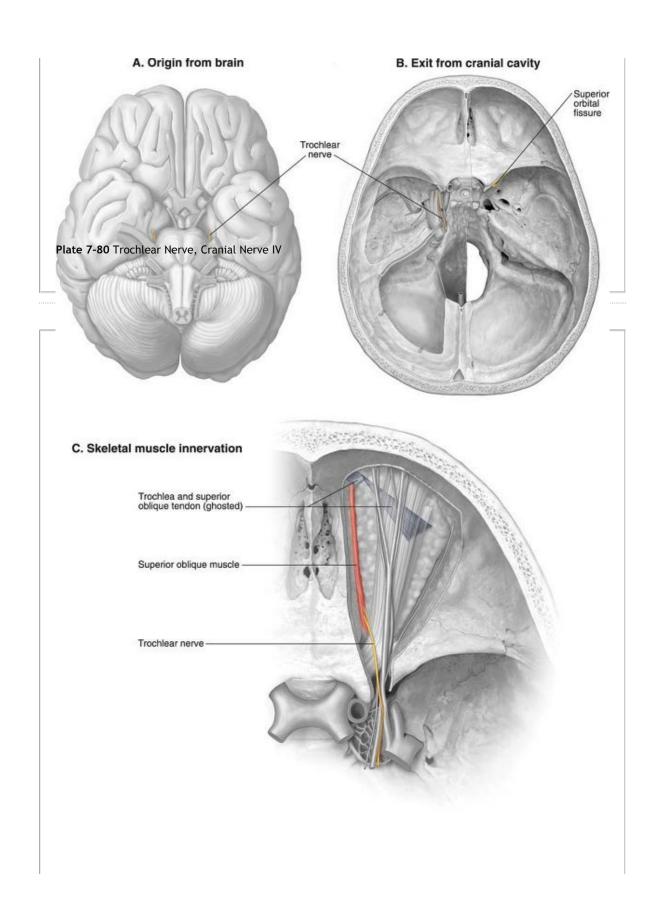
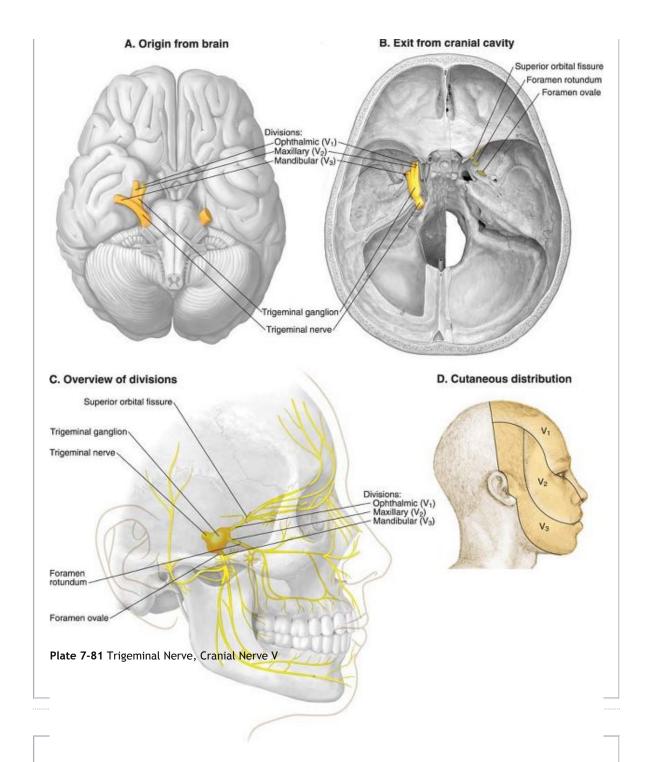
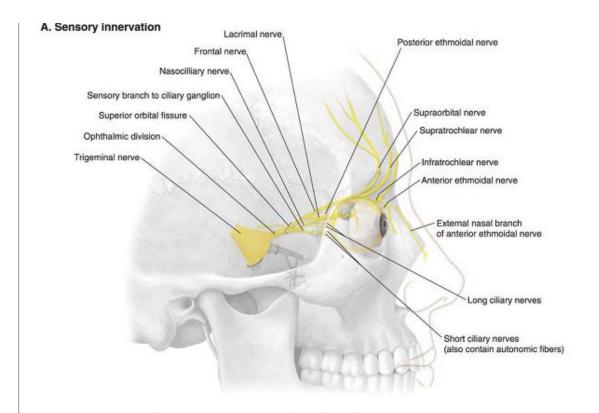


	Plate 7-79 Oculomotor Nerve, Cranial Nerve III	
Г		P.375







B. Cutaneous distribution

C. Branches that carry parasympathetic innervation

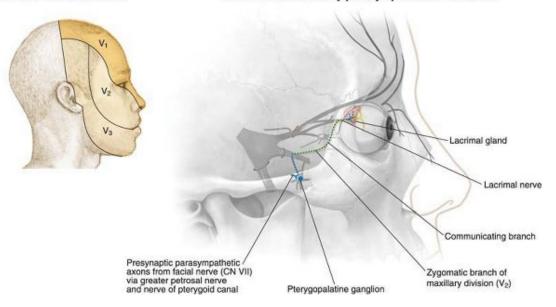
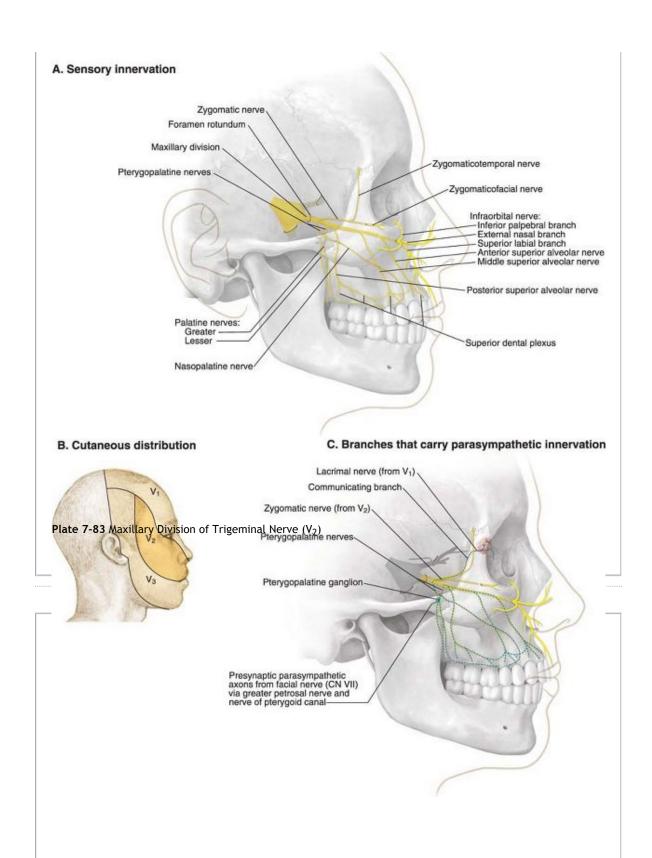
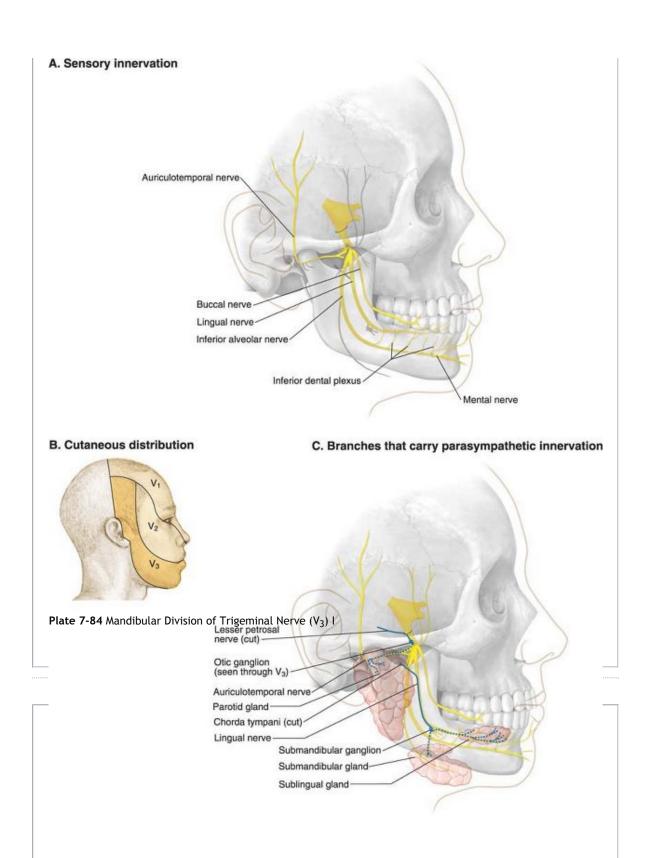


Plate 7-82 Ophthalmic Division of Trigeminal Nerve (V ₁)	
	P.378





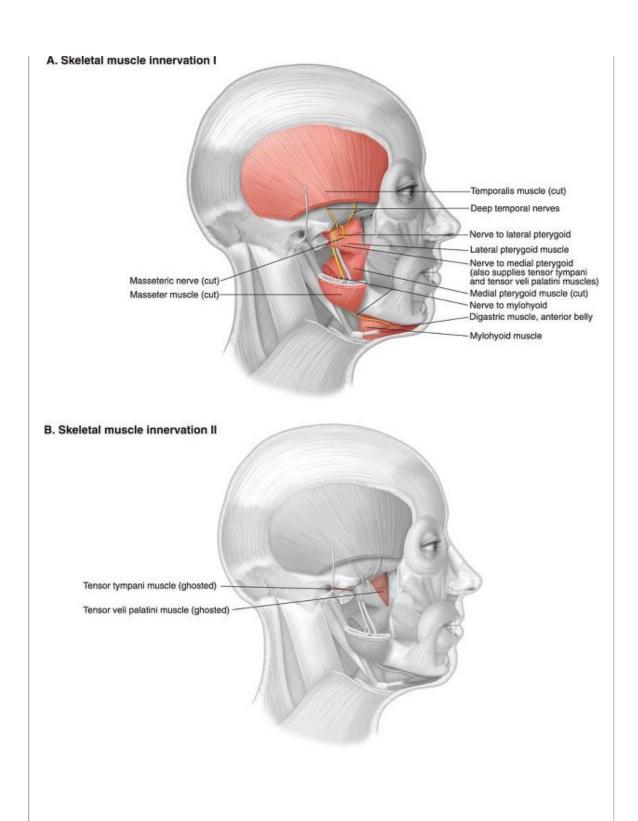
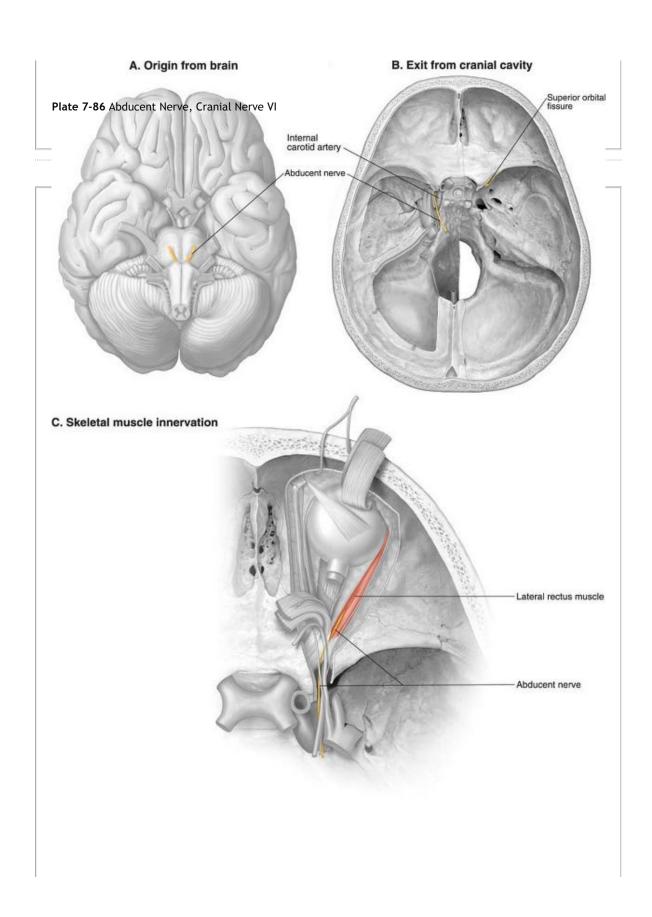
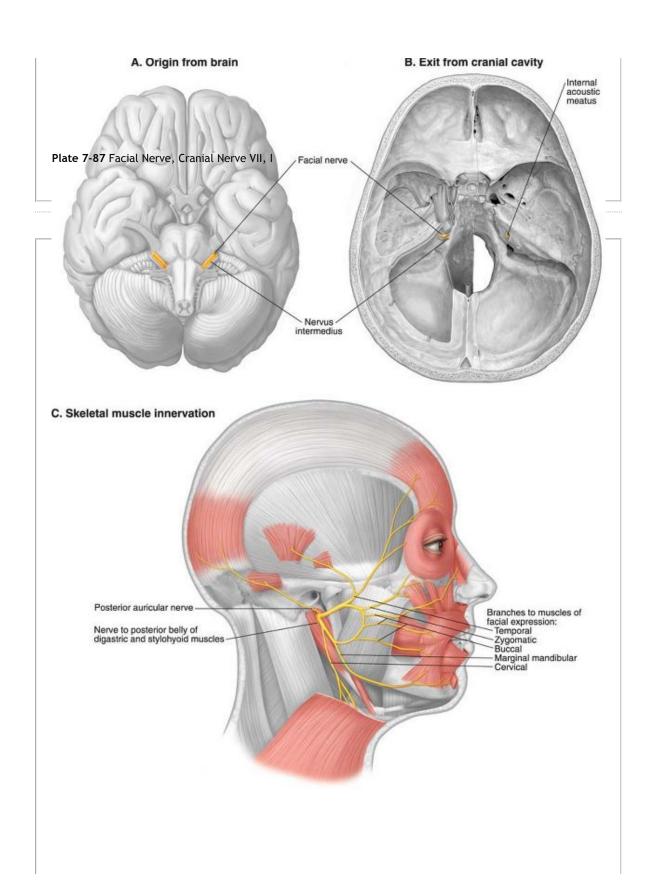
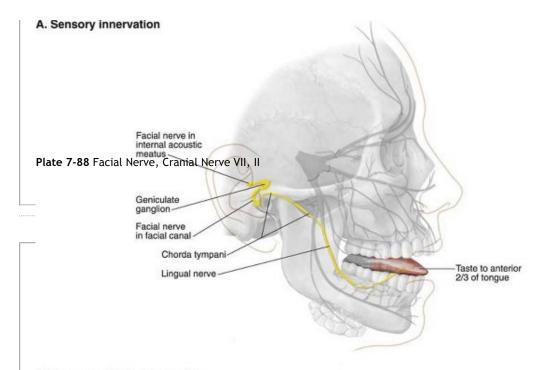


Plate 7-85 Mandibular Division of Trigeminal Nerve (V_3) II

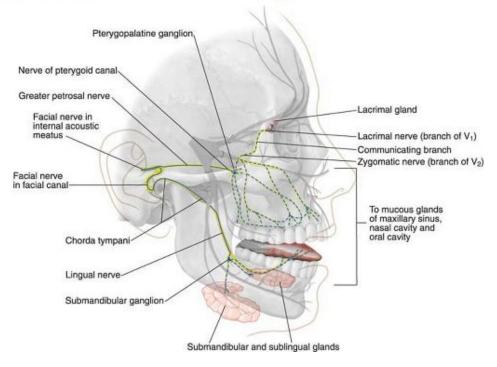
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		P.38

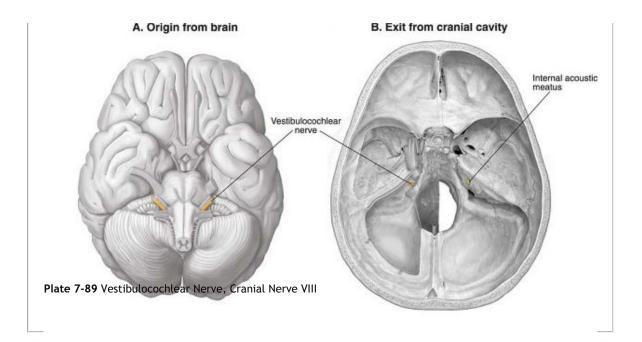




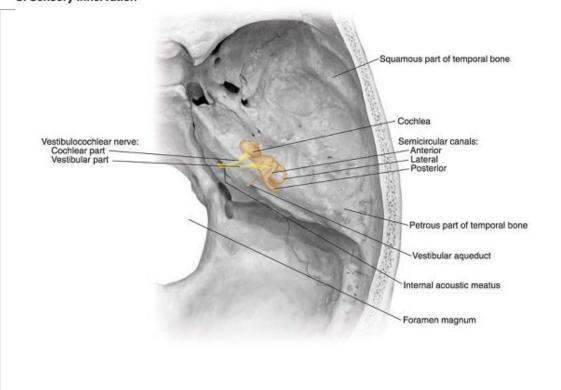


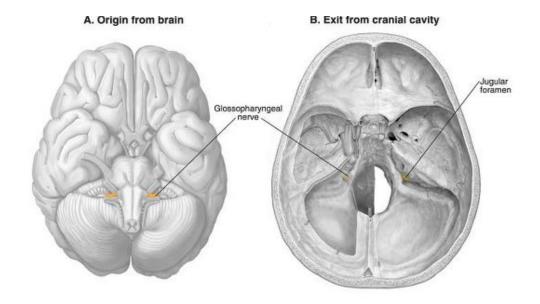
B. Parasympathetic innervation



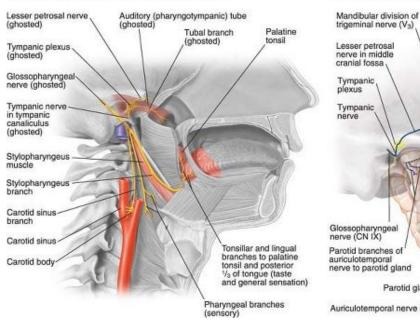


C. Sensory innervation





C. Sensory and skeletal muscle innervation



D. Parasympathetic innervation

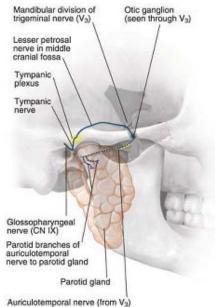
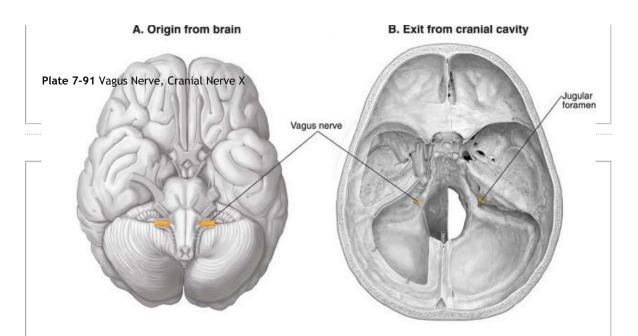
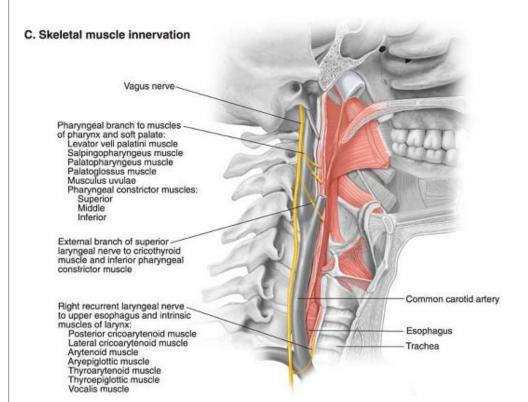
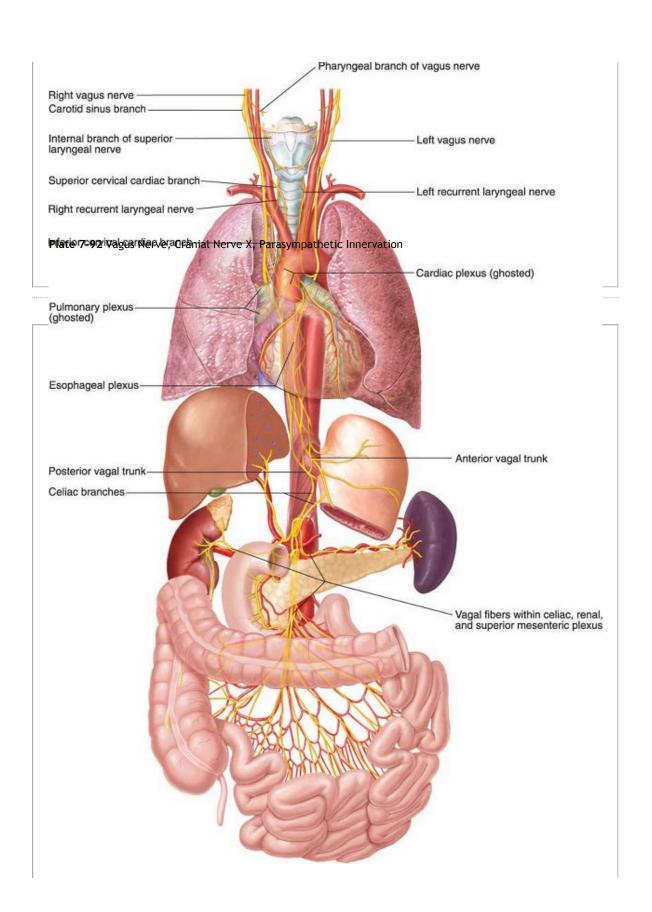
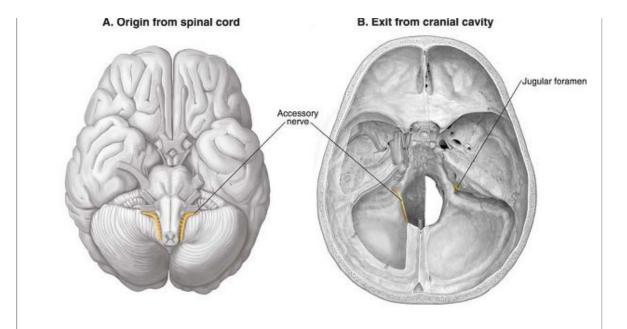


Plate 7-90 Glossopharyngeal Nerve, Cranial Nerve IX	

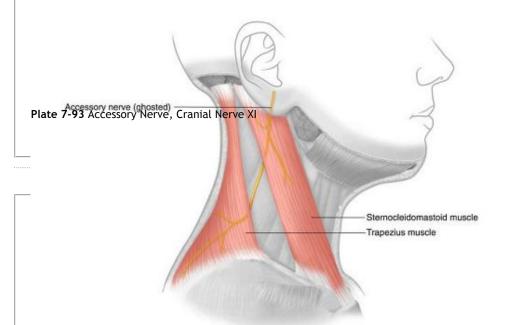


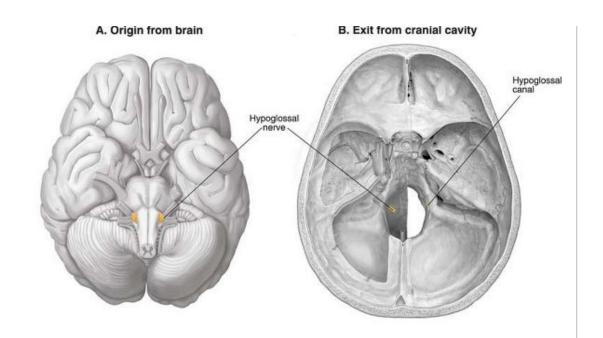






C. Skeletal muscle innervation





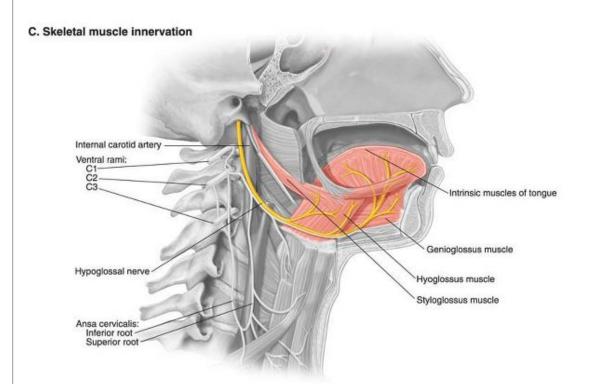
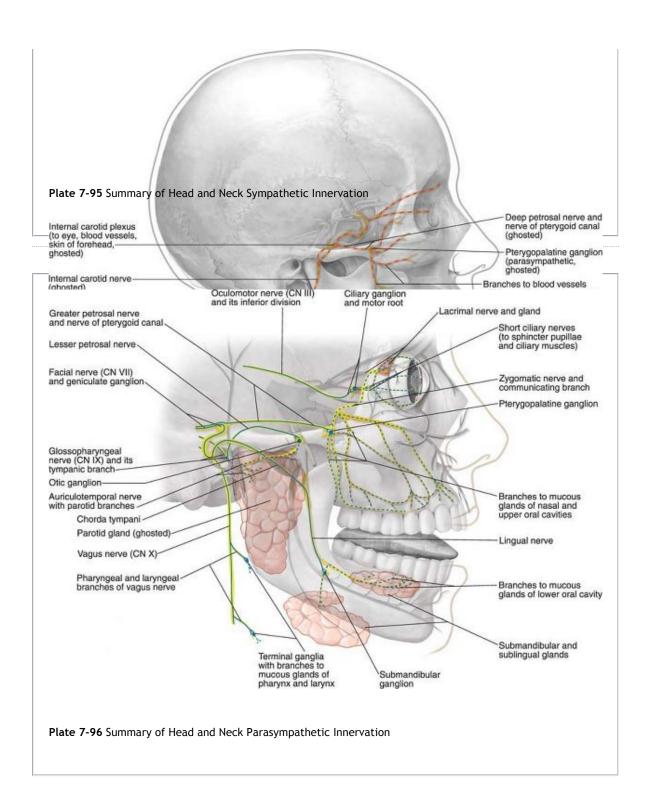


Plate 7-94 Hypoglossal Nerve, Cranial Nerve XII	
	P.390



Authors: Tank, Patrick W.; Gest, Thomas R.

Title: Lippincott Williams & Wilkins Atlas of Anatomy, 1st Edition

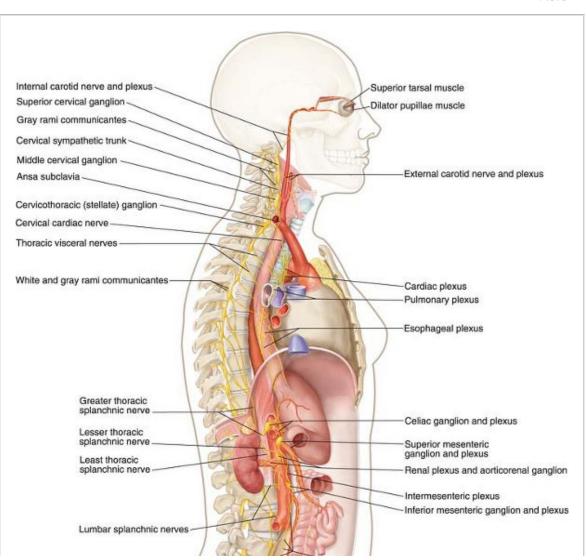
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Chapter 8

The Autonomic Nervous System

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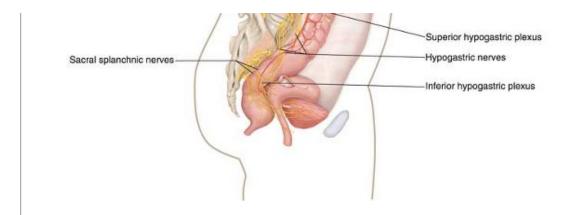
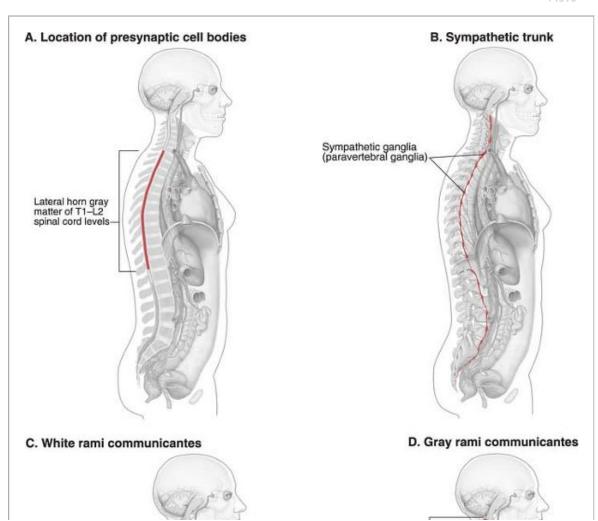
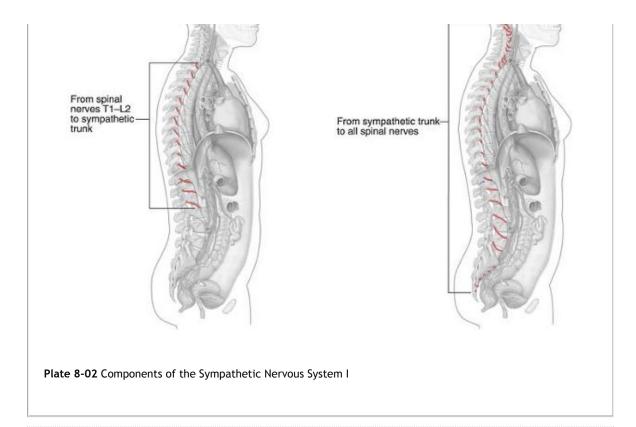
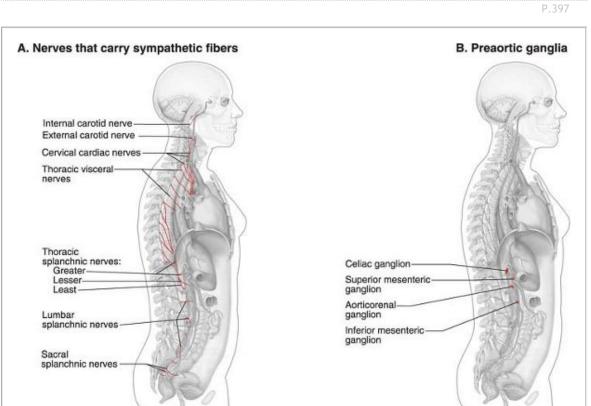
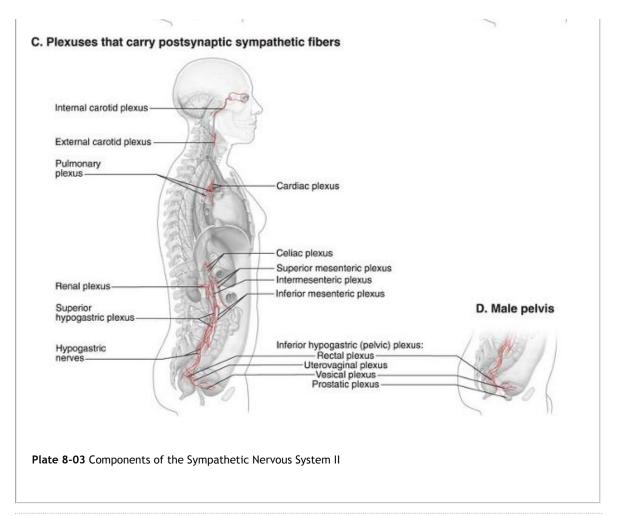


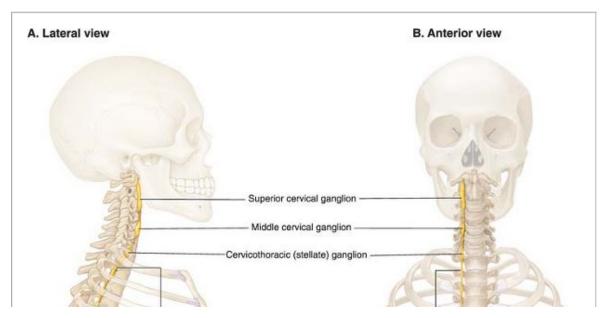
Plate 8-01 Overview of the Sympathetic Nervous System

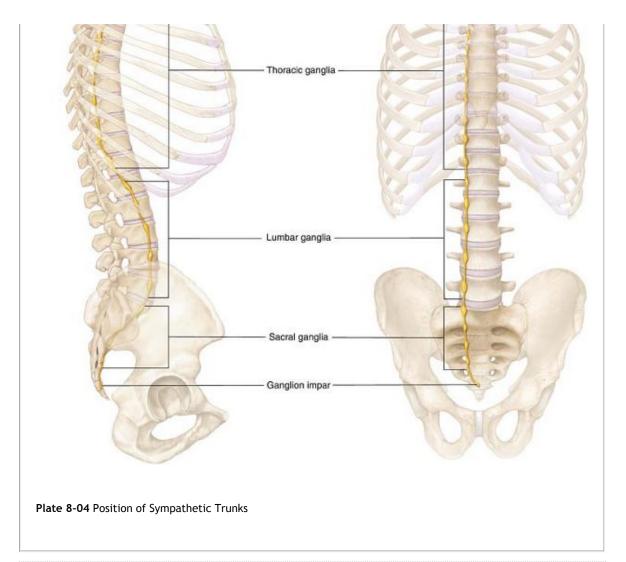


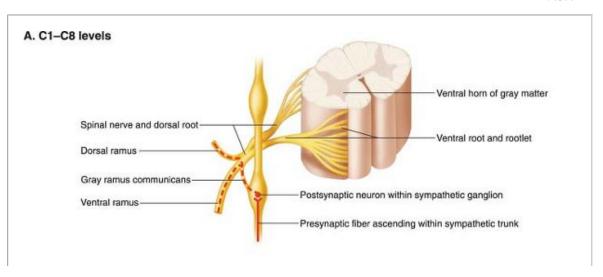


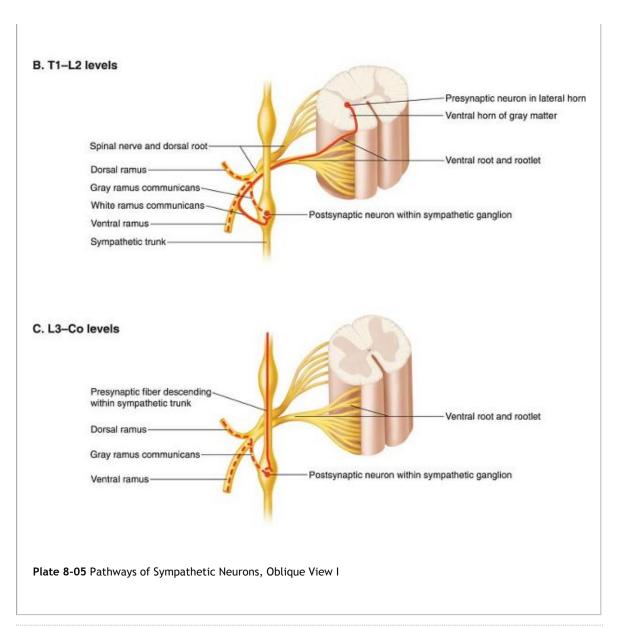












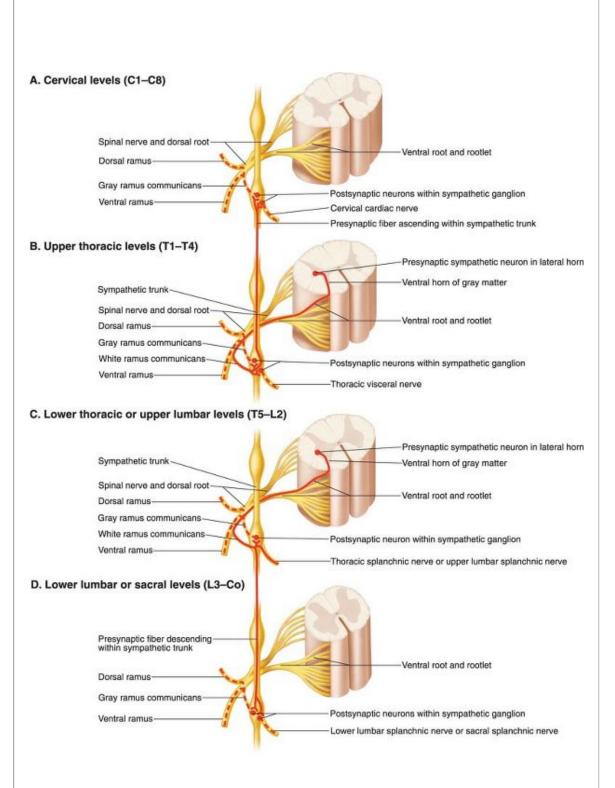
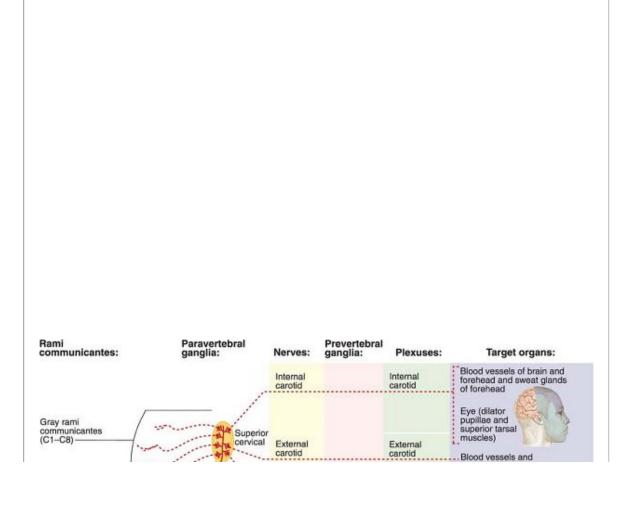
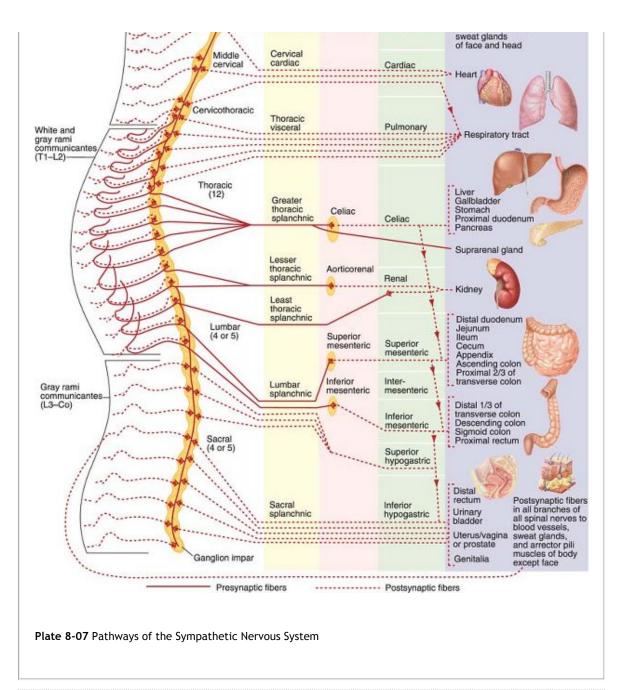
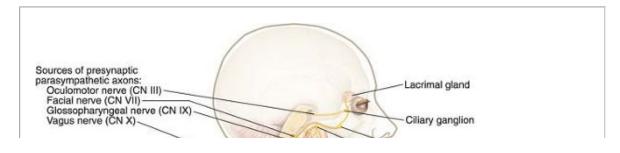
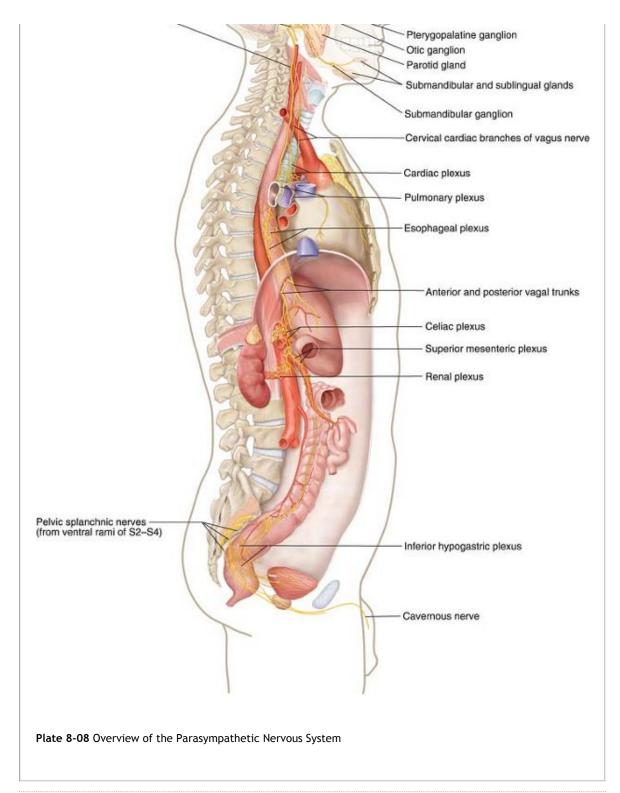


Plate 8-06 Pathways of Sympathetic Neurons, Oblique View II



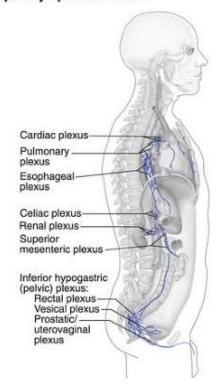




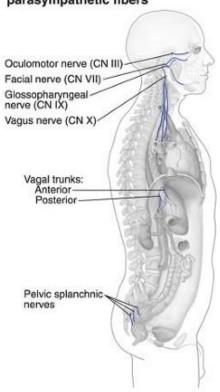


Brainstem Lateral horn gray matter of spinal cord segments—S2–S4

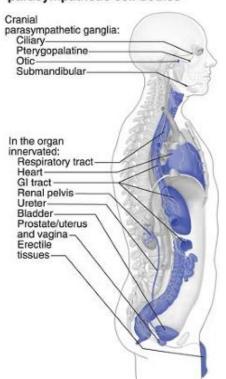
C. Plexuses that carry presynaptic parasympathetic fibers



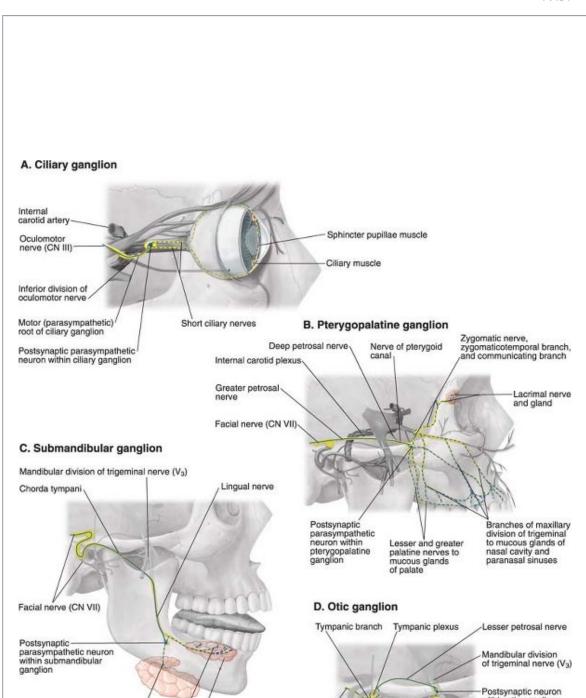
parasympathetic fibers

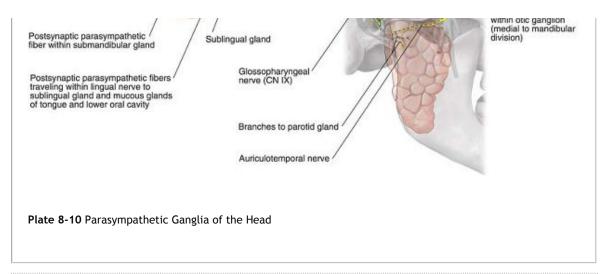


D. Location of postsynaptic parasympathetic cell bodies

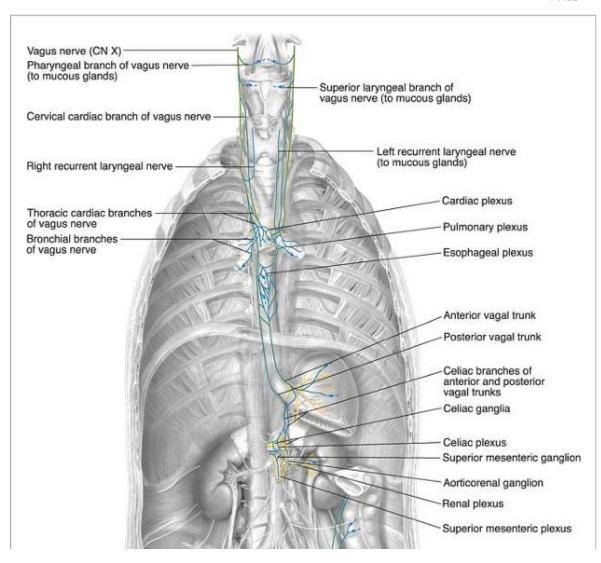


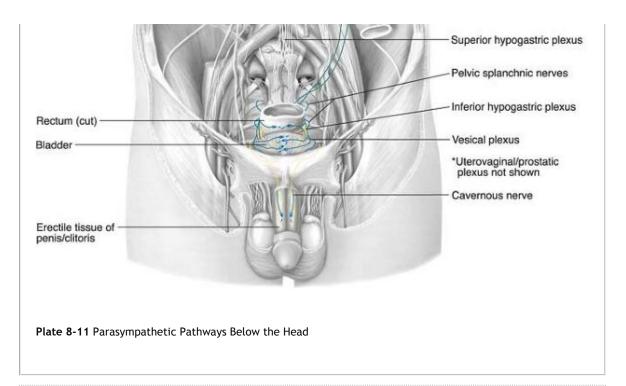
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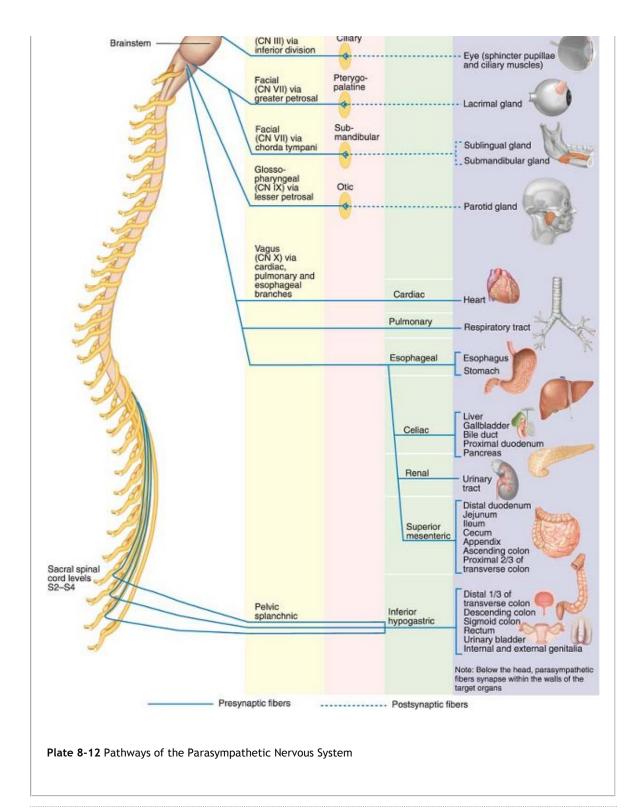


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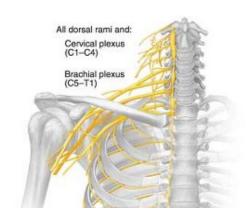
Sources of presynaptic parasympathetic fibers:

Nerves: Ganglia: Plexuses: Target organs:

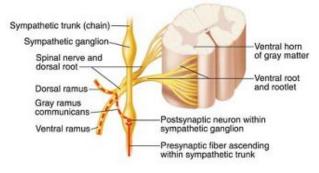
Oculomotor

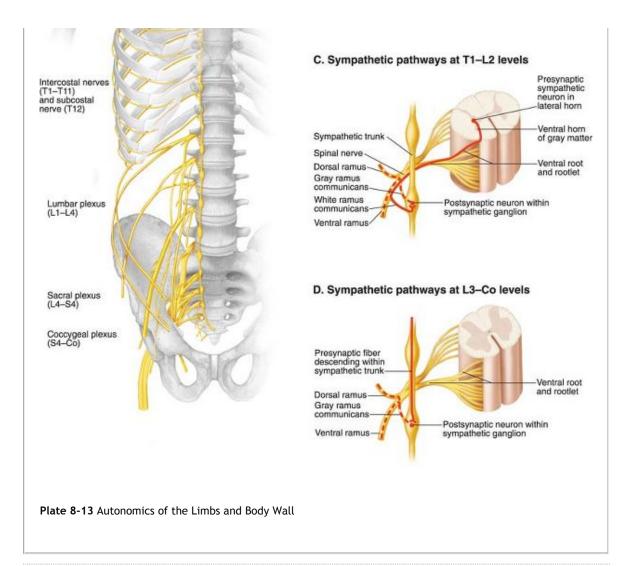


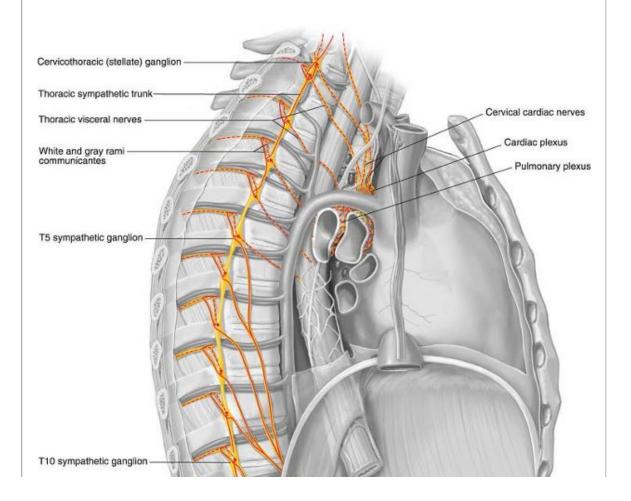
A. Nerves carrying sympathetic fibers to the limbs and body wall

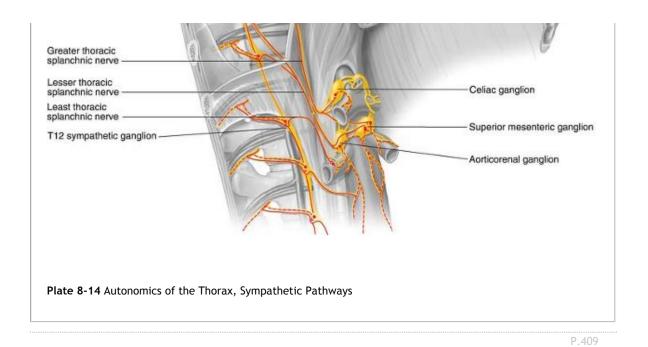


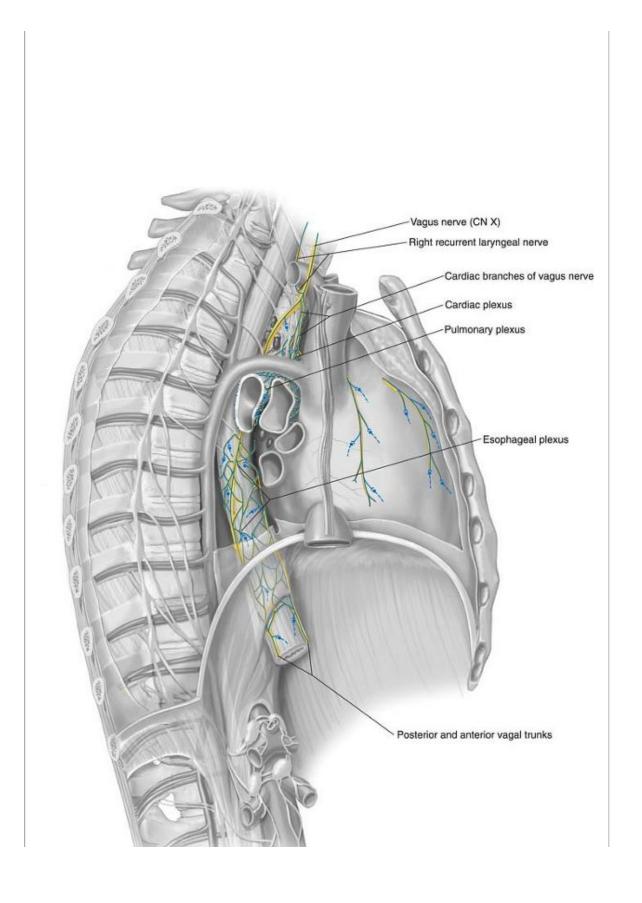
B. Sympathetic pathways at C1-C8 levels



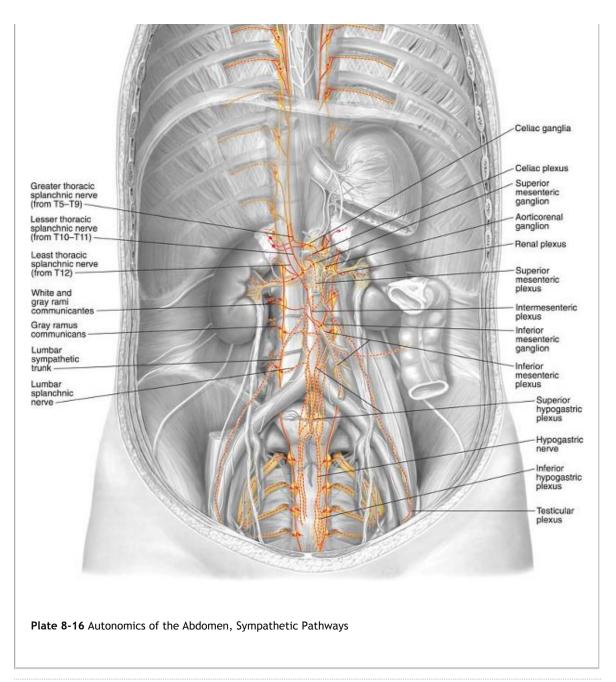


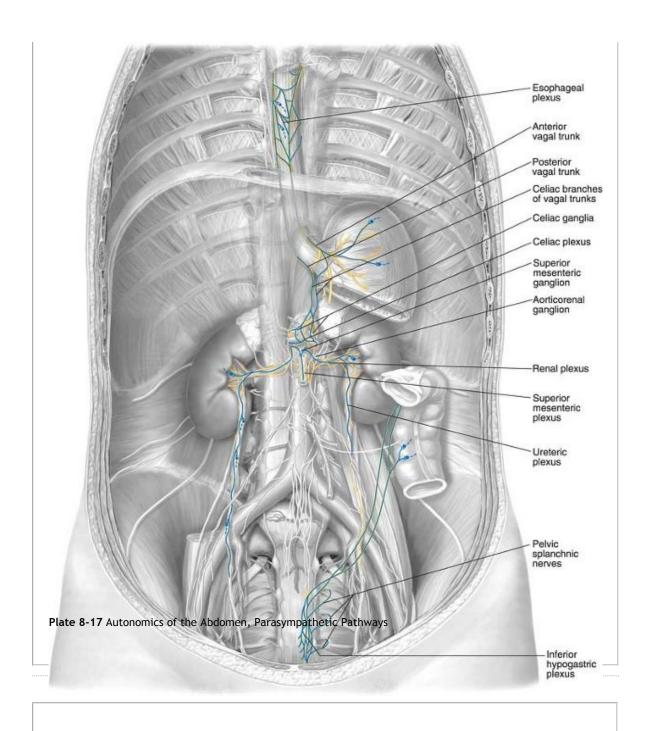


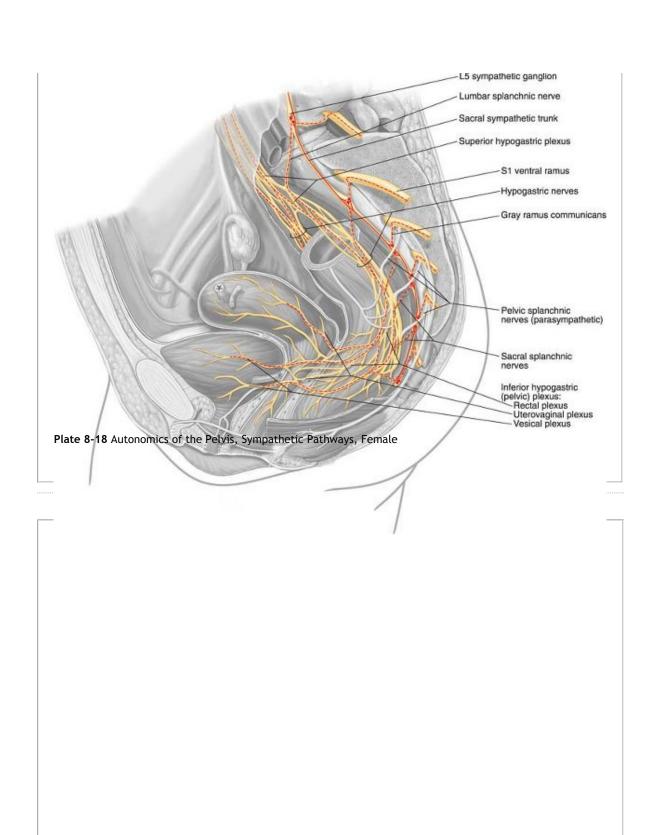


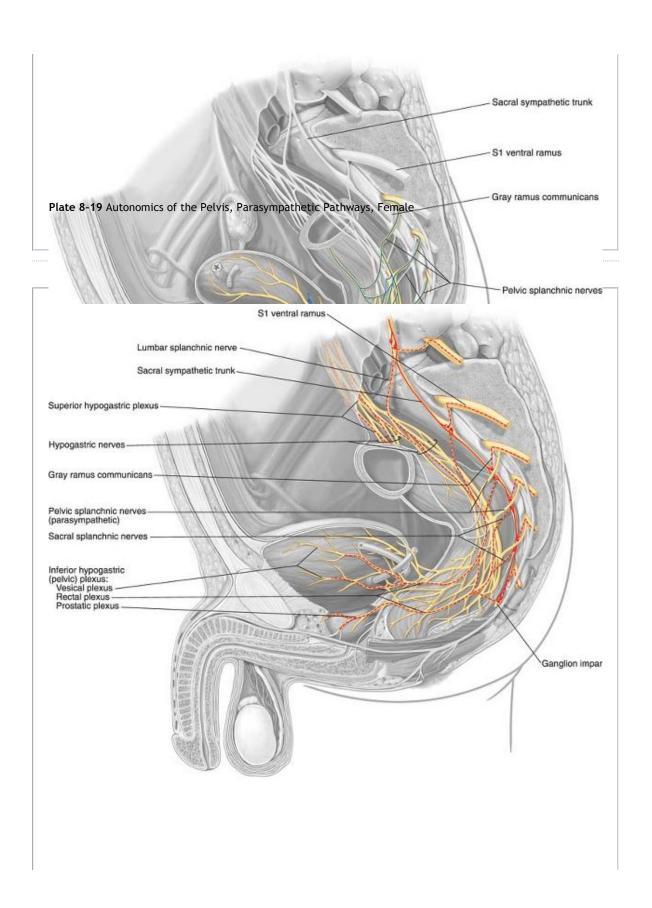


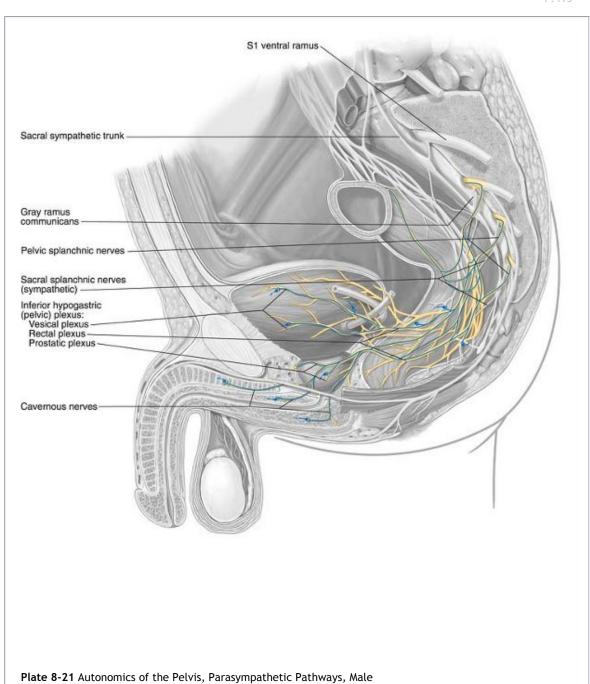


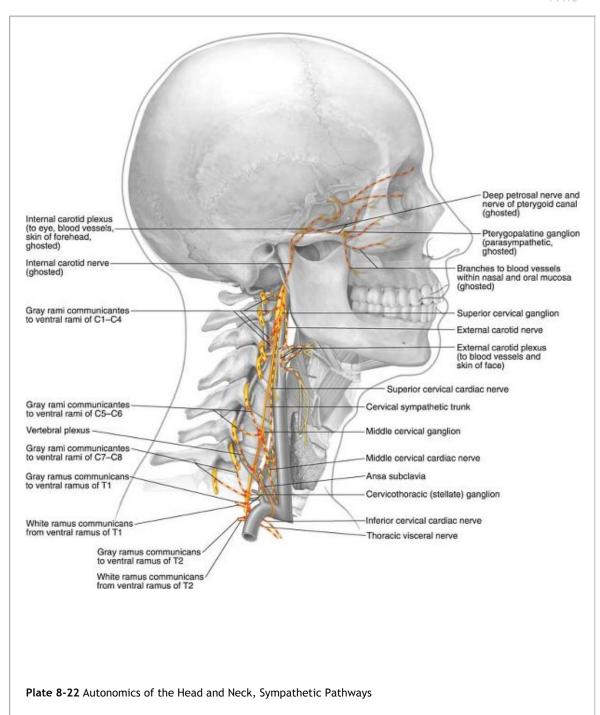












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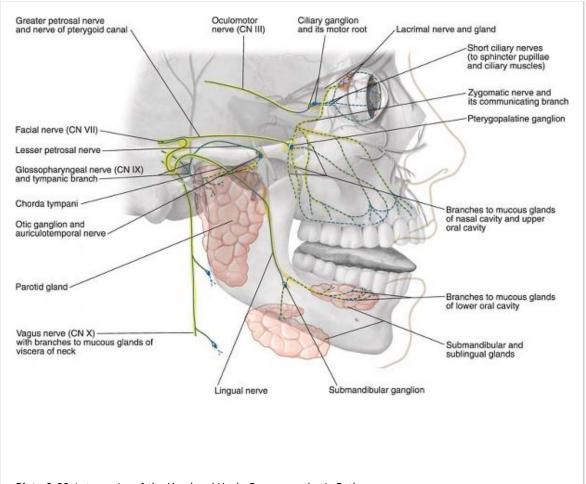


Plate 8-23 Autonomics of the Head and Neck, Parasympathetic Pathways