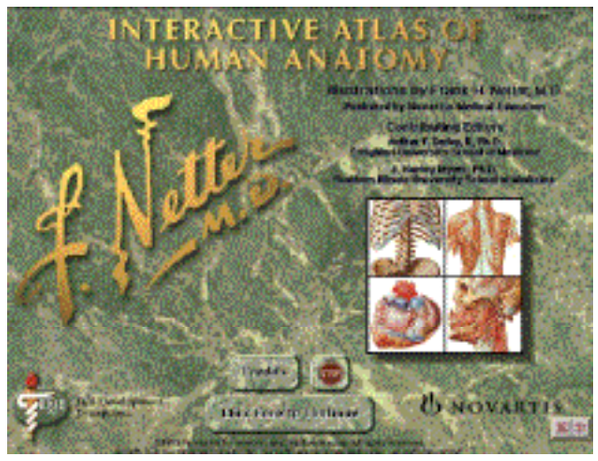
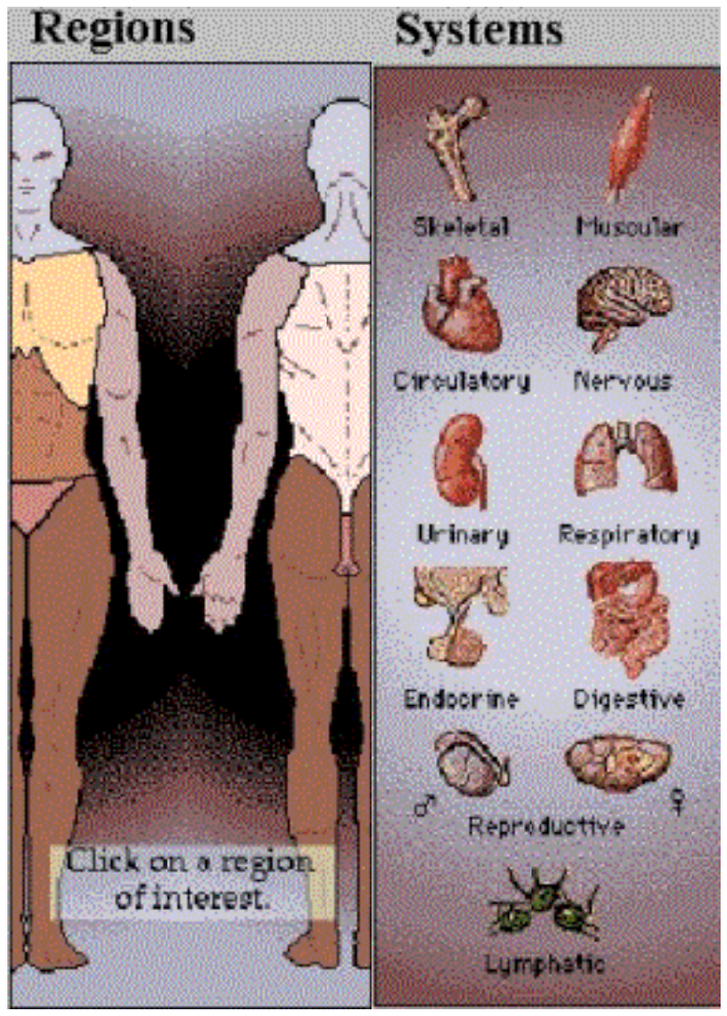


Netter for Isilo 3.0

Made by agoodbear(NDMC)

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==========

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Axial-Vetebral column
Axial-Ribs and sternum
Appendicular upper limb
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Throax
Back
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Upper limb(Forearm and Hand)
Lower limb(Hip and Thigh)
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Central: Spinal
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Sinuses/Nose
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438C Intrinsic Muscles of Hand: Deep Anterior [Palmar] View
442 Wrist and Hand: Deep Dorsal Dissection
443A Extensor Tendons at Wrist: Posterior [Dorsal] View
443B Extensor Tendons at Wrist: Cross Section at Proximal Wrist
444A Fingers: Sagittal Section
446 Arteries and Nerves of Upper Limb
448 Median Nerve
449 Ulnar Nerve
451A Radial Nerve in Forearm: Posterior View

Lower limb(Hip and Thigh) [Back to regiona]

460 Bony Attachments of Muscles of Hip and Thigh: Anterior View
461 Bony Attachments of Muscles of Hip and Thigh: Posterior View
462A Muscles of Thigh: Anterior View - Superficial Dissection
462B Muscles of Thigh: Anterior View - Deeper Dissection
463 Muscles of Thigh: Anterior View - Deepest Dissection
464 Muscles of Hip and Thigh: Lateral View
465A Muscles of Hip and Thigh: Posterior View - Superficial Dissection
465B Muscles of Hip and Thigh: Posterior View - Deeper Dissection
466B Psoas and Iliacus Muscles: Action
470A Arteries and Nerves of Thigh: Superficial Anterior View
470B Arteries and Nerves of Thigh: Deeper Anterior View
471 Arteries and Nerves of Thigh: Deepest Anterior View
472 Arteries and Nerves of Thigh: Posterior View
473 Nerves of Hip and Buttock
475A Thigh: Proximal Cross Section
475B Thigh: Middle Cross Section
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476A Knee: Lateral View
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477A Knee in Extension: Anterior View
484A Bony Attachments of Muscles of Leg: Anterior View
484B Bony Attachments of Muscles of Leg: Posterior View
506A Femoral and Lateral Femoral Cutaneous Nerves
507A Obturator Nerve
508A Sciatic and Posterior Femoral Cutaneous Nerves

Lower limb(Leg and Foot) [Back to regiona]

476A Knee: Lateral View
476B Knee: Medial View
477A Knee in Extension: Anterior View
484A Bony Attachments of Muscles of Leg: Anterior View
484B Bony Attachments of Muscles of Leg: Posterior View
485 Muscles of Leg [Superficial Dissection]: Posterior View
486 Muscles of Leg [Intermediate Dissection]: Posterior View
487 Muscles of Leg [Deep Dissection]: Posterior View
488 Muscles of Leg [Superficial Dissection]: Anterior View
489 Muscles of Leg [Deep Dissection]: Anterior View
490 Muscles of Leg: Lateral View
491A Leg: Cross Section - Fascial Compartments
491B Leg: Cross Section just above Middle of Left Leg
496A Ligaments and Tendons of Foot: Plantar View
497A Tendon Sheaths of Ankle: Lateral View
497B Tendon Sheaths of Ankle: Medial View
498 Muscles of Dorsum of Foot: Superficial Dissection
499 Dorsum of Foot: Deep Dissection
500 Sole of Foot: Superficial Dissection
501 Muscles of Sole of Foot: First Layer
502 Muscles of Sole of Foot: Second Layer
503 Muscles of Sole of Foot: Third Layer
504A Interosseous Muscles and Deep Arteries of Foot: Dorsal View
504B Interosseous Muscles and Deep Arteries of Foot: Plantar View
505A Interosseous Muscles of Foot: Dorsal View
505B Interosseous Muscles of Foot: Plantar View
508A Sciatic and Posterior Femoral Cutaneous Nerves
509A Tibial Nerve
509C Tibial Nerve: Cutaneous Innervation of Sole of Foot
510A Common Peroneal Nerve

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194 Pulmonary Arteries and Veins
200 Heart in Situ
201 Heart: Anterior Exposure
202A Heart - Basal Surface: Posterior View
202B Heart - Diaphragmatic Surface: Posteroinferior View
203A Pericardial Sac - Heart Drawn Out: Left Lateral View
203B Pericardial Sac - Heart Removed: Anterior View
204A Coronary Arteries and Cardiac Veins: Sternocostal Surface
204B Coronary Arteries and Cardiac Veins: Diaphragmatic Surface
205A Coronary Arteries and Cardiac Veins: Variations 1
205B Coronary Arteries and Cardiac Veins: Variations 2
206A Right Coronary Artery: Arteriographic View 1
206B Right Coronary Artery: Arteriographic View 2
207A Left Coronary Artery: Arteriographic View 1
207B Left Coronary Artery: Arteriographic View 2
208A Opened Right Atrium: Right Lateral View
208B Opened Right Ventricle: Anterior View
209A Left Ventricle: Flap Opened in Posterolateral Wall
209B Left Atrium and Ventricle: Sectioned with Mitral Valve Cut Away
210A Valves of Heart in Diastole
210B Valves of Heart in Systole
211A Aortic Valve
211B Tricuspid [Right Atrioventricular] Valve
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212 Atria Ventricles and Interventricular Septum
213A Conduction System of Heart: Right Side
213B Conduction System of Heart: Left Side
214 Nerves of Heart
215 Innervation of Heart: Schema
217A Prenatal Circulation
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218 Mediastinum: Right Lateral View
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230 Mediastinum: Cross Section
269A Topography of Liver: Anterior and Posterior Views

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14A External Craniocervical Ligaments: Anterior and Posterior Views
14B External Craniocervical Ligaments: Right Lateral View
17A Superficial Arteries and Veins of Face and Scalp
17B Superficial Face: Sources of Arterial Supply
23 Muscles of Neck: Anterior View
24A Infrahyoid and Suprahyoid Muscles
27A Cervical Plexus in Situ
28A Subclavian Artery: Right Anterior Dissection
28B Subclavian Artery: Right Lateral Schematic View
29A Carotid Arteries - Parotid Fossa: Right Lateral Dissection

29B External Carotid Artery and Branches: Schema
30A Fascial Layers of Neck: Cross Section
31B External Nose [Skeleton] in Situ: Lateral View
35A Maxillary Artery: Orbitomaxillary Distribution
35B Maxillary Artery: Nasopalatine Distribution
36 Arteries of Nasal Cavity: Schematic Hinge
41A Mandibular Nerve [V3]: Lateral View
41B Mandibular Nerve [V3]: Medial View
46A Roof of Mouth - Hard and Soft Palates: Anterior View
47C Floor of Mouth - Musculature: Posterosuperior View
53B Tongue and Related Structures: Sagittal Section
54A Tongue and Mouth: Horizontal Section - Superior View
54B Tongue and Mouth: Frontal Section - Anterior View
55A Salivary Glands: Dissection
58B Fauces: Pharyngeal Mucosa Removed
63 Arteries of Oral and Pharyngeal Regions
66 Lymph Vessels and Nodes of Oral and Pharyngeal Regions
67A Lymphatic Drainage of Pharynx: Posterior View
67B Lymphatic Drainage of Tongue: Lateral View
68A Thyroid Gland: Anterior View
69 Thyroid Gland and Pharynx: Posterior View
70A Parathyroid Glands: Posterior View
70B Parathyroid Glands: Right Lateral View
74B Nerves of Larynx: Anterior View
78B Fascia of Orbit and Eyeball: Frontal Section and Entering Structures
80A Arteries and Veins of Orbit and Eyelids: Superior View
80B Arteries and Veins of Orbit and Eyelids: Anterior View
86A Intrinsic Arteries and Veins of Eye: Horizontal Section
86B Intrinsic Arteries and Veins of Eye: Ophthalmoscopic View
93A Cartilage of Auditory Tube at Base of Skull: Inferior View
93B Auditory Tube - Section through Cartilage: Tube Closed
93C Auditory Tube - Section through Cartilage: Tube Open
94A Meninges and Diploic Veins: Coronal Dissection
95A Meningeal Arteries
95B Meningeal Arteries [Continued]
98A Venous Sinuses of Dura Mater: Cranial Floor - Superior View
98B Cavernous Sinus: Coronal Section
119 Glossopharyngeal Nerve: Schema
120 Vagus Nerve: Schema
124 Autonomic Nerves in Neck
125 Autonomic Nerves in Head
130 Arteries to Brain and Meninges
131 Arteries to Brain: Schema
132A Arteries of Brain: Inferior View
132B Arteries of Brain [Continued]: Inferior View
133A Circle of Willis - Vessels Dissected Out: Inferior View
133B Circle of Willis - Vessels in Situ: Inferior View
134A Arteries of Brain: Frontal View
134B Arteries of Brain: Frontal Section
135A Arteries of Brain: Lateral View
135B Arteries of Brain: Medial View
136 Arteries of Posterior Cranial Fossa
141 Arteries and Veins of Hypothalamus and Hypophysis
164 Suboccipital Triangle
186 Lungs in Situ: Anterior View

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28B Subclavian Artery: Right Lateral Schematic View
157 Arteries of Spinal Cord: Schema
158A Arteries of Spinal Cord - Intrinsic Distribution: Thoracic Section
158B Arteries of Spinal Cord - Intrinsic Distribution: Schema
177B Lateral Thoracic Wall
178 Posterior Thoracic Wall
179 Intercostal Nerves and Arteries
180 Diaphragm: Thoracic Surface
247 Arteries of Posterior Abdominal Wall
401A Scapulohumeral Dissection: Anterior View
401B Scapulohumeral Dissection: Posterior View

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25 Scalene and Prevertebral Muscles
28B Subclavian Artery: Right Lateral Schematic View
168 Arteries of Mammary Gland
174 Anterior Thoracic Wall
175 Anterior Thoracic Wall [Continued]
176 Anterior Thoracic Wall: Internal View
177B Lateral Thoracic Wall
179 Intercostal Nerves and Arteries
180 Diaphragm: Thoracic Surface
186 Lungs in Situ: Anterior View
193 Intrapulmonary Blood Circulation: Schema
194 Pulmonary Arteries and Veins
195 Main Bronchi With Pulmonary Arteries and Veins in Situ
196A Bronchial Arteries
196B Bronchial Arteries: Variations
200 Heart in Situ
201 Heart: Anterior Exposure
217A Prenatal Circulation
217B Postnatal Circulation
218 Mediastinum: Right Lateral View

219 Mediastinum: Left Lateral View
220 Esophagus in Situ
225A Arteries of Esophagus
230 Mediastinum: Cross Section
234 Anterior Abdominal Wall: Deep Dissection
238 Arteries of Anterior Abdominal Wall
402A Axillary Artery and Anastomoses Around Scapula: Anterior View
404 Axilla [Dissection]: Anterior View

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165 Lumbar Region of Back: Cross Section
181 Diaphragm: Abdominal Surface
217A Prenatal Circulation
217B Postnatal Circulation
225B Arteries of Esophagus: Variations
234 Anterior Abdominal Wall: Deep Dissection
236 Anterior Abdominal Wall: Internal View
238 Arteries of Anterior Abdominal Wall
243B Inguinal Region: Dissection - Posterior [Internal] View
244A Femoral Sheath and Inguinal Canal
244B Femoral Sheath and Inguinal Canal [Deep]
245 Inguinal Canal and Spermatic Cord
247 Arteries of Posterior Abdominal Wall
248 Veins of Posterior Abdominal Wall
253A Mesenteric Relations of Intestines: Transverse Colon Elevated
253B Mesenteric Relations of Intestines: Suspensory Muscle of Duodenum
256 Omental Bursa: Cross Section
257 Peritoneum of Posterior Abdominal Wall
261 Duodenum in Situ
263A Mucosa and Musculature of Jejunum
263B Mucosa and Musculature of Ileum
264A Ileocecal Region
264B Ileocecal Region: Retrocecal Recess Exposed
282 Arteries of Stomach Liver and Spleen
283 Arteries of Stomach Duodenum Pancreas and Spleen
284 Arteries of Liver Pancreas Duodenum and Spleen
285A Arteries of Duodenum and Head of Pancreas: Reflected to Left
285B Arteries of Duodenum and Head of Pancreas: Posterior View
286 Arteries of Small Intestine
287 Arteries of Large Intestine
288A Variations in Celiac Trunk
288B Variations in Celiac Trunk [Continued]
289A Variations in Hepatic Arteries
289B Variations in Hepatic Arteries [Continued]
290A Variations in Cystic Artery 1
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290C Variations in Cystic Artery 3
290D Variations in Cystic Artery 4
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291A Variations in Colic Arteries 1
291B Variations in Colic Arteries 2
291C Variations in Colic Arteries 3
291D Variations in Colic Arteries 4
291E Variations in Colic Arteries 5
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292A Variations in Colic Arteries 7
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292C Variations in Colic Arteries 9
292D Variations in Colic Arteries 10
292E Variations in Colic Arteries 11
292F Variations in Colic Arteries 12
293A Variations in Cecal and Appendicular Arteries 1
293B Variations in Cecal and Appendicular Arteries 2
293C Variations in Cecal and Appendicular Arteries 3
293D Variations in Cecal and Appendicular Arteries 4
293E Variations in Cecal and Appendicular Arteries 5
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301B Lymph Vessels and Nodes of Large Intestine [Continued]
304 Autonomic Nerves and Ganglia of Abdomen
315A Kidneys in Situ: Anterior View
318 Renal Artery and Vein in Situ
319A Intrarenal Arteries: Frontal Section of Left Kidney - Anterior View
320A Variations in Renal Artery
323A Ureters in Male: Anterior View
324 Arteries of Ureters and Urinary Bladder
328A Renal Fascia: Transverse Section through 2nd Lumbar Vertebra
329A Arteries and Veins of Right Suprarenal Gland in Situ
329B Arteries and Veins of Left Suprarenal Gland in Situ
330A Nerves of Suprarenal Glands: Dissection
331 Abdominal Wall and Viscera: Cross Section at T12
332 Abdominal Wall and Viscera: Cross Section Between L2 and L3
333A Abdominal Wall and Viscera [Above L4]: Midsagittal Section
333B Abdominal Wall and Viscera [Below L4]: Midsagittal Section
373 Arteries of Rectum and Anal Canal

Artery-Pelvis and perinum [Back to regiona]

242A Inguinal and Femoral Regions: Subcutaneous Fascia Removed
247 Arteries of Posterior Abdominal Wall
343 Pelvic Contents of Female: Superior View
344 Pelvic Contents of Male: Superior View
345 Endopelvic Fascia and Spaces of Female: Superior View
348A Pelvic Viscera of Female: Superior View - Peritoneum Intact
348B Pelvic Viscera of Female: Superior View - Peritoneum Removed
359B Section through Body of Penis
361A Urogenital Diaphragm of Male: Dissection
361B Urogenital Diaphragm of Male: Deep Dissection
368 Ischiorectal Fossa
373 Arteries of Rectum and Anal Canal
375 Arteries and Veins of Pelvic Organs: Female
376 Arteries and Veins of Testis
377A Arteries and Veins of Pelvis: Female - Sagittal Section
377B Arteries and Veins of Pelvis: Female - Right Paramedian Section
378A Arteries and Veins of Pelvis: Male - Left Paramedian Section
378B Arterial Supply of Prostate
379A Arteries and Veins of Perineum: Female
379B Arteries and Veins of Uterus
380A Arteries and Veins of Perineum: Male
380B Arteries and Veins of Perineum [Continued]: Male
381 Lymph Vessels and Nodes of Pelvis and Genitalia: Female
382 Lymph Vessels and Nodes of Perineum: Female
383A Lymph Vessels and Nodes of Pelvis and Genitalia: Male
383B Lymphatic Drainage from Prostate
384 Nerves of External Genitalia: Male
385 Nerves of Pelvic Viscera: Male
387A Nerves of Pelvic Viscera: Female - Sagittal Section
387B Nerves of Pelvic Viscera: Female - Superior View
389A Neuropathways in Parturition
389B Neuropathways in Parturition: Pelvic Area Enlarged
390 Innervation of Female Reproductive Organs: Schema
391 Innervation of Male Reproductive Organs: Schema
392 Innervation of Urinary Bladder and Lower Ureter: Schema
469B Sacral and Coccygeal Plexuses in Situ

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401A Scapulohumeral Dissection: Anterior View
401B Scapulohumeral Dissection: Posterior View
402A Axillary Artery and Anastomoses Around Scapula: Anterior View
402B Axillary Artery and Anastomoses Around Scapula: Posterior View
403A Pectoral Clavipectoral and Axillary Fasciae: Anterior View
403B Pectoral Clavipectoral and Axillary Fasciae: Section of Axilla
404 Axilla [Dissection]: Anterior View
406A Muscles of Arm: Anterior View - Superficial Layer
407A Muscles of Arm: Posterior View - Superficial Layer
407B Muscles of Arm: Posterior View - Deep Layer
408 Brachial Artery in Situ
409 Brachial Artery and Anastomoses Around Elbow
410A Arm: Proximal Cross Section
410B Arm: Middle Cross Section
410C Arm: Distal Cross Section
419 Muscles of Forearm [Deep Layer]: Posterior View
420 Muscles of Forearm [Superficial Layer]: Anterior View
421 Muscles of Forearm [Intermediate Layer]: Anterior View
422 Muscles of Forearm [Deep Layer]: Anterior View
423A Forearm: Proximal Cross Section
423B Forearm: Middle Cross Section
423C Forearm: Distal Cross Section
428A Ligaments of Wrist: Carpal Tunnel - Palmar View
432A Wrist and Hand: Superficial Palmar Dissections
432B Wrist and Hand: Superficial Palmar Dissections [Continued]
433A Wrist and Hand: Deeper Palmar Dissections
433B Wrist and Hand: Deeper Palmar Dissections [Continued]
434A Flexor Tendons Arteries and Nerves at Wrist: Palmar View
434B Flexor Tendons Arteries and Nerves at Wrist: Cross Section
438A Intrinsic Muscles of Hand: Anterior [Palmar] View
439A Arteries and Nerves of Hand: Palmar View
439B Arteries and Nerves of Hand: Deep Palmar View
440 Wrist and Hand: Superficial Radial Dissection
442 Wrist and Hand: Deep Dorsal Dissection
443A Extensor Tendons at Wrist: Posterior [Dorsal] View
444B Fingers: Cross Section through Distal Phalanx
444C Fingers: Arteries and Nerves

446 Arteries and Nerves of Upper Limb

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463 Muscles of Thigh: Anterior View - Deepest Dissection
465A Muscles of Hip and Thigh: Posterior View - Superficial Dissection
465B Muscles of Hip and Thigh: Posterior View - Deeper Dissection
470A Arteries and Nerves of Thigh: Superficial Anterior View
470B Arteries and Nerves of Thigh: Deeper Anterior View
471 Arteries and Nerves of Thigh: Deepest Anterior View
472 Arteries and Nerves of Thigh: Posterior View
474A Arteries of Femoral Head and Neck: Anterior and Posterior Views
474B Arteries of Femoral Head and Neck: Coronal Section
474C Arteries of Femoral Head and Neck: Femur of Child - Anterior View
474D Arteries of Femoral Head and Neck: Anterior View in Situ
475A Thigh: Proximal Cross Section
475B Thigh: Middle Cross Section
475C Thigh: Distal Cross Section
481 Arteries of Thigh and Knee: Schema
485 Muscles of Leg [Superficial Dissection]: Posterior View
486 Muscles of Leg [Intermediate Dissection]: Posterior View
487 Muscles of Leg [Deep Dissection]: Posterior View
488 Muscles of Leg [Superficial Dissection]: Anterior View
489 Muscles of Leg [Deep Dissection]: Anterior View
491B Leg: Cross Section just above Middle of Left Leg
498 Muscles of Dorsum of Foot: Superficial Dissection
499 Dorsum of Foot: Deep Dissection
500 Sole of Foot: Superficial Dissection
501 Muscles of Sole of Foot: First Layer
502 Muscles of Sole of Foot: Second Layer
503 Muscles of Sole of Foot: Third Layer
504A Interosseous Muscles and Deep Arteries of Foot: Dorsal View
504B Interosseous Muscles and Deep Arteries of Foot: Plantar View
514C Lymph Vessels and Nodes of Lower Limb: Inguinal Region

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23 Muscles of Neck: Anterior View
24A Infrahyoid and Suprahyoid Muscles
26 Superficial Veins and Cutaneous Nerves of Neck
27A Cervical Plexus in Situ
28A Subclavian Artery: Right Anterior Dissection
29A Carotid Arteries - Parotid Fossa: Right Lateral Dissection
30A Fascial Layers of Neck: Cross Section
53B Tongue and Related Structures: Sagittal Section
54A Tongue and Mouth: Horizontal Section - Superior View
54B Tongue and Mouth: Frontal Section - Anterior View
55A Salivary Glands: Dissection
58B Fauces: Pharyngeal Mucosa Removed
64 Veins of Oral and Pharyngeal Regions
66 Lymph Vessels and Nodes of Oral and Pharyngeal Regions
67A Lymphatic Drainage of Pharynx: Posterior View
67B Lymphatic Drainage of Tongue: Lateral View
68A Thyroid Gland: Anterior View
69 Thyroid Gland and Pharynx: Posterior View
70B Parathyroid Glands: Right Lateral View
78B Fascia of Orbit and Eyeball: Frontal Section and Entering Structures
80C Arteries and Veins of Orbit and Eyelids: Lateral View
86A Intrinsic Arteries and Veins of Eye: Horizontal Section
86B Intrinsic Arteries and Veins of Eye: Ophthalmoscopic View
92B Orientation of Labyrinth in Skull: Lateral Projection
94A Meninges and Diploic Veins: Coronal Dissection
94B Diploic and Emissary Veins of Skull
96A Meninges and Superficial Cerebral Veins: Frontal Section
96B Meninges and Superficial Cerebral Veins: Dura Mater Lifted
97 Venous Sinuses of Dura Mater: Sagittal Section
98A Venous Sinuses of Dura Mater: Cranial Floor - Superior View
98B Cavernous Sinus: Coronal Section
103 Circulation of Cerebrospinal Fluid
137 Veins of Posterior Cranial Fossa
138A Deep Veins of Brain - Dissection: Superior View
138B Deep Veins of Brain - Dissection: Inferior View
139 Subependymal Veins of Brain
141 Arteries and Veins of Hypothalamus and Hypophysis
174 Anterior Thoracic Wall
186 Lungs in Situ: Anterior View

Vein-Back and Spinal [Back to regiona]

159A Veins of Spinal Cord: Sagittal Section [without Cord]
159B Veins of Spinal Cord: Superior View [without Cord]
159C Veins of Spinal Cord: Superior View [Magnified with Cord]
177B Lateral Thoracic Wall
248 Veins of Posterior Abdominal Wall

Vein-Throax [Back to regiona]

25 Scalene and Prevertebral Muscles
176 Anterior Thoracic Wall: Internal View
177B Lateral Thoracic Wall
180 Diaphragm: Thoracic Surface

186 Lungs in Situ: Anterior View
194 Pulmonary Arteries and Veins
195 Main Bronchi With Pulmonary Arteries and Veins in Situ
196C Bronchial Veins
200 Heart in Situ
201 Heart: Anterior Exposure
217A Prenatal Circulation
217B Postnatal Circulation
218 Mediastinum: Right Lateral View
219 Mediastinum: Left Lateral View
226A Veins of Esophagus
226B Veins of Esophagus: Submucous Venous Plexus
230 Mediastinum: Cross Section
234 Anterior Abdominal Wall: Deep Dissection
239 Veins of Anterior Abdominal Wall

Vein-abdomen [Back to regional]

165 Lumbar Region of Back: Cross Section
217A Prenatal Circulation
217B Postnatal Circulation
226A Veins of Esophagus
234 Anterior Abdominal Wall: Deep Dissection
236 Anterior Abdominal Wall: Internal View
239 Veins of Anterior Abdominal Wall
243B Inguinal Region: Dissection - Posterior [Internal] View
244A Femoral Sheath and Inguinal Canal
244B Femoral Sheath and Inguinal Canal [Deep]
245 Inguinal Canal and Spermatic Cord
248 Veins of Posterior Abdominal Wall
253A Mesenteric Relations of Intestines: Transverse Colon Elevated
256 Omental Bursa: Cross Section
257 Peritoneum of Posterior Abdominal Wall
273A Intrahepatic Vascular and Duct Systems: Schema
274 Liver Structure: Schema
275A Intrahepatic Biliary System: Schema
279A Pancreas in Situ
294A Veins of Stomach Duodenum and Pancreas
294B Veins of Stomach Duodenum and Pancreas [Continued]
295A Veins of Small Intestine: Transverse Colon Cut
295B Veins of Small Intestine: Transverse Colon Elevated
296 Veins of Small and Large Intestines
297 Portal Vein Tributaries: Portacaval Anastomoses
298A Typical Arrangement of Portal Vein
298B Variations of Portal Vein
298C Variations of Portal Vein [Continued]
298D Anomalies of Portal Vein
315A Kidneys in Situ: Anterior View
318 Renal Artery and Vein in Situ
320B Variations in Renal Vein
320C Variations in Renal Vein [Continued]
323A Ureters in Male: Anterior View
324 Arteries of Ureters and Urinary Bladder
328A Renal Fascia: Transverse Section through 2nd Lumbar Vertebra
331 Abdominal Wall and Viscera: Cross Section at T12
332 Abdominal Wall and Viscera: Cross Section Between L2 and L3
333A Abdominal Wall and Viscera [Above L4]: Midsagittal Section
333B Abdominal Wall and Viscera [Below L4]: Midsagittal Section

Vein-Pelvis and perinum [Back to regional]

232 Anterior Abdominal Wall: Superficial Dissection
233 Anterior Abdominal Wall: Intermediate Dissection
242A Inguinal and Femoral Regions: Subcutaneous Fascia Removed
242B Inguinal and Femoral Regions: Cribriform Fascia Removed
248 Veins of Posterior Abdominal Wall
343 Pelvic Contents of Female: Superior View
344 Pelvic Contents of Male: Superior View
345 Endopelvic Fascia and Spaces of Female: Superior View
348A Pelvic Viscera of Female: Superior View - Peritoneum Intact
348B Pelvic Viscera of Female: Superior View - Peritoneum Removed
359B Section through Body of Penis
365A Scrotum and Contents: Anterior View
368 Ischiorectal Fossa
369 Rectum and Anal Canal
370B Anorectal Musculature: Frontal Section
374 Veins of Rectum and Anal Canal
375 Arteries and Veins of Pelvic Organs: Female
376 Arteries and Veins of Testis
377A Arteries and Veins of Pelvis: Female - Sagittal Section
377B Arteries and Veins of Pelvis: Female - Right Paramedian Section
378A Arteries and Veins of Pelvis: Male - Left Paramedian Section
379B Arteries and Veins of Uterus
381 Lymph Vessels and Nodes of Pelvis and Genitalia: Female
382 Lymph Vessels and Nodes of Perineum: Female
383A Lymph Vessels and Nodes of Pelvis and Genitalia: Male
383B Lymphatic Drainage from Prostate
384 Nerves of External Genitalia: Male
387A Nerves of Pelvic Viscera: Female - Sagittal Section
387B Nerves of Pelvic Viscera: Female - Superior View

Vein-Upper limb [Back to regional]

169 Lymph Vessels and Nodes of Mammary Gland
174 Anterior Thoracic Wall
175 Anterior Thoracic Wall [Continued]
399B Muscles of Shoulder: Anterior View
403A Pectoral Clavipectoral and Axillary Fasciae: Anterior View
403B Pectoral Clavipectoral and Axillary Fasciae: Section of Axilla
404 Axilla [Dissection]: Anterior View
410A Arm: Proximal Cross Section
410B Arm: Middle Cross Section
410C Arm: Distal Cross Section
423A Forearm: Proximal Cross Section
423B Forearm: Middle Cross Section
423C Forearm: Distal Cross Section
441 Wrist and Hand: Superficial Dorsal Dissection
452A Superficial Nerves and Veins of Shoulder and Arm: Anterior View
452B Superficial Nerves and Veins of Shoulder and Arm: Posterior View
453A Cutaneous Nerves and Superficial Veins of Forearm: Anterior (Palmar) View
453B Cutaneous Nerves and Superficial Veins of Forearm: Posterior (Dorsal) View

Vein-Lower limb [Back to regiona]

465A Muscles of Hip and Thigh: Posterior View - Superficial Dissection
465B Muscles of Hip and Thigh: Posterior View - Deeper Dissection
470A Arteries and Nerves of Thigh: Superficial Anterior View
470B Arteries and Nerves of Thigh: Deeper Anterior View
471 Arteries and Nerves of Thigh: Deepest Anterior View
472 Arteries and Nerves of Thigh: Posterior View
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514A Lymph Vessels and Nodes of Lower Limb: Anterior View
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99A Cerebrum: Lateral View
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100A Cerebrum - Brain in Situ: Sagittal Section - Medial View
100B Cerebrum - Hemisphere with Brainstem Excised: Medial View
101 Cerebrum: Inferior View
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104B Basal Ganglia - Schema: Left Lateral View
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109B Fourth Ventricle and Cerebellum: Median Sagittal Section
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111 Cranial Nerve Nuclei in Brainstem: Schema - Medial Dissection
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113A Olfactory Nerve: Schema
113B Olfactory Nerve - Olfactory Bulb Cells: Schema
114A Optic Nerve [Visual Pathway]: Schema
114B Optic Nerve [Visual Pathway] - Structure of Retina: Schema
115 Oculomotor Trochlear and Abducens Nerves: Schema
116 Trigeminal Nerve: Schema
117 Facial Nerve: Schema
118 Vestibulocochlear Nerve: Schema
119 Glossopharyngeal Nerve: Schema
120 Vagus Nerve: Schema
121 Accessory Nerve: Schema
122 Hypoglossal Nerve: Schema
126 Ciliary Ganglion: Schema
127 Pterygopalatine and Submandibular Ganglia: Schema
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129 Taste Pathways: Schema
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132A Arteries of Brain: Inferior View
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133A Circle of Willis - Vessels Dissected Out: Inferior View
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134A Arteries of Brain: Frontal View
134B Arteries of Brain: Frontal Section
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138B Deep Veins of Brain - Dissection: Inferior View
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128 Otic Ganglion: Schema
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149A Relation of Spinal Nerve Roots to Vertebrae
149B Relation of Spinal Nerve Roots to Vertebrae: Lateral Protrusion
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151A Spinal Cord Cross Sections
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154 Cholinergic and Adrenergic Synapses: Schema
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158A Arteries of Spinal Cord - Intrinsic Distribution: Thoracic Section
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19A Facial Nerve Branches and Parotid Gland in Situ
19B Facial Nerve Branches and Parotid Gland: Sectioned
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28A Subclavian Artery: Right Anterior Dissection
29A Carotid Arteries - Parotid Fossa: Right Lateral Dissection
30A Fascial Layers of Neck: Cross Section
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37 Nerves of Nasal Cavity: Schematic Hinge
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56A Afferent Innervation of Mouth and Pharynx: Anterior View
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58B Fauces: Pharyngeal Mucosa Removed
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74B Nerves of Larynx: Anterior View
78B Fascia of Orbit and Eyeball: Frontal Section and Entering Structures
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89A Tympanic Cavity - Lateral Wall: Medial View
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90C Right Membranous Labyrinth with Nerves: Posteromedial View
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110 Cranial Nerve Nuclei in Brainstem: Schema - Posterior Phantom View
111 Cranial Nerve Nuclei in Brainstem: Schema - Medial Dissection
112 Cranial Nerves [Motor and Sensory Distribution]: Schema
113A Olfactory Nerve: Schema
113B Olfactory Nerve - Olfactory Bulb Cells: Schema
114A Optic Nerve [Visual Pathway]: Schema
114B Optic Nerve [Visual Pathway] - Structure of Retina: Schema
115 Oculomotor, Trochlear and Abducens Nerves: Schema
116 Trigeminal Nerve: Schema
117 Facial Nerve: Schema
118 Vestibulocochlear Nerve: Schema
119 Glossopharyngeal Nerve: Schema
120 Vagus Nerve: Schema
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136 Arteries of Posterior Cranial Fossa
163 Nerves of Back
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199 Innervation of Tracheobronchial Tree: Schema
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27A Cervical Plexus in Situ
27B Cervical Plexus: Schema
28A Subclavian Artery: Right Anterior Dissection
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63 Arteries of Oral and Pharyngeal Regions
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68A Thyroid Gland: Anterior View
123 Cervical Plexus: Schema
147A Vertebral Ligaments of Lumbosacral Region: Left Lateral View
148 Spinal Cord in Situ
149A Relation of Spinal Nerve Roots to Vertebrae
149B Relation of Spinal Nerve Roots to Vertebrae: Lateral Protrusion
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155A Spinal Membranes and Nerve Roots: Posterior View
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156A Spinal Nerve Origin: Section through Thoracic Vertebra
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175 Anterior Thoracic Wall [Continued]
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195 Main Bronchi With Pulmonary Arteries and Veins in Situ
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244B Femoral Sheath and Inguinal Canal [Deep]
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307 Innervation of Stomach and Duodenum: Schema
308 Nerves of Small Intestine
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313C Innervation of Liver: Nerve Fibers around Fine Branch of Hepatic Artery
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314C Schema of Intrinsic Nerve Supply of Pancreas
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326 Nerves of Kidneys Ureters and Urinary Bladder
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330A Nerves of Suprarenal Glands: Dissection
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388A Nerves of Perineum and External Genitalia: Female
388B Block Anesthesia of Perineal Area: Primarily Pudendal Nerve
389A Neuropathways in Parturition
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390 Innervation of Female Reproductive Organs: Schema
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392 Innervation of Urinary Bladder and Lower Ureter: Schema
403B Pectoral Clavipectoral and Axillary Fasciae: Section of Axilla
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405 Brachial Plexus: Schema
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468A Lumbar Plexus: Schema
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423A Forearm: Proximal Cross Section
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428A Ligaments of Wrist: Carpal Tunnel - Palmar View
432A Wrist and Hand: Superficial Palmar Dissections
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434A Flexor Tendons Arteries and Nerves at Wrist: Palmar View
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455A Dermatomes of Upper Limb: Anterior View
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470A Arteries and Nerves of Thigh: Superficial Anterior View
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471 Arteries and Nerves of Thigh: Deepest Anterior View
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485 Muscles of Leg [Superficial Dissection]: Posterior View
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491B Leg: Cross Section just above Middle of Left Leg
498 Muscles of Dorsum of Foot: Superficial Dissection
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501 Muscles of Sole of Foot: First Layer
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509B Tibial Nerve: Plantar View
509C Tibial Nerve: Cutaneous Innervation of Sole of Foot
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510B Common Peroneal Nerve: Cutaneous Innervation
511A Dermatomes of Lower Limb: Anterior and Posterior Views
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512 Superficial Nerves and Veins of Lower Limb: Anterior View
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447 Musculocutaneous Nerve
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451A Radial Nerve in Forearm: Posterior View
454A Cutaneous Innervation of Upper Limb: Anterior [Palmar] View
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40 Ophthalmic and Maxillary Nerves
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49B Muscles Involved in Mastication [Deep]: Posterior View
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117 Facial Nerve: Schema
118 Vestibulocochlear Nerve: Schema

119 Glossopharyngeal Nerve: Schema
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124 Autonomic Nerves in Neck
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126 Ciliary Ganglion: Schema
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128 Otic Ganglion: Schema
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153 Autonomic Nervous System: Schema
154 Cholinergic and Adrenergic Synapses: Schema
179 Intercostal Nerves and Arteries
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310A Innervation of Small and Large Intestines: Left Side of Schema
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311 Autonomic Reflex Pathways: Schema
312 Intrinsic Autonomic Plexuses of Intestine: Schema
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313C Innervation of Liver: Nerve Fibers around Fine Branch of Hepatic Artery
314A Common Areas of Pancreatic Pain
314B Innervation of Pancreas: Schema
314C Schema of Intrinsic Nerve Supply of Pancreas
326 Nerves of Kidneys Ureters and Urinary Bladder
327 Innervation of Kidneys and Upper Ureters: Schema
384 Nerves of External Genitalia: Male
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387A Nerves of Pelvic Viscera: Female - Sagittal Section
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388A Nerves of Perineum and External Genitalia: Female
388B Block Anesthesia of Perineal Area: Primarily Pudendal Nerve
389A Neuropathways in Parturition
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390 Innervation of Female Reproductive Organs: Schema
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115 Oculomotor, Trochlear and Abducens Nerves: Schema
116 Trigeminal Nerve: Schema
117 Facial Nerve: Schema
118 Vestibulocochlear Nerve: Schema
119 Glossopharyngeal Nerve: Schema
120 Vagus Nerve: Schema
121 Accessory Nerve: Schema
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329B Arteries and Veins of Left Suprarenal Gland in Situ
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196A Bronchial Arteries
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330A Nerves of Suprarenal Glands: Dissection
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280A Variations in Pancreatic Ducts
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284 Arteries of Liver Pancreas Duodenum and Spleen
285A Arteries of Duodenum and Head of Pancreas: Reflected to Left
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371A External Anal Sphincter Muscle of Male: Perineal View
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350A Uterus and Adnexa: Posterior View
350B Uterus and Adnexa: Frontal Section
353A Infant Ovary and Ripening Follicle: Histology
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48A Muscles Involved in Mastication: Lateral View
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50A Teeth - Deciduous and Permanent: Age of Eruptions
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70A Parathyroid Glands: Posterior View
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294A Veins of Stomach Duodenum and Pancreas
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306A Nerves of Stomach and Duodenum: View with Stomach Reflected
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333A Abdominal Wall and Viscera [Above L4]: Midsagittal Section
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165 Lumbar Region of Back: Cross Section
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253A Mesenteric Relations of Intestines: Transverse Colon Elevated
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261 Duodenum in Situ
262A Mucosa of Duodenum
262B Musculature of Duodenum: Layers of Wall
263A Mucosa and Musculature of Jejunum
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264A Ileocecal Region
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264C Ileocecal Region: Variations in Posterior Peritoneal Attachment
265A Ileocecal Region: Labial Form of Ileocecal Sphincter
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266A Vermiform Appendix: Variations in Position
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278D Variations in Union of Bile and Pancreatic Ducts
279A Pancreas in Situ
283 Arteries of Stomach Duodenum Pancreas and Spleen
284 Arteries of Liver Pancreas Duodenum and Spleen
285A Arteries of Duodenum and Head of Pancreas: Reflected to Left
285B Arteries of Duodenum and Head of Pancreas: Posterior View
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306A Nerves of Stomach and Duodenum: View with Stomach Reflected
307 Innervation of Stomach and Duodenum: Schema

308 Nerves of Small Intestine
310A Innervation of Small and Large Intestines: Left Side of Schema
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333A Abdominal Wall and Viscera [Above L4]: Midsagittal Section
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257 Peritoneum of Posterior Abdominal Wall
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264A Ileocecal Region
264B Ileocecal Region: Retrocecal Recess Exposed
264C Ileocecal Region: Variations in Posterior Peritoneal Attachment
265A Ileocecal Region: Labial Form of Ileocecal Sphincter
265B Ileocecal Region: Papillary Form of Ileocecal Sphincter
265C Ileocecal Region: Schema of Muscle Fibers at Ileocecal Sphincter
266A Vermiform Appendix: Variations in Position
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268A Sigmoid Colon: Variations in Position
268B Sigmoid Colon [Continued]: Variations in Position
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291A Variations in Colic Arteries 1
291B Variations in Colic Arteries 2
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291D Variations in Colic Arteries 4
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310A Innervation of Small and Large Intestines: Left Side of Schema
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311 Autonomic Reflex Pathways: Schema
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328A Renal Fascia: Transverse Section through 2nd Lumbar Vertebra
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333A Abdominal Wall and Viscera [Above L4]: Midsagittal Section
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341A Pelvic Viscera and Perineum of Female: Midsagittal Section
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342A Pelvic Viscera and Perineum of Male: Paramedian Sagittal Section
342B Pelvic Viscera and Perineum of Male: Midsagittal Section
343 Pelvic Contents of Female: Superior View
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346A Urinary Bladder - Orientation and Supports: Midsagittal Section
367A Rectum of Male in Situ
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368 Ischiorectal Fossa
369 Rectum and Anal Canal
370A Anorectal Musculature: Anterior View
370B Anorectal Musculature: Frontal Section
373 Arteries of Rectum and Anal Canal
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252B Greater Omentum and Abdominal Viscera: Omentum Raised
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270A Surfaces and Bed of Liver: Anterior View
270B Surfaces and Bed of Liver: Visceral Surface
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271A Liver in Situ
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273A Intrahepatic Vascular and Duct Systems: Schema
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275B Intrahepatic Biliary System: Histology
276A Gallbladder and Extrahepatic Bile Ducts
276B Gallbladder and Extrahepatic Bile Ducts: Sectioned
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338A Pelvic Diaphragm of Female: Inferior View
338B Pelvic Diaphragm of Female: Lateral View
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348A Pelvic Viscera of Female: Superior View - Peritoneum Intact
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283 Arteries of Stomach Duodenum Pancreas and Spleen
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382 Lymph Vessels and Nodes of Perineum: Female
383A Lymph Vessels and Nodes of Pelvis and Genitalia: Male
383B Lymphatic Drainage from Prostate

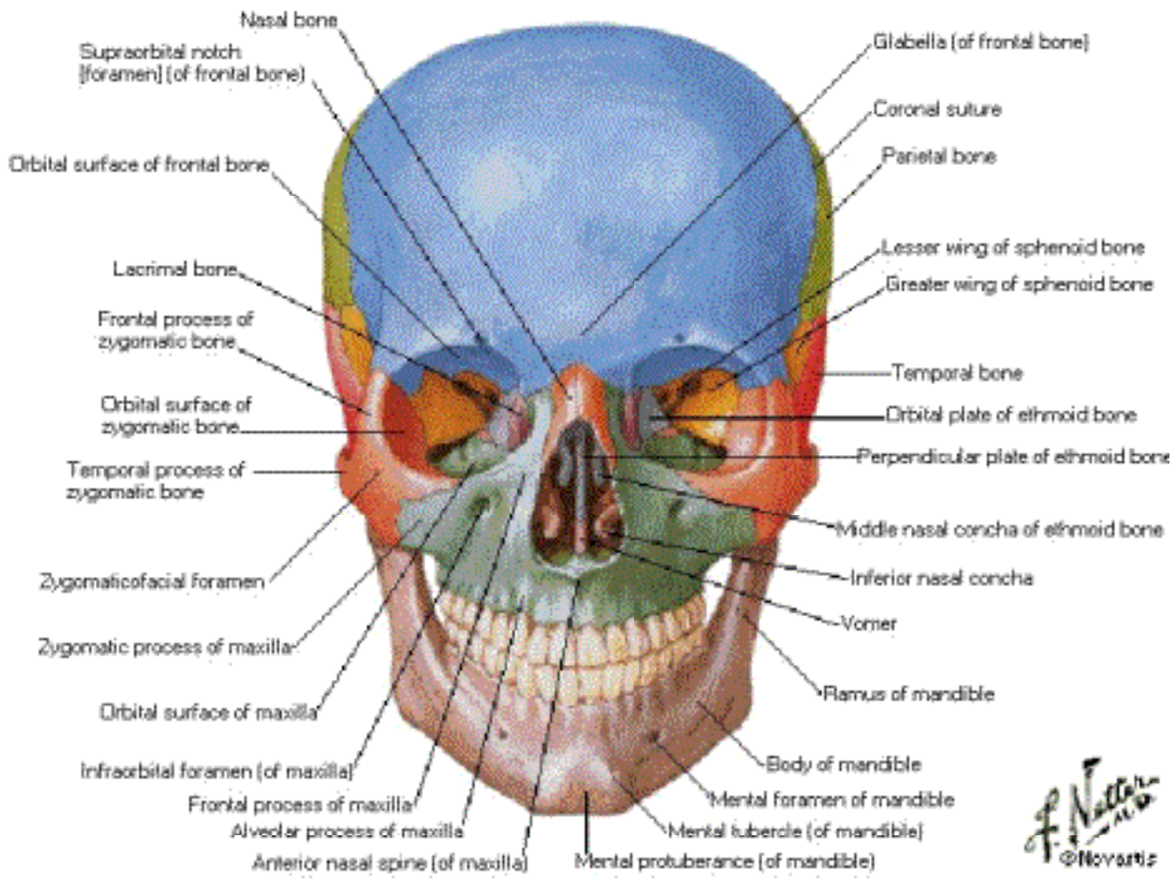
Limbs [Back to regional]

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514C Lymph Vessels and Nodes of Lower Limb: Inguinal Region

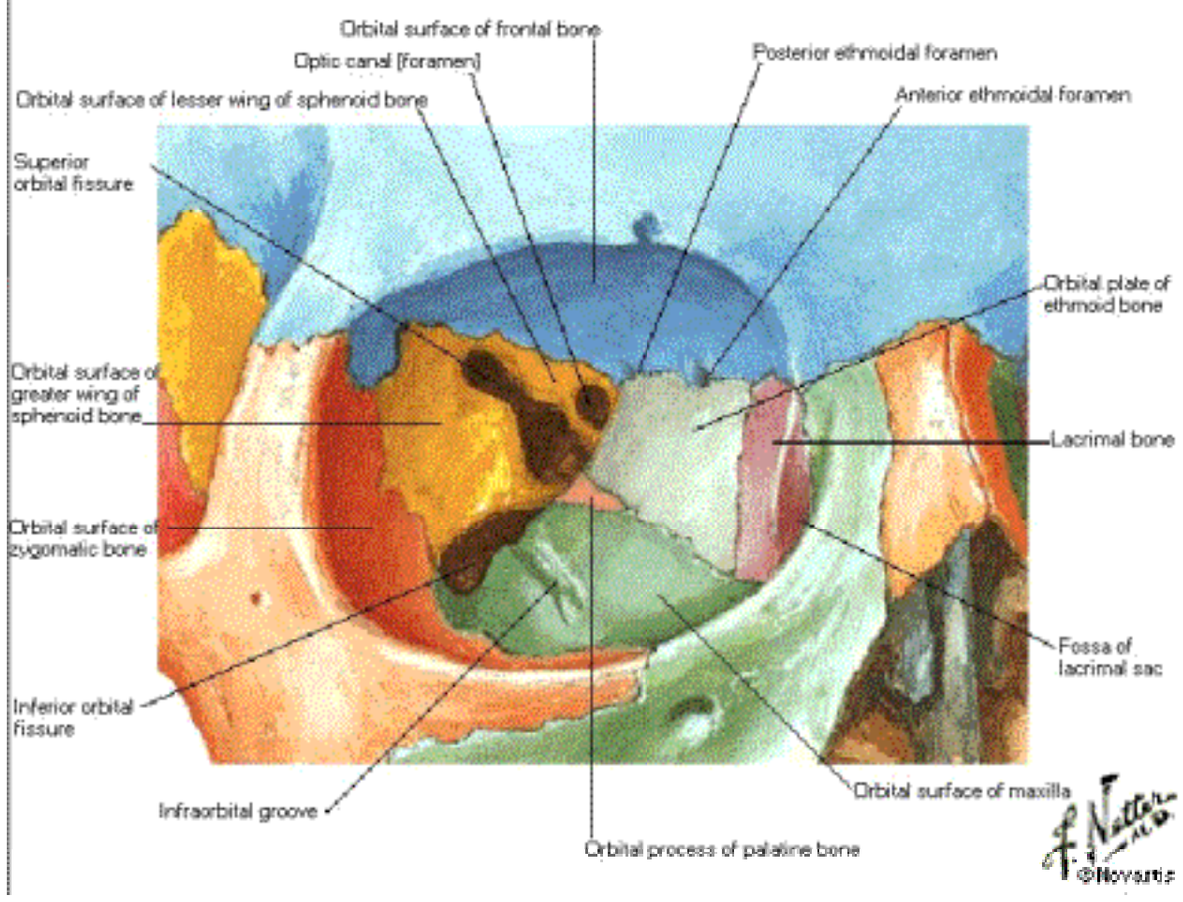
Skull

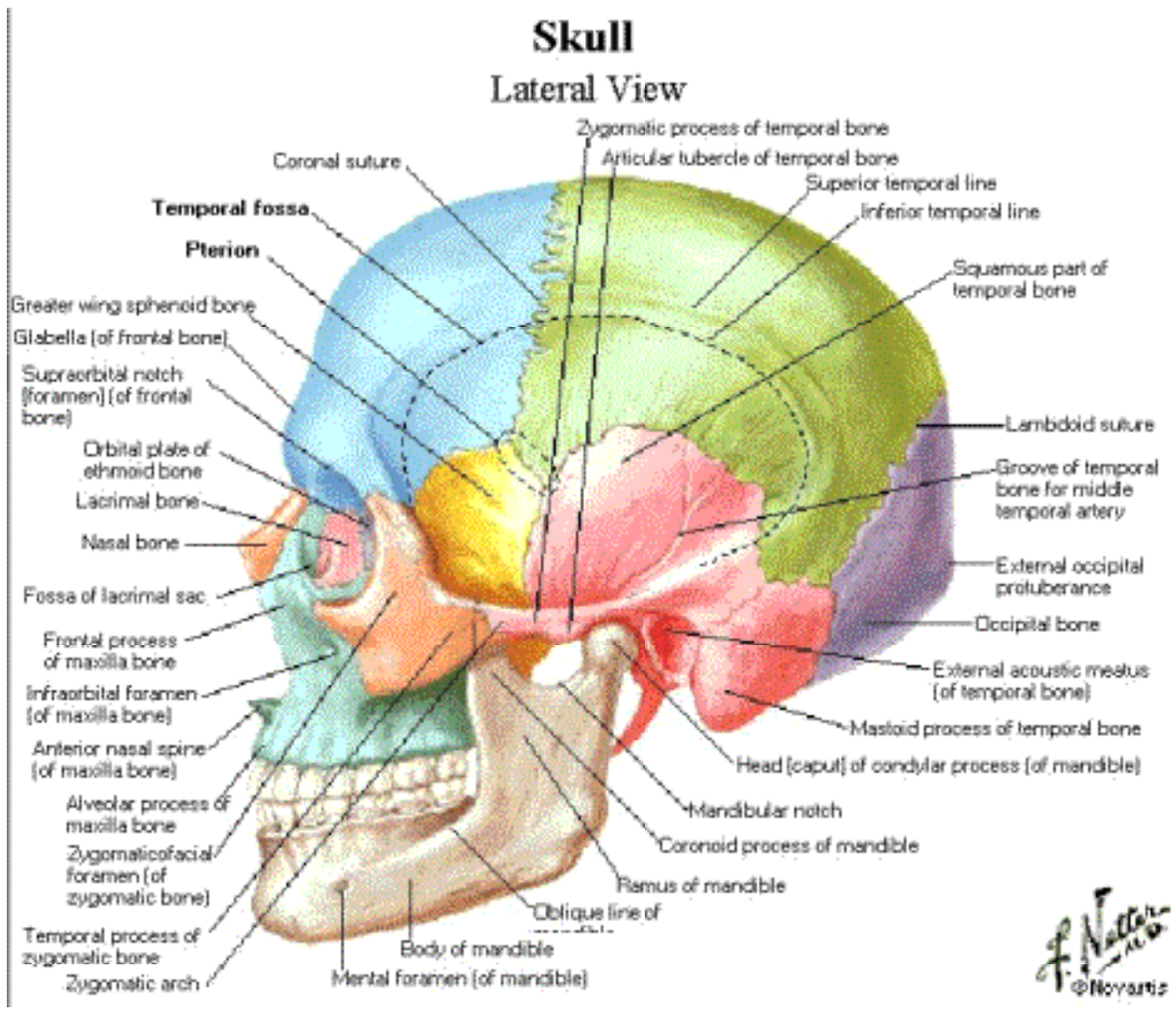
Anterior View



Right Orbit

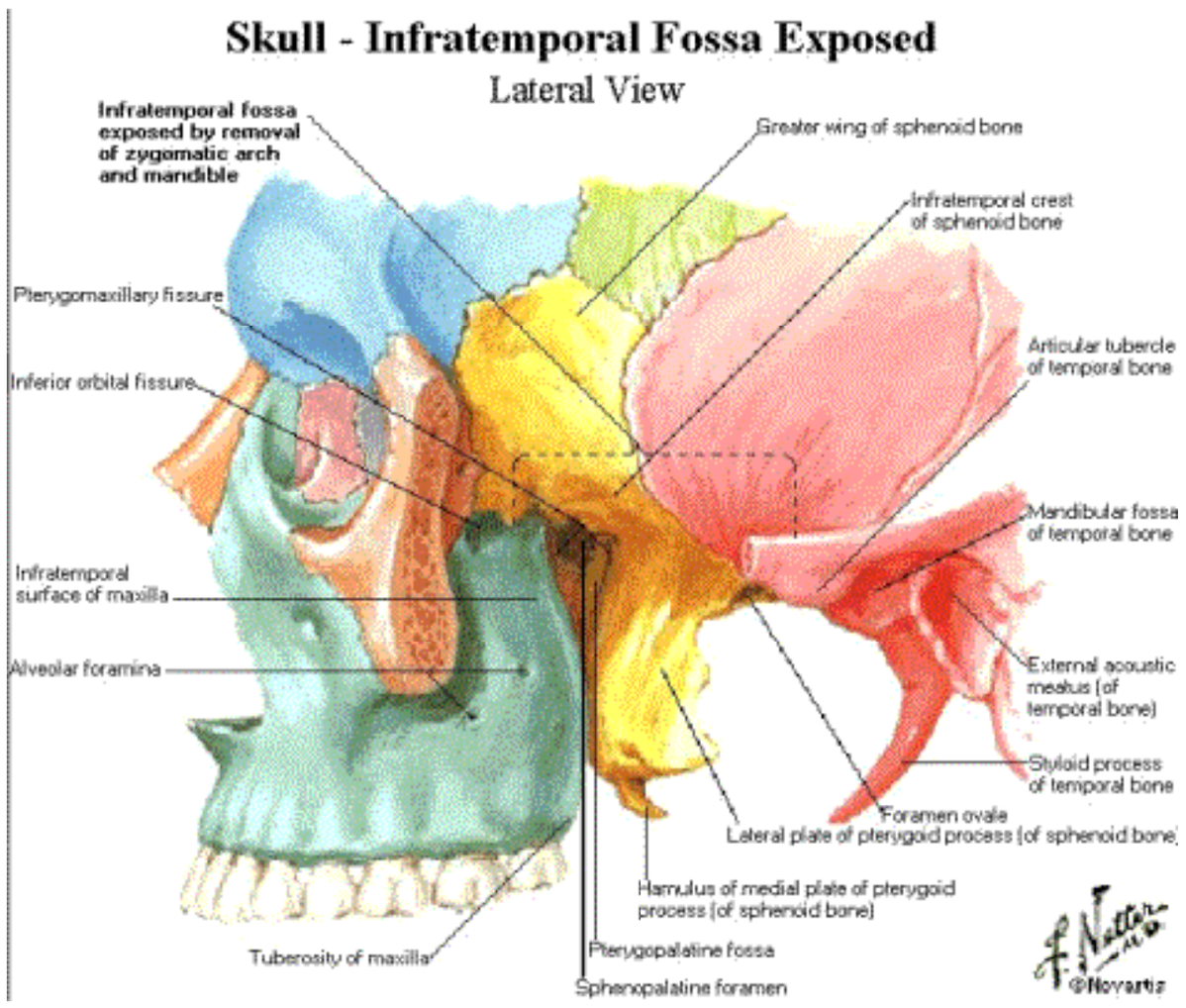
Frontal and Slightly Lateral View

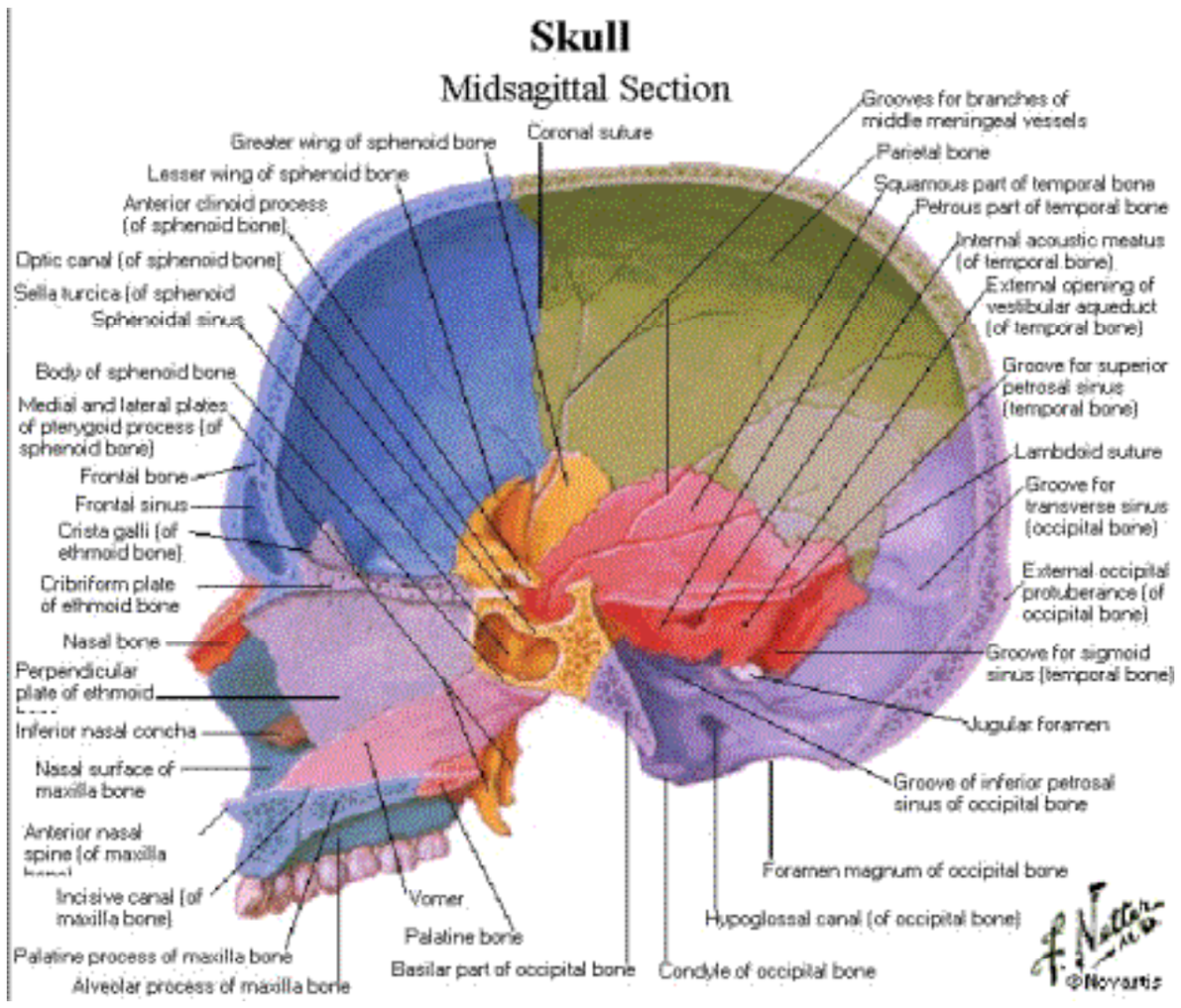



Skull
Lateral View
Zygomatic process of temporal bone
Articular tubercle of temporal bone
Coronal suture
Superior temporal line
Temporal fossa
Inferior temporal line
Pterion
Squamous part of temporal bone
Greater wing sphenoid bone
Glabella (of frontal bone)
Supraorbital notch (foramen) (of frontal bone)
Lambdoid suture
Orbital plate of ethmoid bone
Groove of temporal bone for middle temporal artery
Lacrimal bone
Nasal bone
External occipital protuberance
Fossa of lacrimal sac
Occipital bone
Frontal process of maxilla bone
External acoustic meatus (of temporal bone)
Infraorbital foramen (of maxilla bone)
Mastoid process of temporal bone
Anterior nasal spine (of maxilla bone)
Head (caput) of condylar process (of mandible)
Alveolar process of maxilla bone
Mandibular notch
Zygomaticofacial foramen (of zygomatic bone)
Coronoid process of mandible
Ramus of mandible
Oblique line of
Temporal process of zygomatic bone
Body of mandible
Zygomatic arch
Mental foramen (of mandible)
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Skull - Infratemporal Fossa Exposed

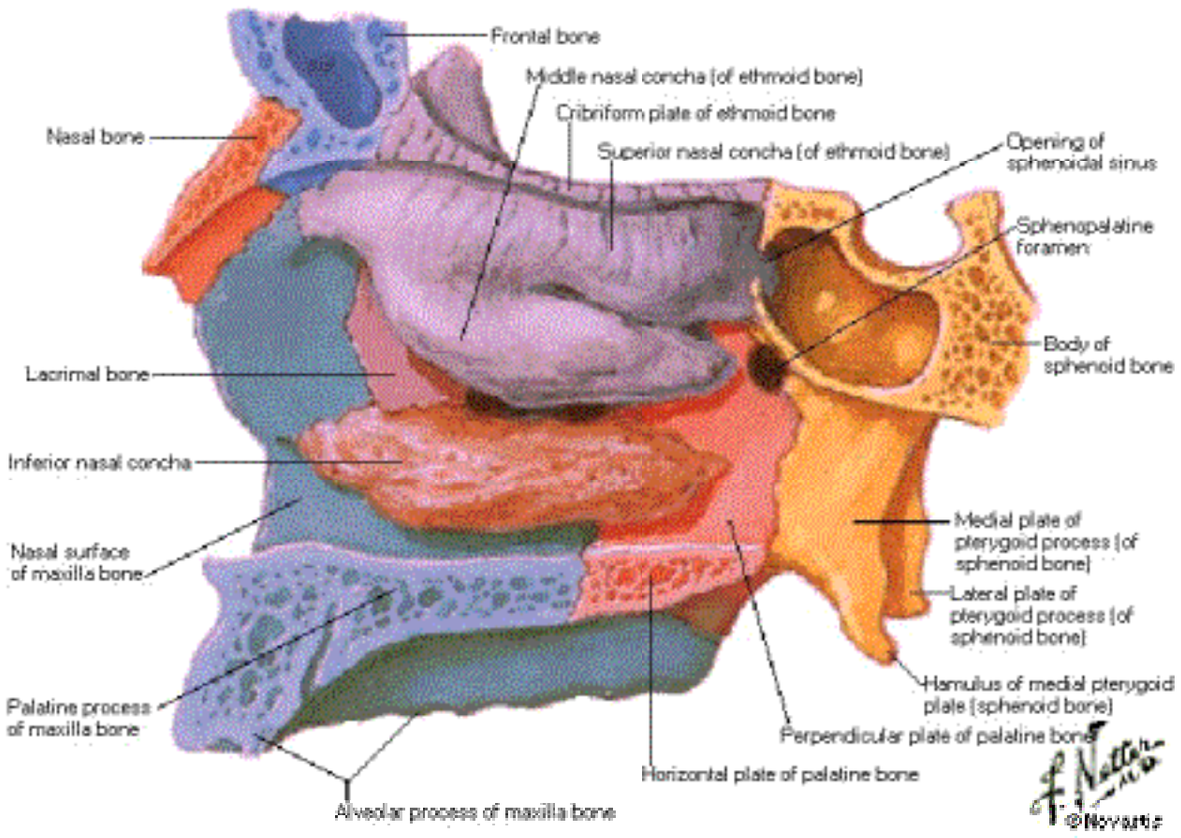
Lateral View




Skull
Midsagittal Section
Greater wing of sphenoid bone
Lesser wing of sphenoid bone
Anterior clinoid process (of sphenoid bone)
Optic canal (of sphenoid bone)
Sella turcica (of sphenoid
Sphenoidal sinus
Body of sphenoid bone
Medial and lateral plates of pterygoid process (of sphenoid bone)
Frontal bone
Frontal sinus
Crista galli (of ethmoid bone)
Cribriform plate of ethmoid bone
Nasal bone
Perpendicular plate of ethmoid
Inferior nasal concha
Nasal surface of maxilla bone
Anterior nasal spine (of maxilla
Incisive canal (of maxilla bone)
Palatine process of maxilla bone
Alveolar process of maxilla bone
Coronal suture
Vomer
Palatine bone
Basilar part of occipital bone
Grooves for branches of middle meningeal vessels
Parietal bone
Squamous part of temporal bone
Petrous part of temporal bone
Internal acoustic meatus (of temporal bone)
External opening of vestibular aqueduct (of temporal bone)
Groove for superior petrosal sinus (temporal bone)
Lambdoid suture
Groove for transverse sinus (occipital bone)
External occipital protuberance (of occipital bone)
Groove for sigmoid sinus (temporal bone)
Jugular foramen
Groove of inferior petrosal sinus of occipital bone
Foramen magnum of occipital bone
Hypoglossal canal (of occipital bone)
Condyle of occipital bone
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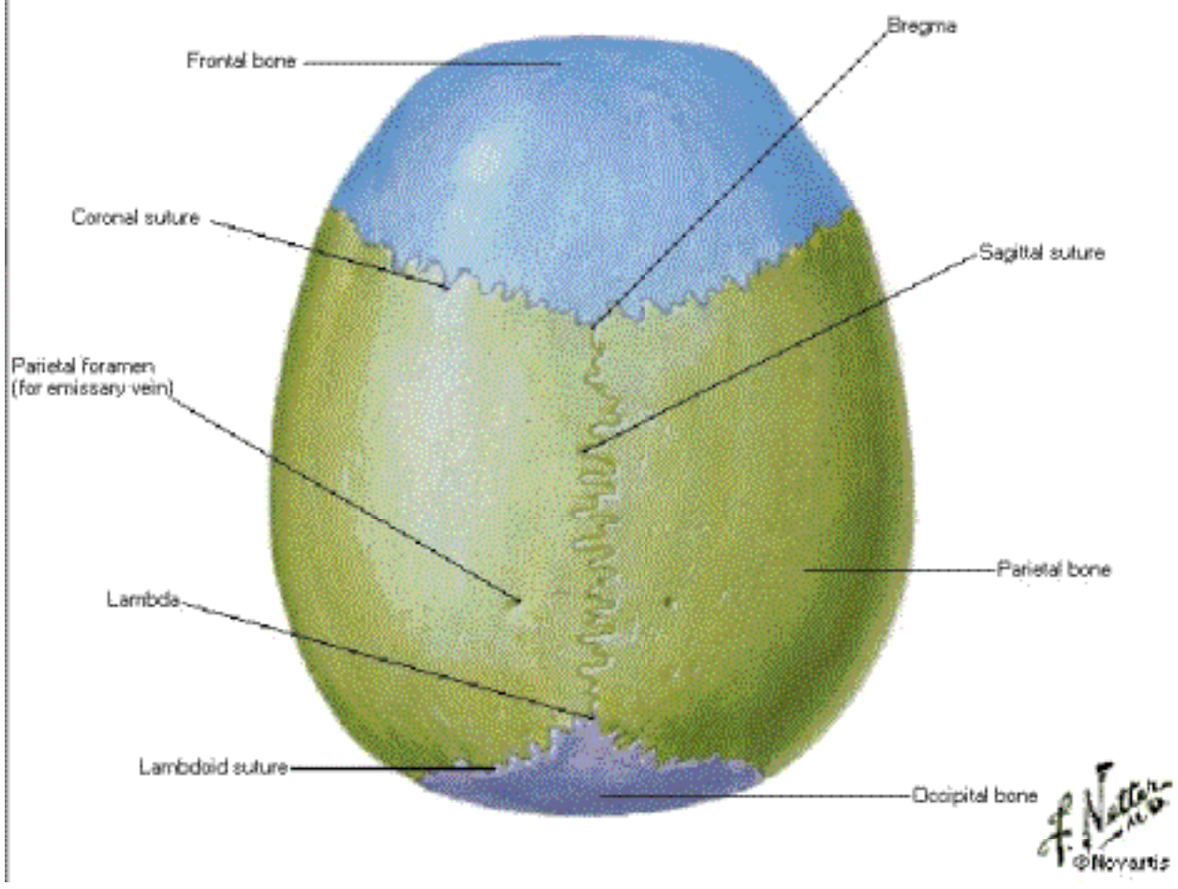
Skull - Nasal Conchae Exposed

Sagittal Section



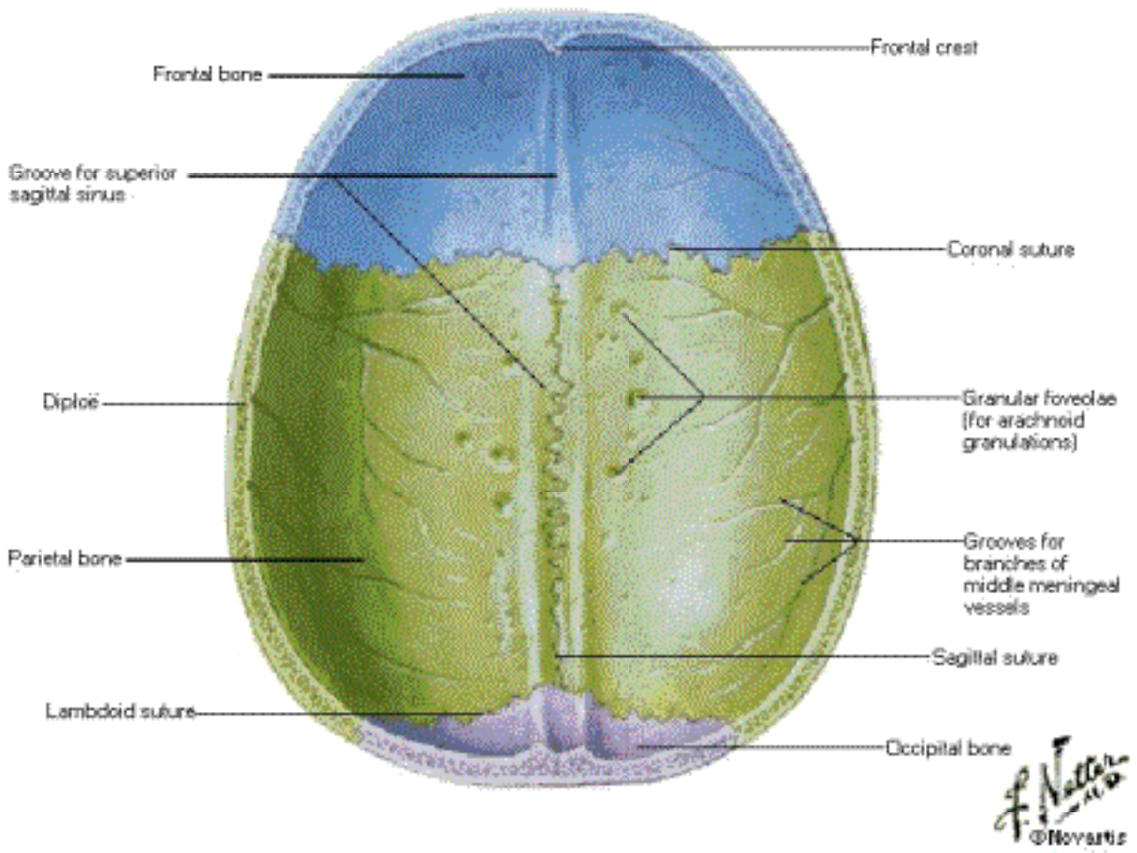
Calvaria

Superior View



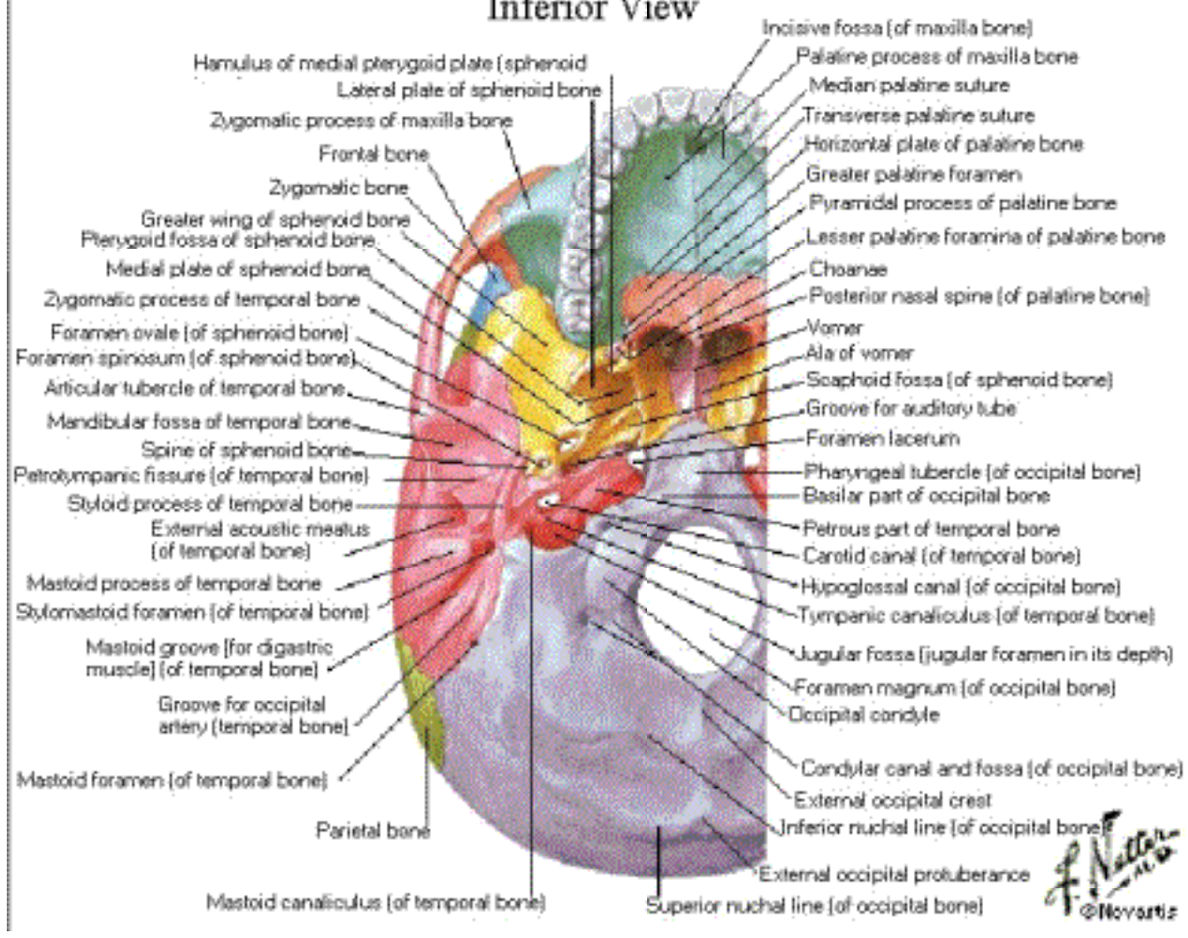
Calvaria

Inferior View



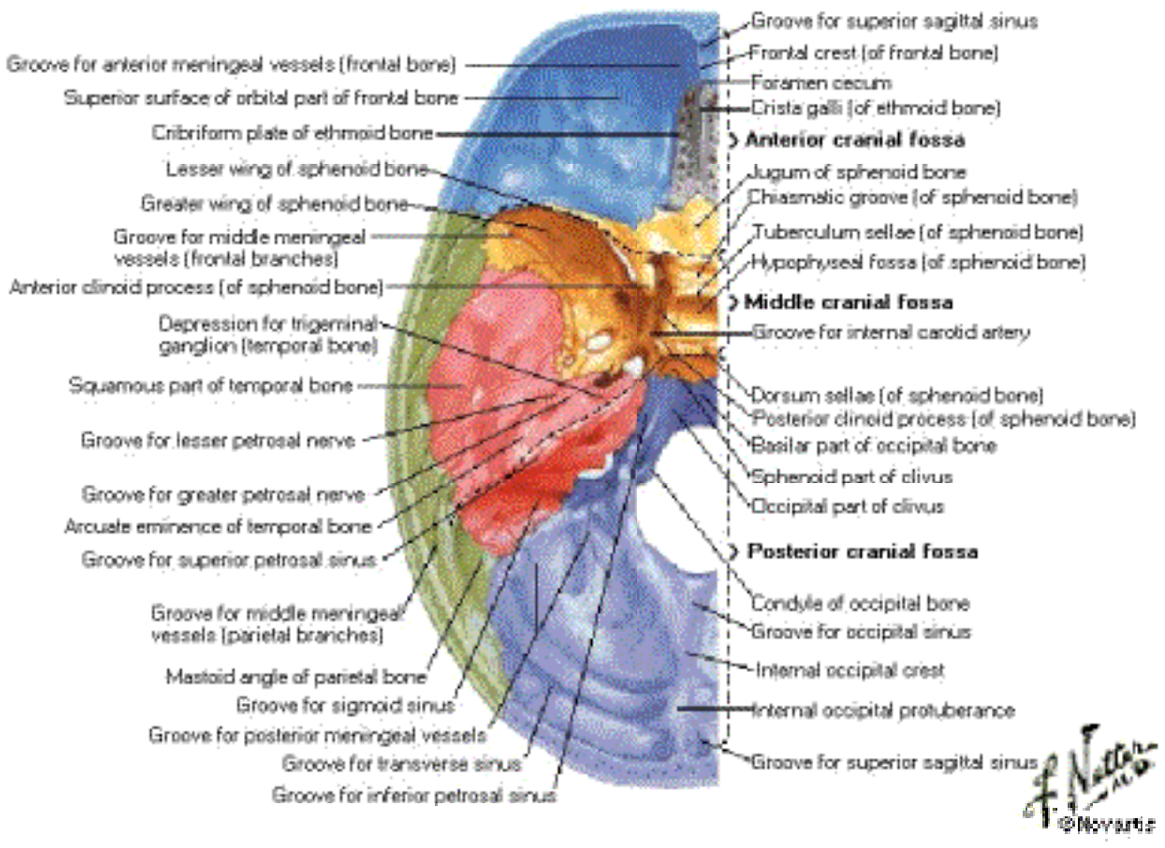
Cranial Base

Inferior View



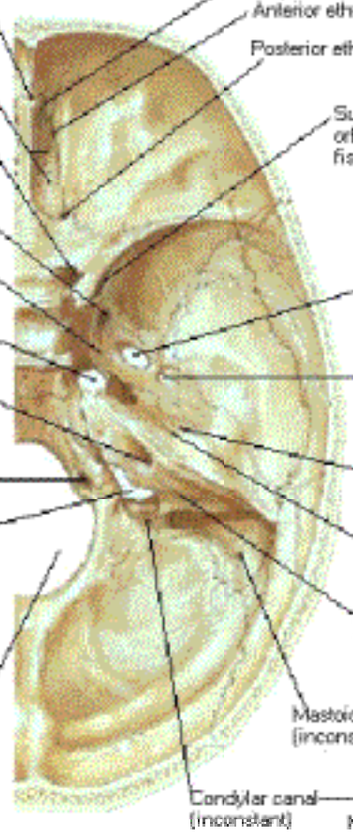
Bones of Cranial Base

Superior View



Foramina of Cranial Base

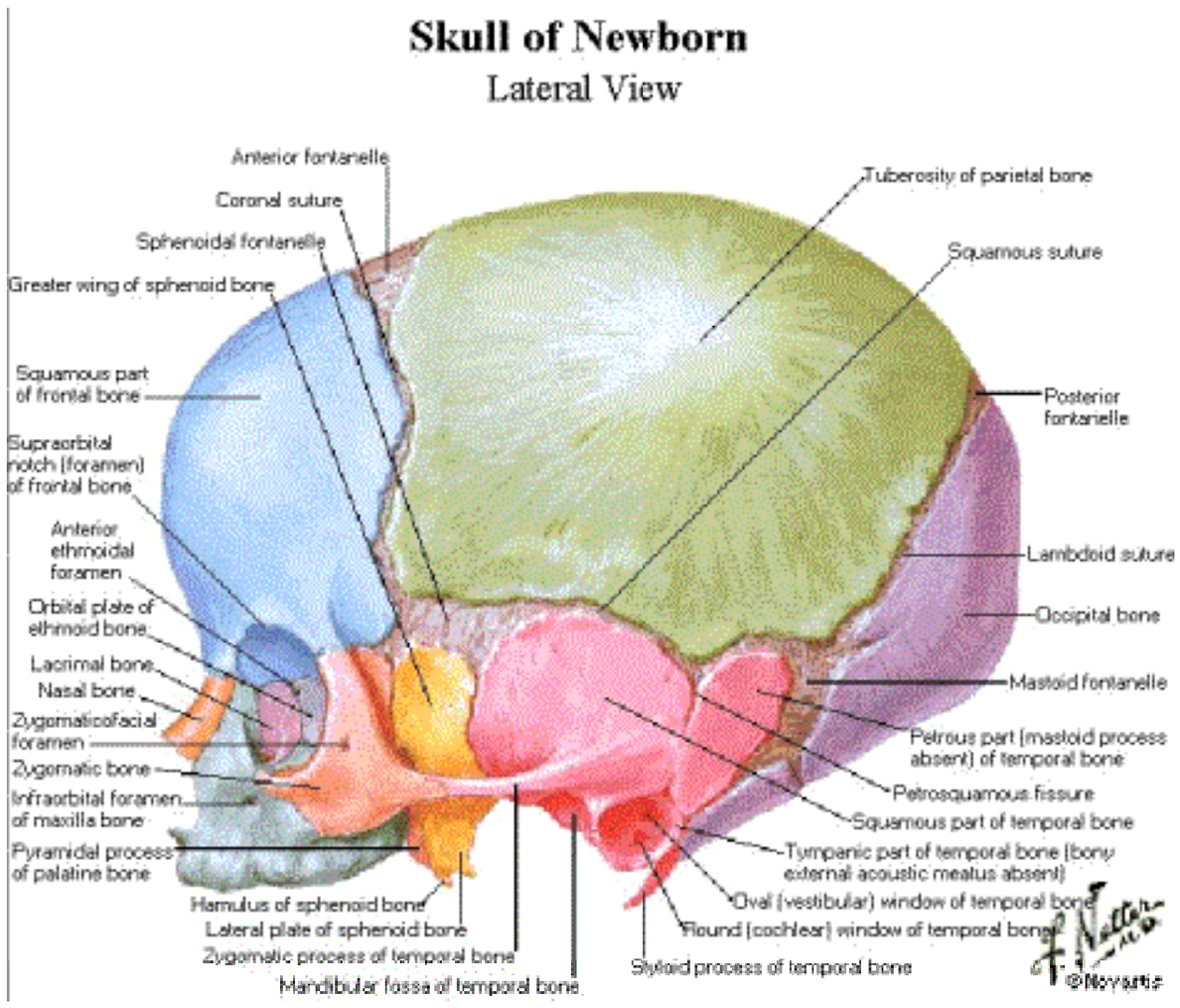
Superior View



Emissary vein to superior sagittal sinus — Foramen cecum
Olfactory nerve bundles — Foramina of cribriform plate
Optic nerve (II) — Optic canal
Ophthalmic artery
Maxillary nerve (V2) — Foramen rotundum
Small emissary vein — Foramen of Vesalius (inconstant)
Foramen lacerum
Facial nerve (VII) — Internal acoustic meatus
Vestibulocochlear nerve (VIII)
Labyrinthine artery
Hypoglossal nerve (XII) — Hypoglossal canal
Inferior petrosal sinus — Jugular foramen
Glossopharyngeal nerve (IX)
Vagus nerve (X)
Accessory nerve (XI)
Sigmoid sinus
Posterior meningeal artery
Medulla oblongata — Foramen magnum
Meninges
Vertebral arteries
Meningeal branches of vertebral arteries
Spinal roots of accessory nerves

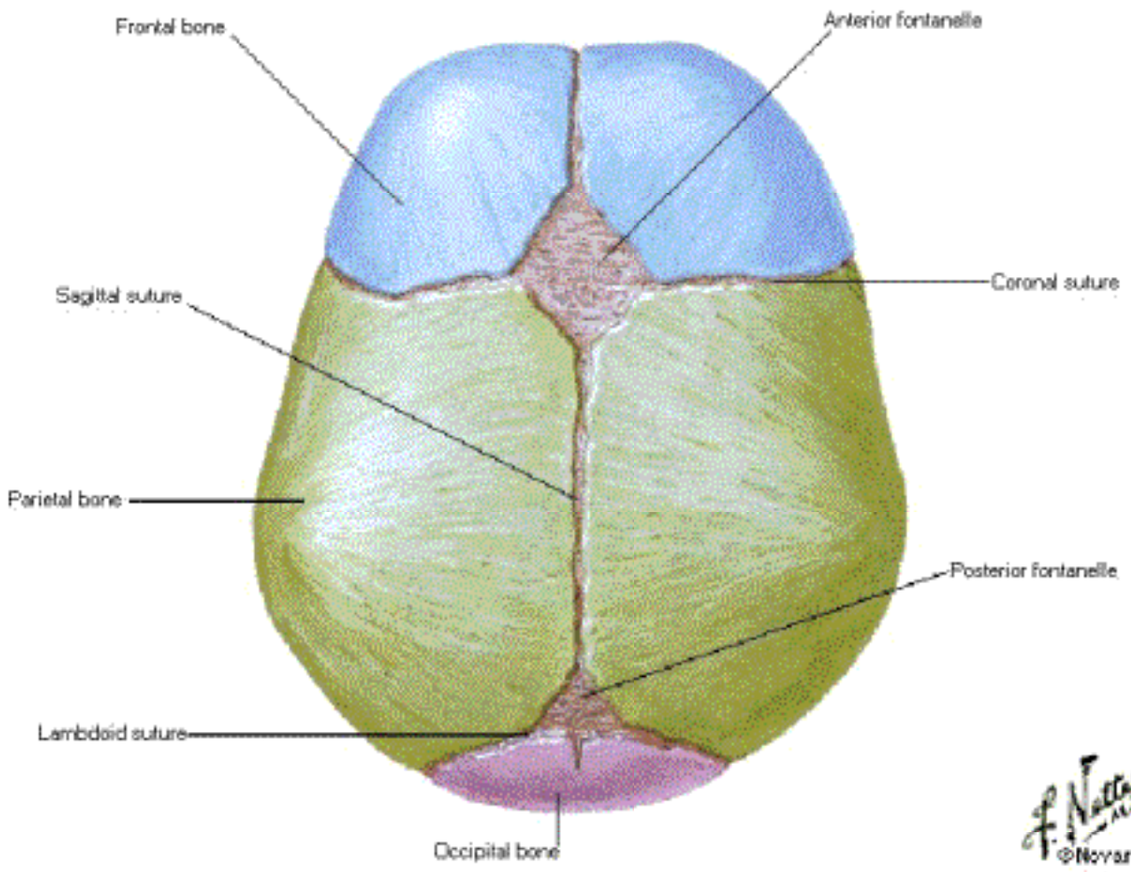
Anterior ethmoidal artery, vein and nerve
Nasal slit
Anterior ethmoidal foramen
Posterior ethmoidal foramen — Posterior ethmoidal artery, vein and nerve
Superior orbital fissure — Oculomotor nerve (III)
Trochlear nerve (IV)
Lacrimal, frontal and nasociliary branches of ophthalmic nerve (V1)
Abducens nerve (VI)
Superior ophthalmic vein
Foramen ovale — Mandibular nerve (V3)
Accessory meningeal artery
Lesser petrosal nerve (occasionally)
Foramen spinosum — Middle meningeal artery and vein
Meningeal branch of mandibular nerve
Hiatus of canal of lesser petrosal nerve — Lesser petrosal nerve
Hiatus of canal of greater petrosal nerve — Greater petrosal nerve
External opening of vestibular aqueduct — Endolymphatic duct
Mastoid foramen (inconstant) — Emissary vein (branch of occipital artery)
Condylar canal (inconstant) — Emissary vein
Meningeal branch of ascending pharyngeal artery

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Skull of Newborn
Lateral View
Anterior fontanelle
Coronal suture
Sphenoidal fontanelle
Greater wing of sphenoid bone
Squamous part of frontal bone
Supraorbital notch (foramen) of frontal bone
Anterior ethmoidal foramen
Orbital plate of ethmoid bone
Lacrimal bone
Nasal bone
Zygomaticofacial foramen
Zygomatic bone
Infraorbital foramen of maxilla bone
Pyramidal process of palatine bone
Hamulus of sphenoid bone
Lateral plate of sphenoid bone
Zygomatic process of temporal bone
Mandibular fossa of temporal bone
Tuberosity of parietal bone
Squamous suture
Posterior fontanelle
Lambdoid suture
Occipital bone
Mastoid fontanelle
Petrous part (mastoid process absent) of temporal bone
Petrosquamous fissure
Squamous part of temporal bone
Tympanic part of temporal bone (bony external acoustic meatus absent)
Oval (vestibular) window of temporal bone
Round (cochlear) window of temporal bone
Styloid process of temporal bone
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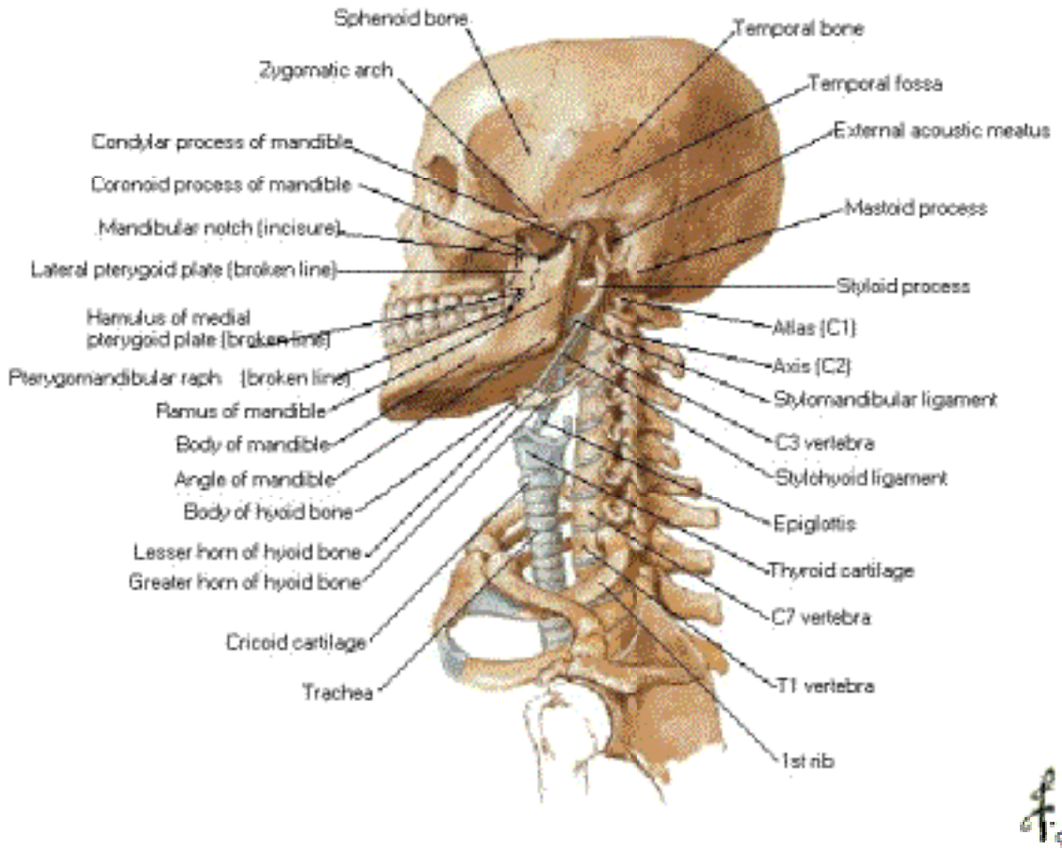
Skull of Newborn

Superior View



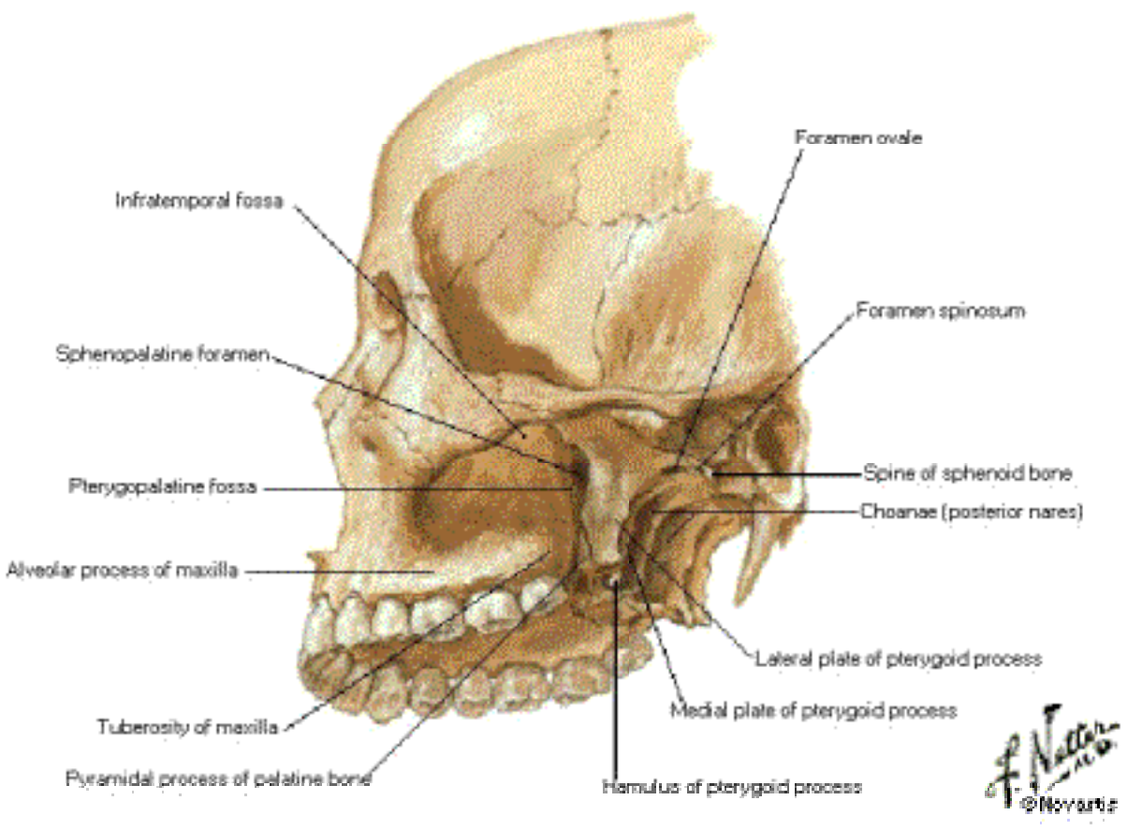
Bony Framework of Head and Neck

Lateral View



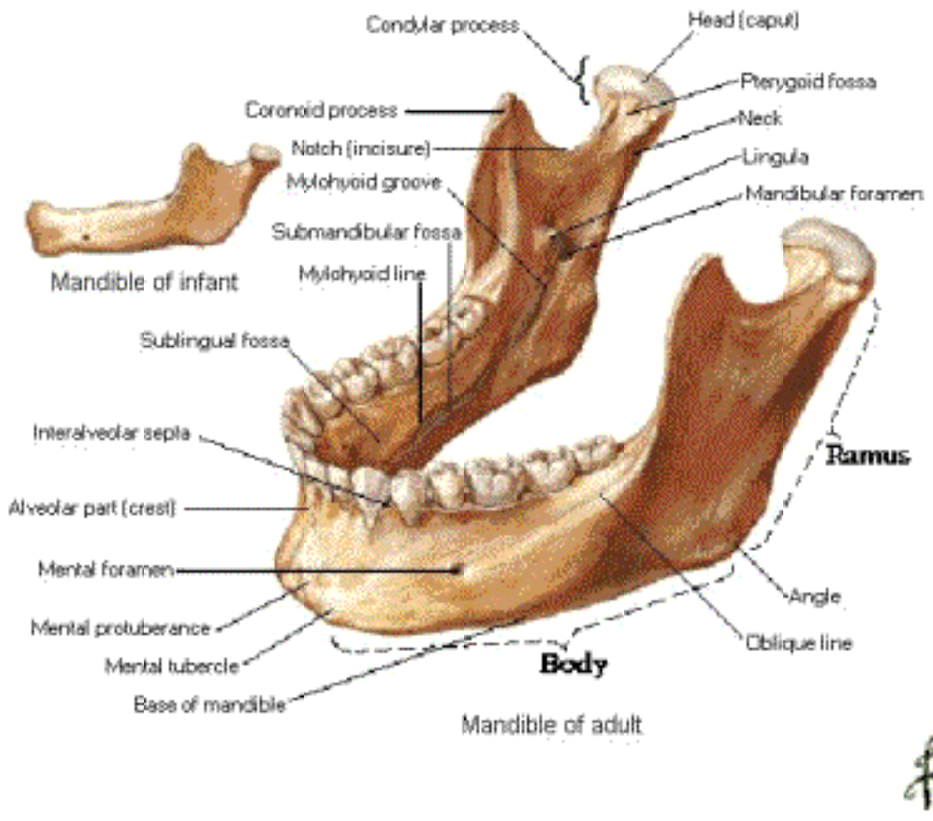
Bony Framework of Head - Mandible Removed

Lateral View



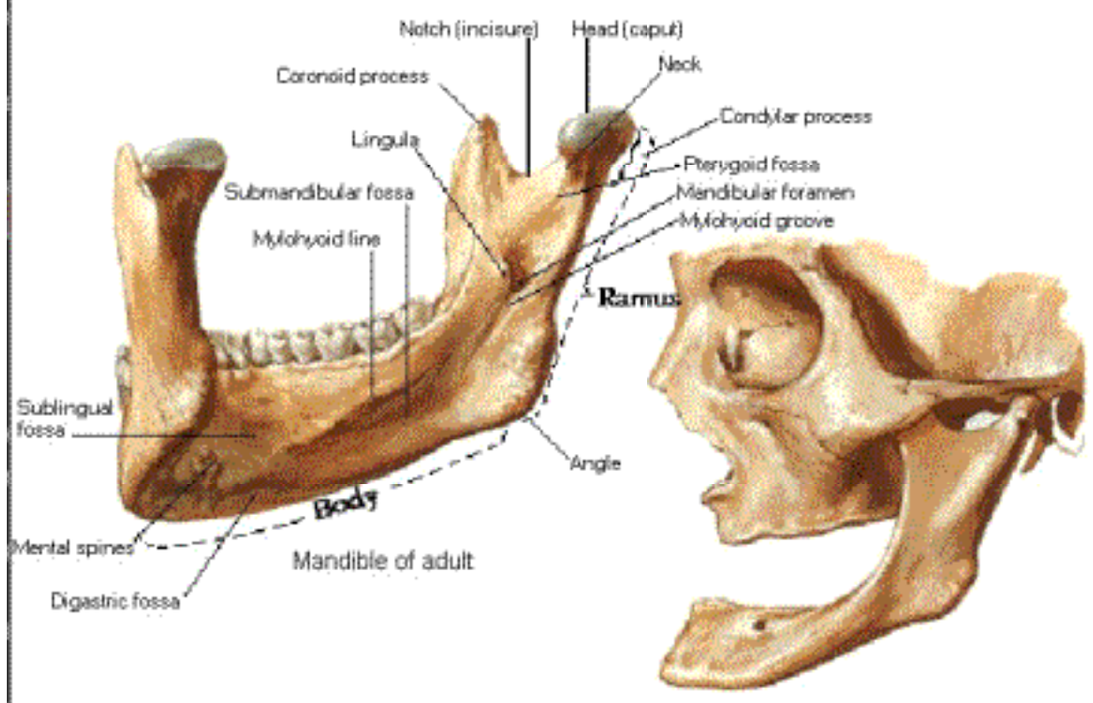
Mandible

Anterolateral Superior View



Mandible

Left Posterior View



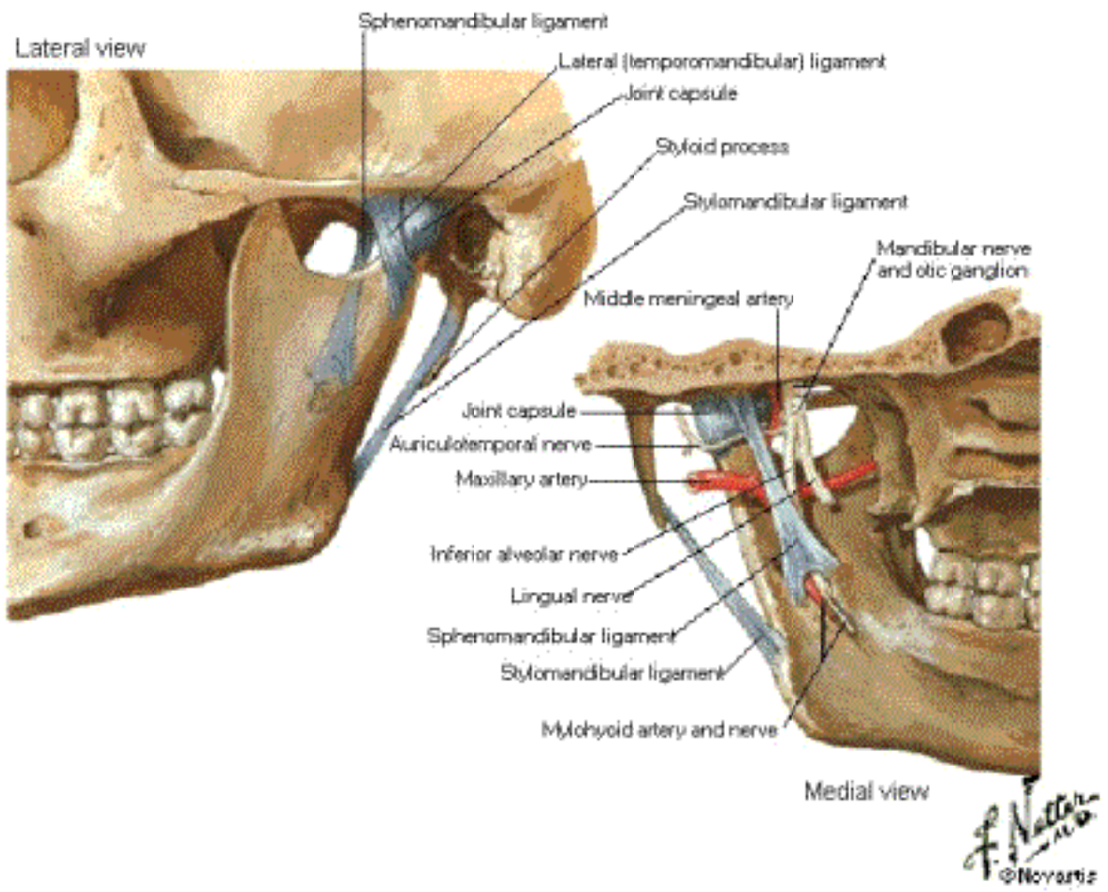
Mandible of adult

Mandible of aged person (edentulous)

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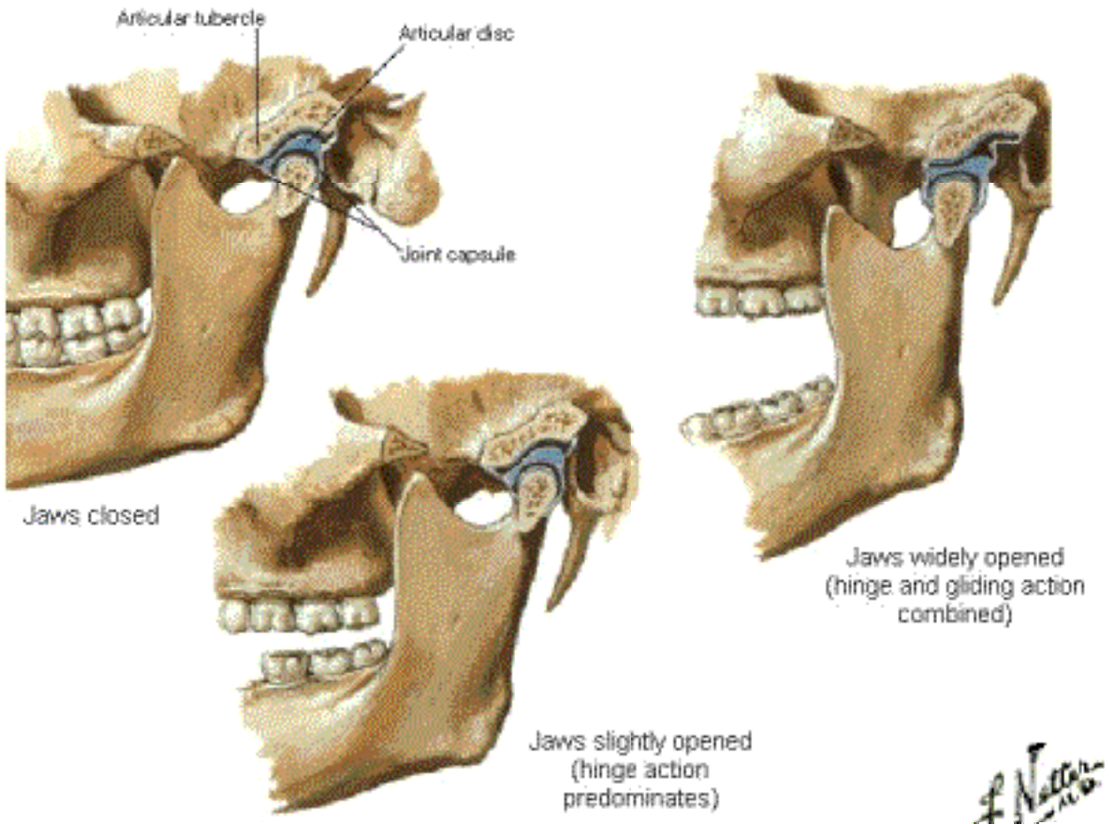
Temporomandibular Joint

Lateral and Medial Views



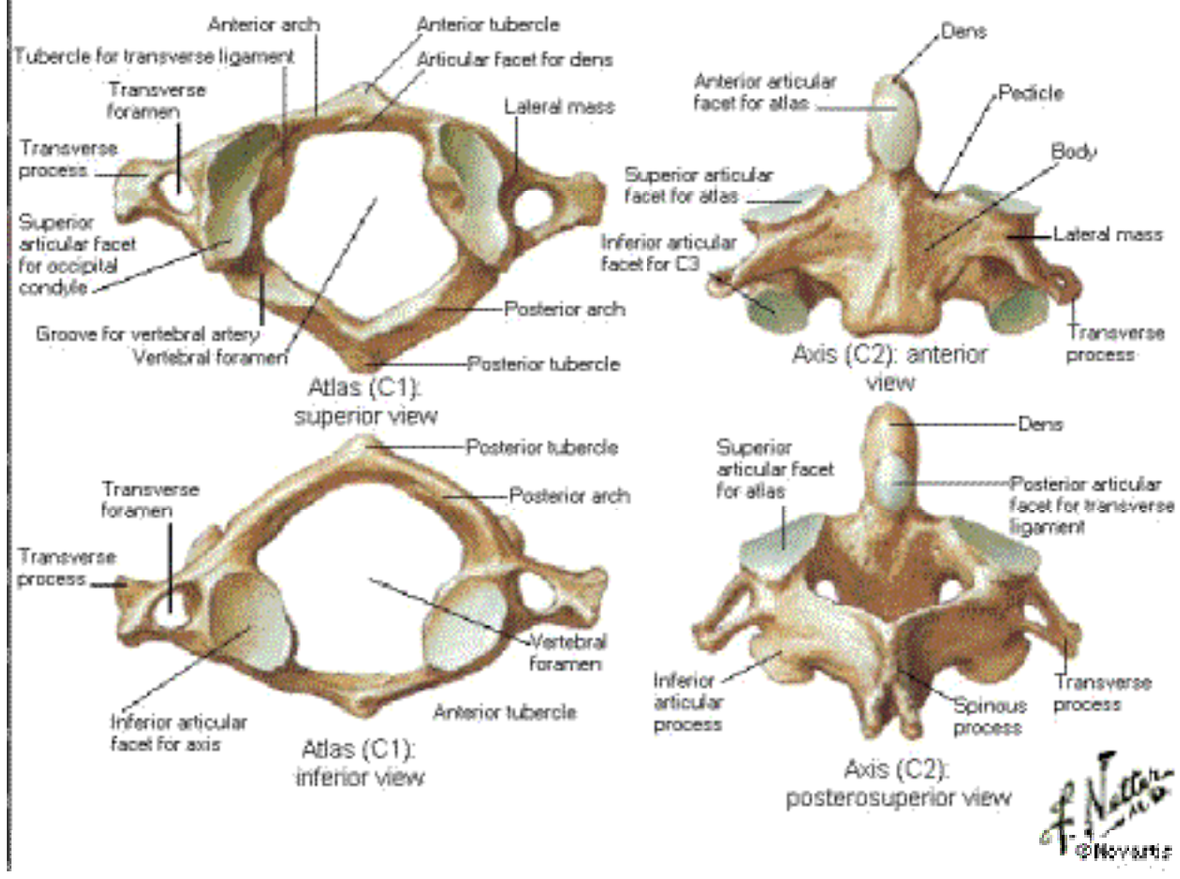
Temporomandibular Joint

Joint Action



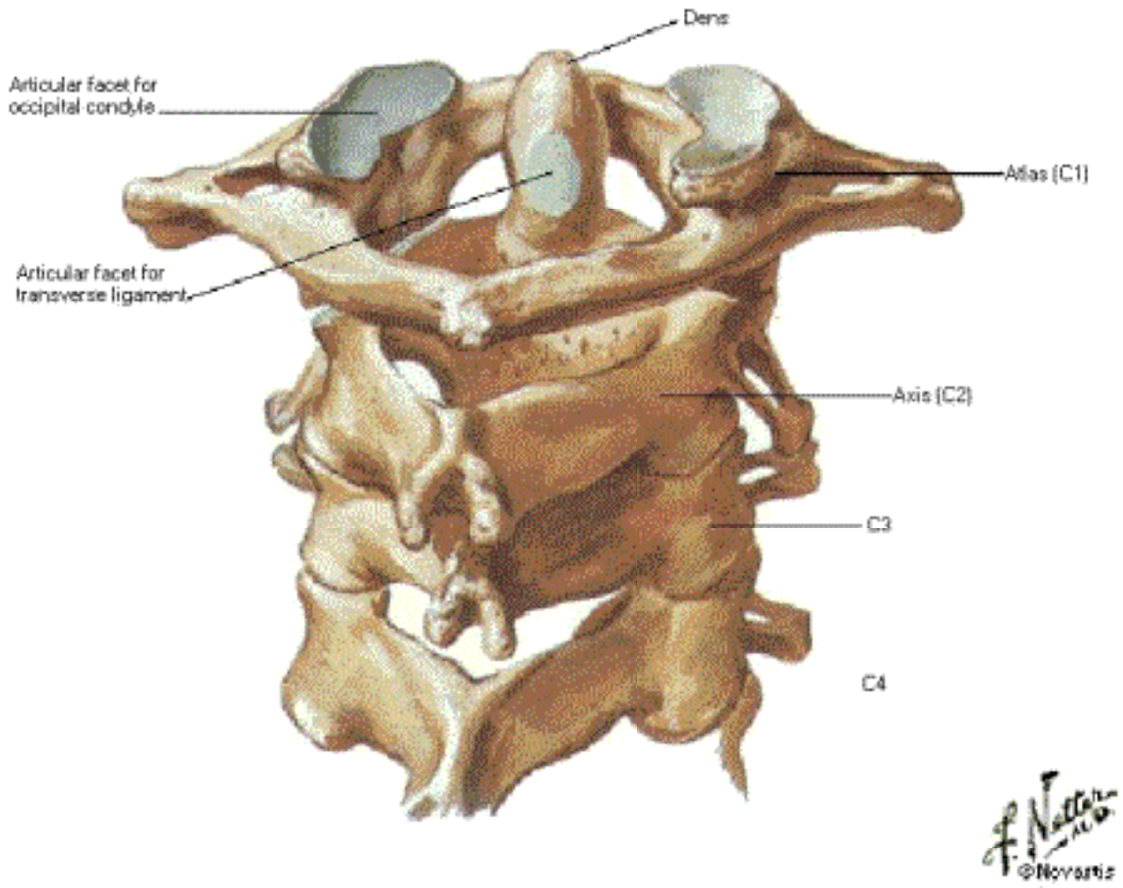
Cervical Vertebrae

Atlas and Axis



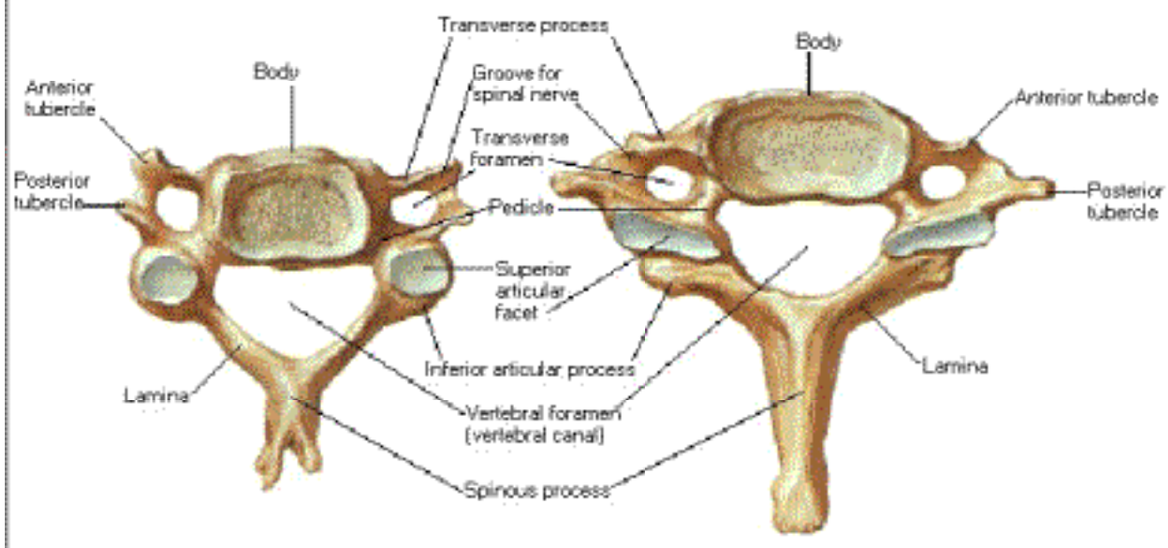
Cervical Vertebrae [C1-C4], Assembled

Posterosuperior View



Cervical Vertebrae [C4 and C7]

Superior Views



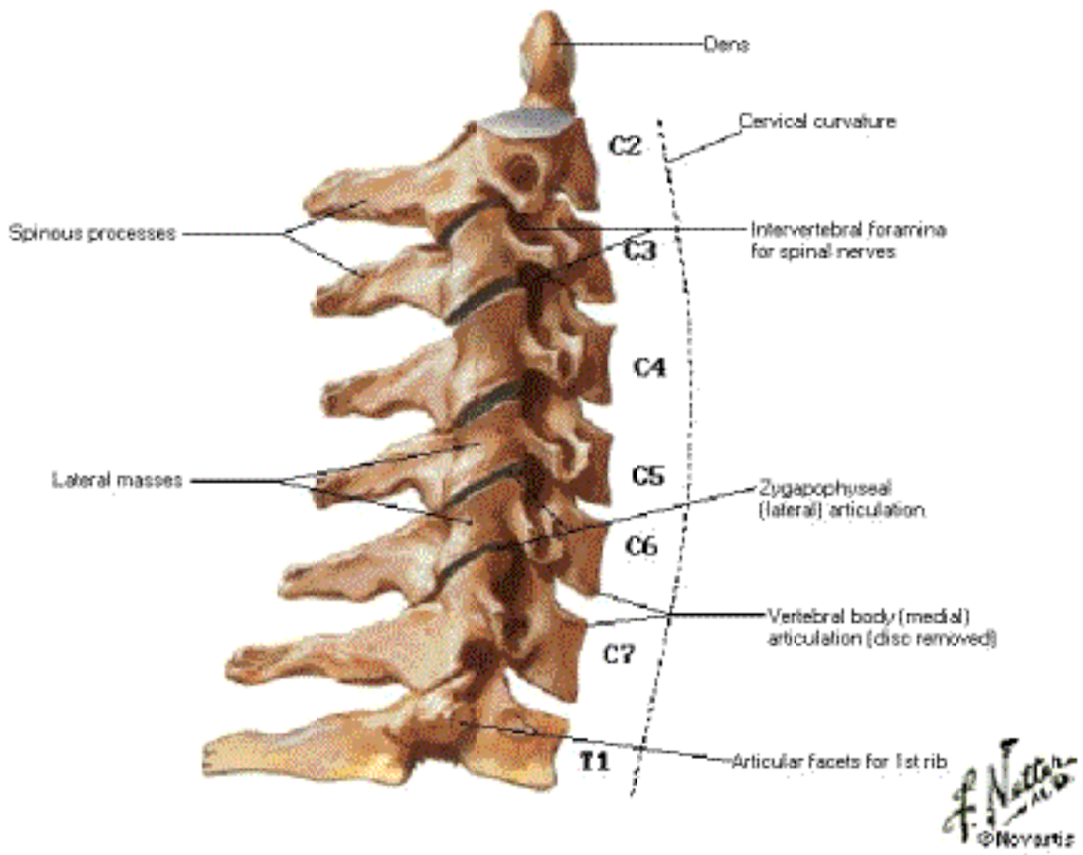
4th cervical vertebra: superior view

7th cervical vertebra: superior view

©Novartis

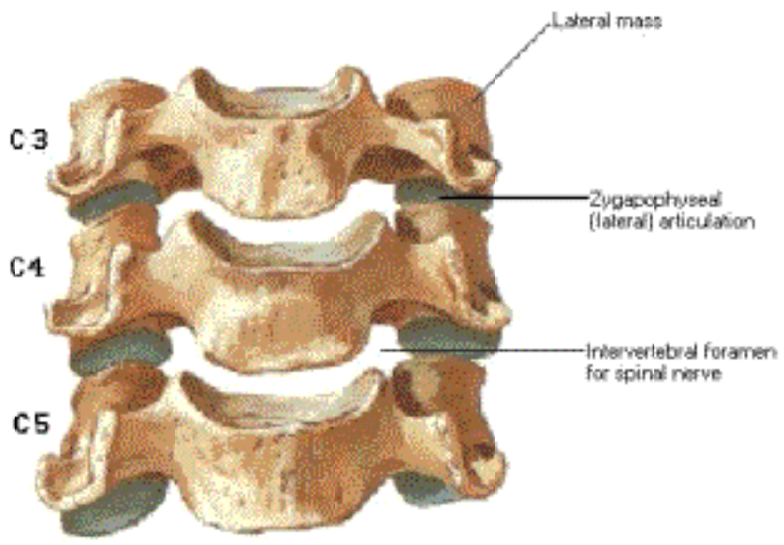
Cervical Vertebrae [C2-T1], Assembled

Right Lateral View



Cervical Vertebrae [C3-C5], Assembled

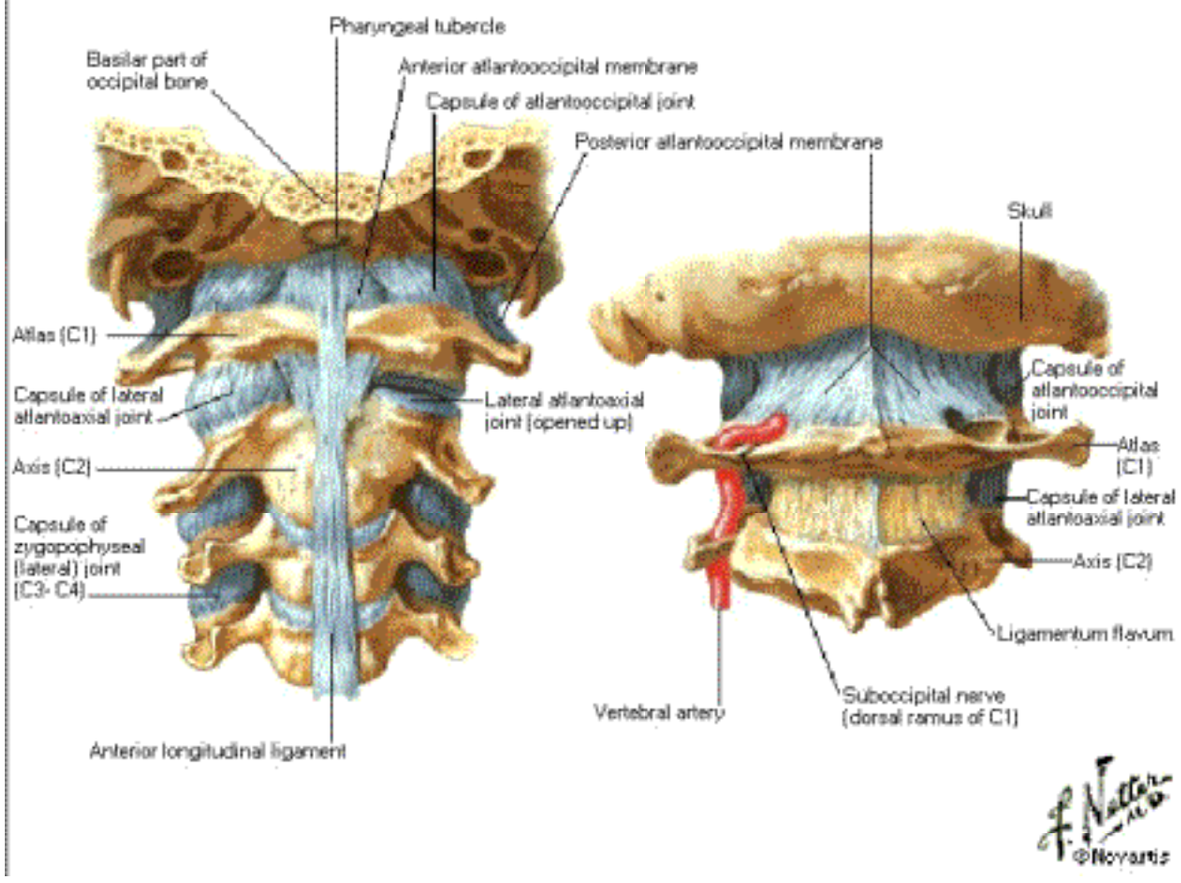
Anterior View



©Novartis

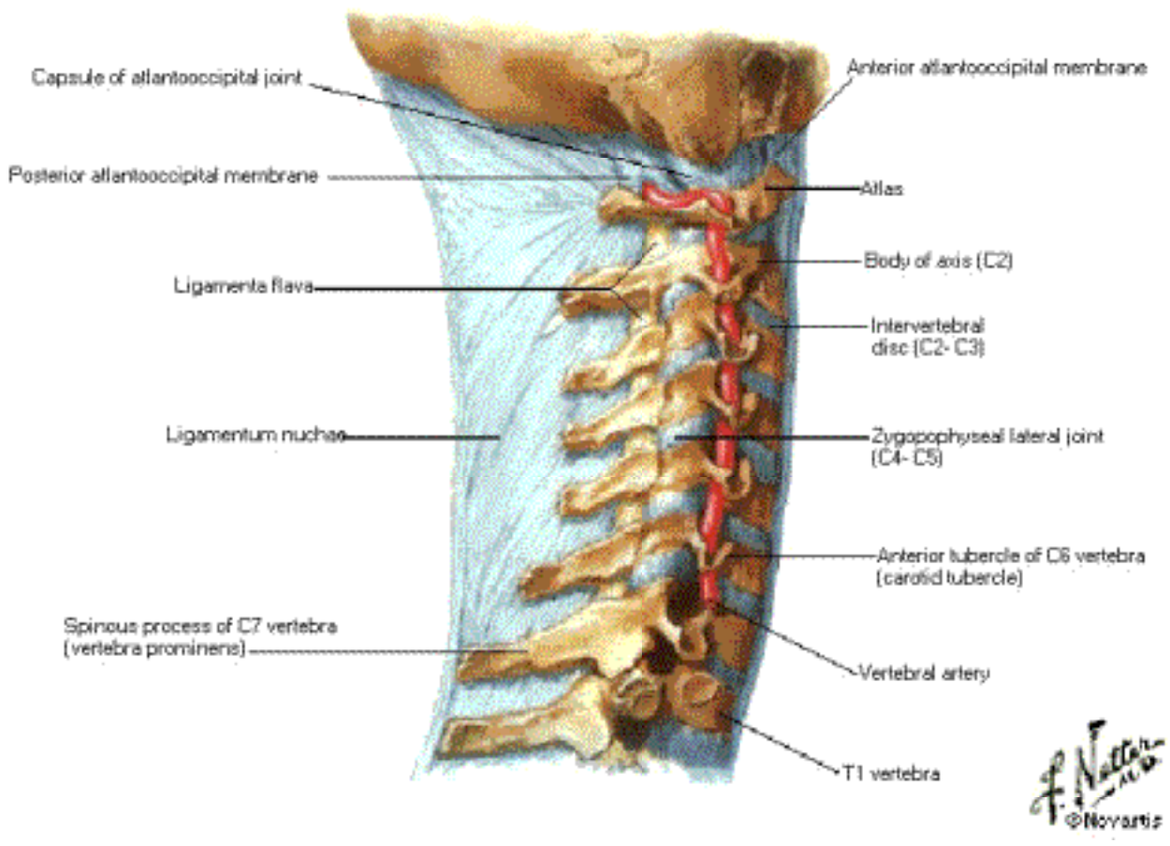
External Craniocervical Ligaments

Anterior and Posterior Views

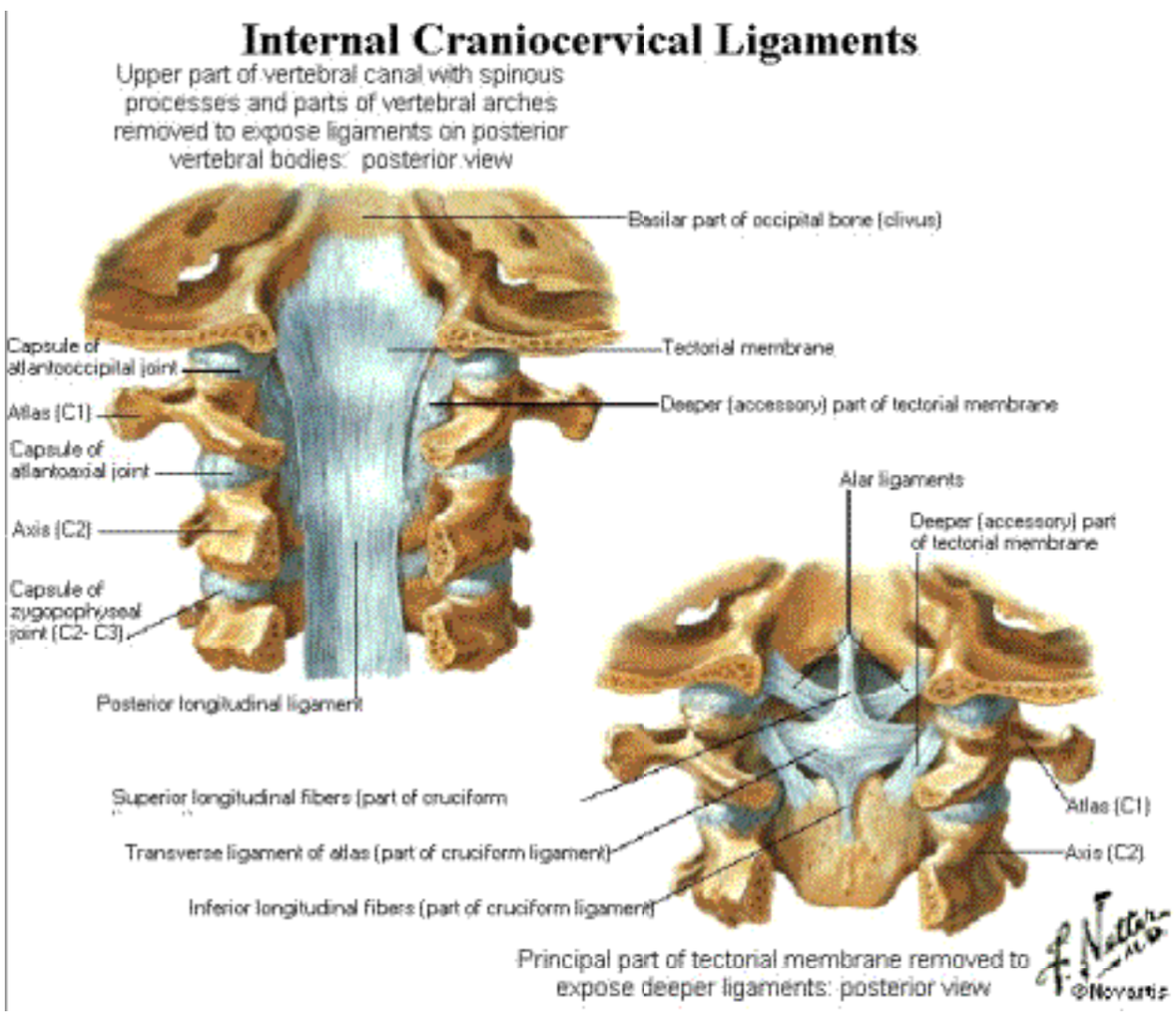


External Craniocervical Ligaments

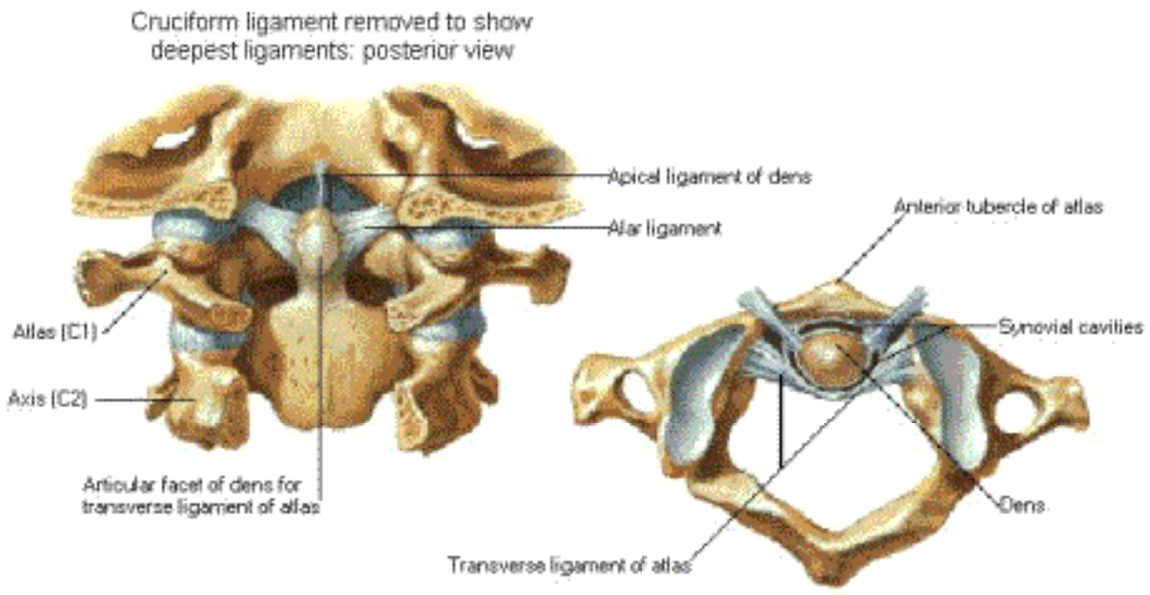
Right Lateral View



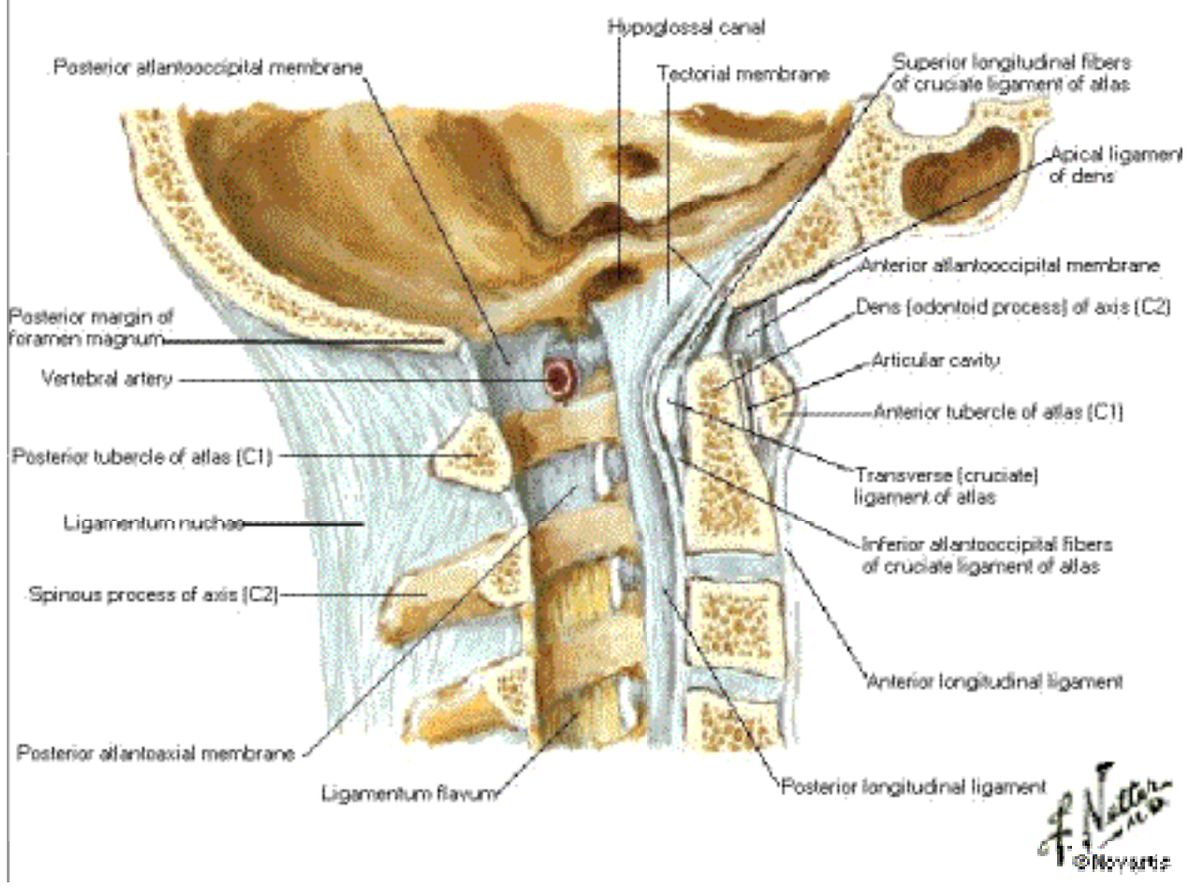
Internal Craniocervical Ligaments



Internal Craniocervical Ligaments [Continued]

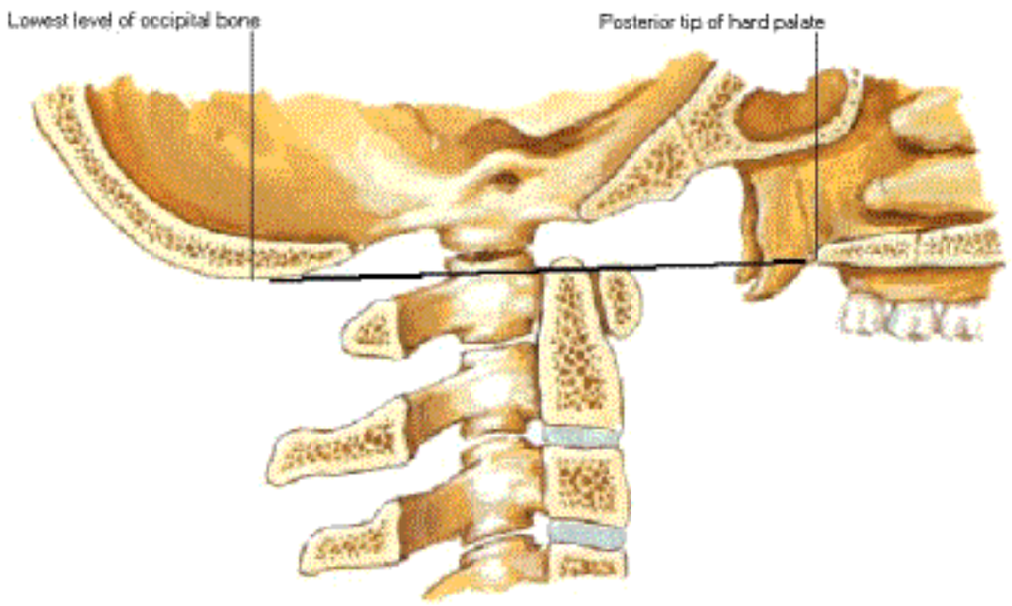


Atlantooccipital Junction



Atlantooccipital Junction

McGregor's Line



McGregor's line, from posterior tip of hard palate to lowest point of occipital bone. Average normal position of odontoid tip is 1.32 mm above this line with standard deviation of plus or minus 2.6 mm as measured on a standard lateral radiograph. Tip > 4.5 mm above line is considered to indicate basilar impression.

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Atlantooccipital Junction

Odontoid Abnormalities

Odontoid abnormalities, most often associated with skeletal dysplasias such as Klippel-Feil, Down's or Morquio's syndromes



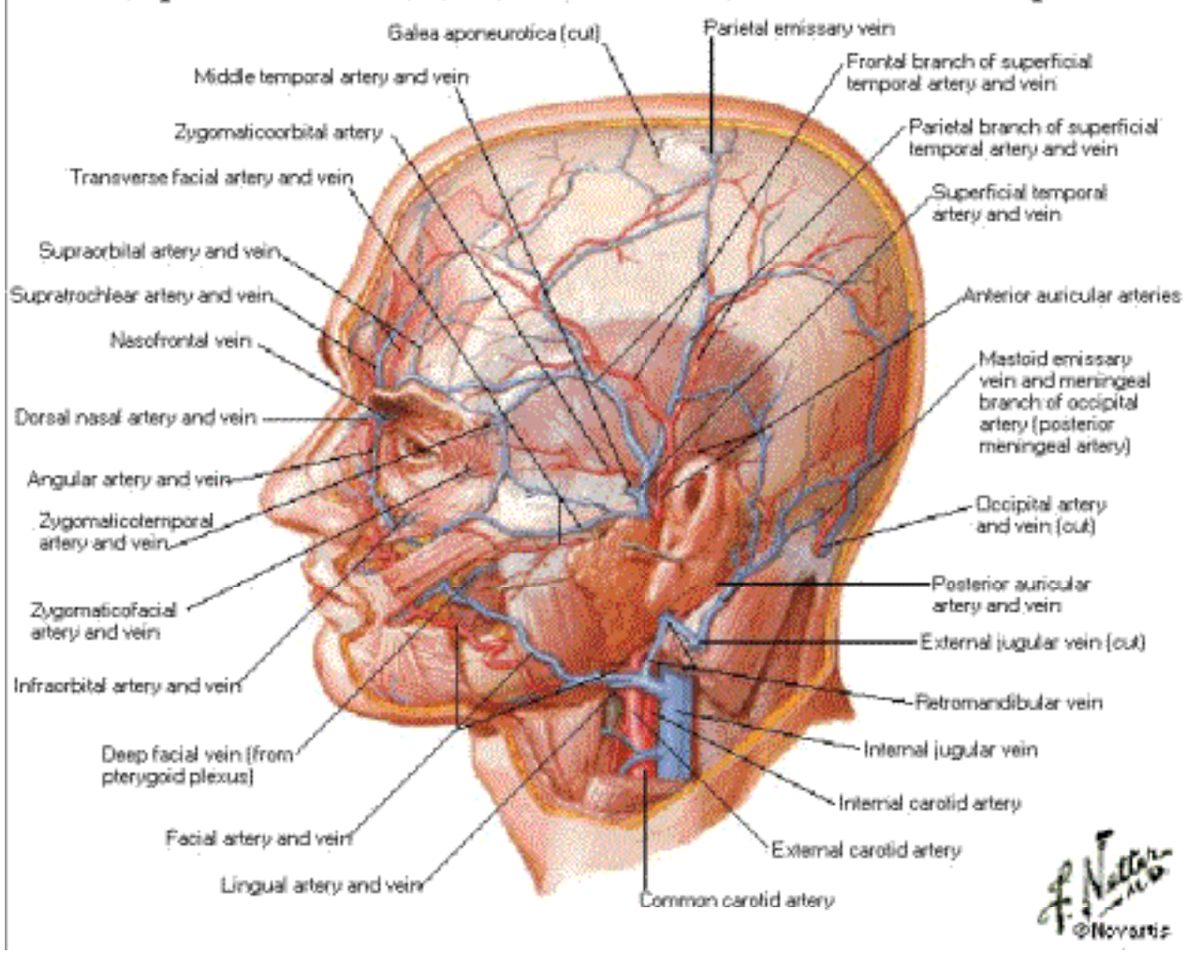
Hypoplastic dens
(odontoid process)



Os odontoideum with fibrous union
and narrowing of vertebral canal
with head in extension

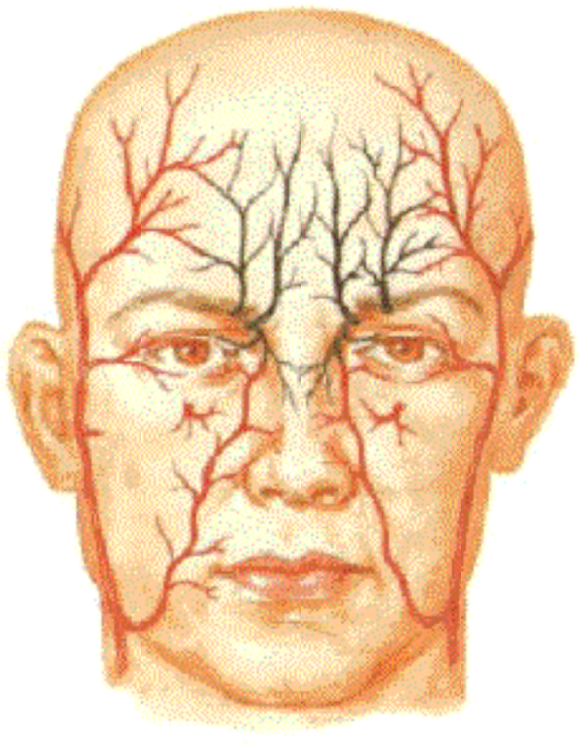
©Novartis

Superficial Arteries and Veins of Face and Scalp



Superficial Face

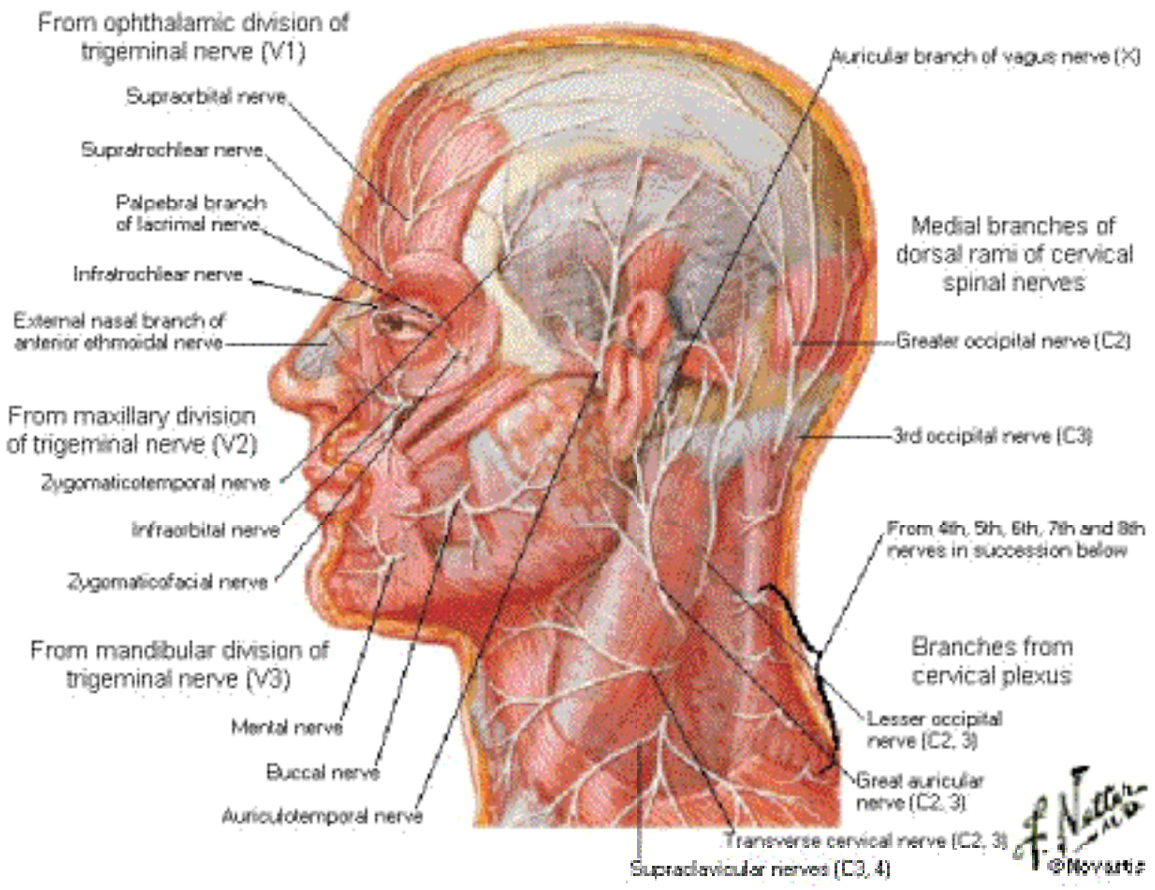
Sources of Arterial Supply



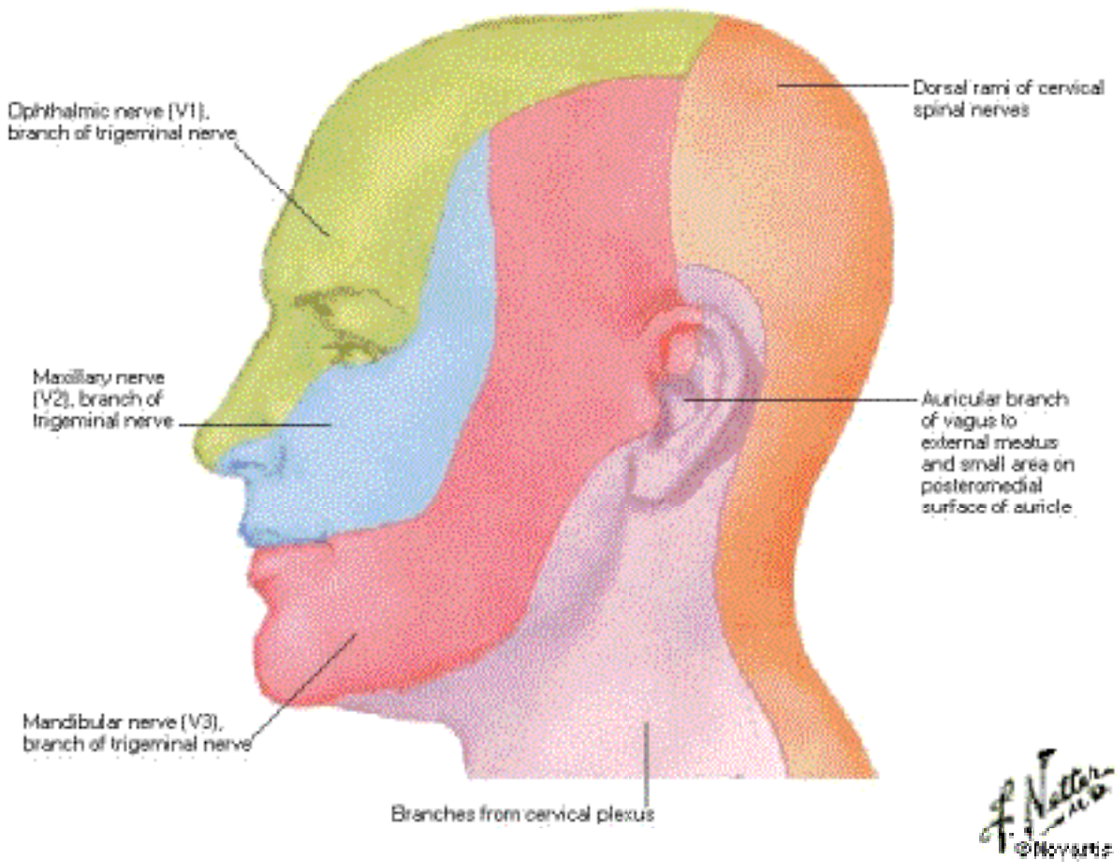
Black: from internal carotid artery (via ophthalmic artery)

Red: from external carotid artery

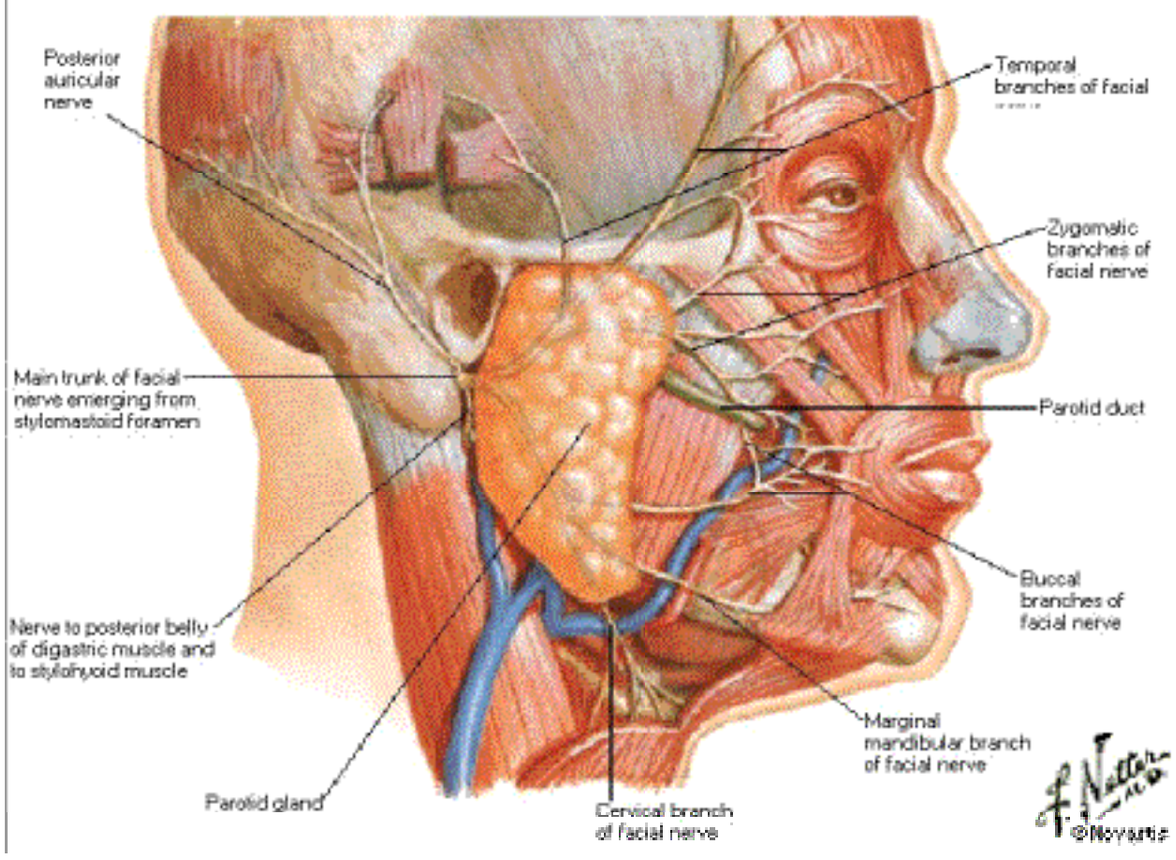
Cutaneous Nerves of Head and Neck



Dermatomes of Head and Neck

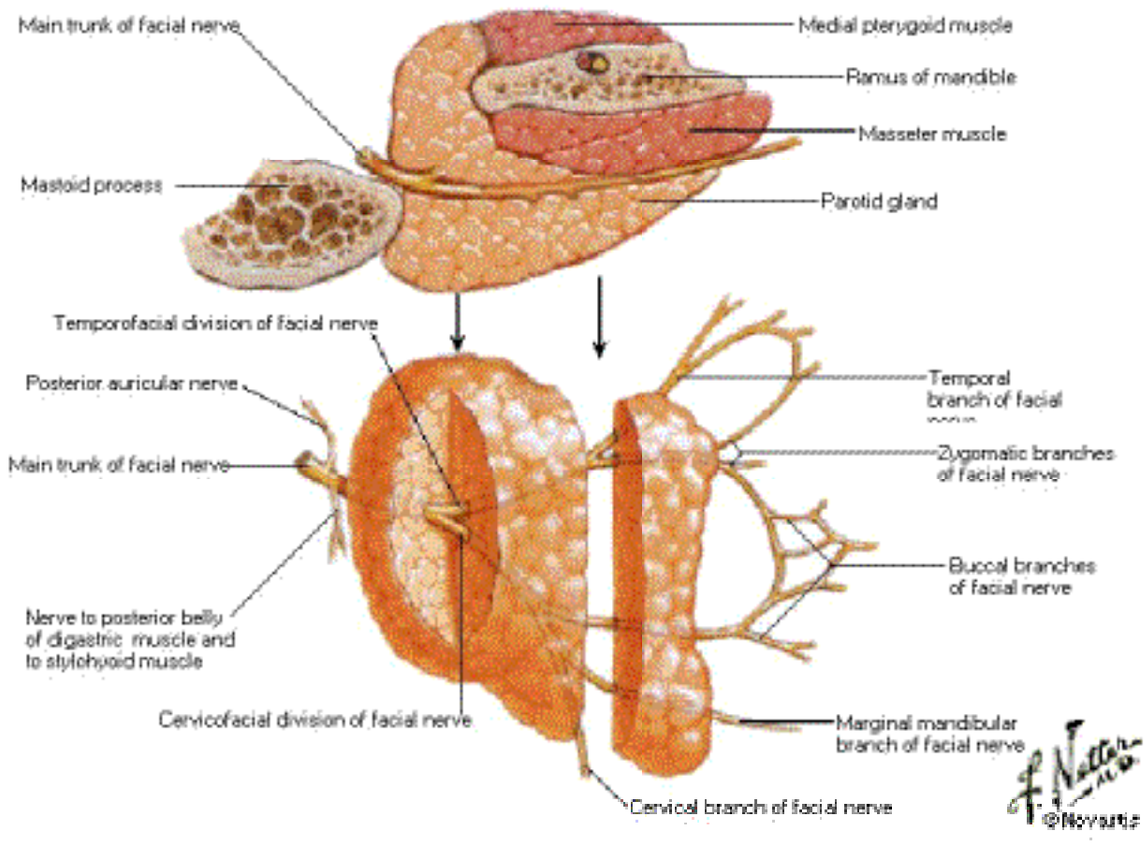


Facial Nerve Branches and Parotid Gland in Situ



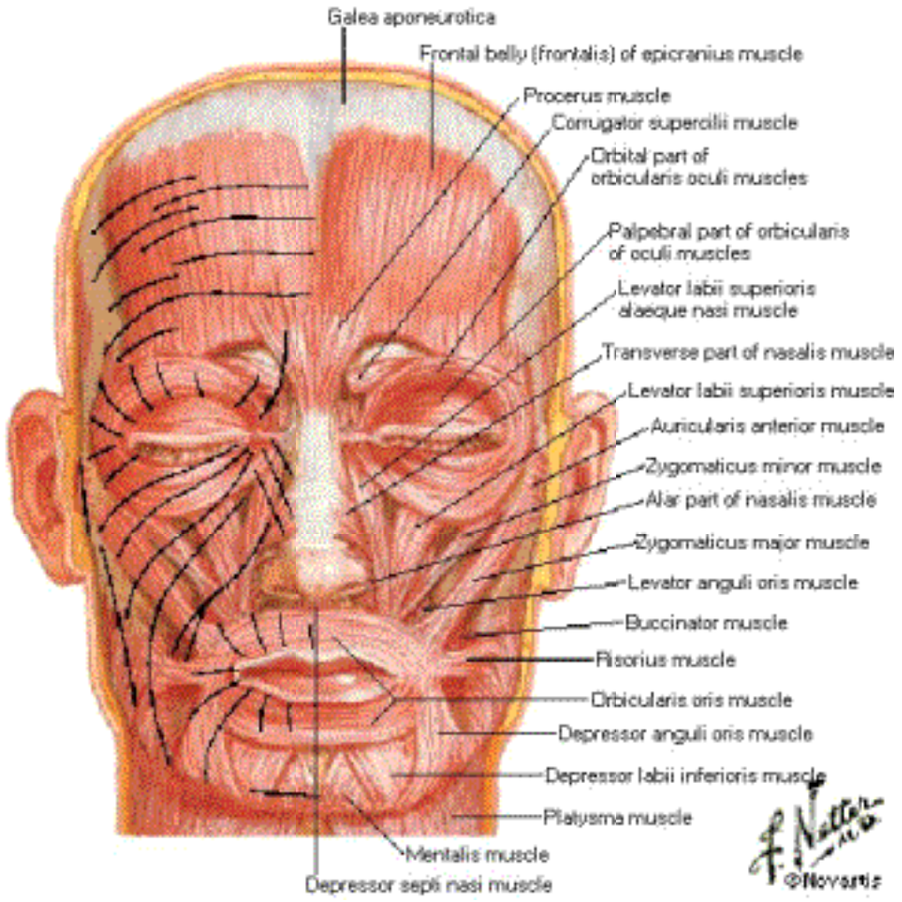
Facial Nerve Branches and Parotid Gland

Sectioned



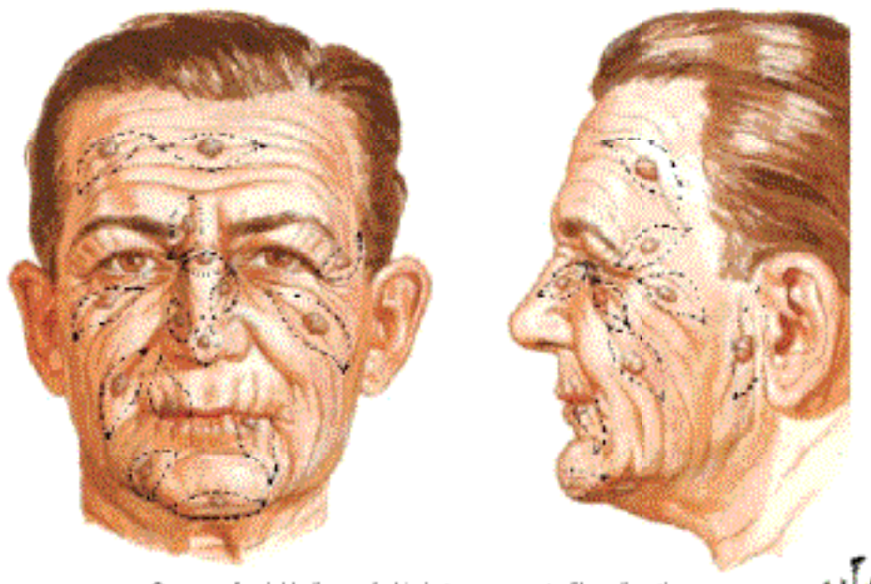
Muscles of Facial Expression

Anterior View



Superficial Face

Course of Wrinkle Lines of Skin

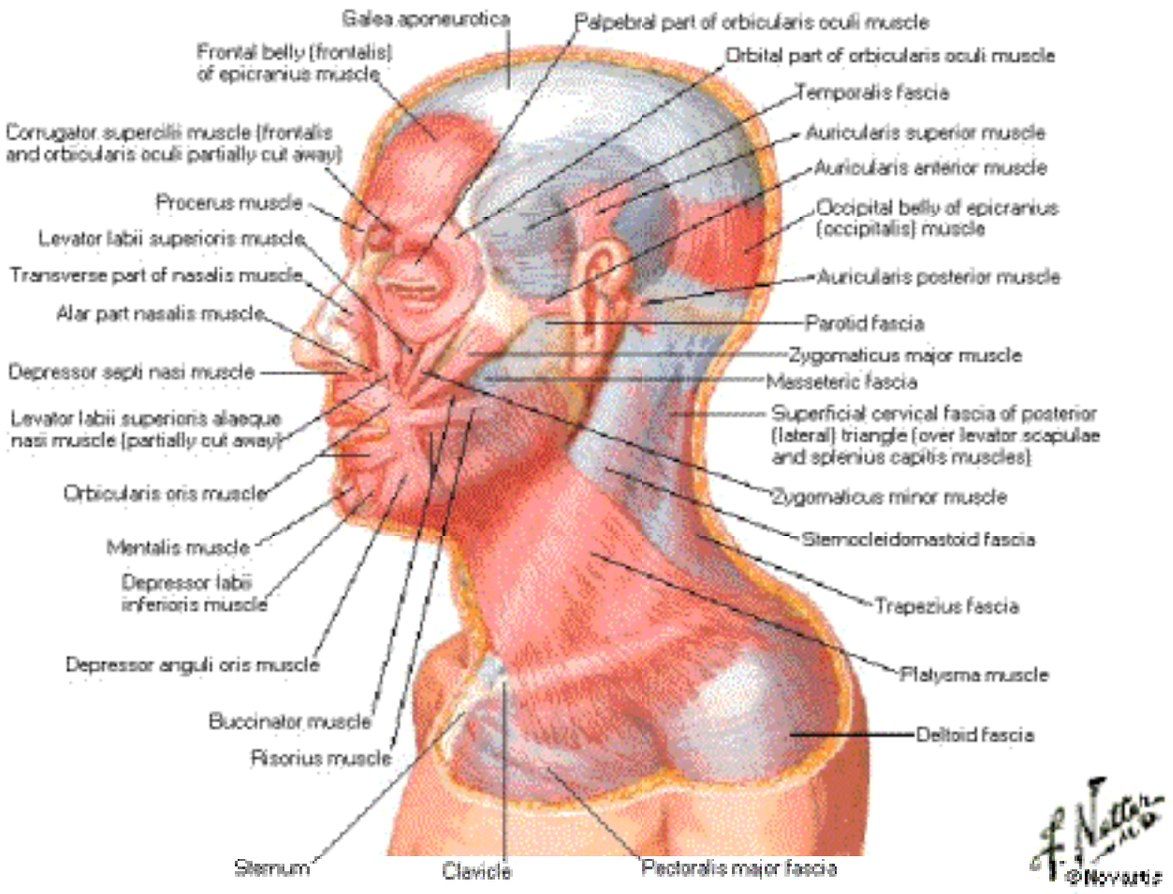


Course of wrinkle lines of skin is transverse to fiber direction of facial muscles. Elliptical incisions for removal of skin tumors conform to direction of wrinkle lines

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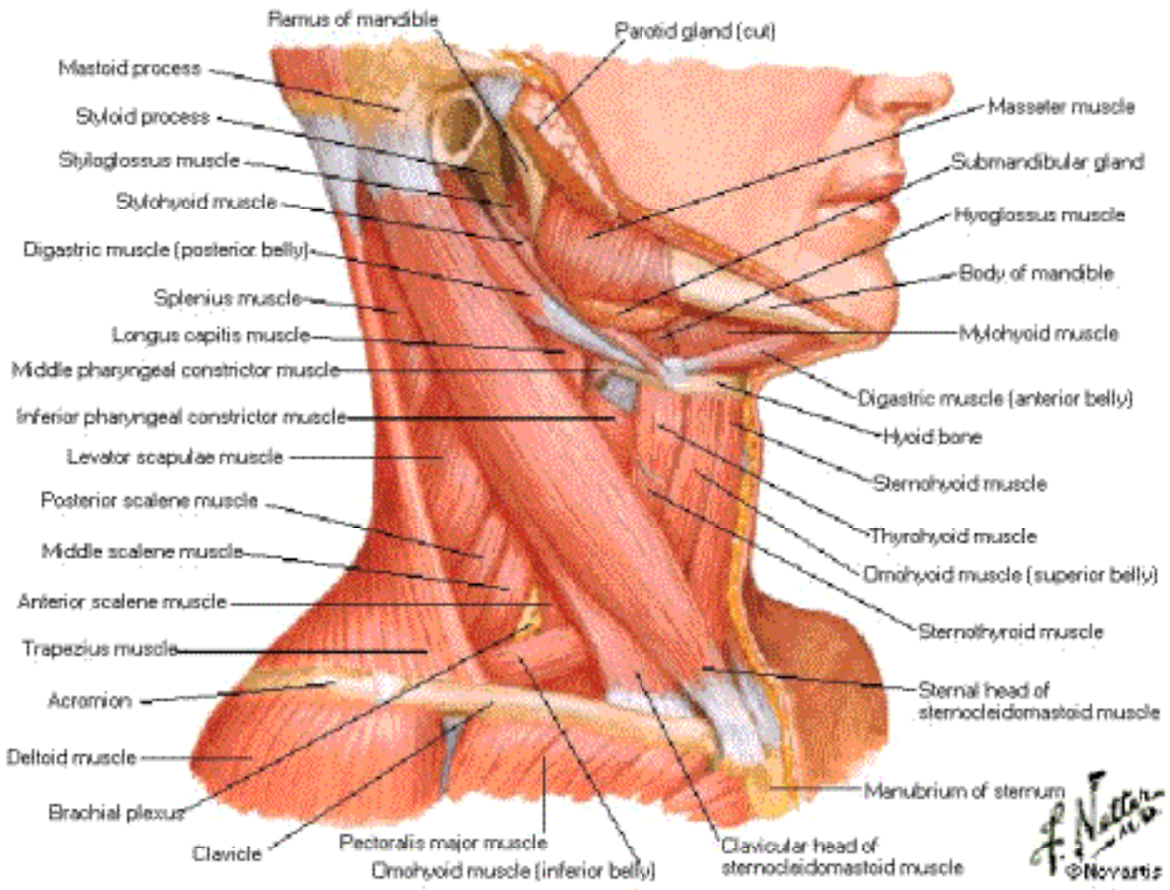
Muscles of Facial Expression

Lateral View



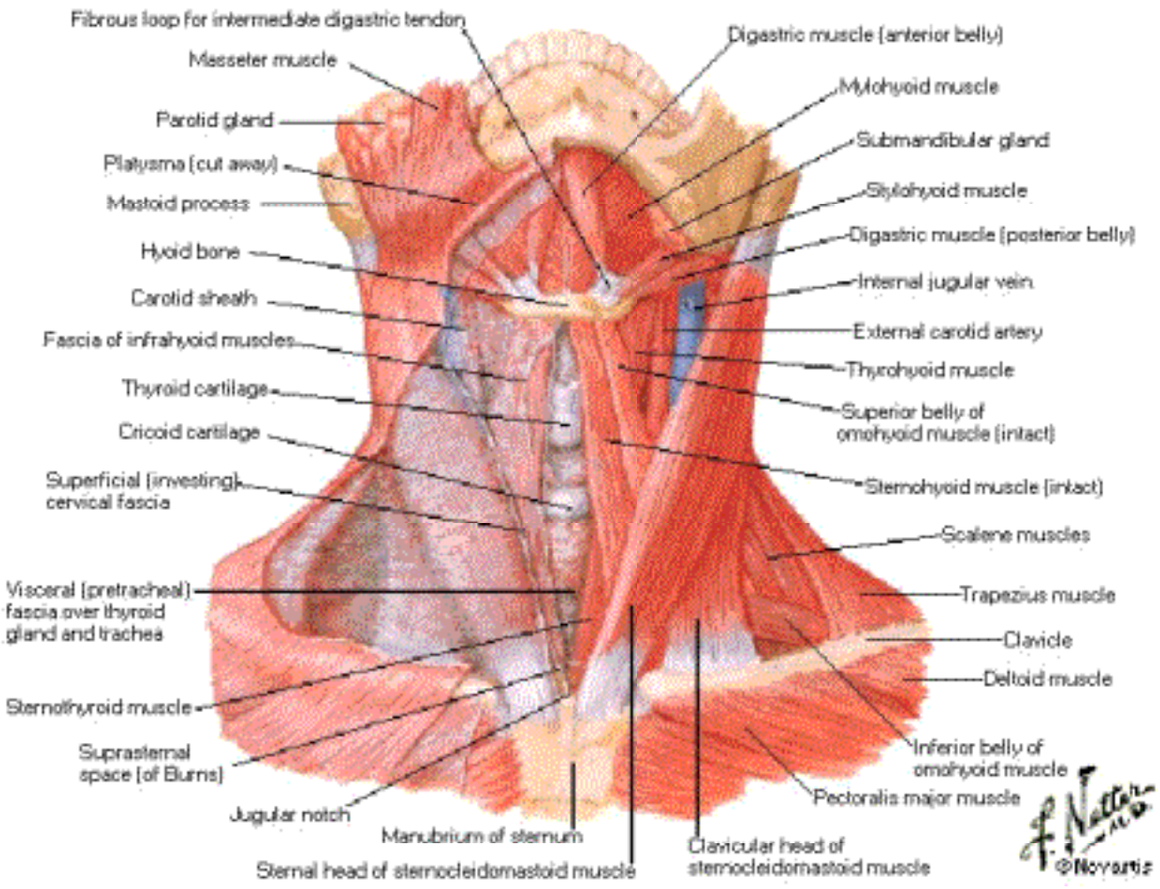
Muscles of Neck

Lateral View

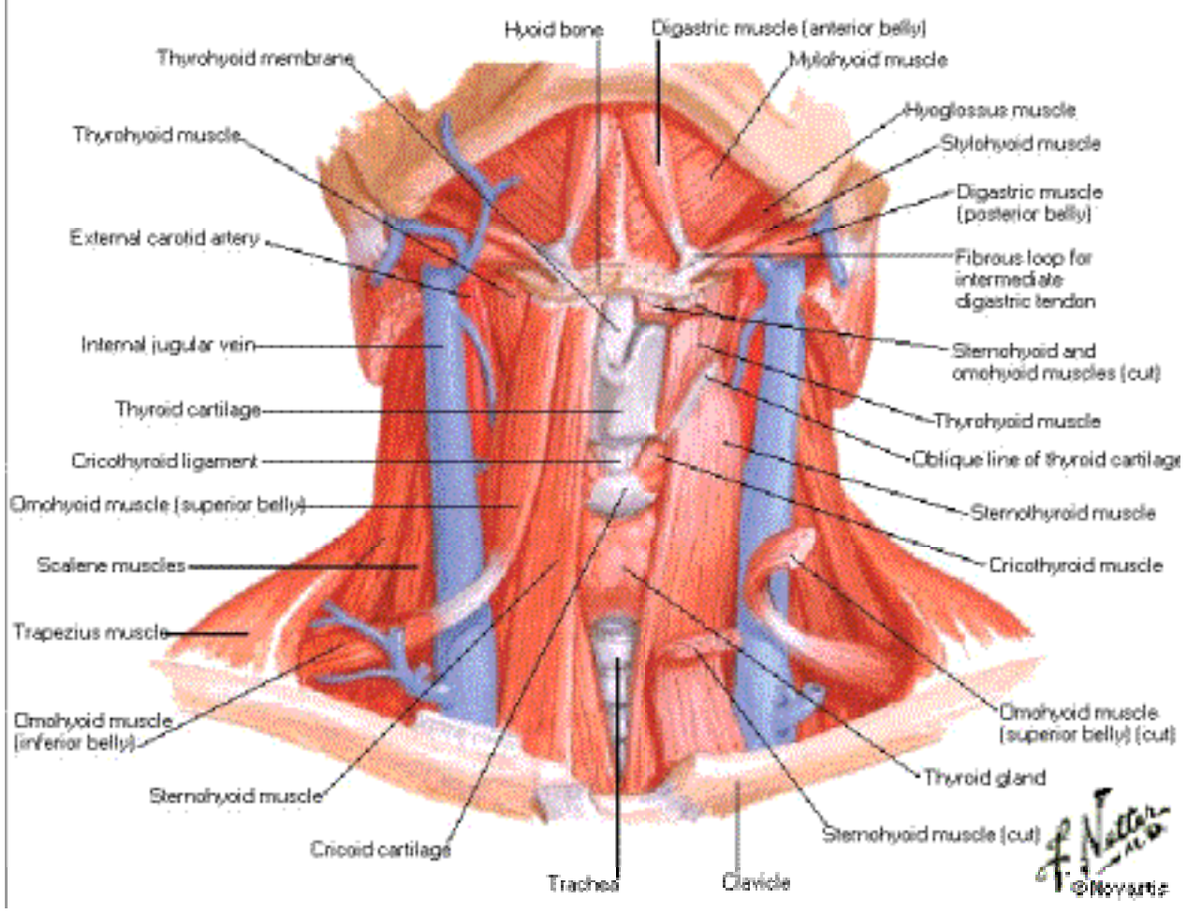


Muscles of Neck

Anterior View

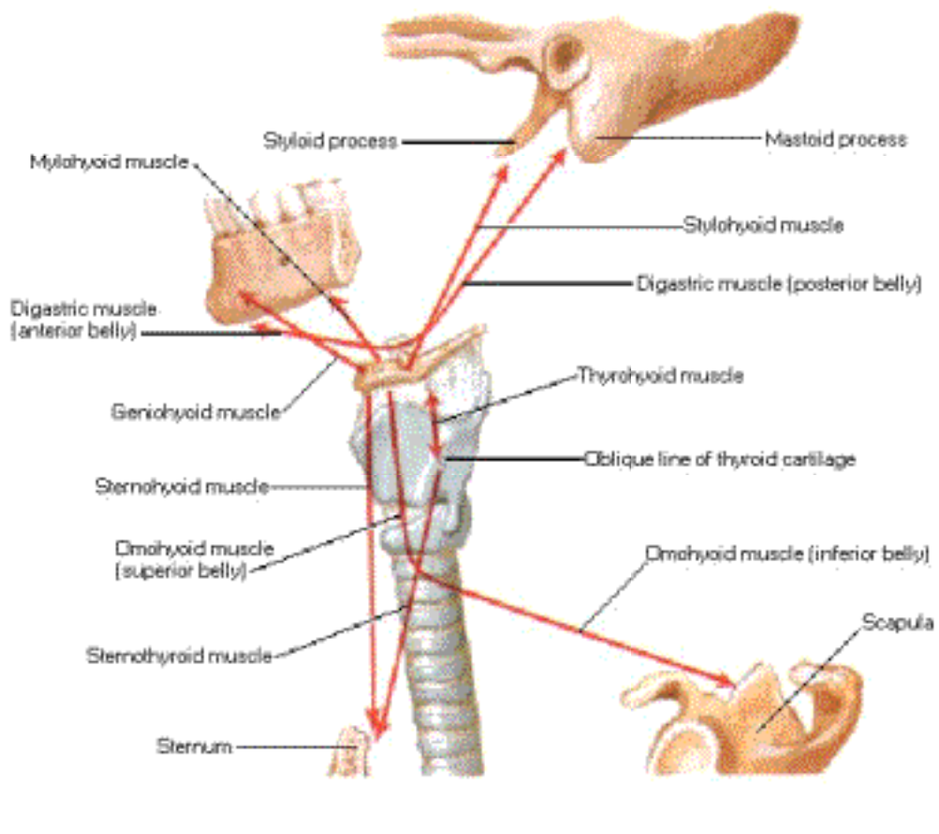


Infrahyoid and Suprahyoid Muscles

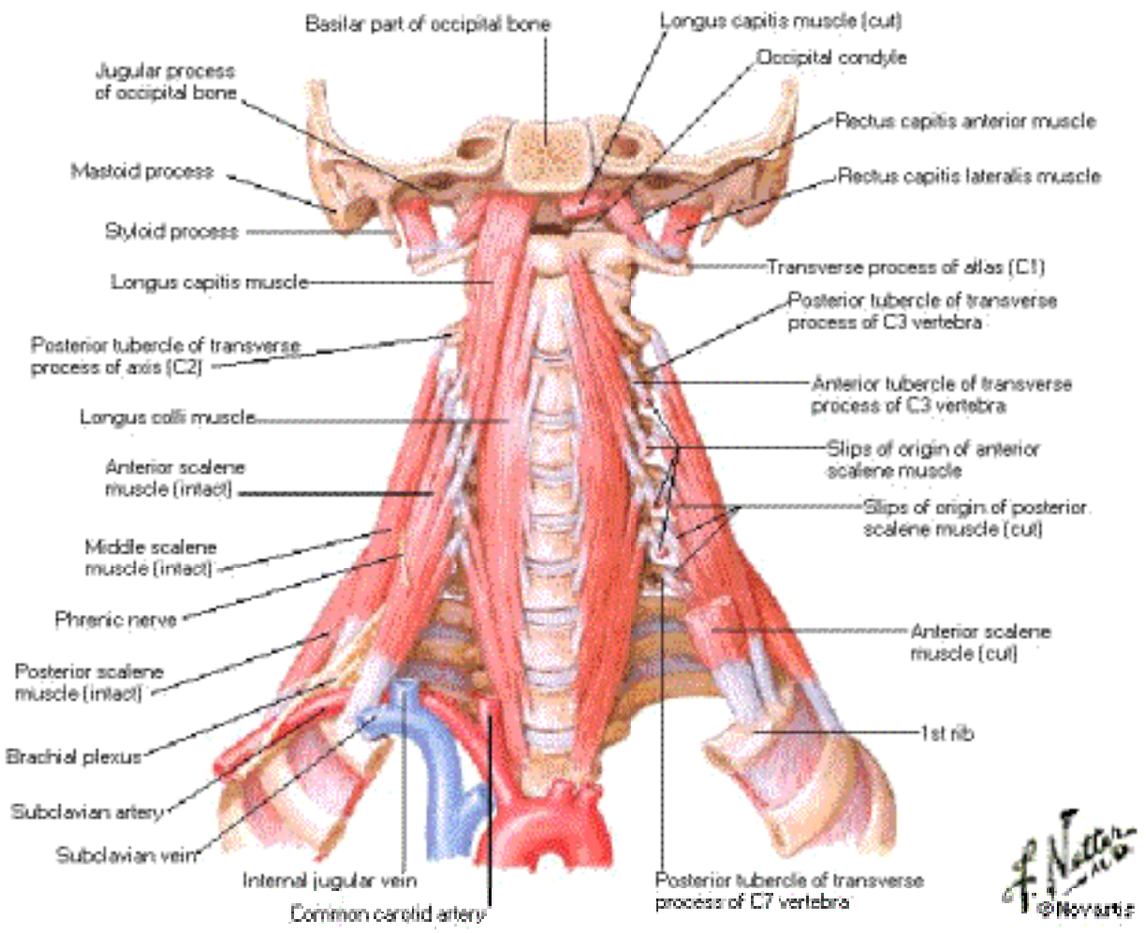


Infrahyoid and Suprahyoid Muscles and their Action

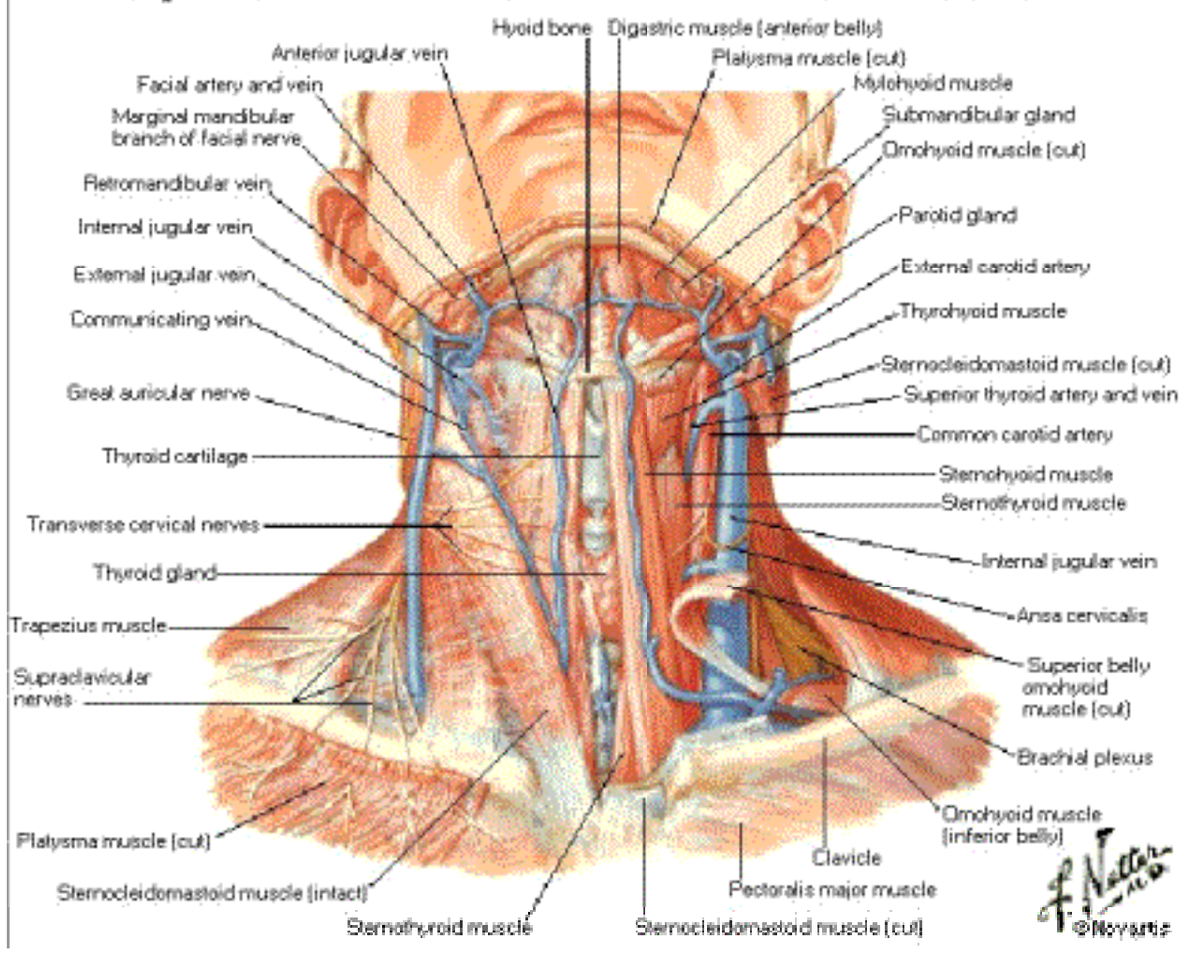
Schema



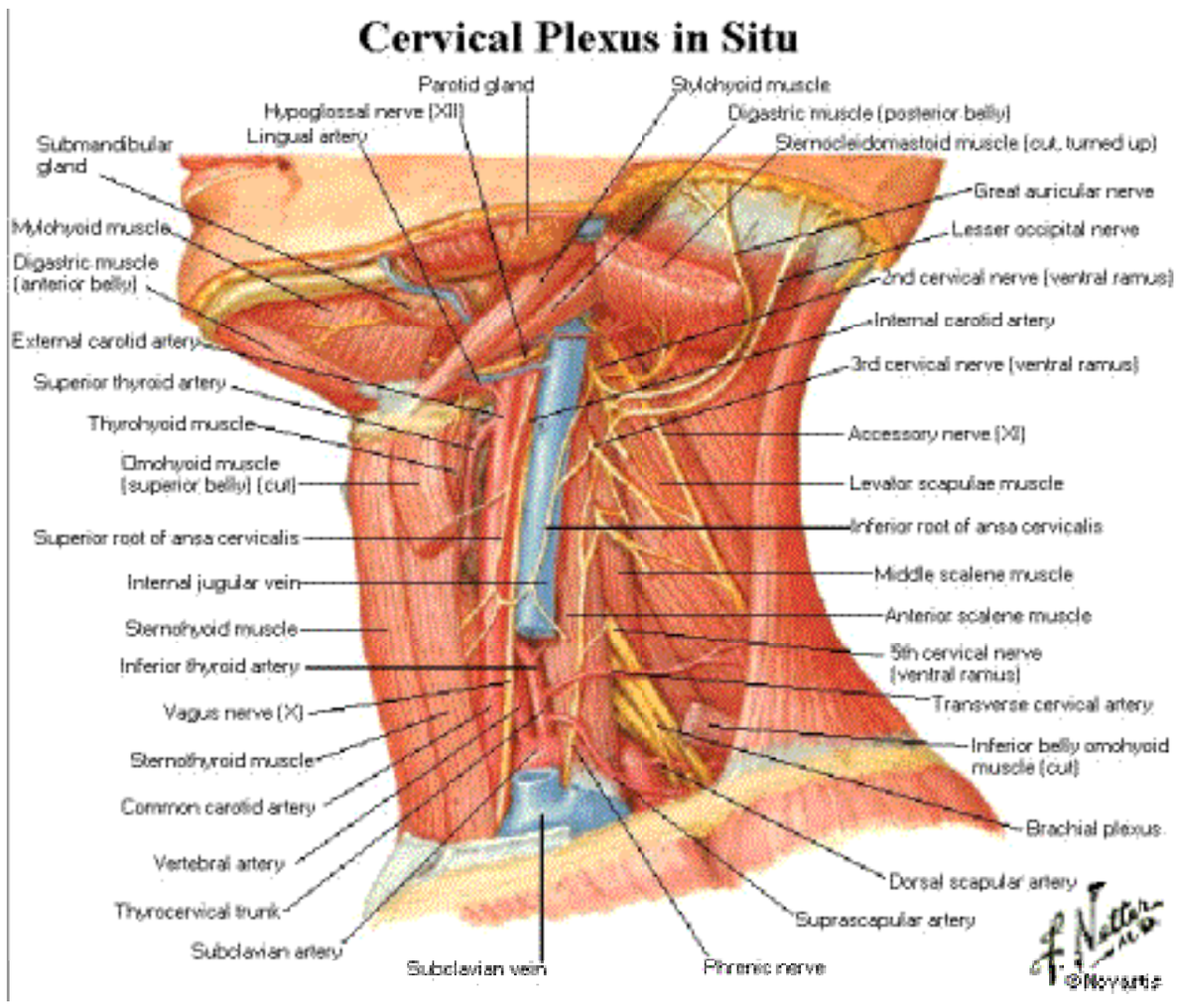
Scalene and Prevertebral Muscles



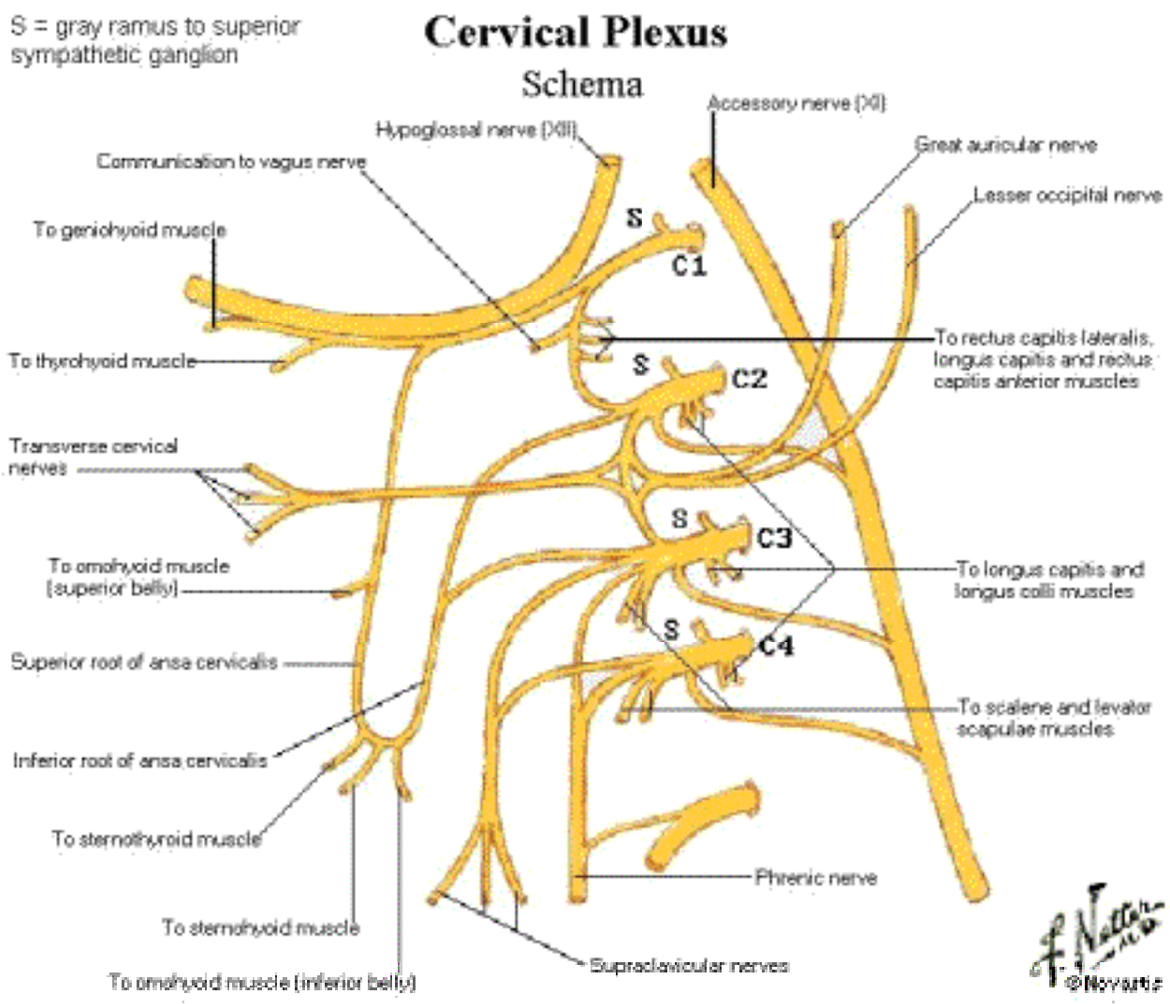
Superficial Veins and Cutaneous Nerves of Neck



Cervical Plexus in Situ

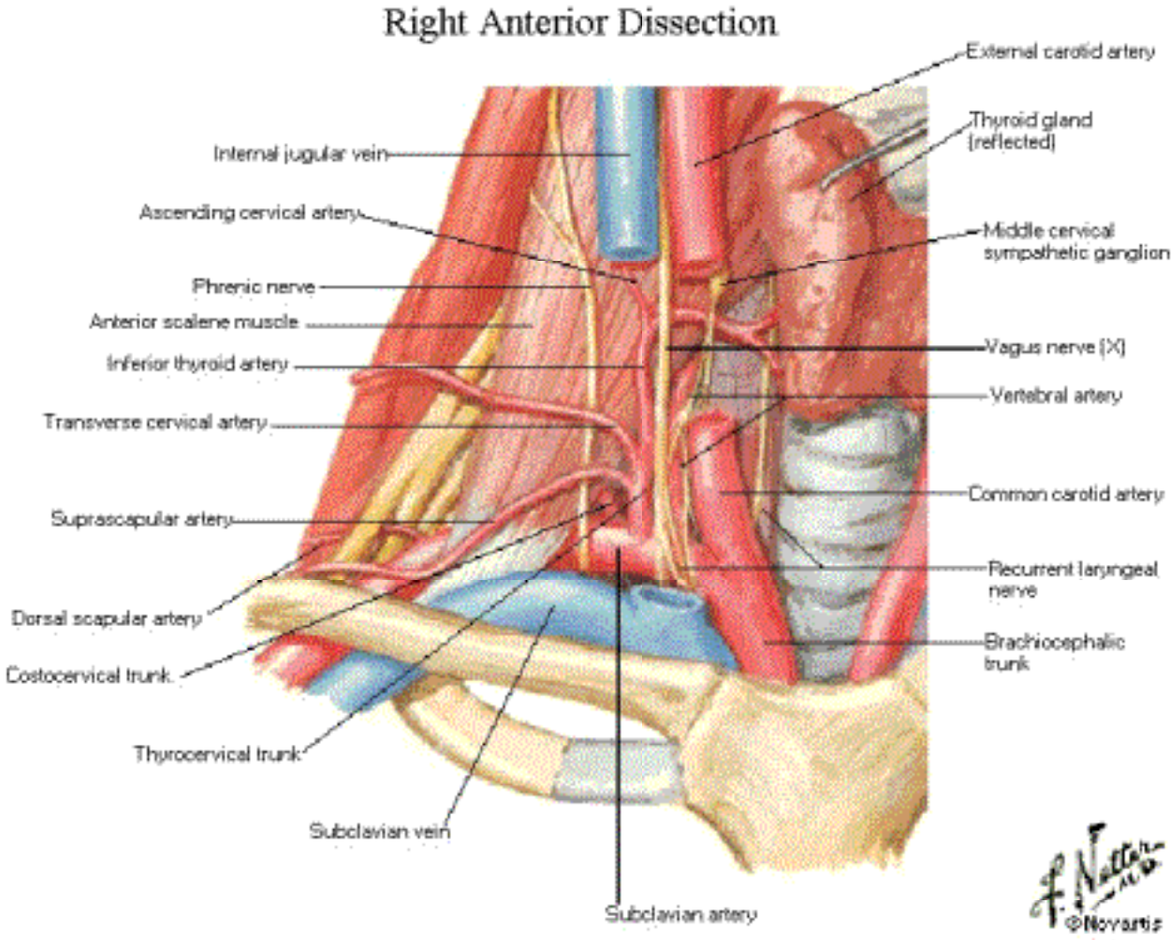


S = gray ramus to superior sympathetic ganglion



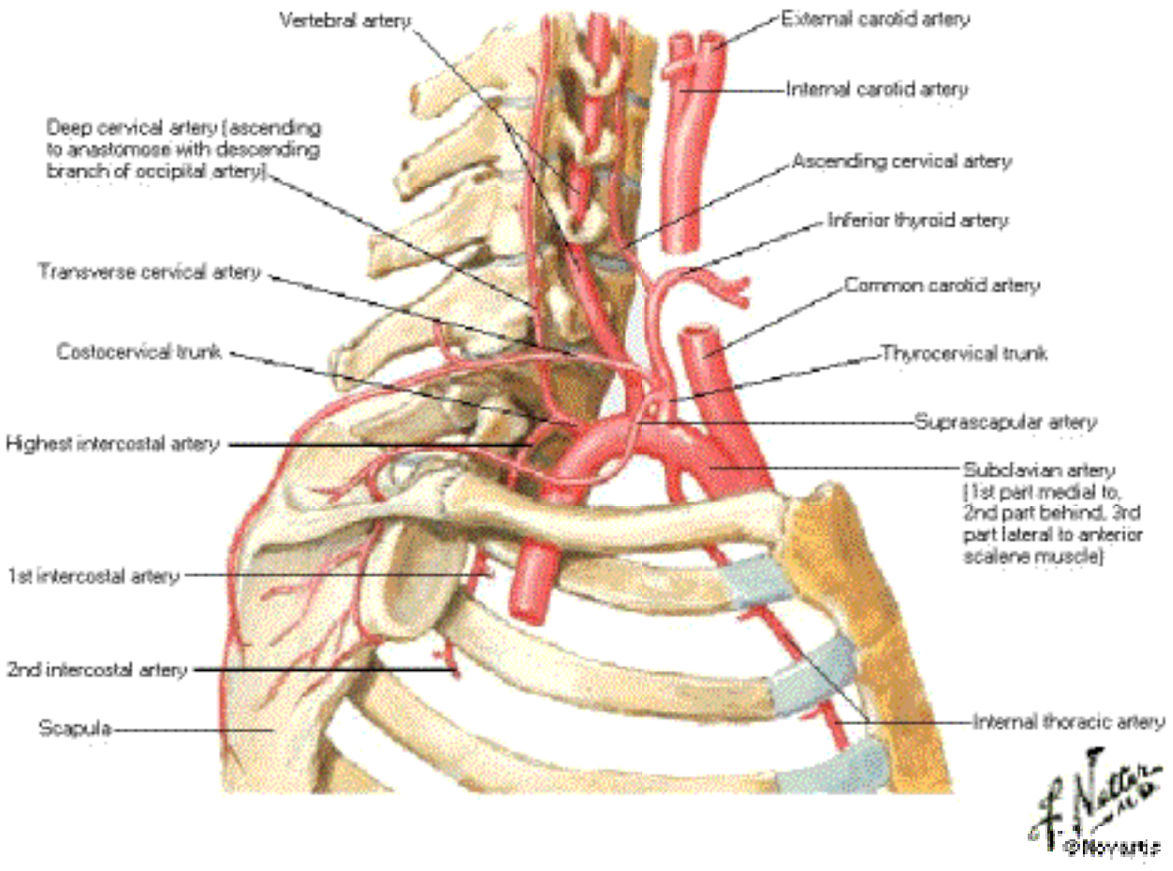
Subclavian Artery

Right Anterior Dissection



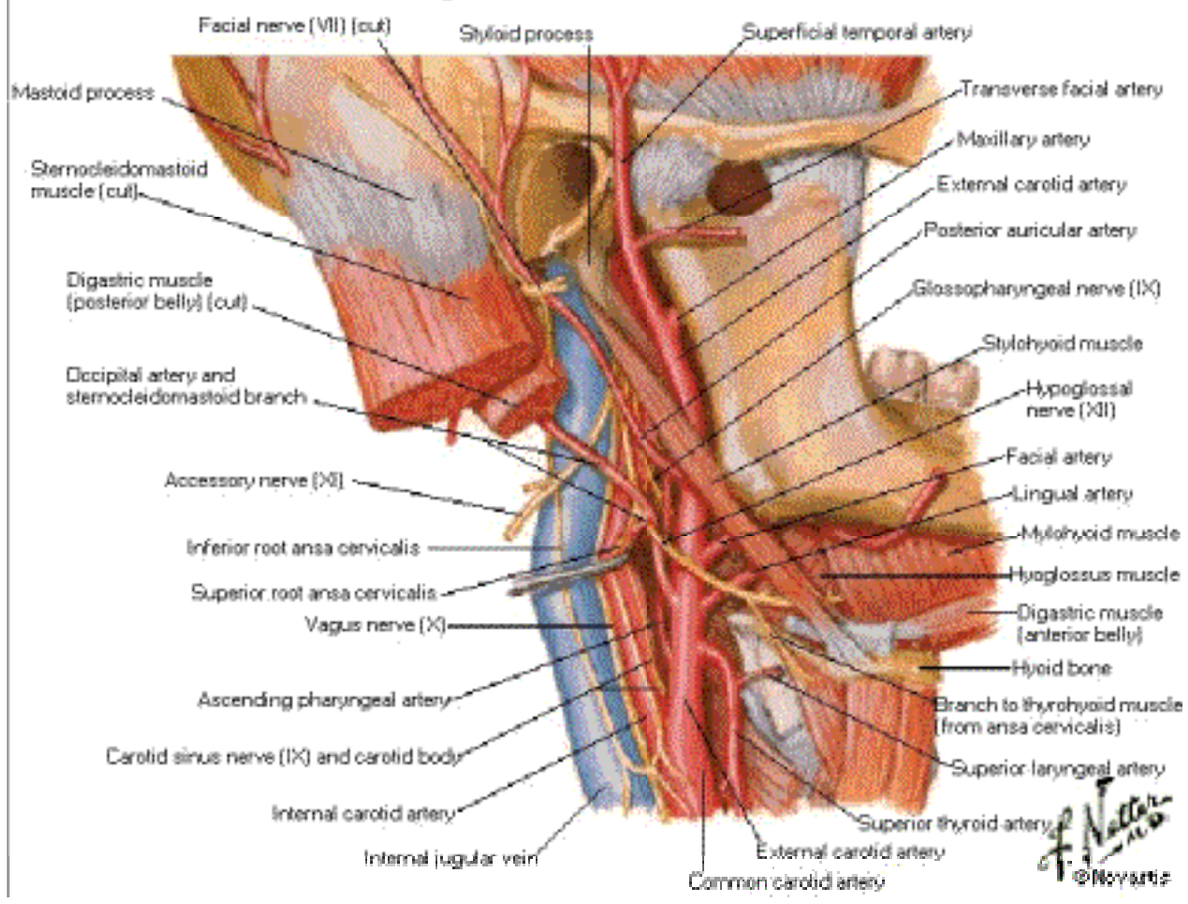
Subclavian Artery

Right Lateral Schematic View



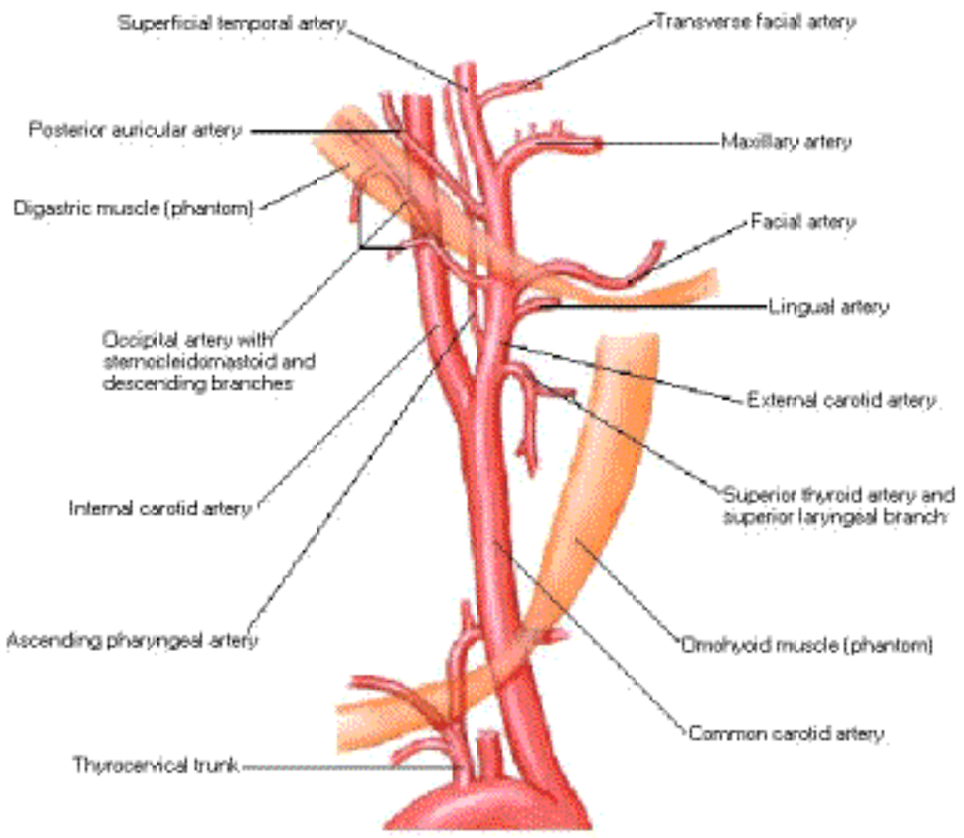
Carotid Arteries - Parotid Fossa

Right Lateral Dissection



External Carotid Artery and Branches

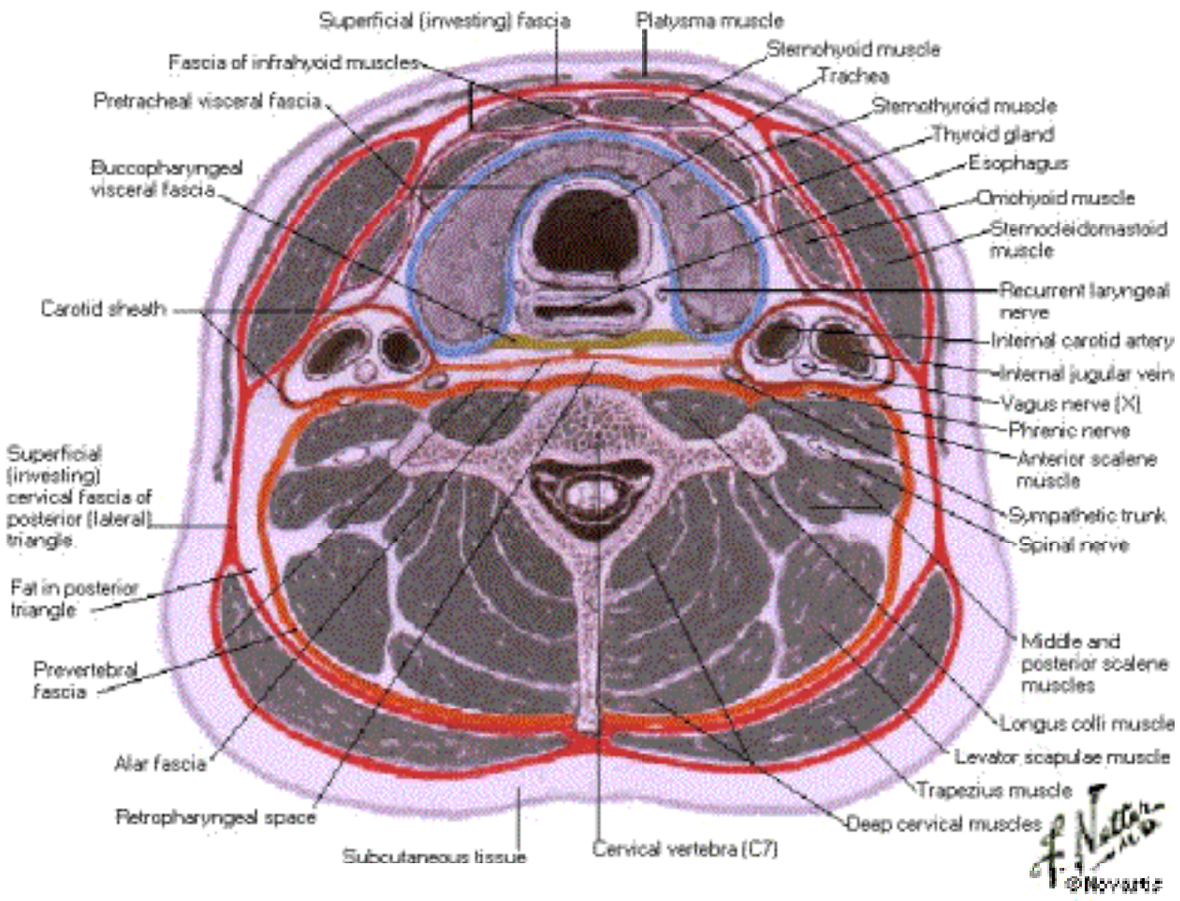
Schema



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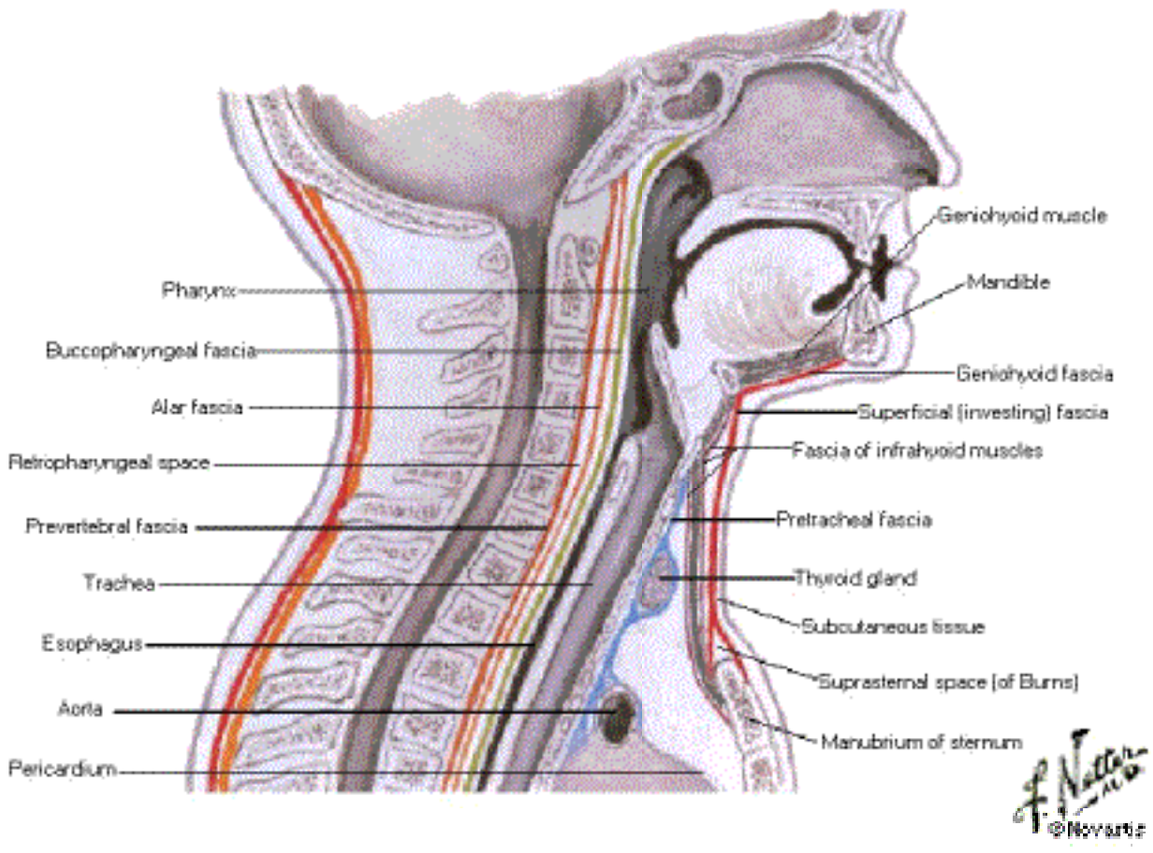
Fascial Layers of Neck

Cross Section



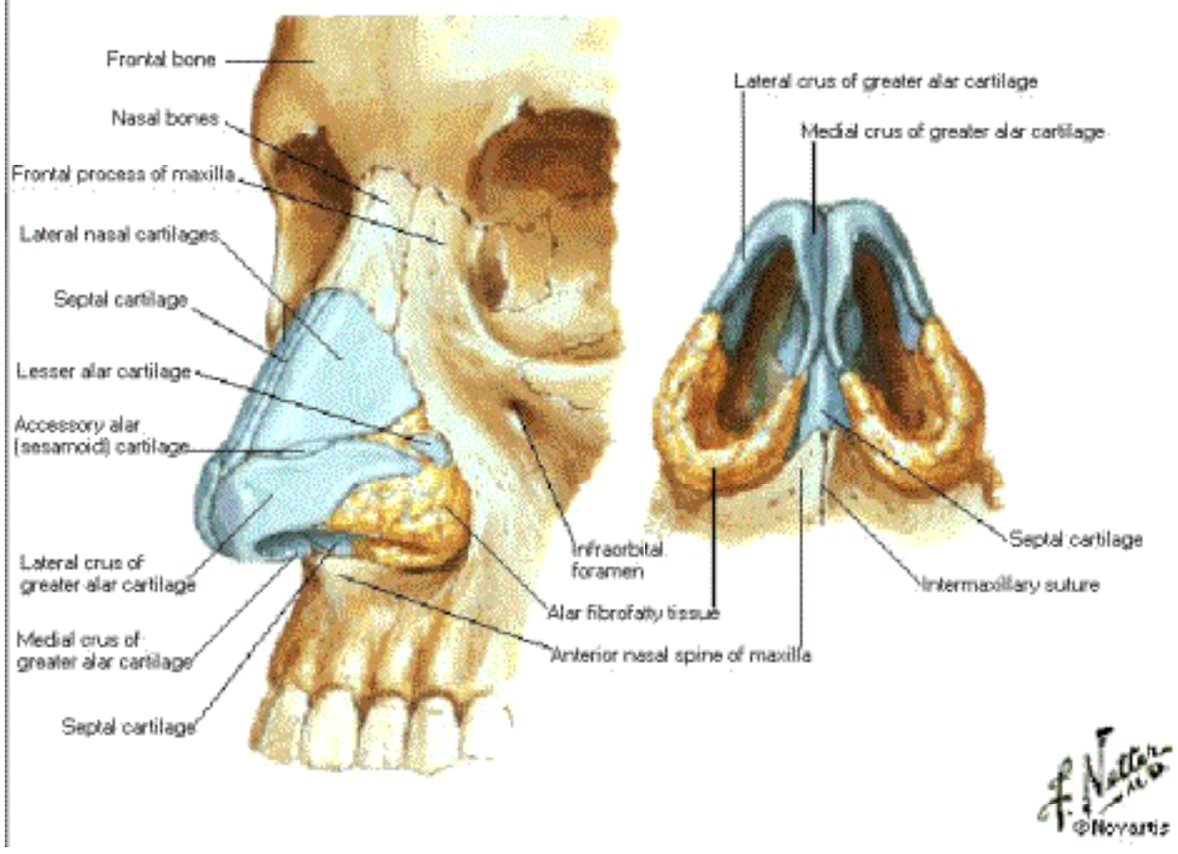
Fascial Layers of Neck

Sagittal Section



External Nose [Skeleton]

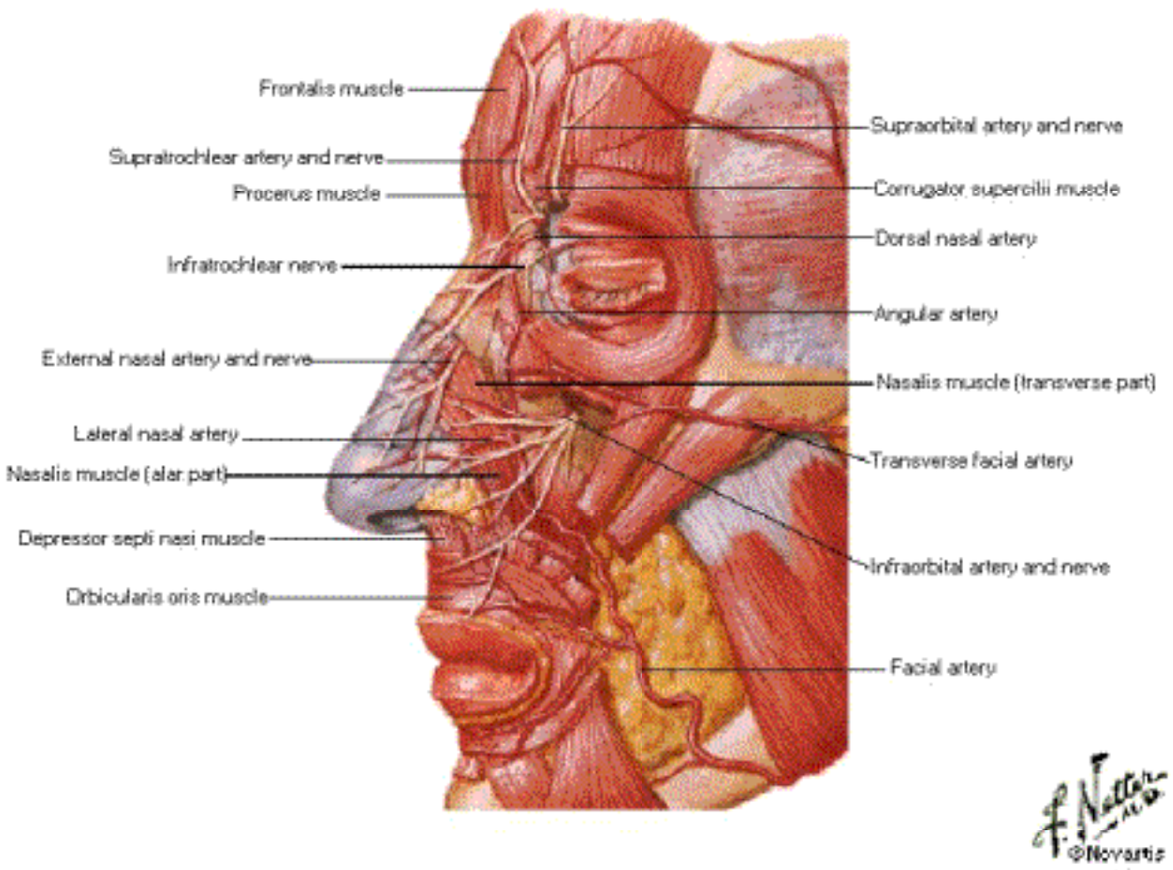
Anterolateral and Inferior Views



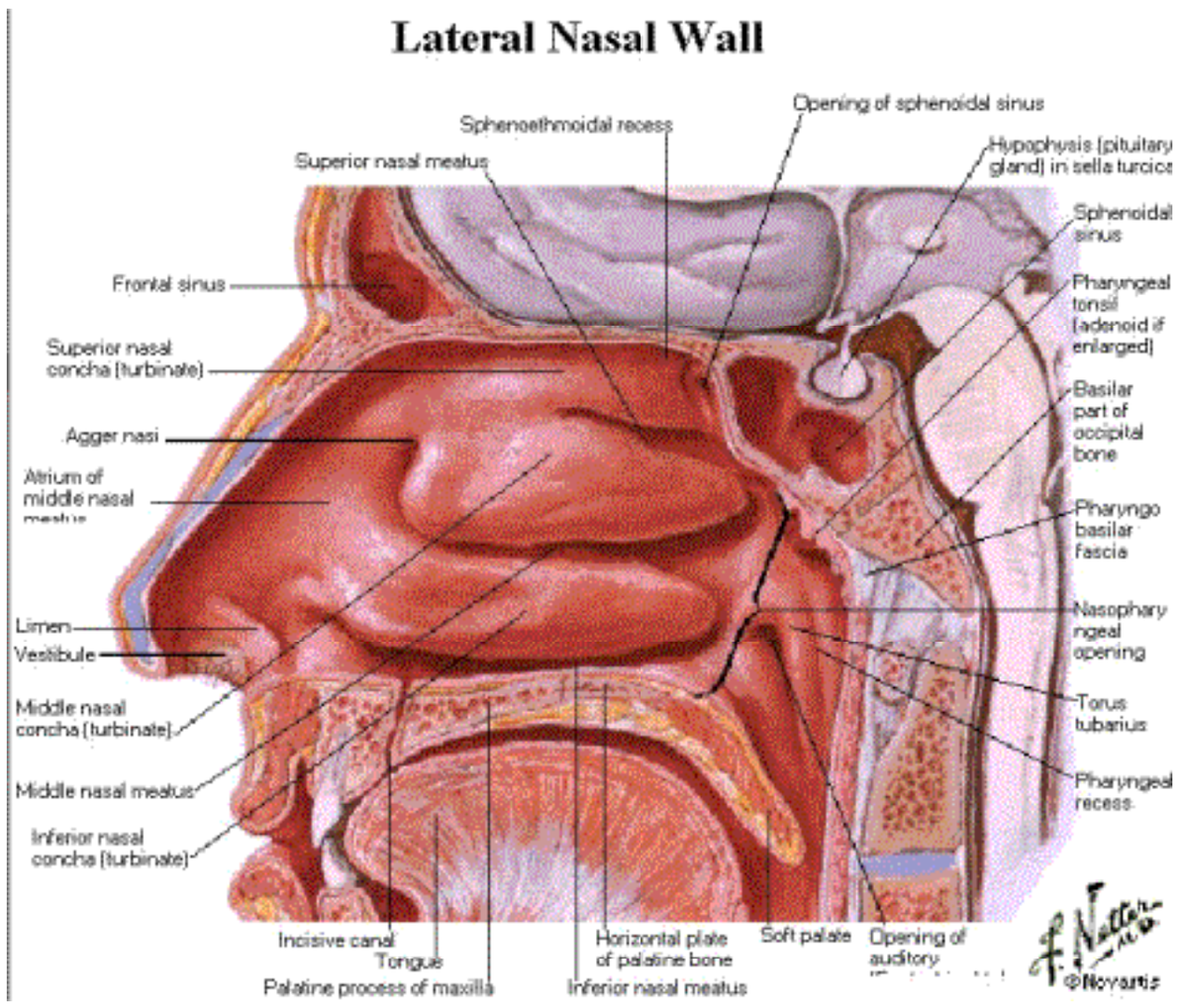
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External Nose [Skeleton] in Situ

Lateral View

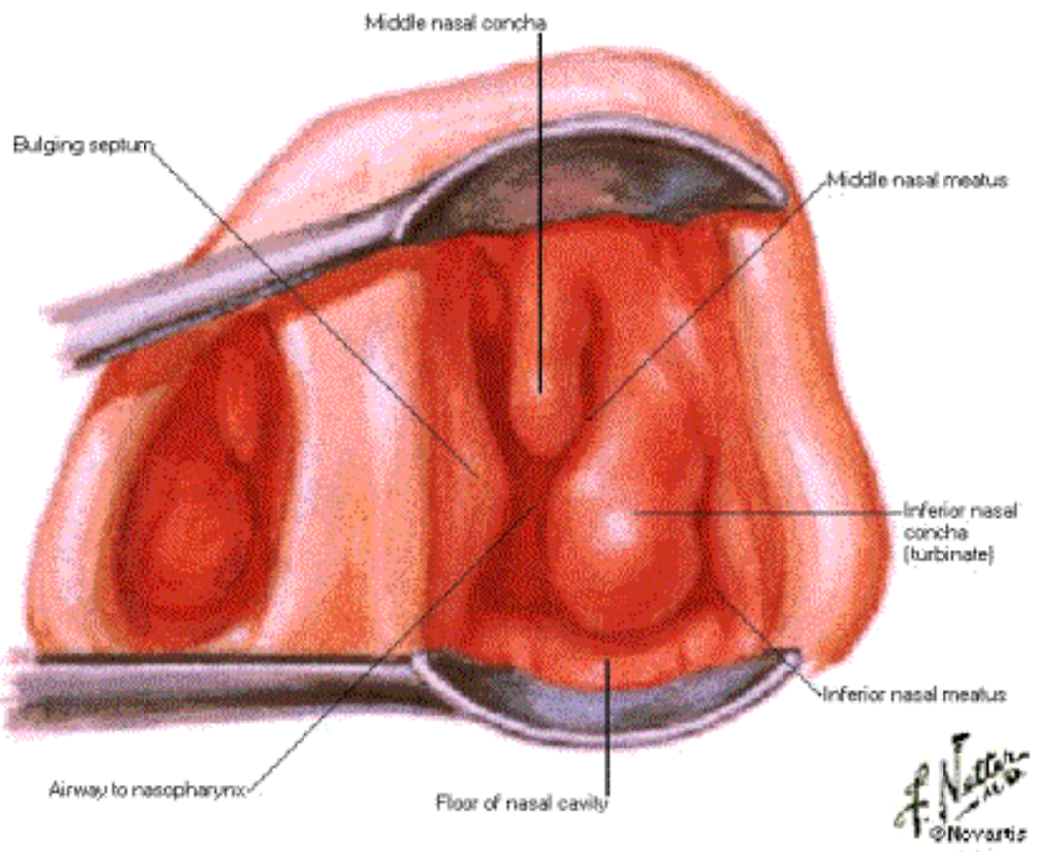


Lateral Nasal Wall

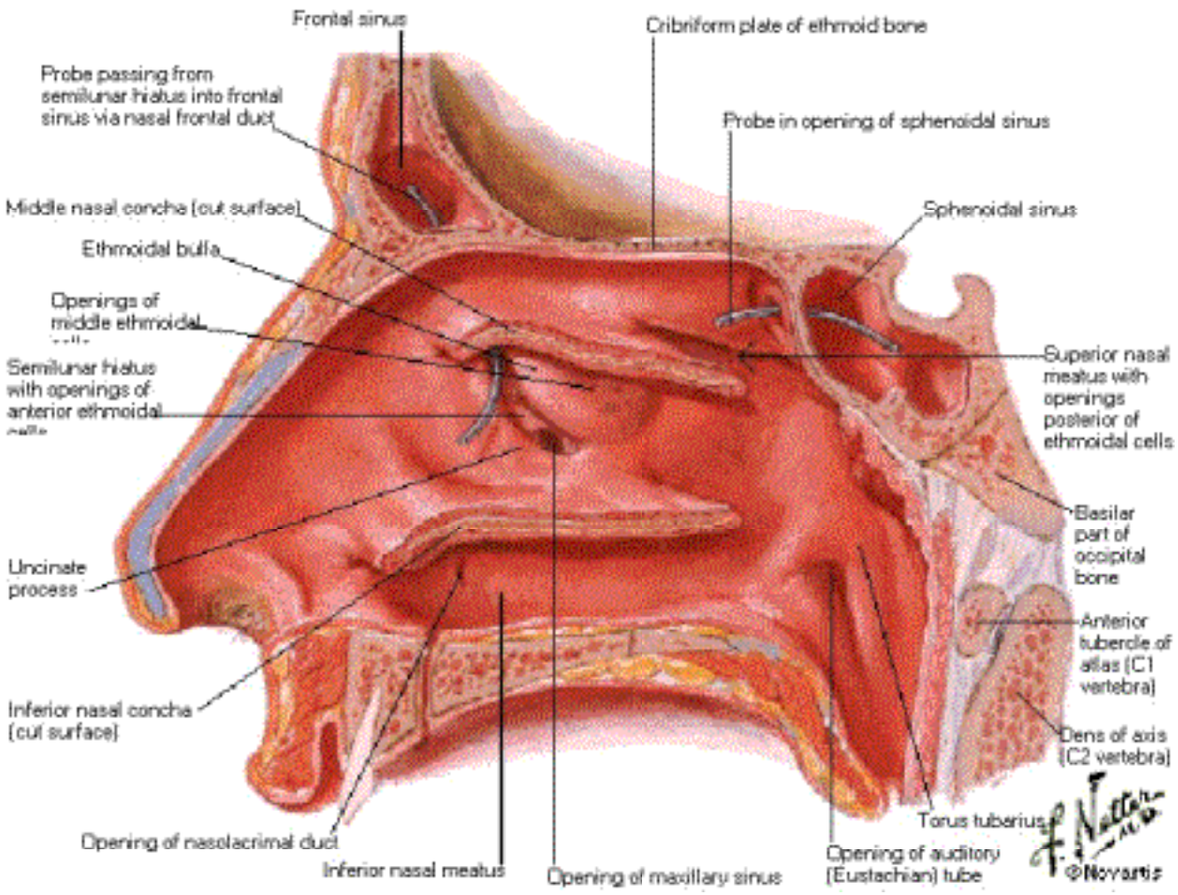


Nasal Cavity

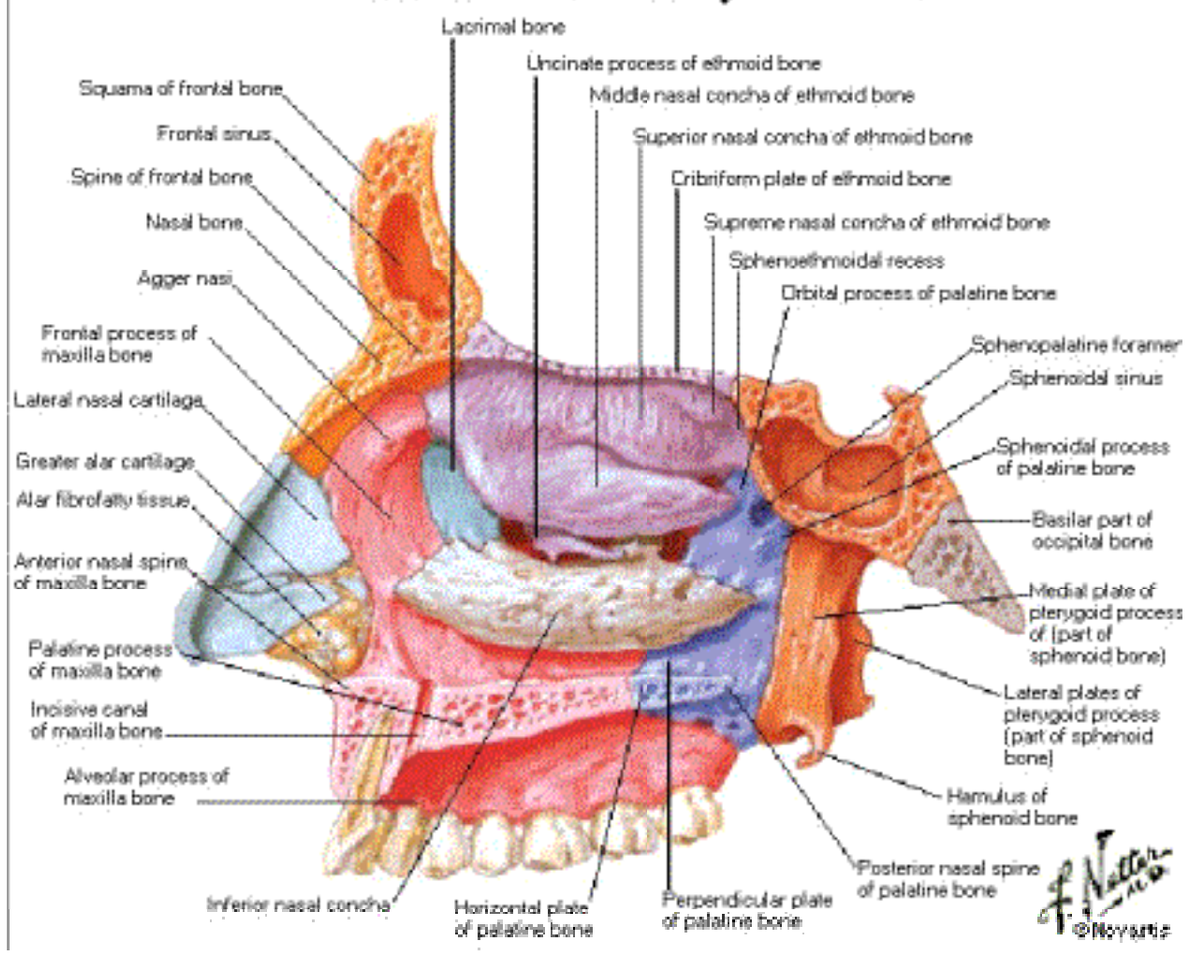
Speculum View



Lateral Nasal Wall - Nasal Conchae Removed

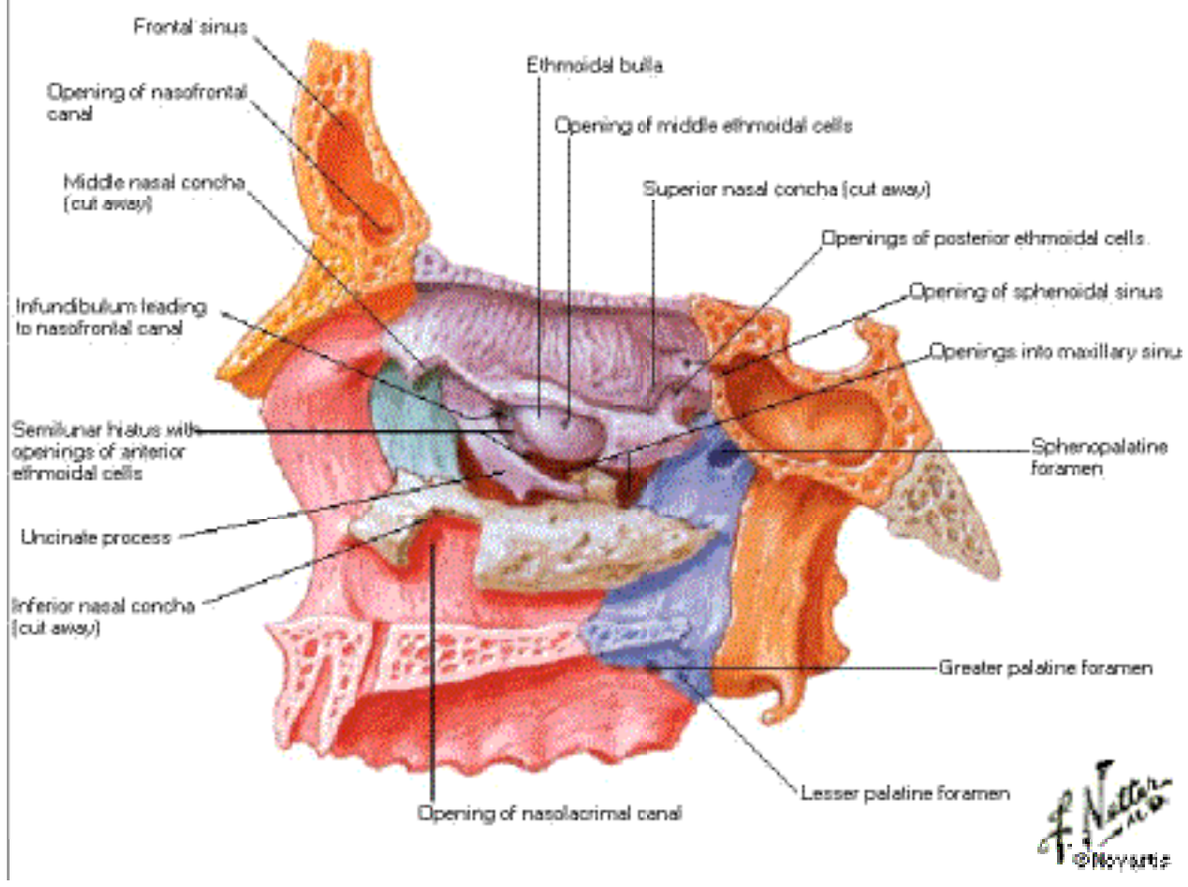


Lateral Nasal Wall - Bony Structure

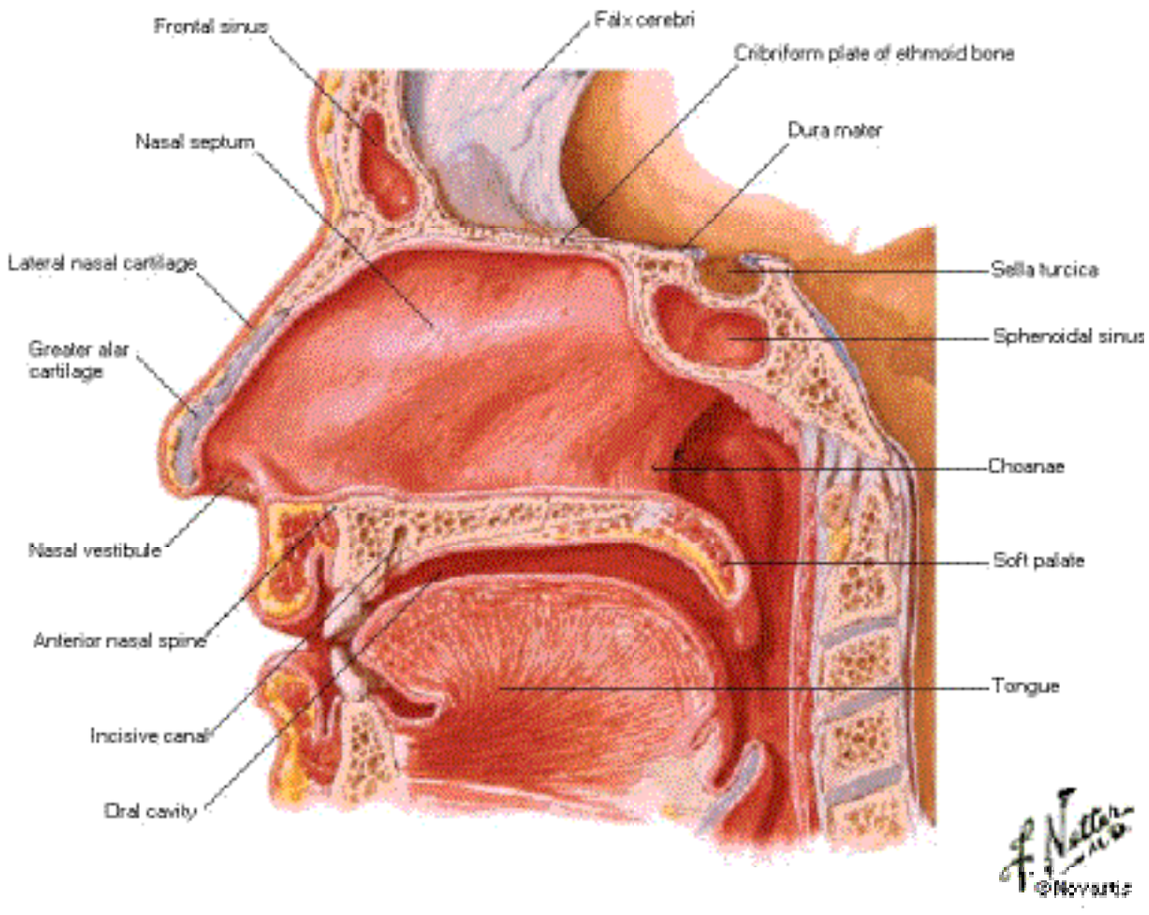


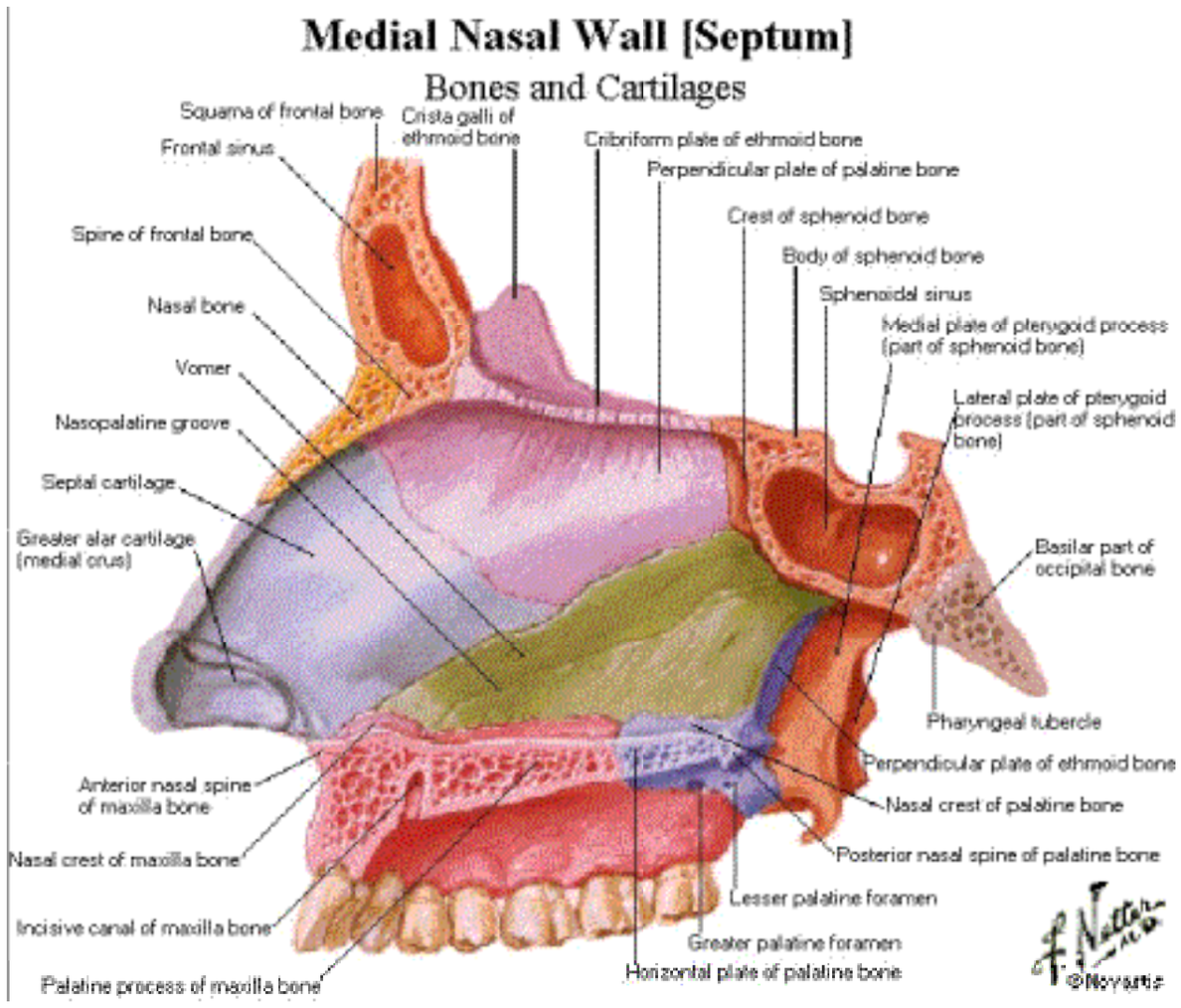
Lateral Nasal Wall - Bony Structure

Nasal Conchae Partly Removed



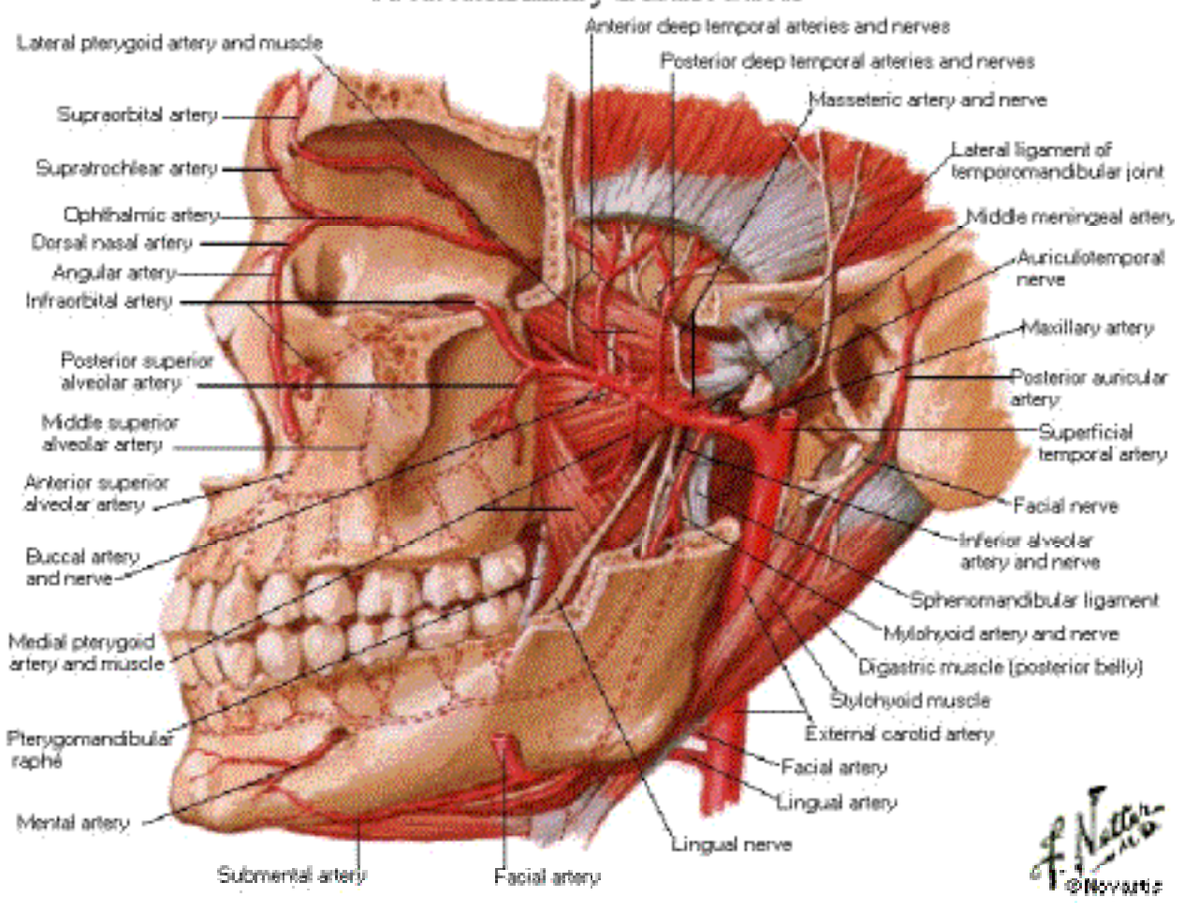
Medial Nasal Wall [Septum]




Medial Nasal Wall [Septum]
Bones and Cartilages
Squama of frontal bone
Crista galli of ethmoid bone
Cribriform plate of ethmoid bone
Frontal sinus
Perpendicular plate of palatine bone
Crest of sphenoid bone
Spine of frontal bone
Body of sphenoid bone
Sphenoidal sinus
Nasal bone
Medial plate of pterygoid process (part of sphenoid bone)
Vomer
Lateral plate of pterygoid process (part of sphenoid bone)
Nasopalatine groove
Septal cartilage
Basilar part of occipital bone
Greater alar cartilage (medial crus)
Pharyngeal tubercle
Perpendicular plate of ethmoid bone
Anterior nasal spine of maxilla bone
Nasal crest of palatine bone
Posterior nasal spine of palatine bone
Nasal crest of maxilla bone
Lesser palatine foramen
Incisive canal of maxilla bone
Greater palatine foramen
Horizontal plate of palatine bone
Palatine process of maxilla bone
©Novartis

Maxillary Artery

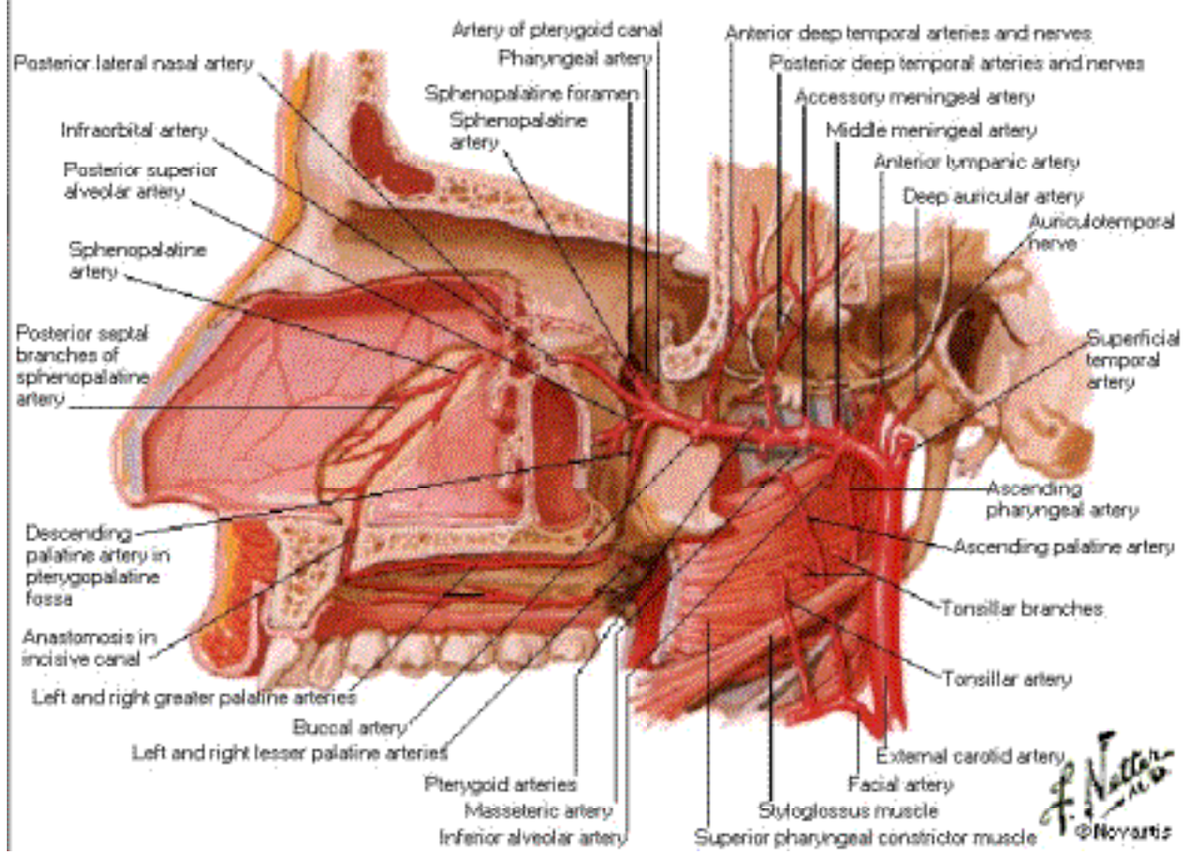
Orbitomaxillary Distribution

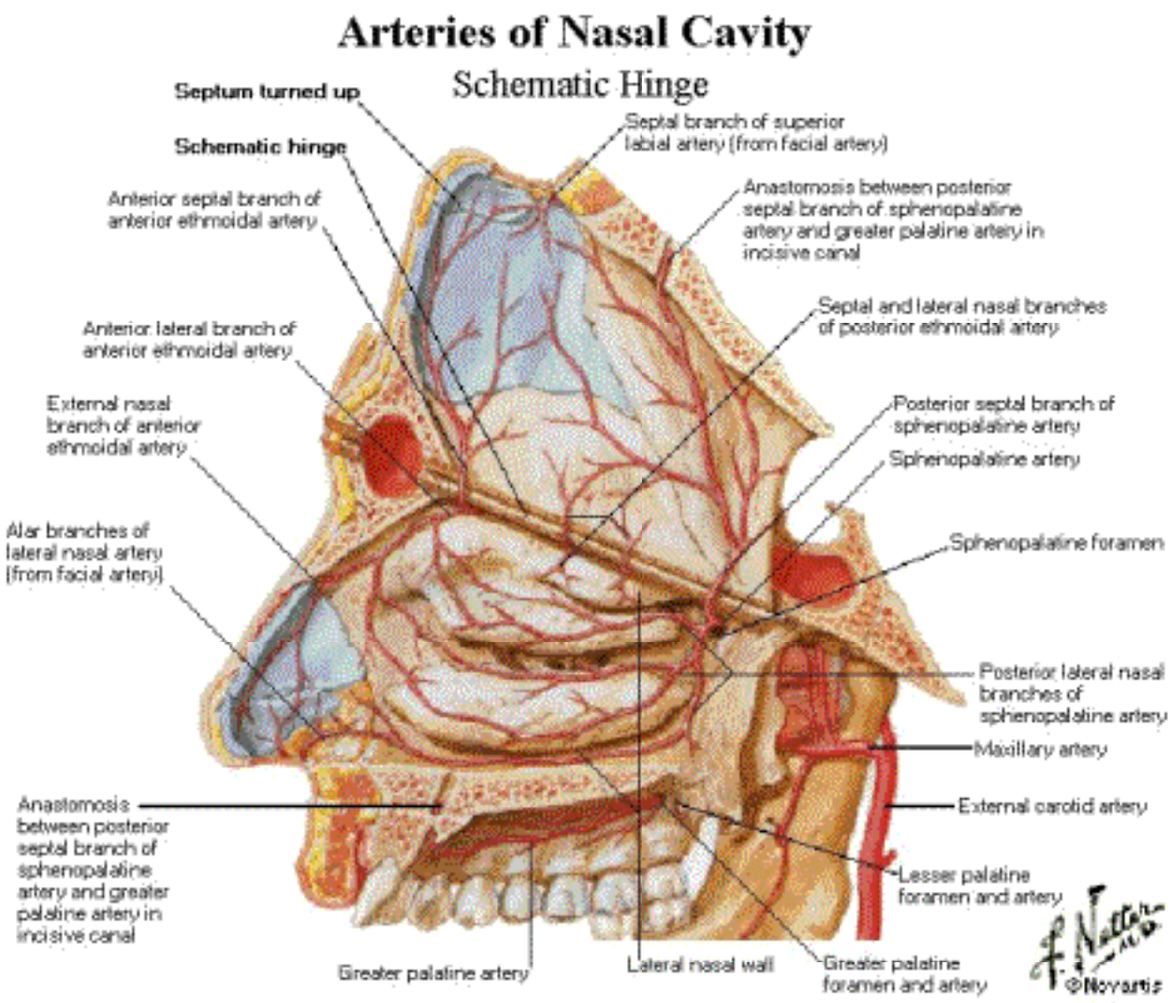


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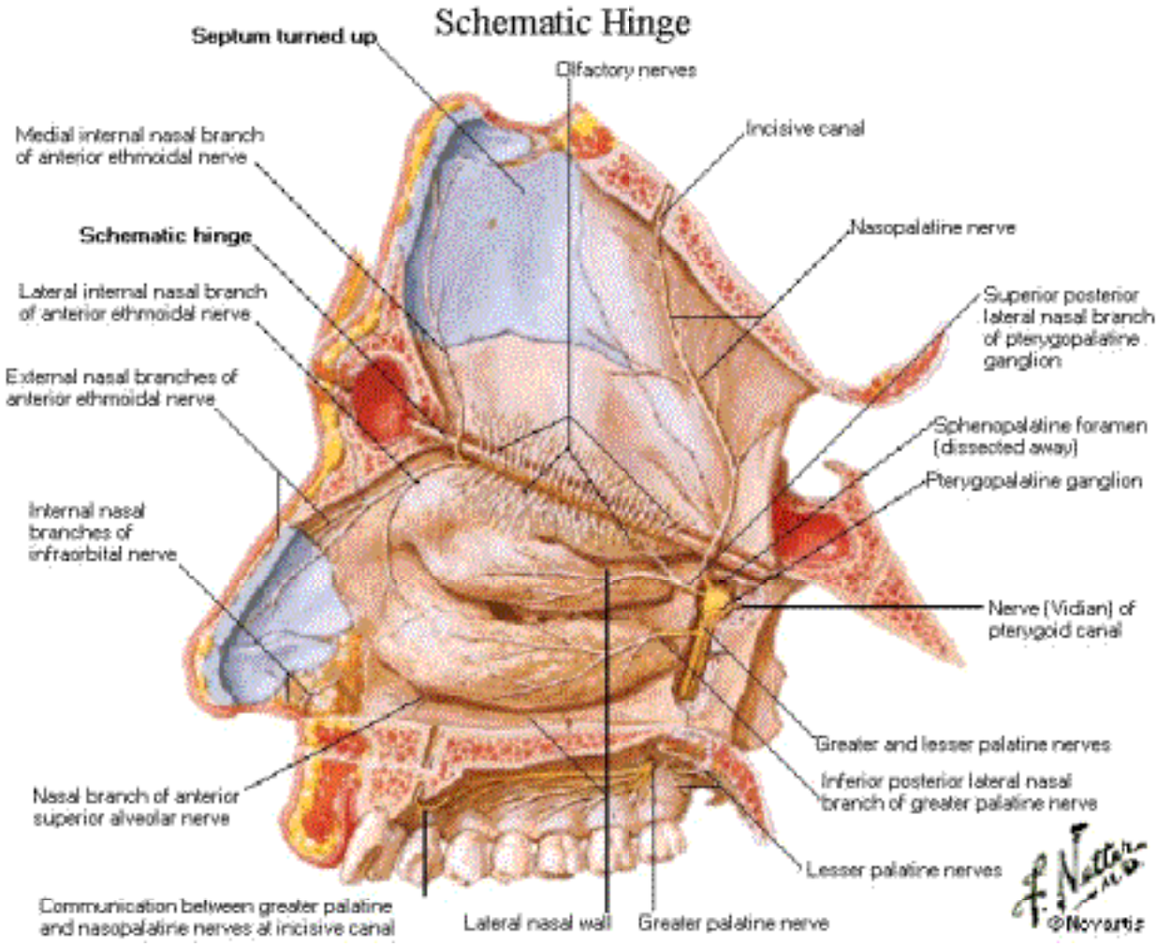
Maxillary Artery

Nasopalatine Distribution



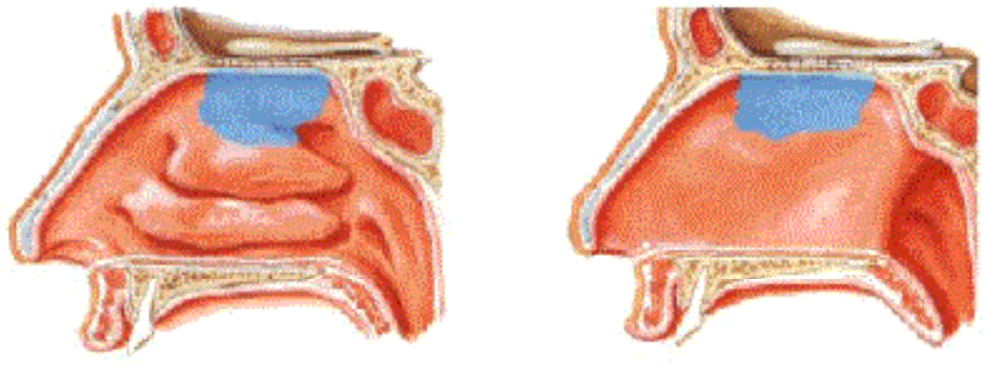

Arteries of Nasal Cavity
Schematic Hinge
Septum turned up
Schematic hinge
Anterior septal branch of anterior ethmoidal artery
Anterior lateral branch of anterior ethmoidal artery
External nasal branch of anterior ethmoidal artery
Alar branches of lateral nasal artery (from facial artery)
Anastomosis between posterior septal branch of sphenopalatine artery and greater palatine artery in incisive canal
Greater palatine artery
Septal branch of superior labial artery (from facial artery)
Anastomosis between posterior septal branch of sphenopalatine artery and greater palatine artery in incisive canal
Septal and lateral nasal branches of posterior ethmoidal artery
Posterior septal branch of sphenopalatine artery
Sphenopalatine artery
Sphenopalatine foramen
Posterior lateral nasal branches of sphenopalatine artery
Maxillary artery
External carotid artery
Lesser palatine foramen and artery
Lateral nasal wall
Greater palatine foramen and artery
©Novartis

Nerves of Nasal Cavity



Nerves of Nasal Cavity

Distribution of Olfactory Mucosa



Lateral nasal wall

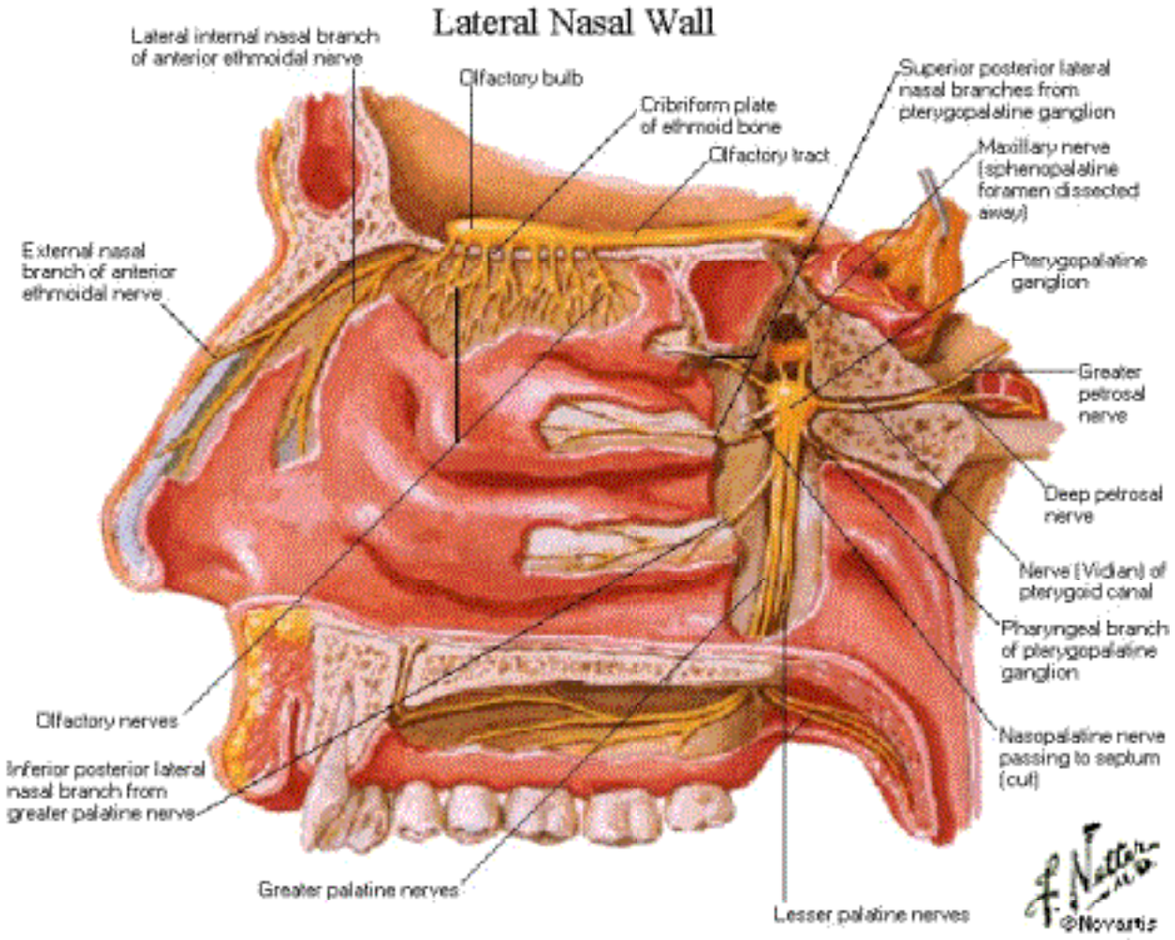
Nasal septum

Note: Distribution of olfactory mucosa is shaded blue.

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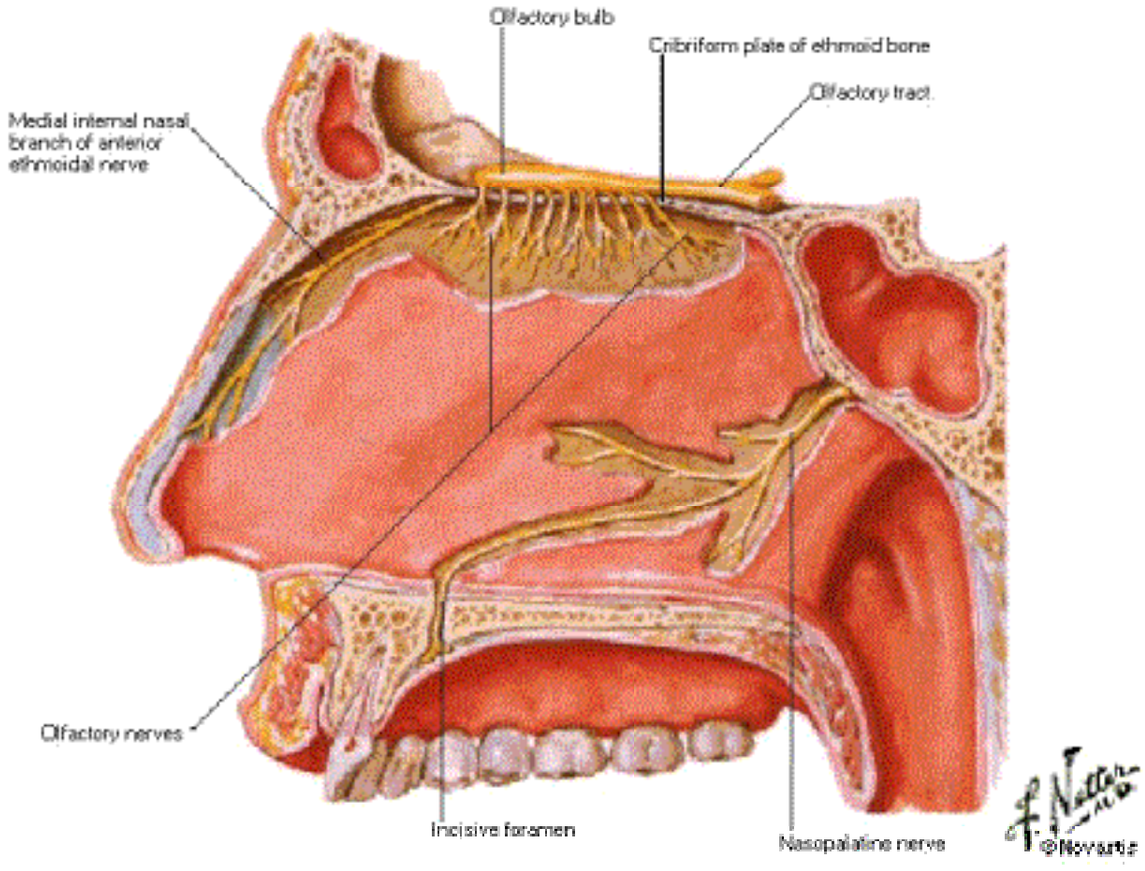
Nerves of Nasal Cavity

Lateral Nasal Wall

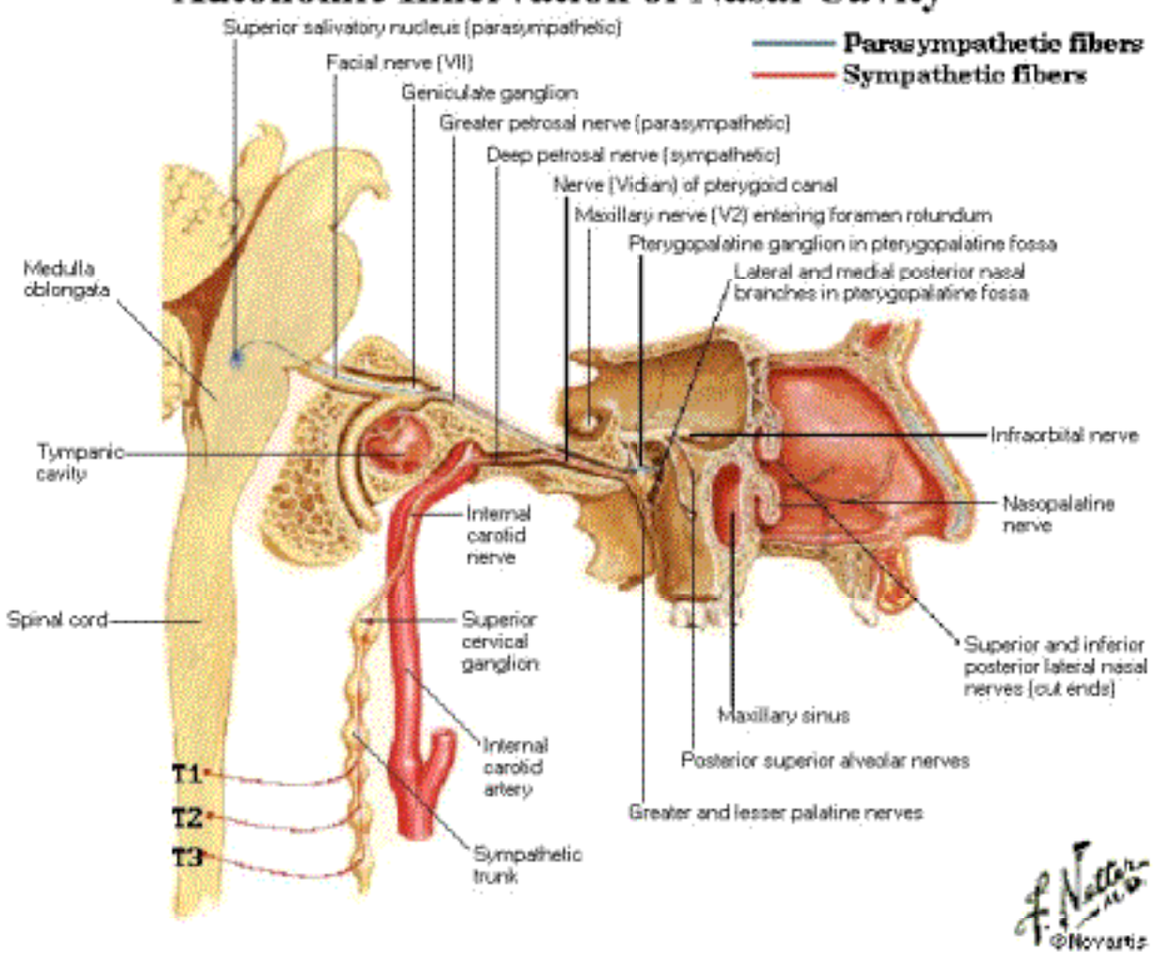


Nerves of Nasal Cavity

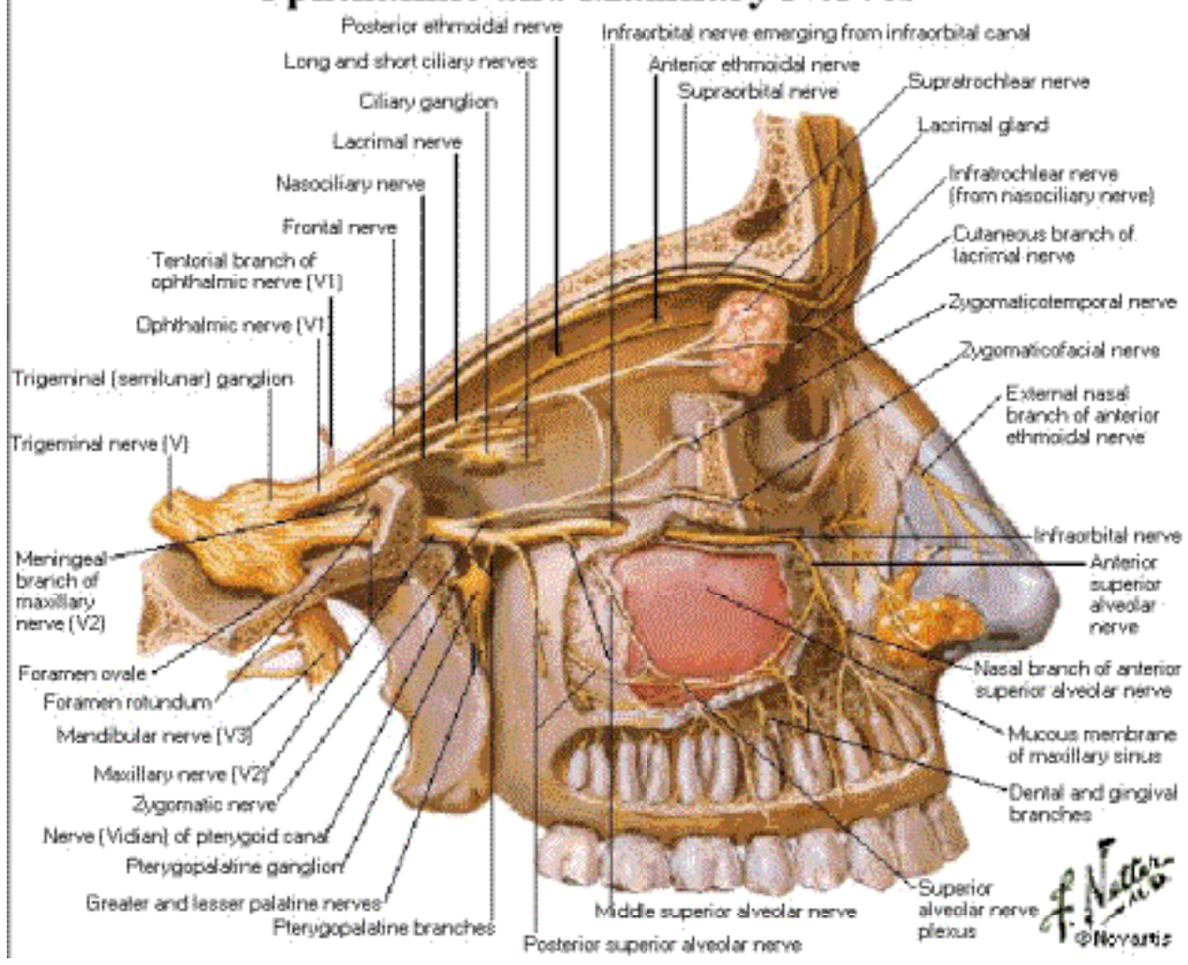
Nasal Septum



Autonomic Innervation of Nasal Cavity

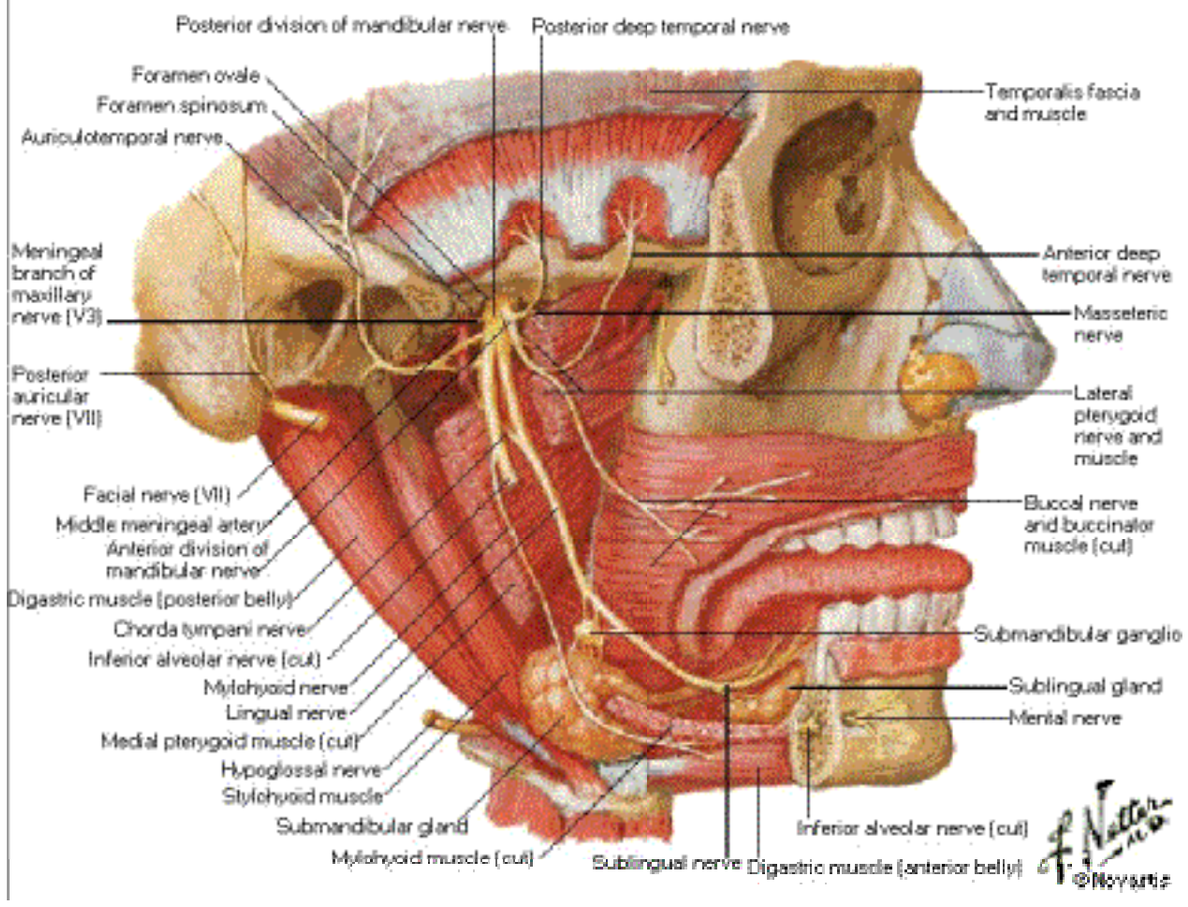


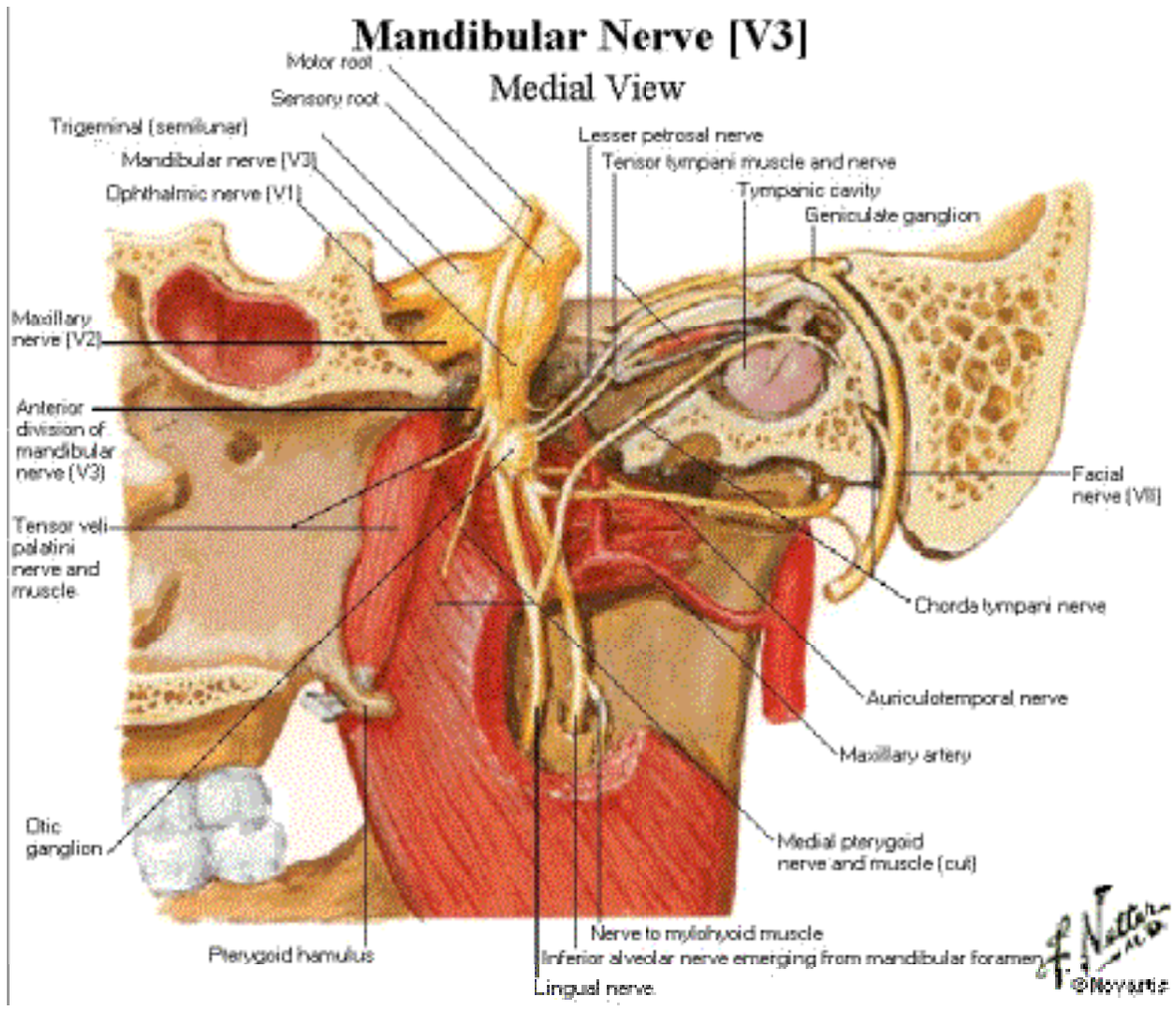
Ophthalmic and Maxillary Nerves



Mandibular Nerve [V3]

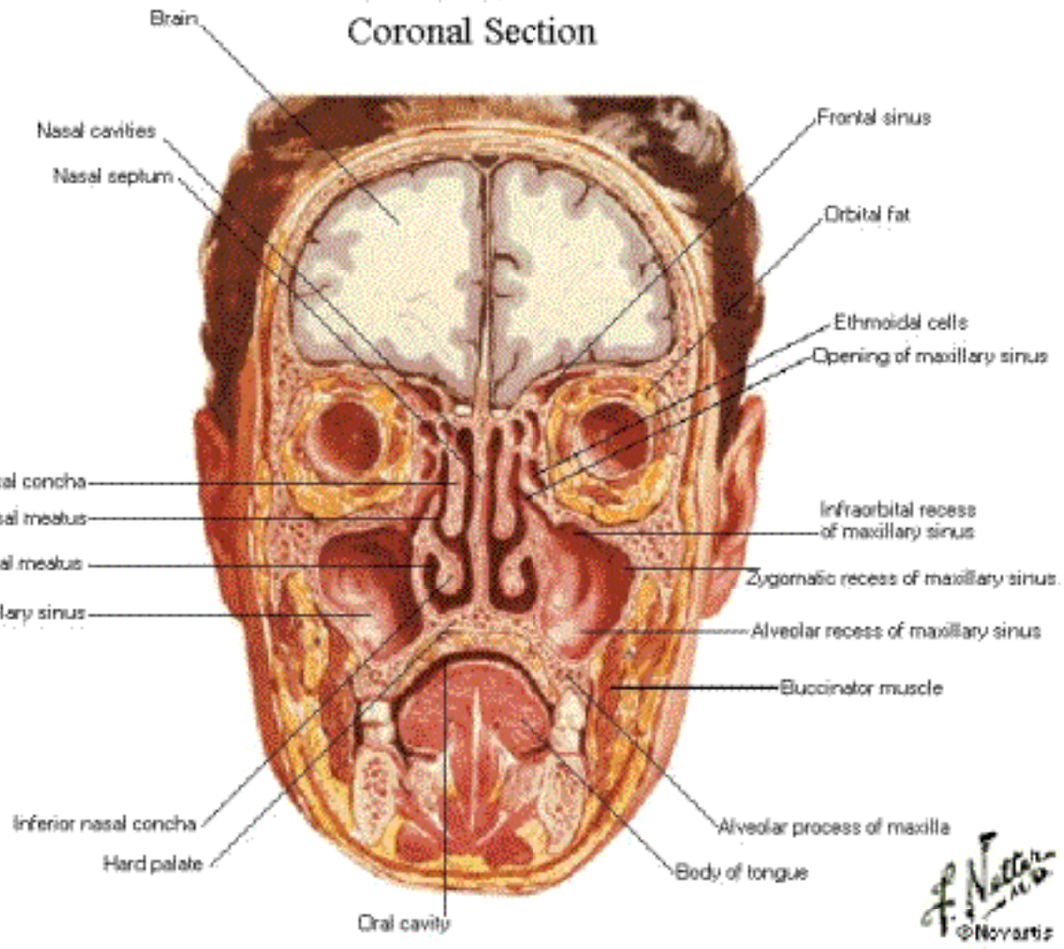
Lateral View




Mandibular Nerve [V3]
Medial View
Motor root
Sensory root
Trigeminal (semilunar)
Mandibular nerve (V3)
Ophthalmic nerve (V1)
Lesser petrosal nerve
Tensor tympani muscle and nerve
Tympanic cavity
Geniculate ganglion
Maxillary nerve (V2)
Anterior division of mandibular nerve (V3)
Tensor veli palatini nerve and muscle
Facial nerve (VII)
Chorda tympani nerve
Auriculotemporal nerve
Maxillary artery
Otic ganglion
Medial pterygoid nerve and muscle (cut)
Nerve to mylohyoid muscle
Pterygoid hamulus
Inferior alveolar nerve emerging from mandibular foramen
Lingual nerve
©Novartis

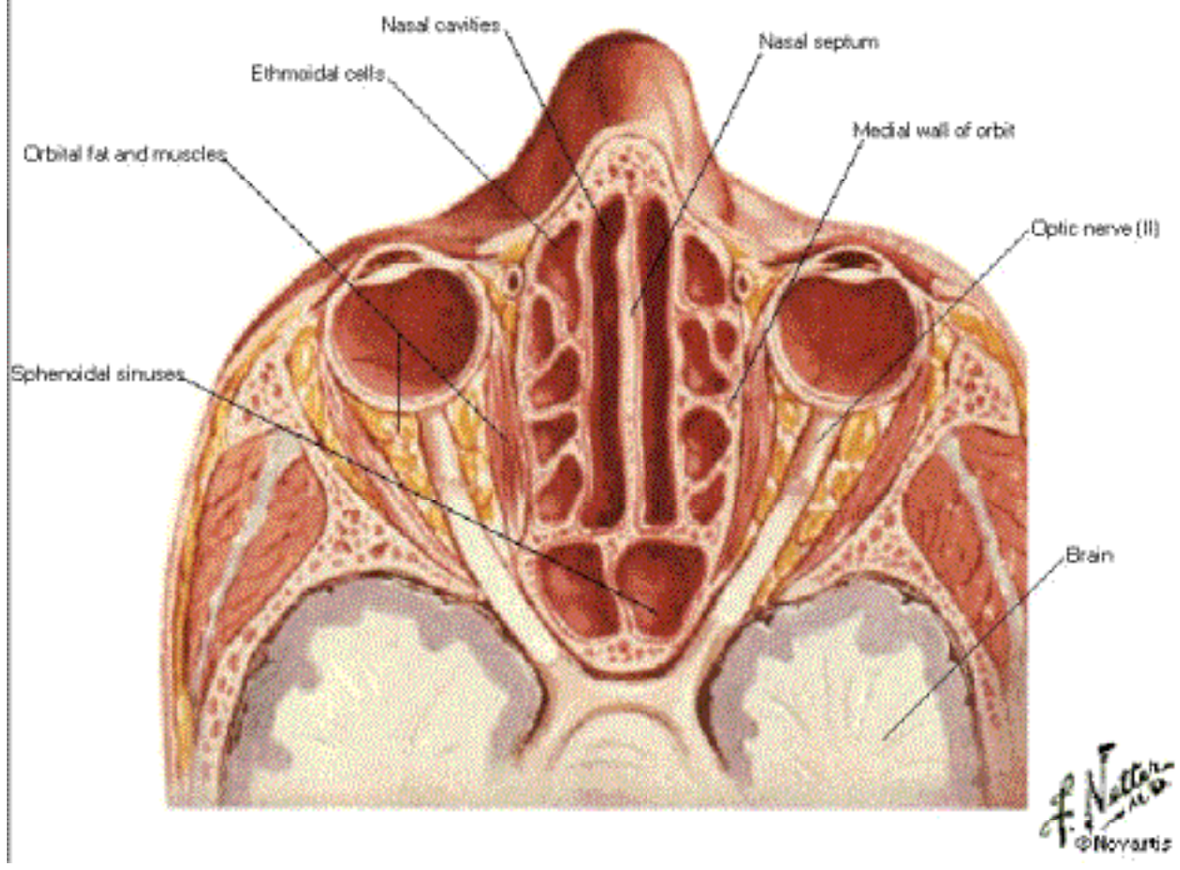
Paranasal Sinuses

Coronal Section



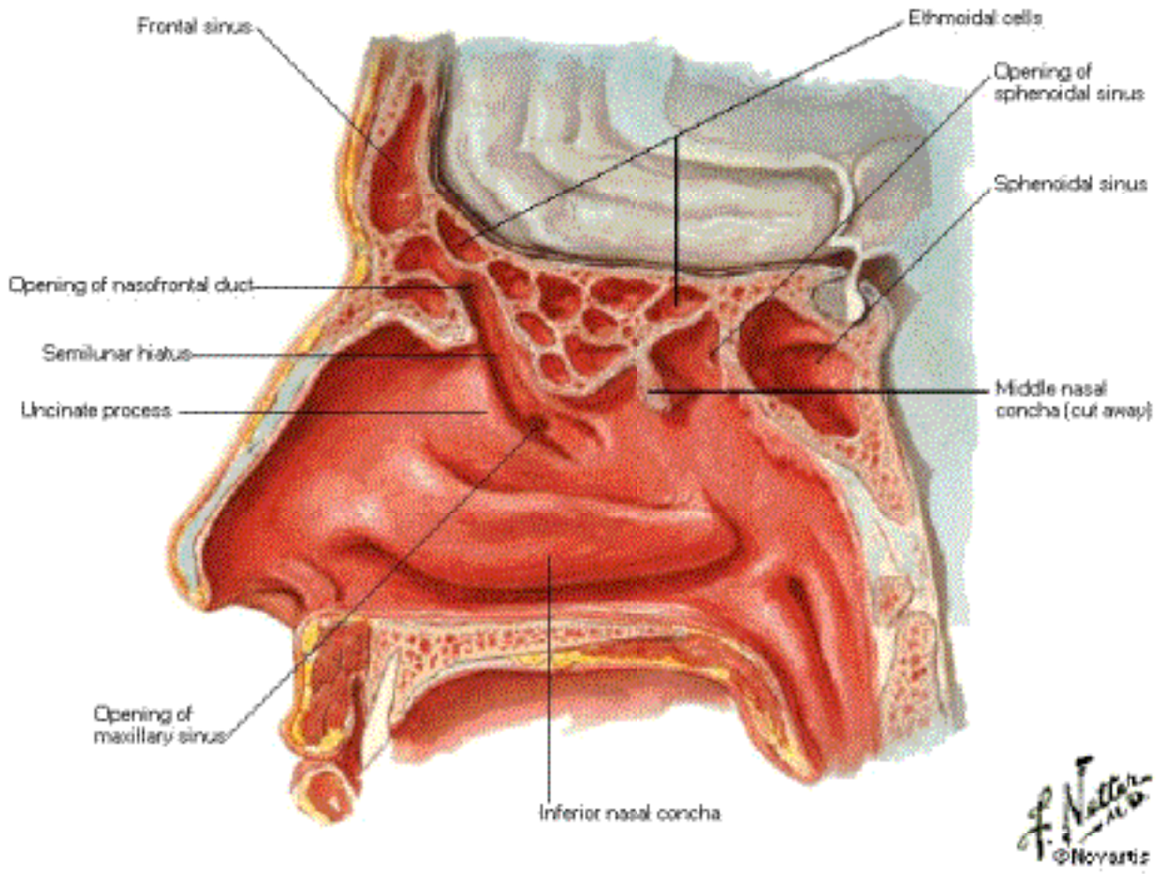
Paranasal Sinuses

Horizontal Section



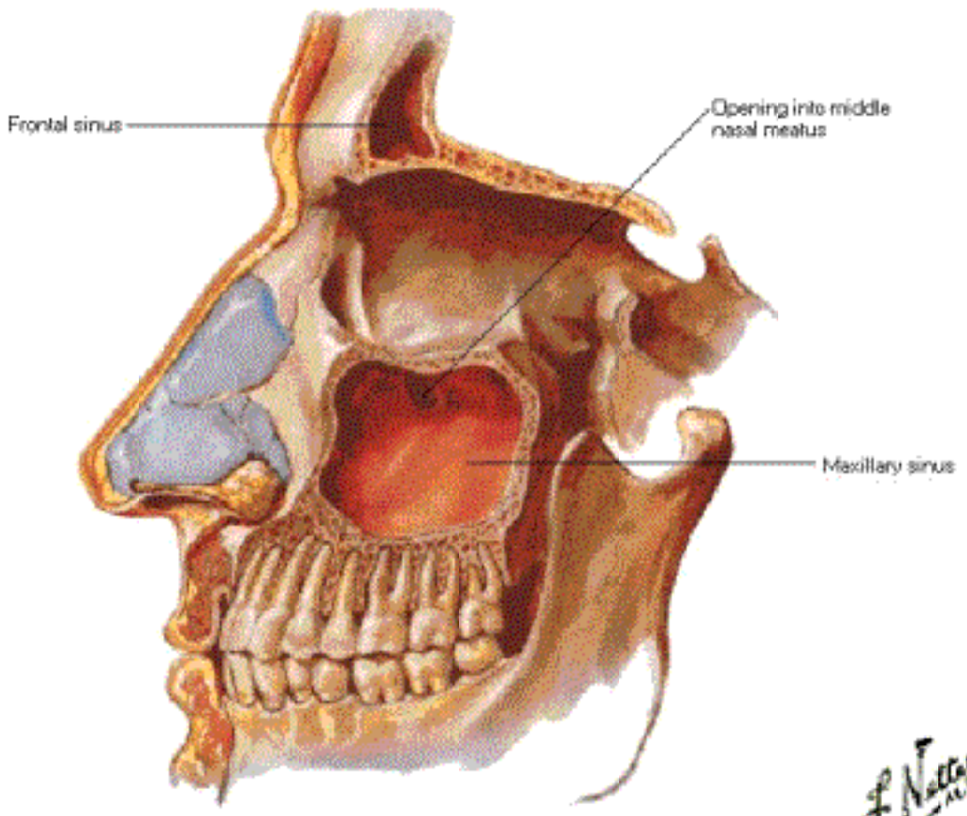
Paranasal Sinuses

Sagittal Section



Paranasal Sinuses

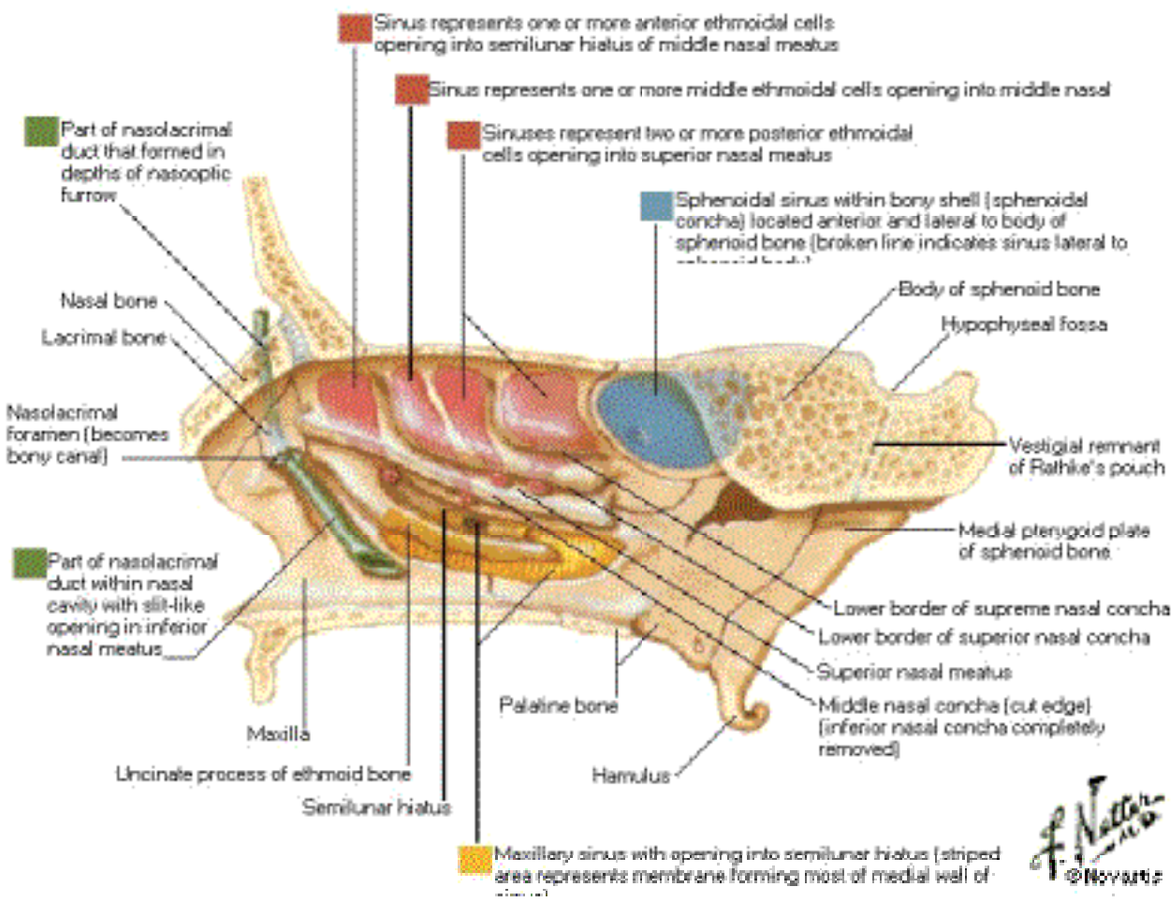
Lateral Dissection



©Novartis

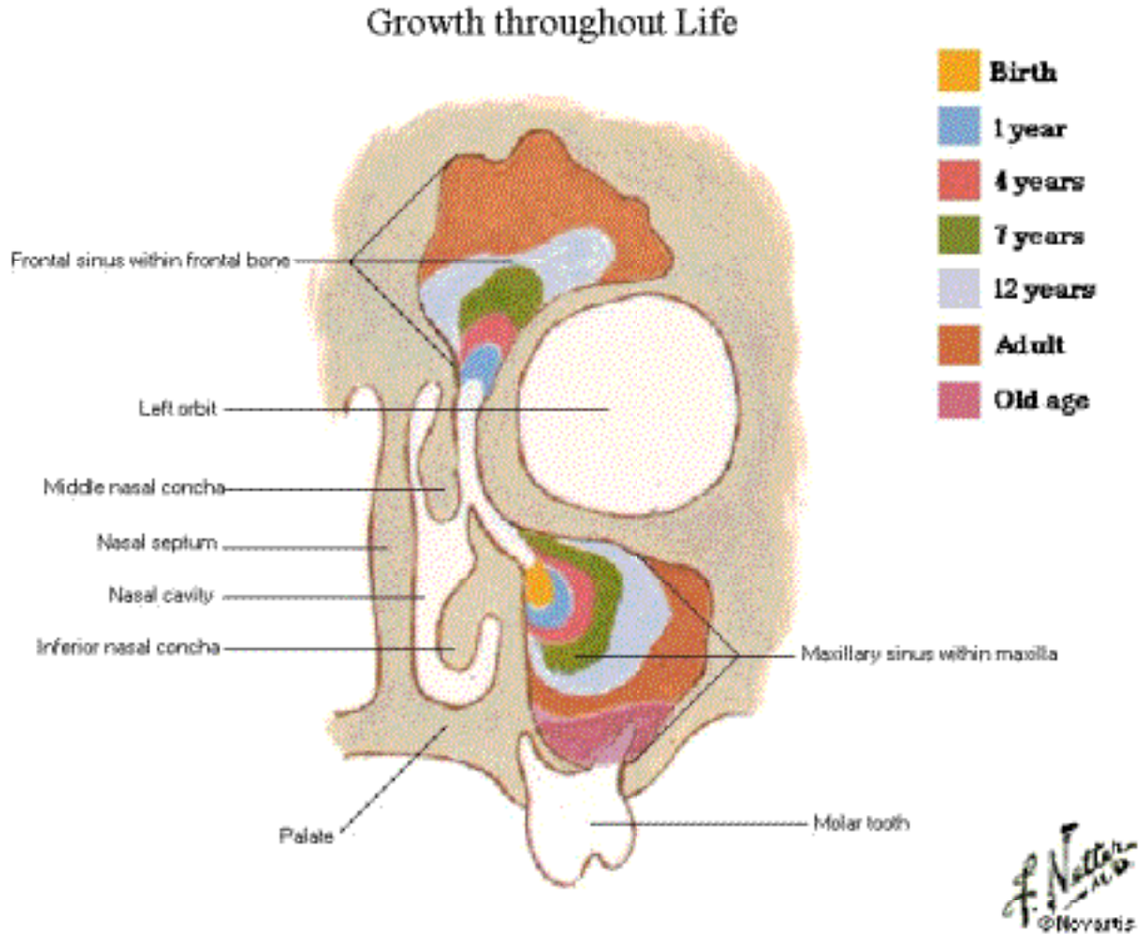
Paranasal Sinuses

At Birth



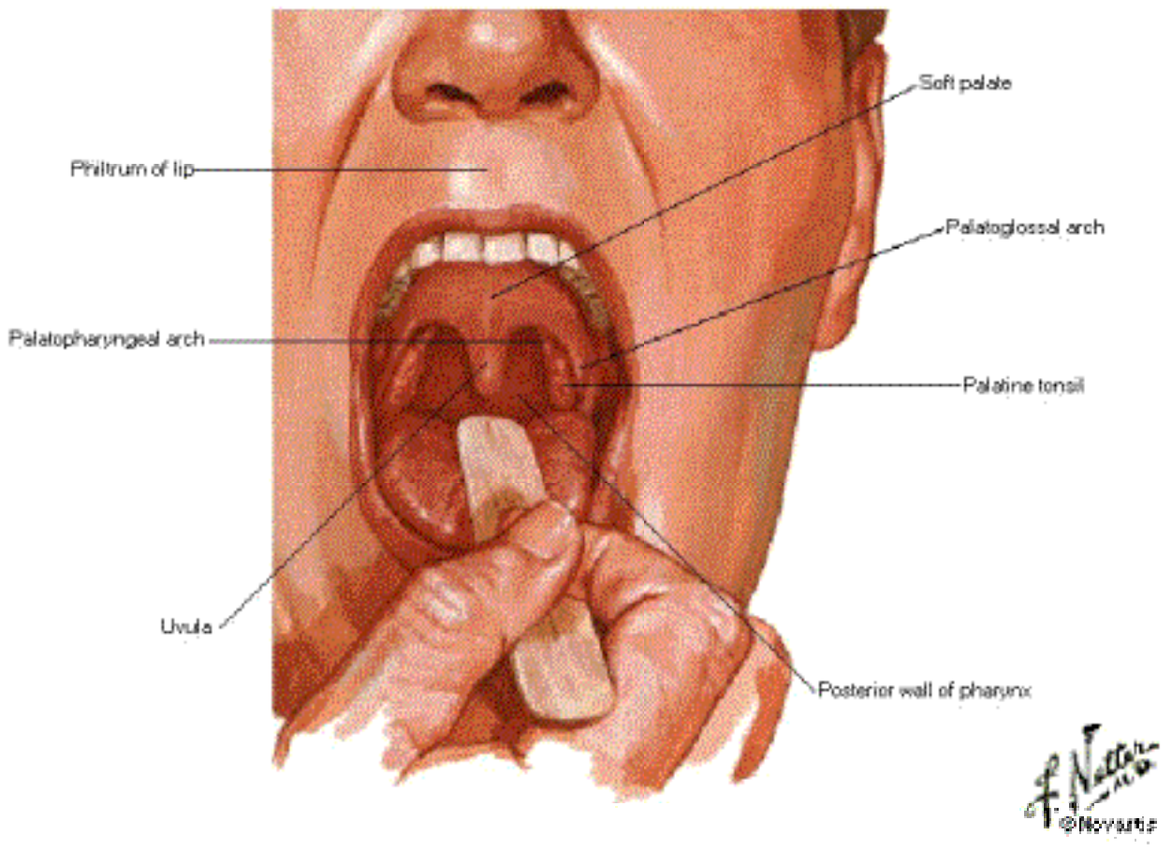
Paranasal Sinuses

Growth throughout Life



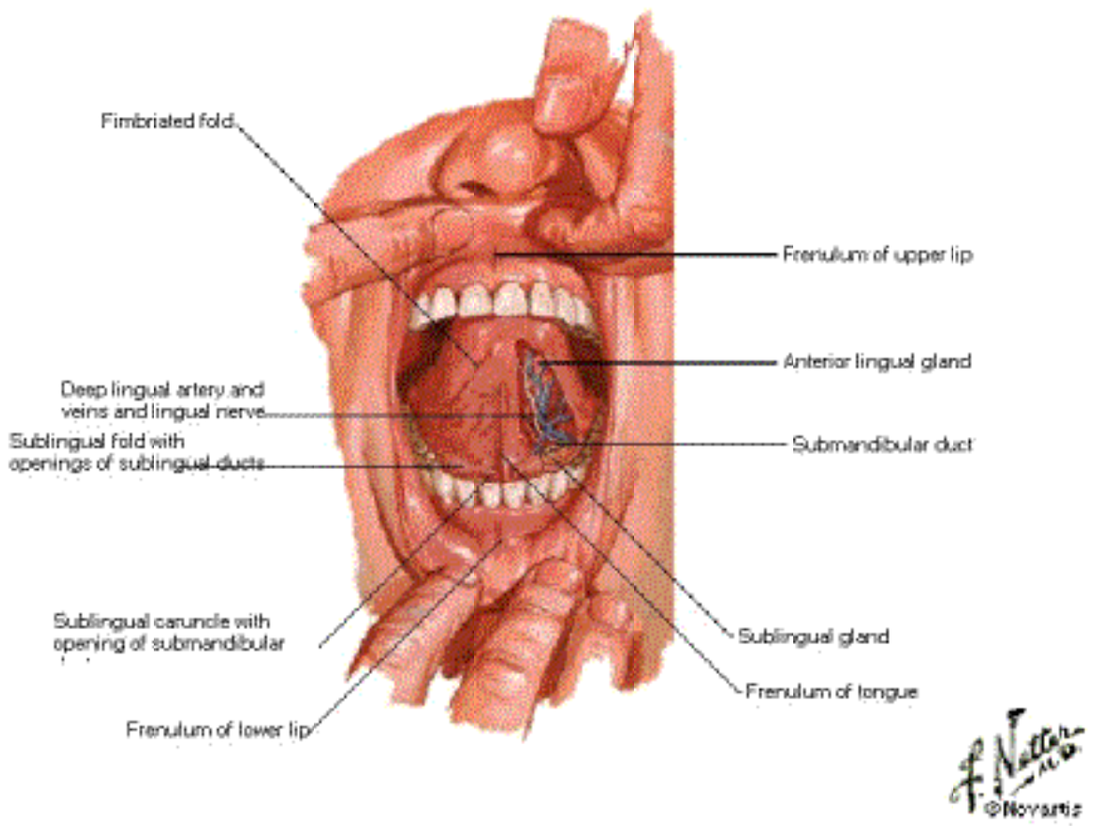
Inspection of Oral Cavity

Dorsum of Tongue and Palate



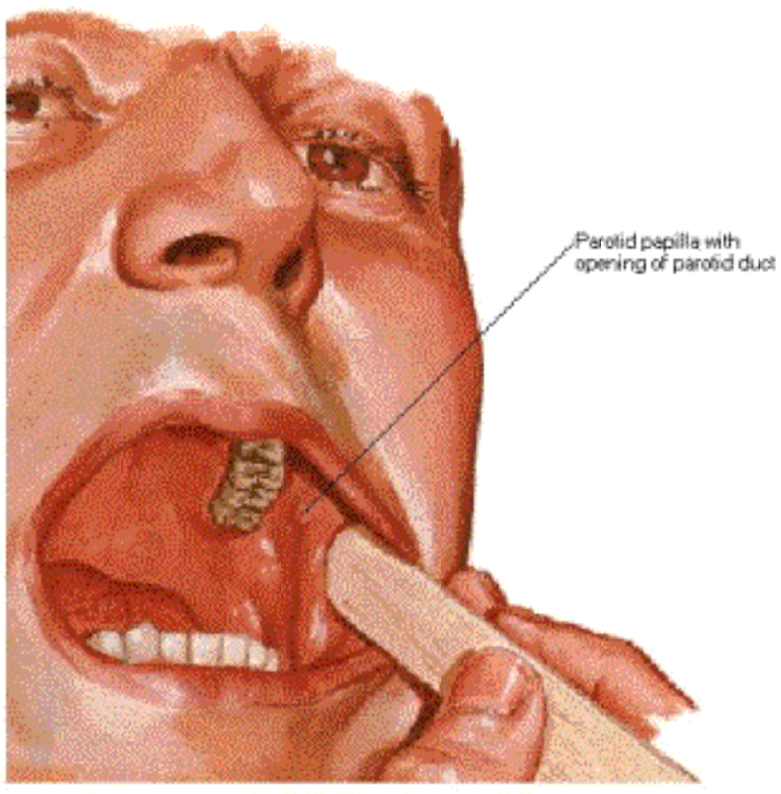
Inspection of Oral Cavity

Sublingual Region - Anterior Vestibule



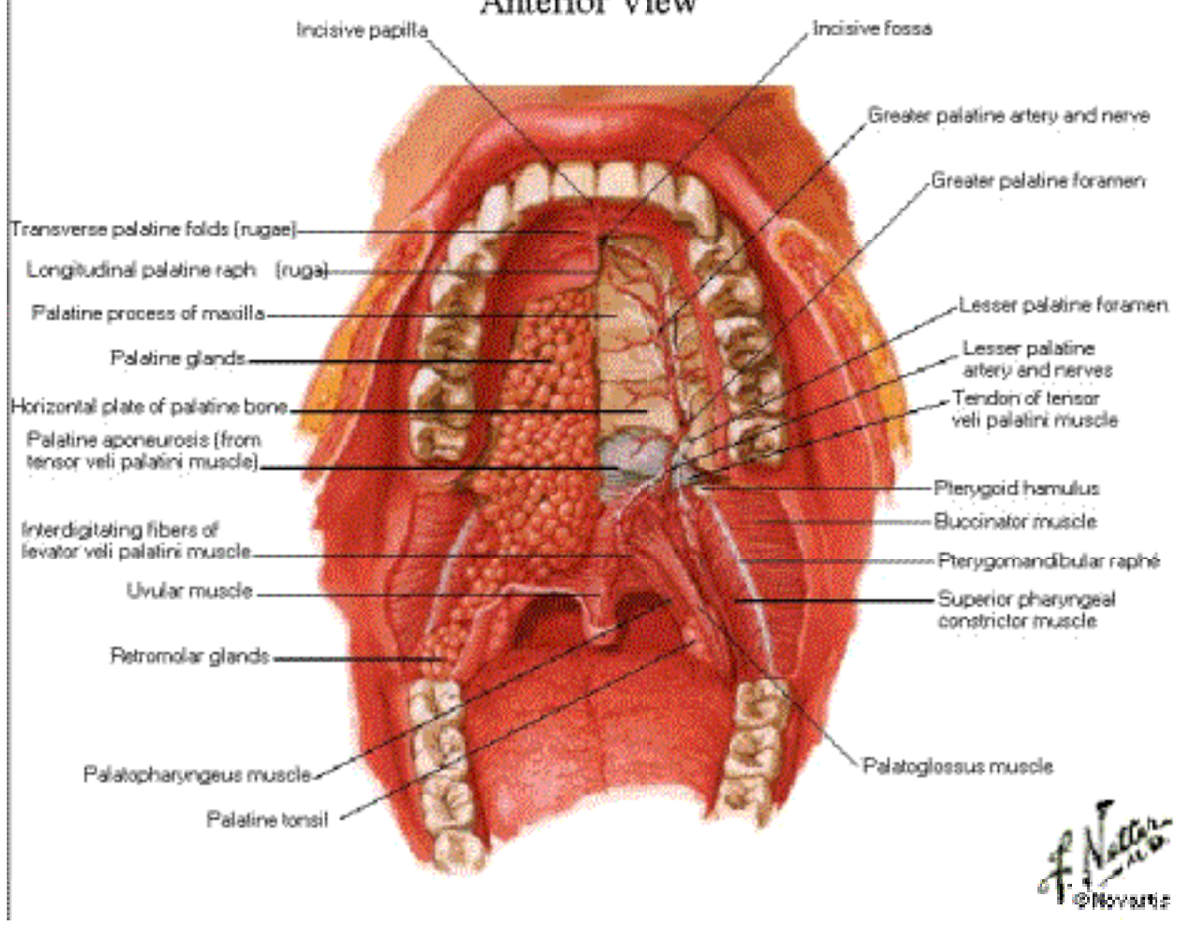
Inspection of Oral Cavity

Lateral Oral Vestibule



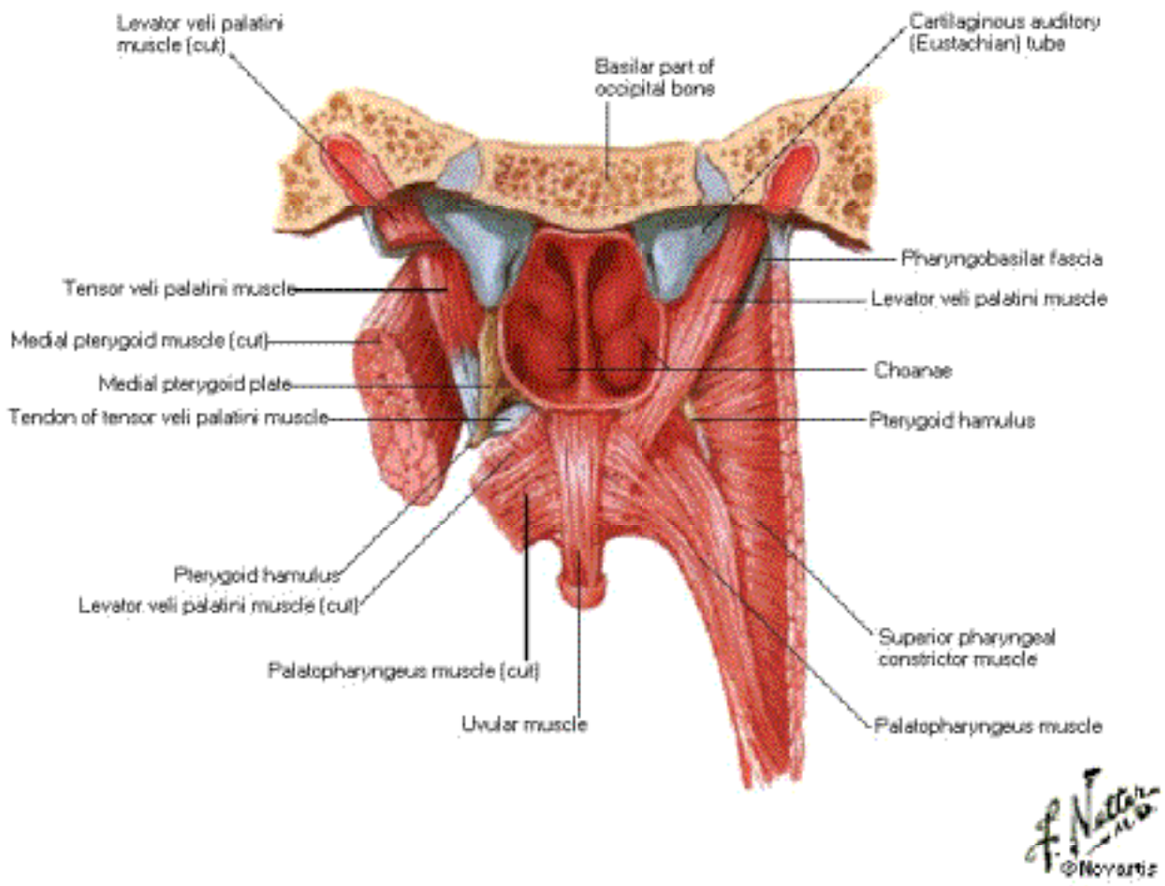
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Roof of Mouth - Hard and Soft Palates



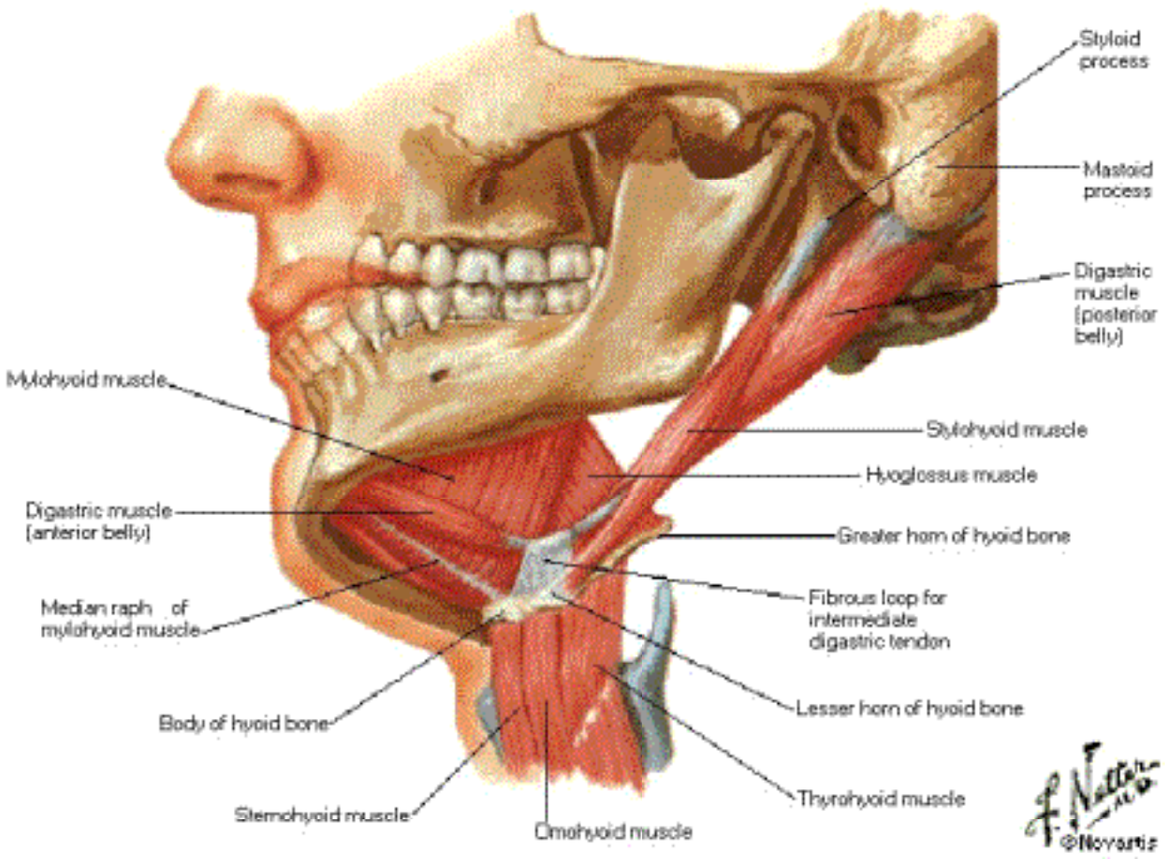
Roof of Mouth - Soft Palate

Posterior View



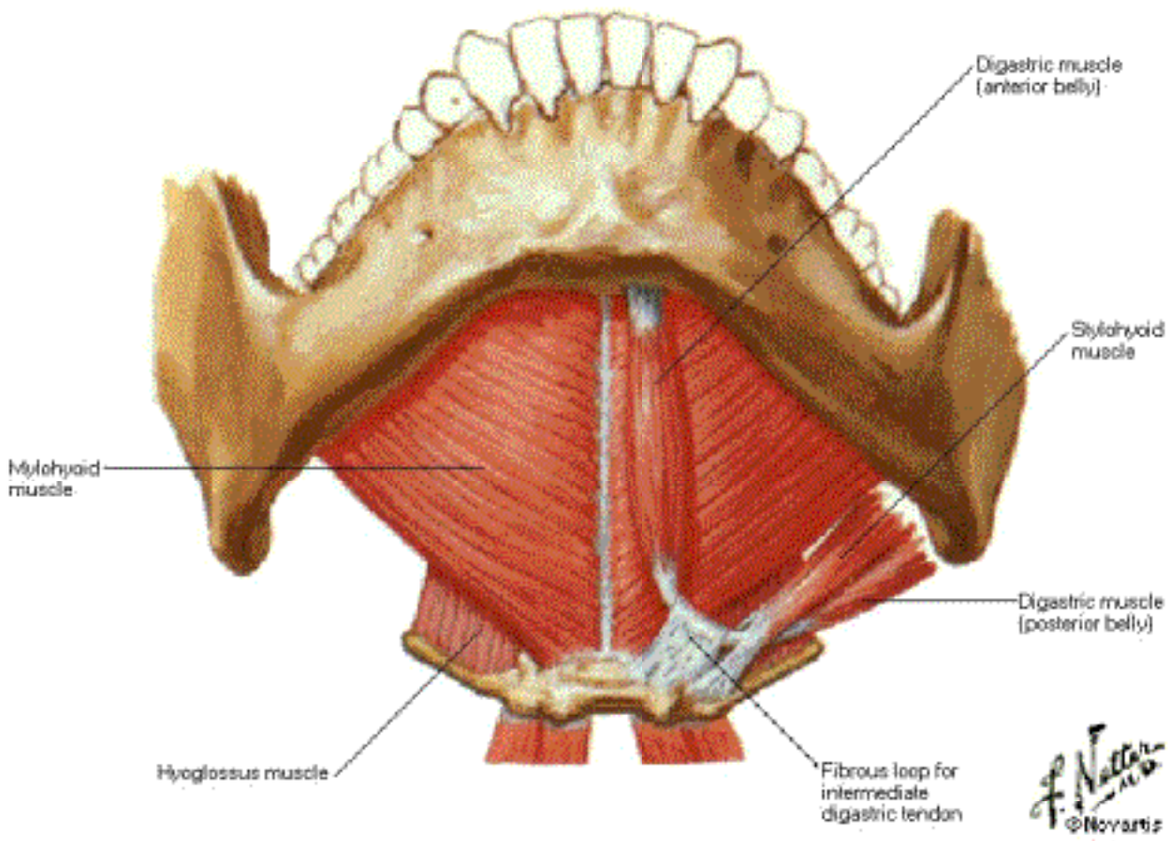
Floor of Mouth - Musculature

Lateral, Slightly Inferior View



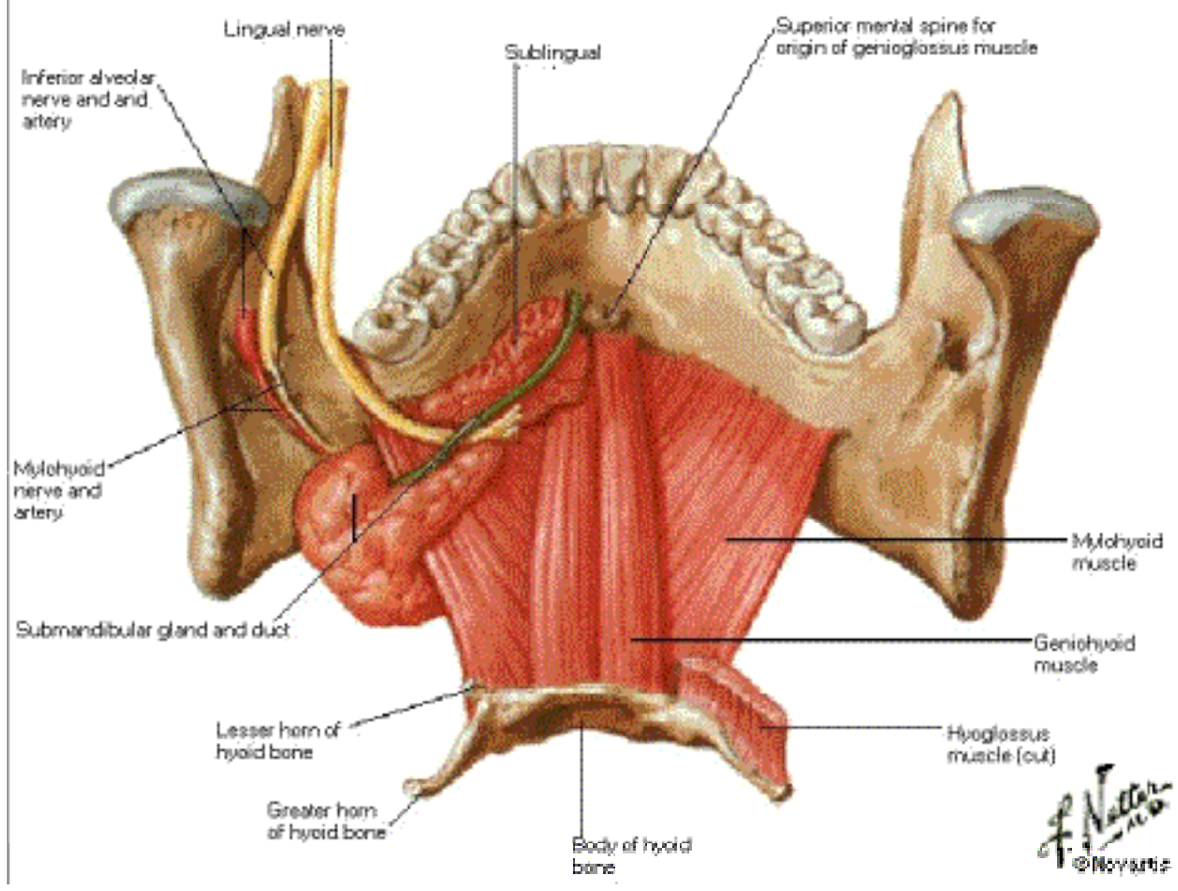
Floor of Mouth - Musculature

Anteroinferior View



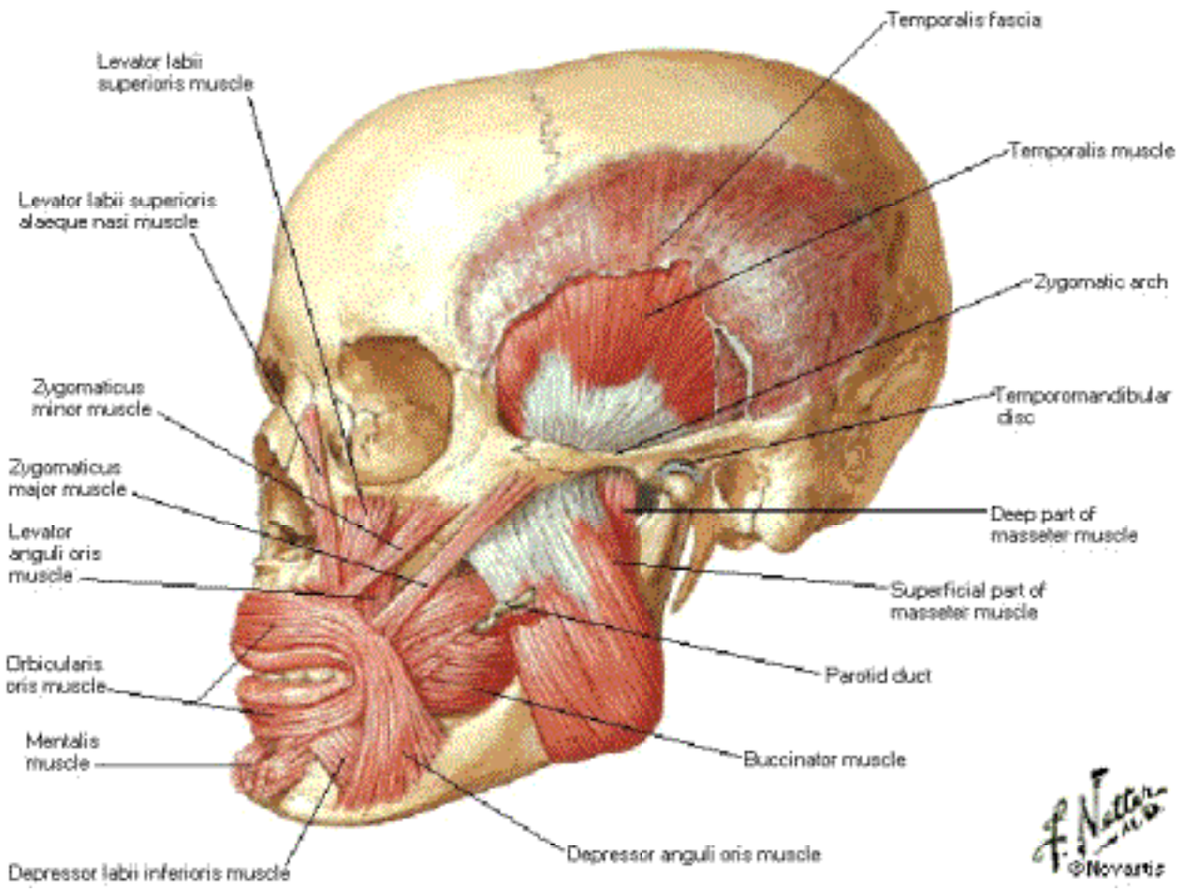
Floor of Mouth - Musculature

Posterosuperior View



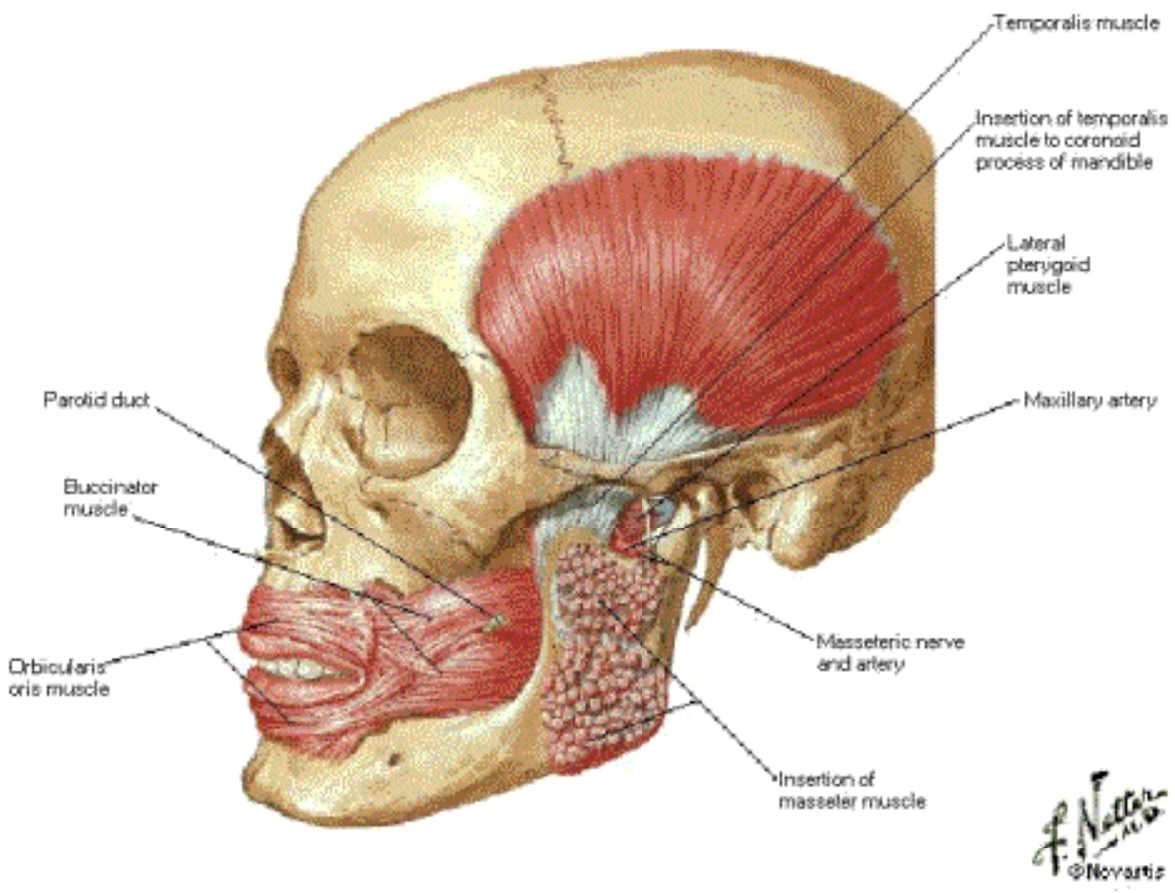
Muscles Involved in Mastication

Lateral View



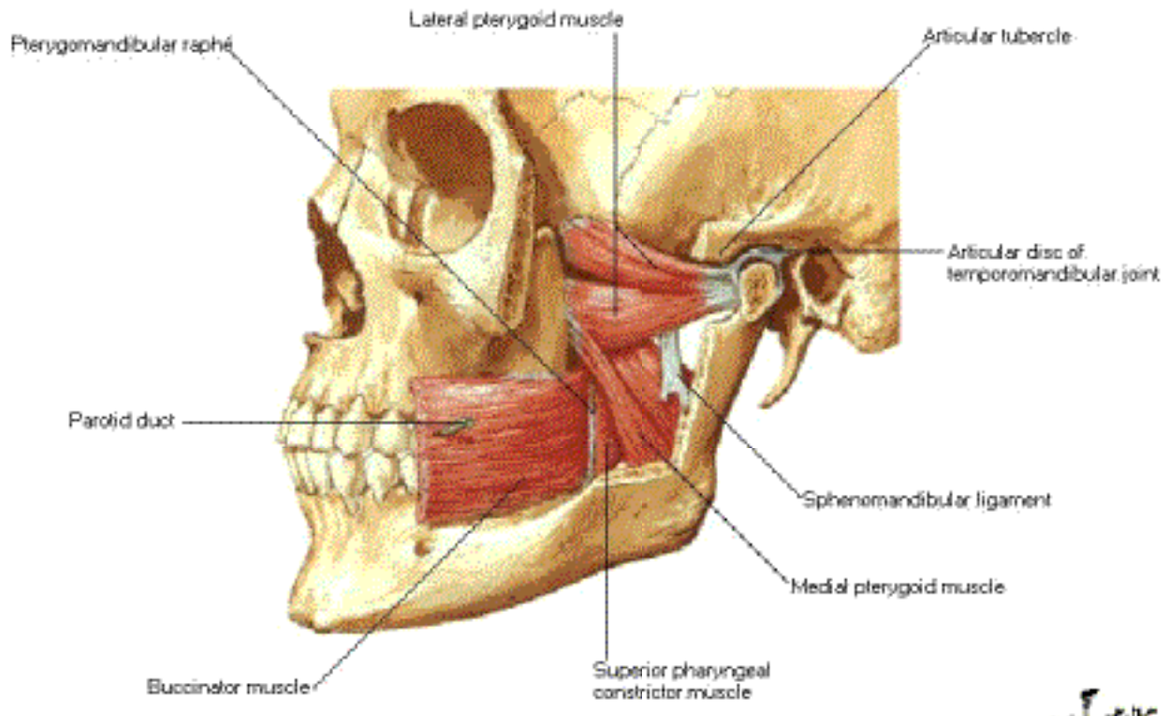
Muscles Involved in Mastication - Masseter Removed

Lateral View



Muscles Involved in Mastication [Deep]

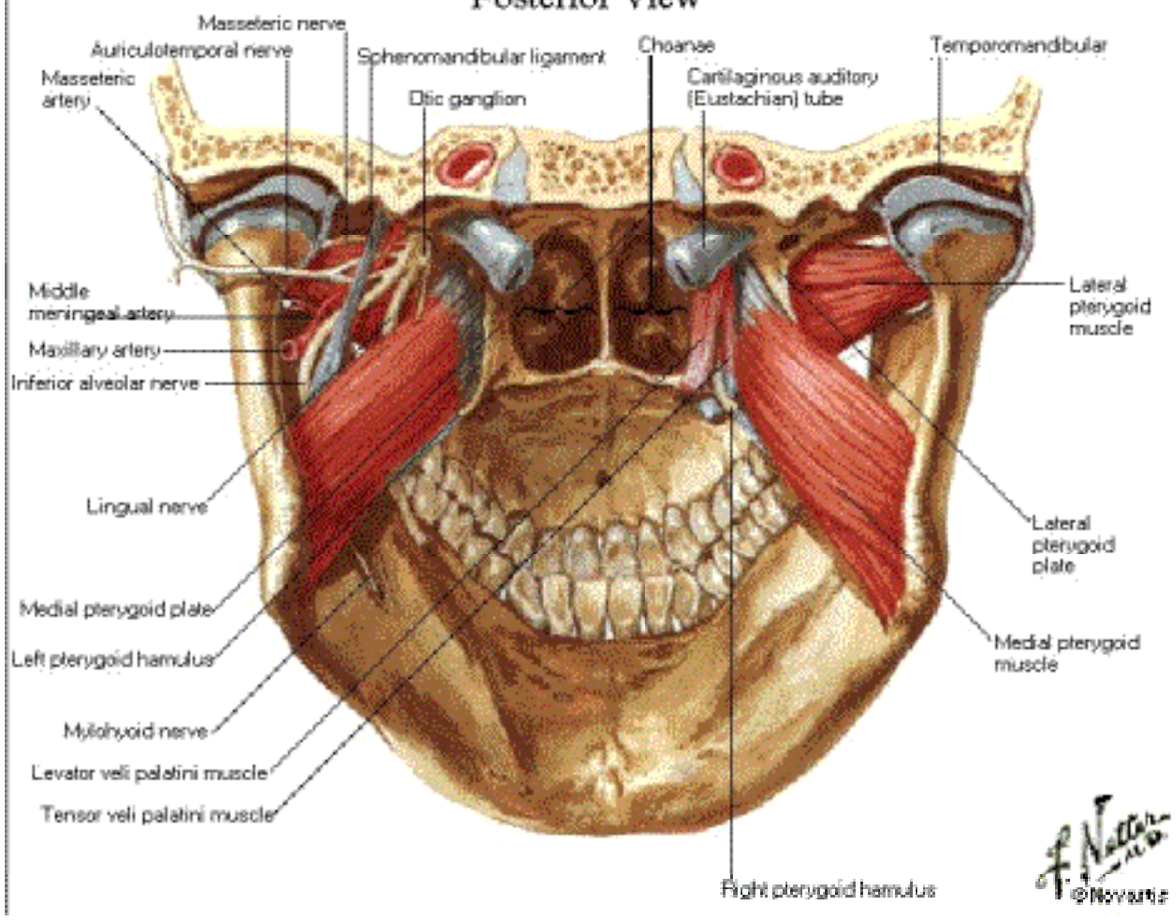
Lateral View



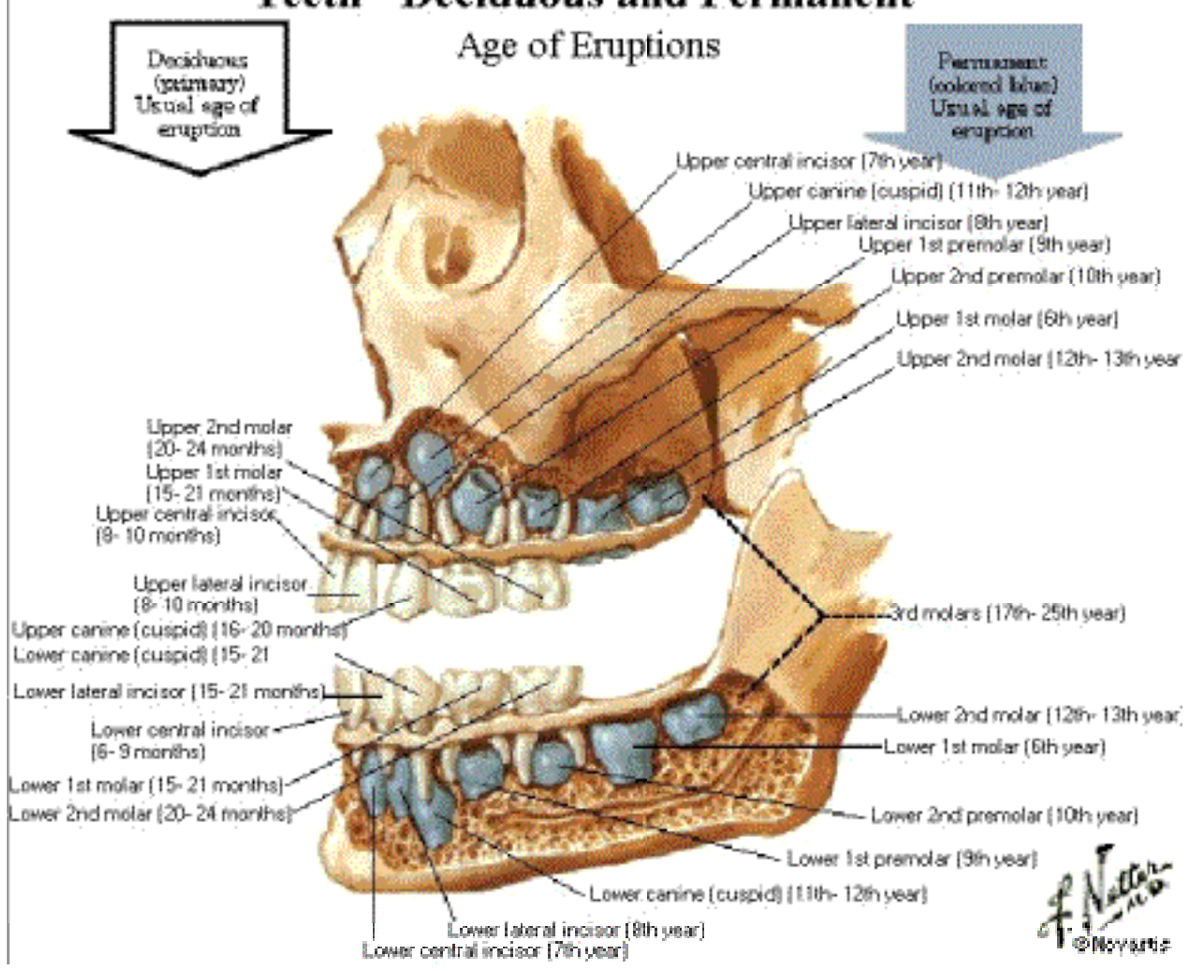
©Novartis

Muscles Involved in Mastication [Deep]

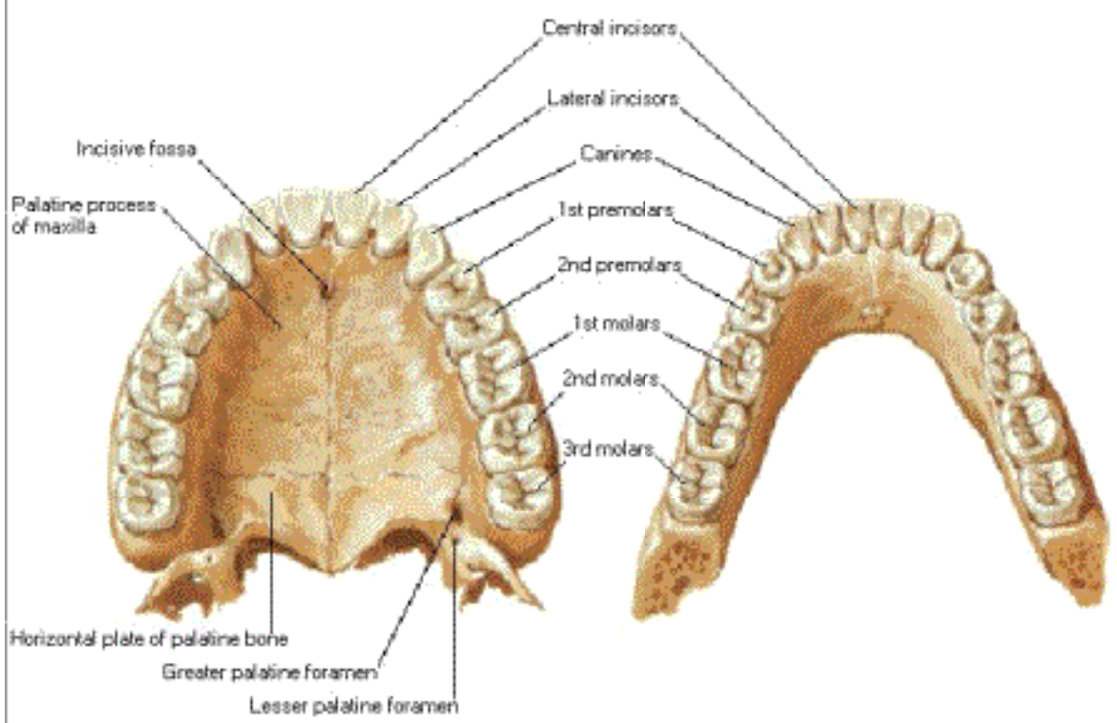
Posterior View



Teeth - Deciduous and Permanent



Teeth - Upper and Lower Permanent

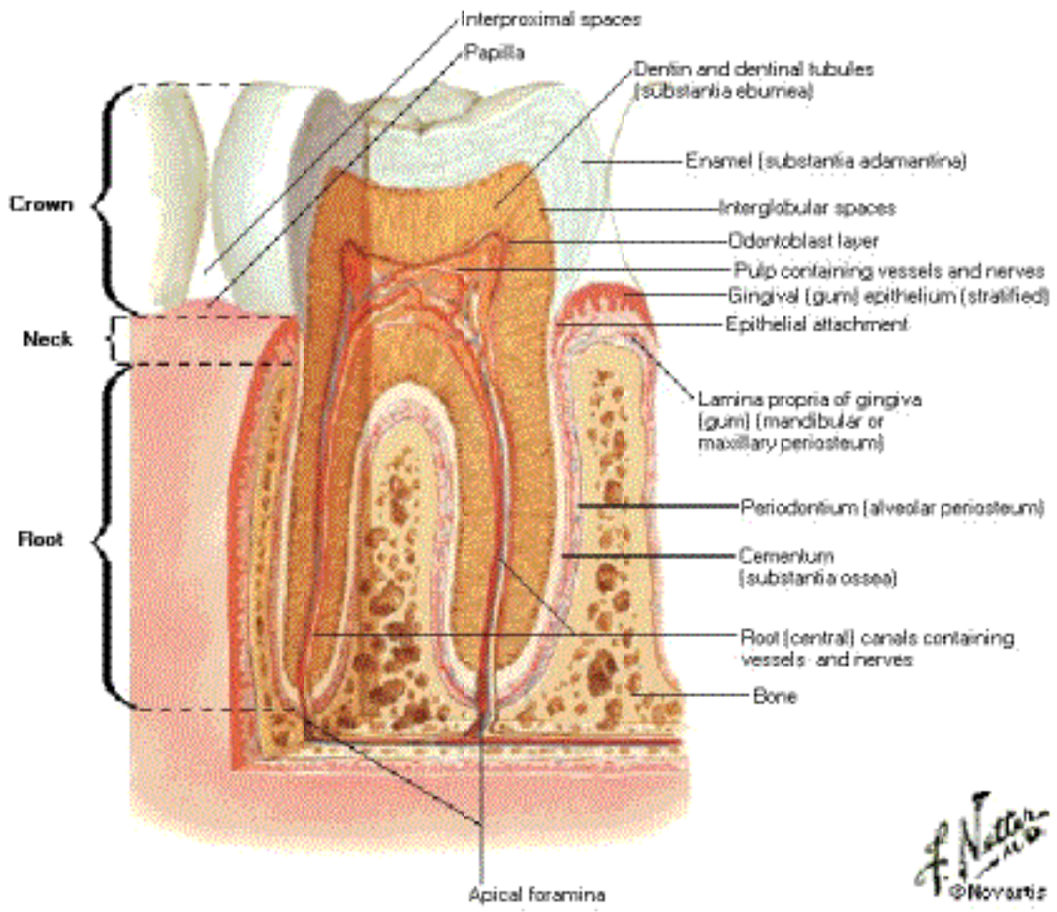


Upper permanent teeth

Lower permanent teeth

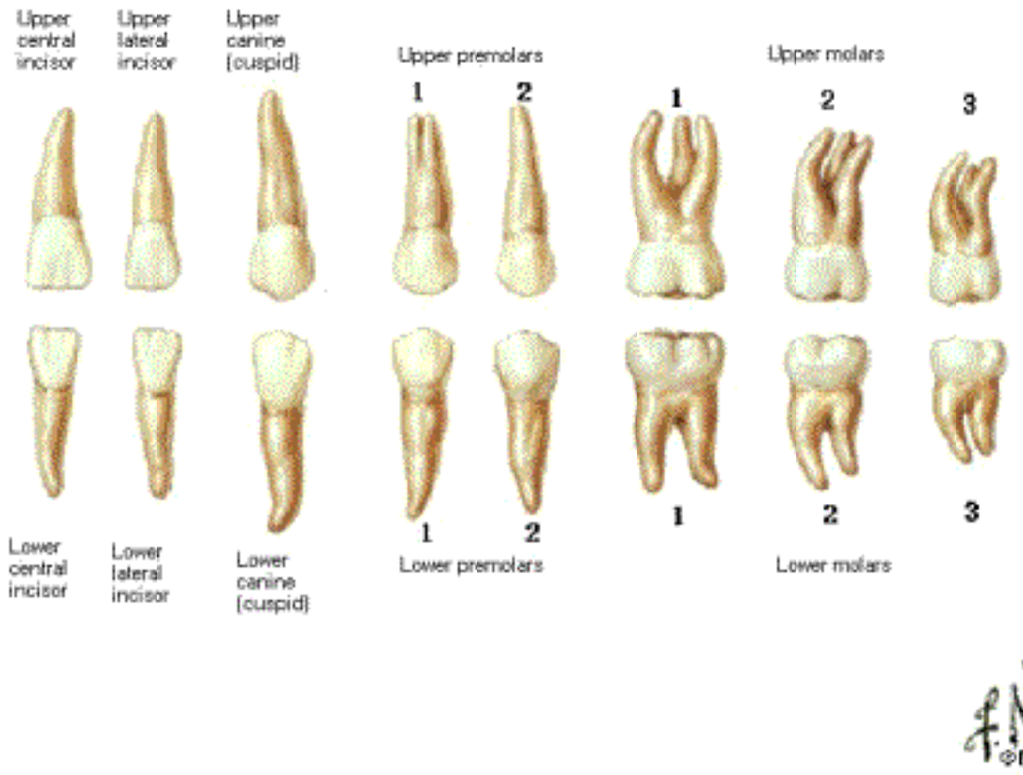
©Novartis

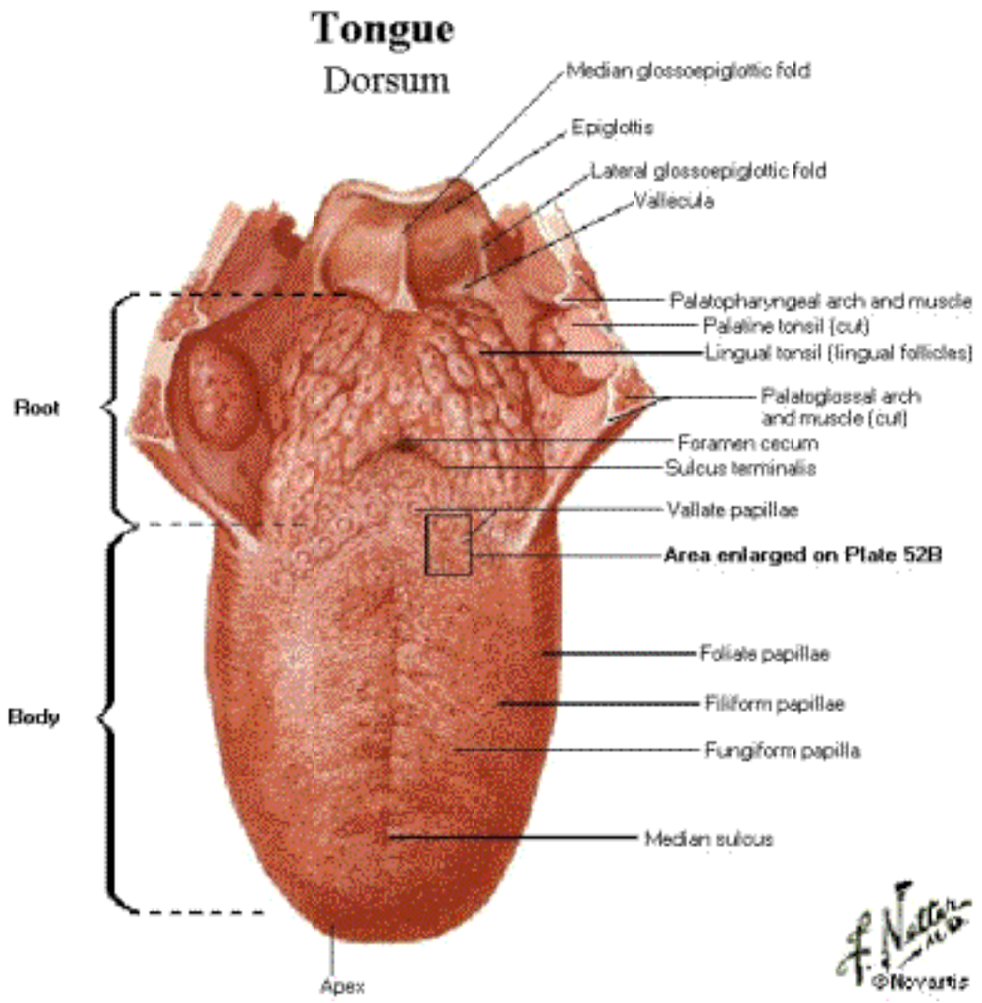
Anatomy of a Tooth



Teeth - Left Upper and Left Lower Permanent

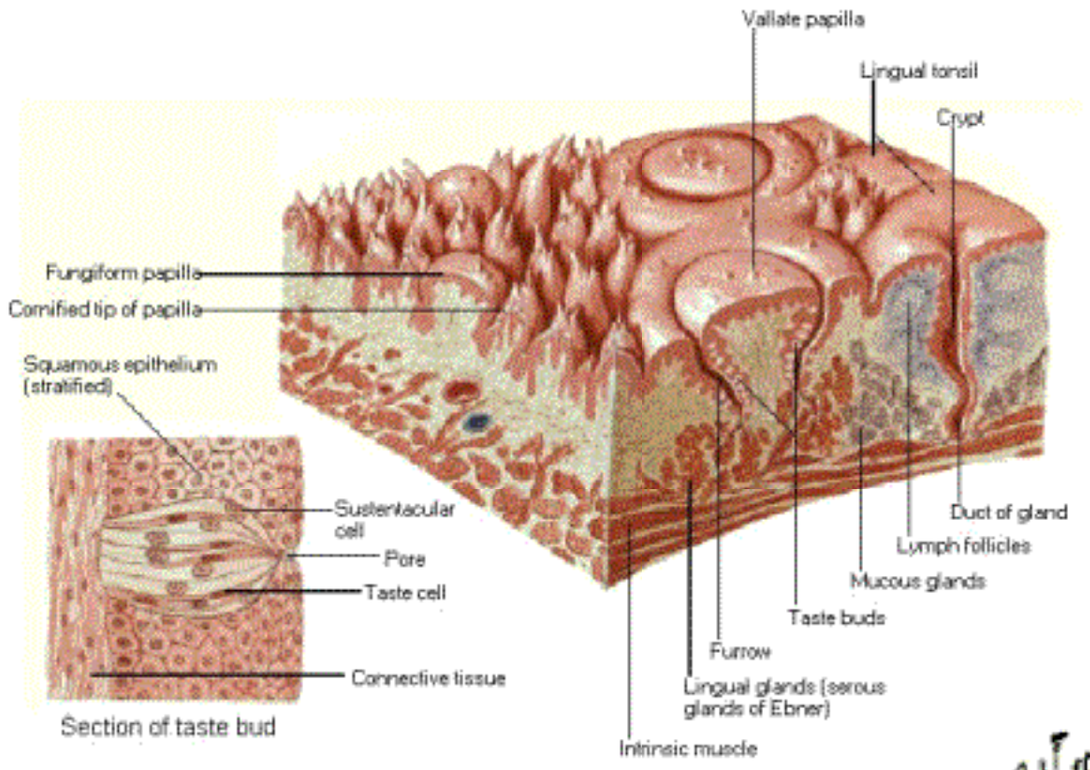
Labiobuccal View




Tongue
Dorsum
Median glossoepiglottic fold
Epiglottis
Lateral glossoepiglottic fold
Vallecula
Palatopharyngeal arch and muscle
Palatine tonsil (cut)
Lingual tonsil (lingual follicles)
Palatoglossal arch and muscle (cut)
Foramen cecum
Sulcus terminalis
Vallate papillae
Area enlarged on Plate 52B
Foliate papillae
Filiform papillae
Fungiform papilla
Median sulcus
Root
Body
Apex
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Tongue - Schematic Stereogram

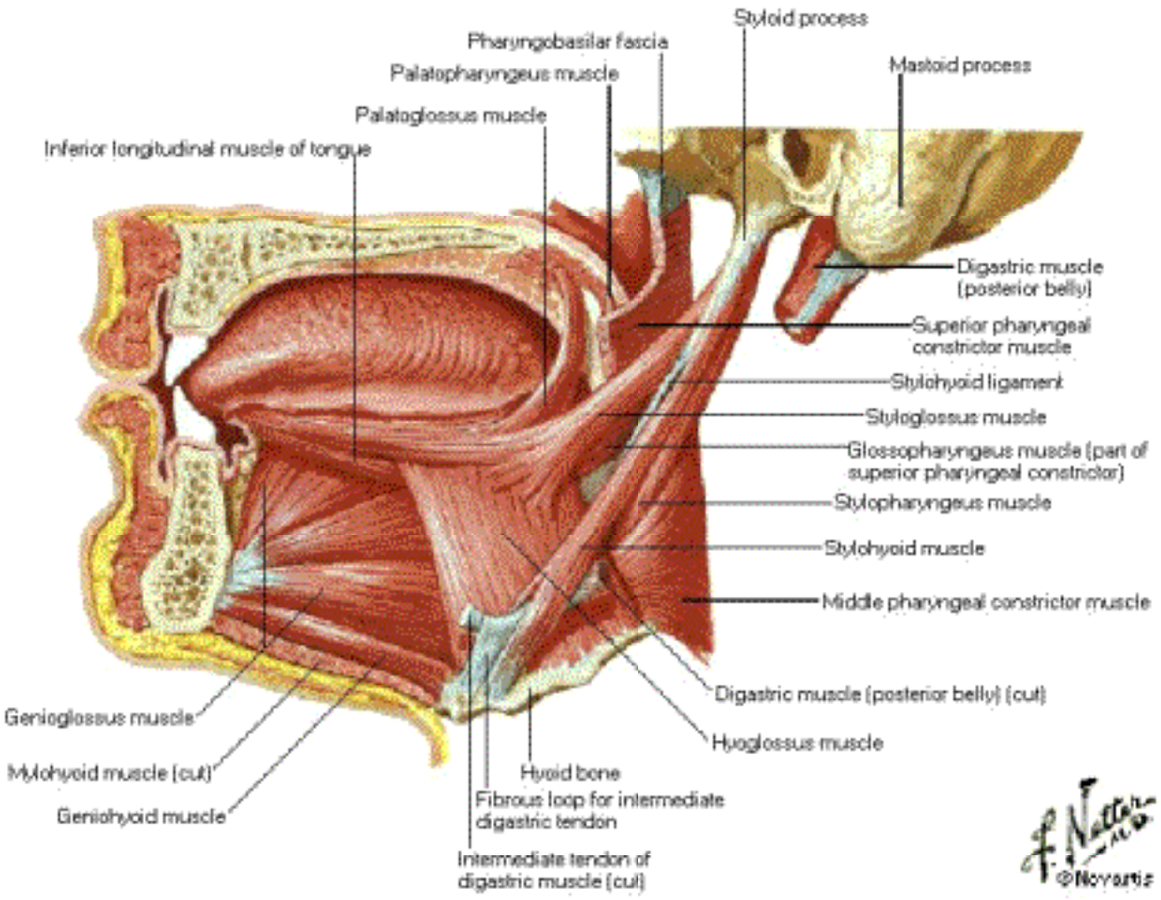
Area Indicated on Plate 52A



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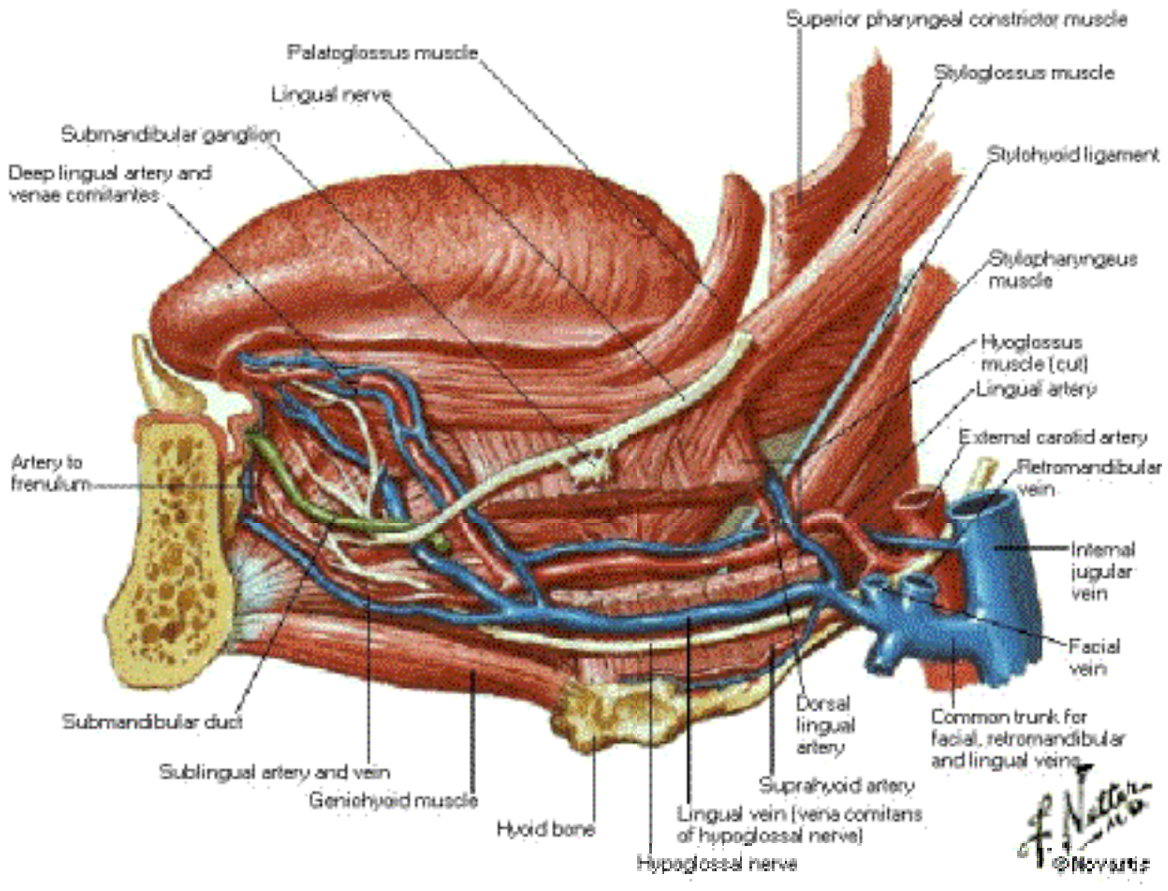
Muscles of Tongue

Sagittal Section



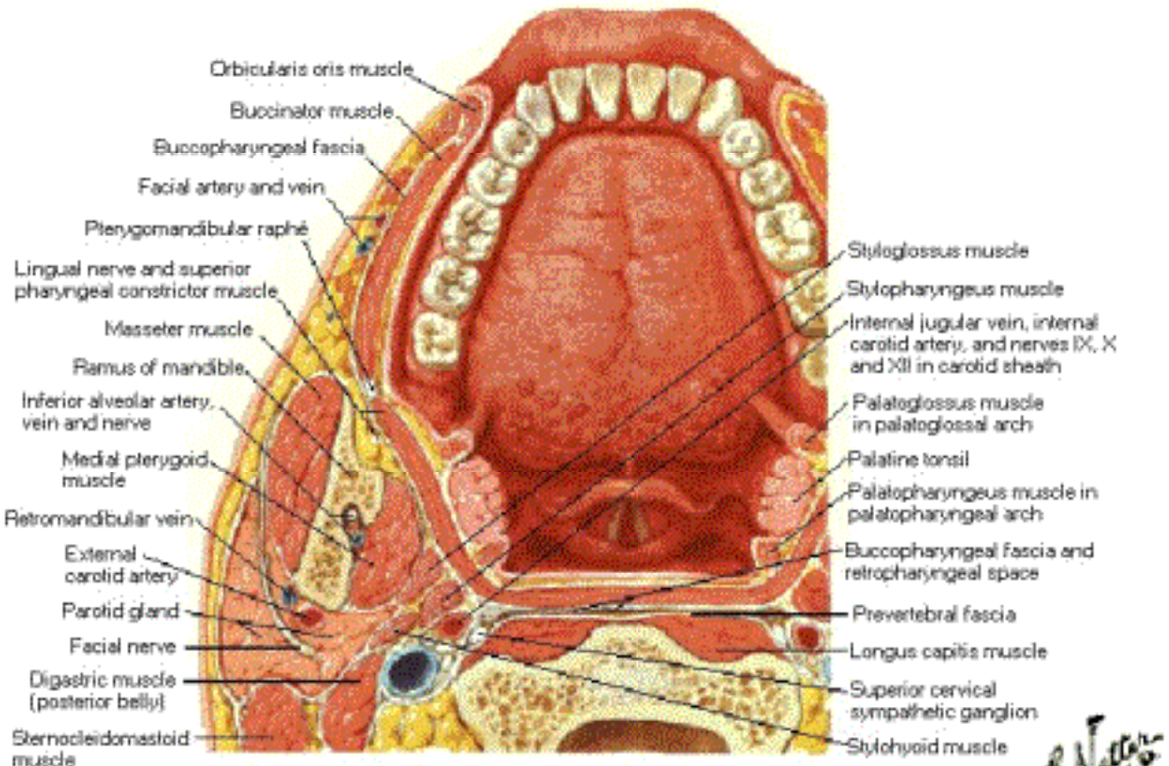
Tongue and Related Structures

Sagittal Section



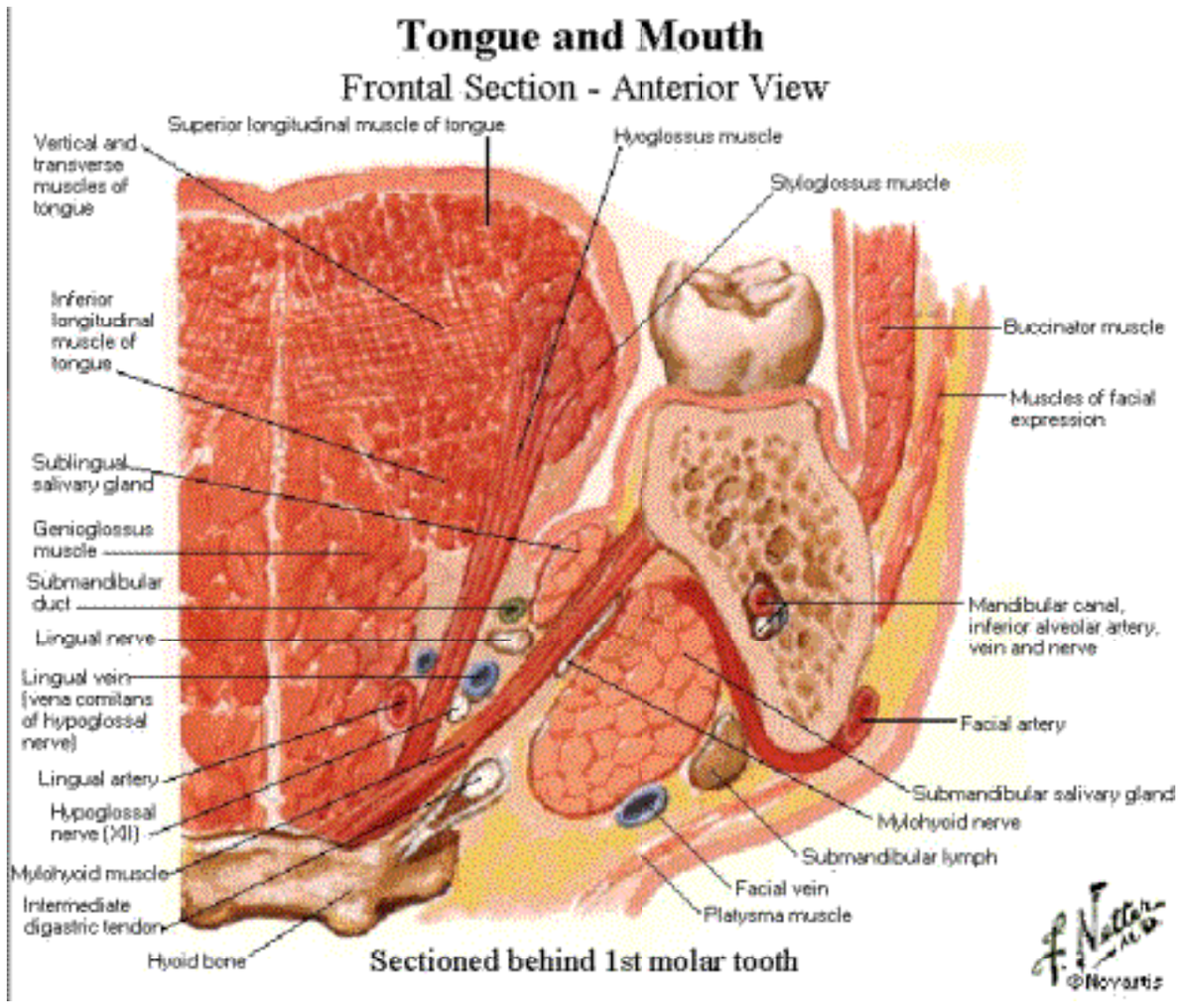
Tongue and Mouth

Horizontal Section - Superior View



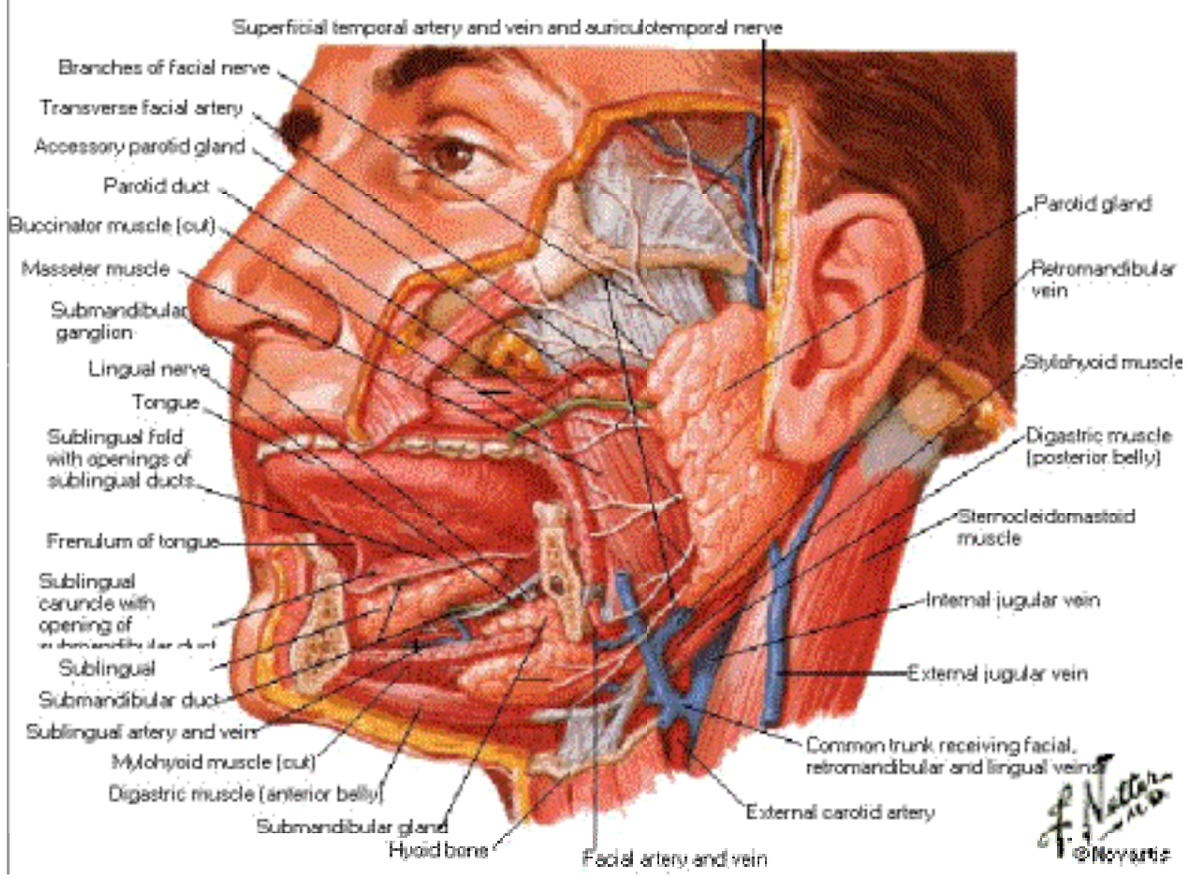
Sectioned below lingula of mandible

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Tongue and Mouth
Frontal Section - Anterior View
Superior longitudinal muscle of tongue
Vertical and transverse muscles of tongue
Hyoglossus muscle
Styloglossus muscle
Inferior longitudinal muscle of tongue
Buccinator muscle
Muscles of facial expression
Sublingual salivary gland
Genioglossus muscle
Submandibular duct
Lingual nerve
Mandibular canal, inferior alveolar artery, vein and nerve
Lingual vein (vena comitans of hypoglossal nerve)
Facial artery
Lingual artery
Hypoglossal nerve (XII)
Submandibular salivary gland
Mylohyoid nerve
Submandibular lymph
Mylohyoid muscle
Facial vein
Intermediate digastric tendon
Platysma muscle
Hyoid bone
Sectioned behind 1st molar tooth
©Novartis

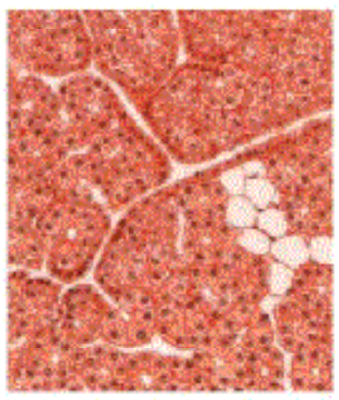
Salivary Glands

Dissection

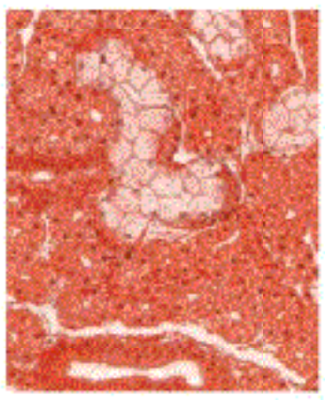


Salivary Glands

Histology



Parotid gland: totally serous



Submandibular gland: mostly serous, partially mucous

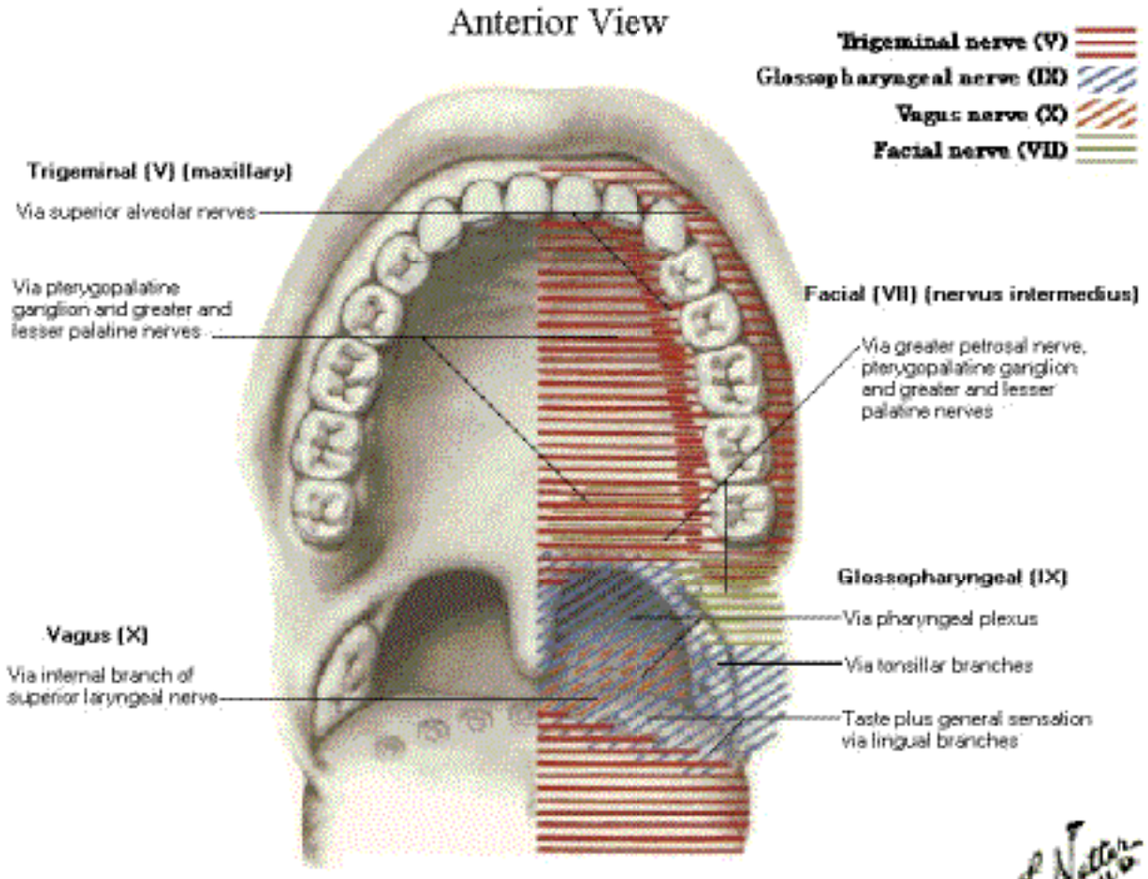


Sublingual gland: almost completely mucous

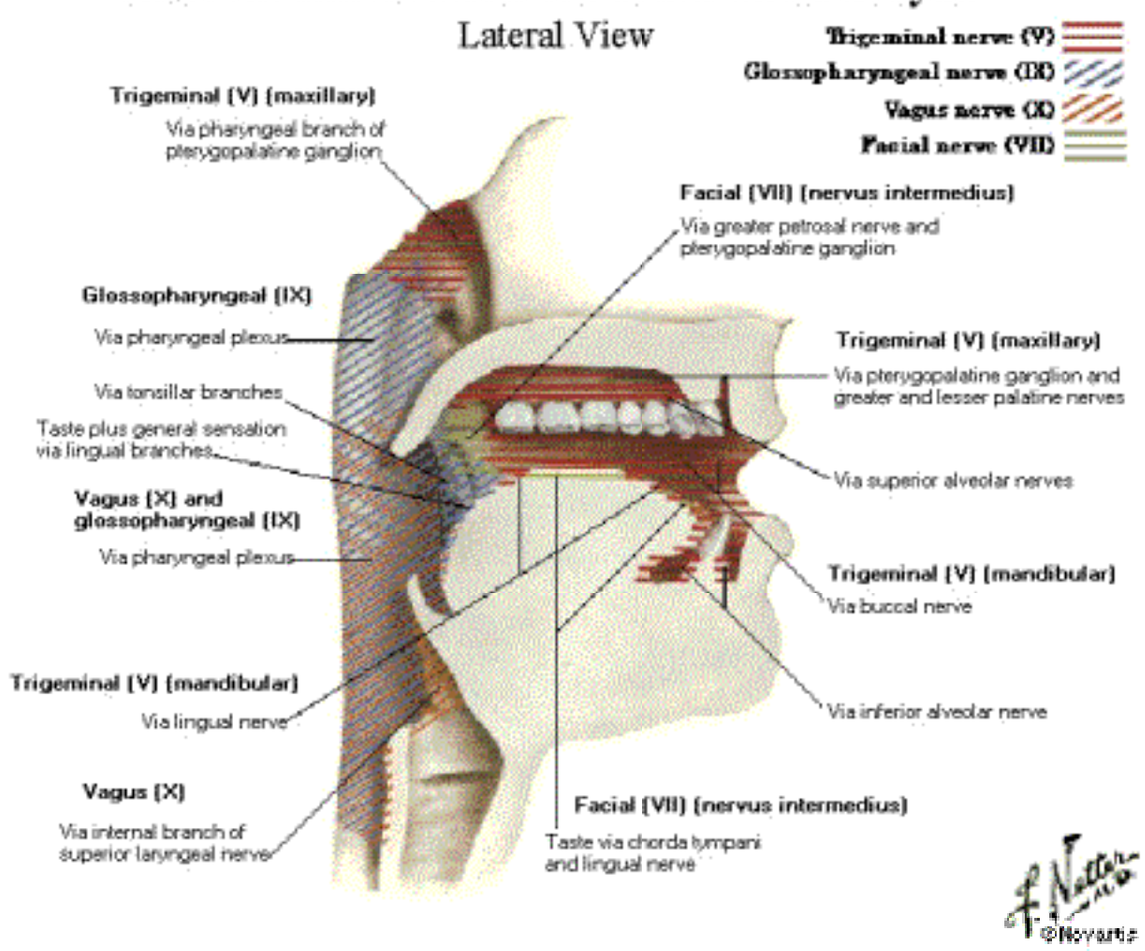


Afferent Innervation of Mouth and Pharynx

Anterior View

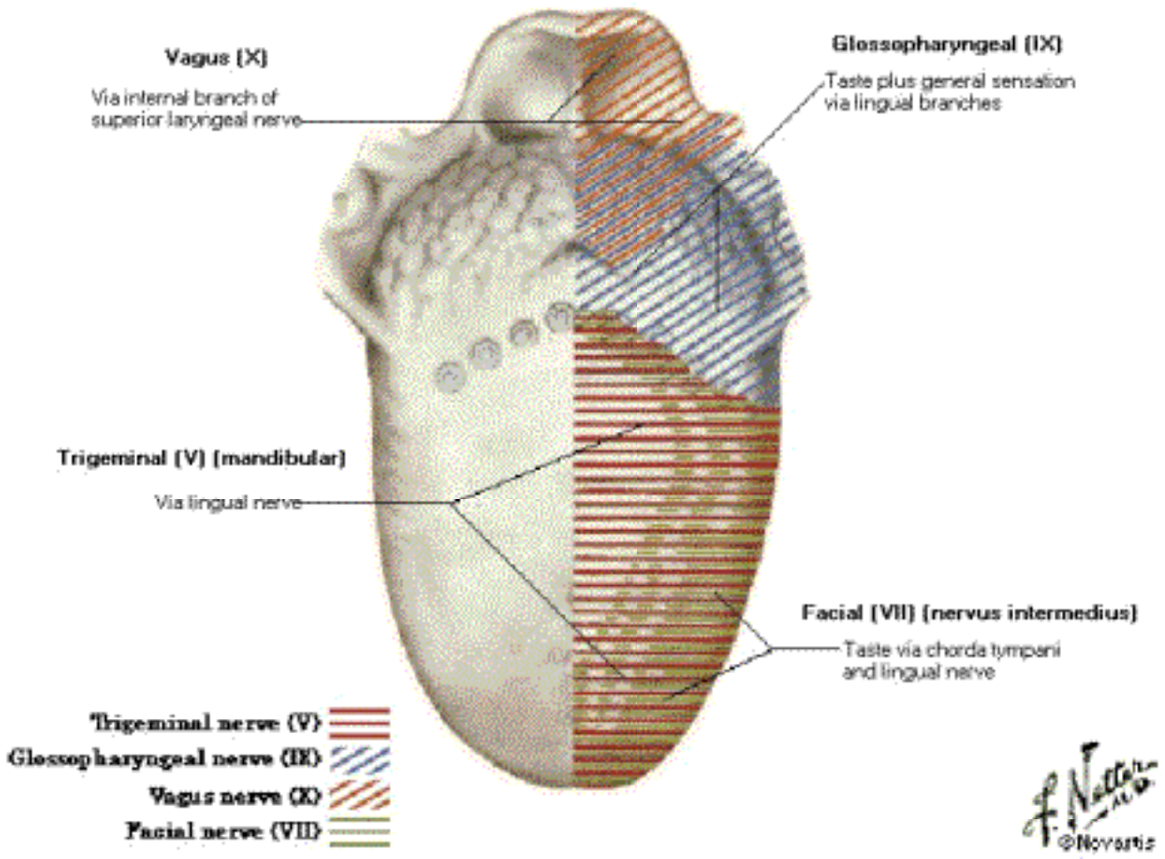


Afferent Innervation of Mouth and Pharynx



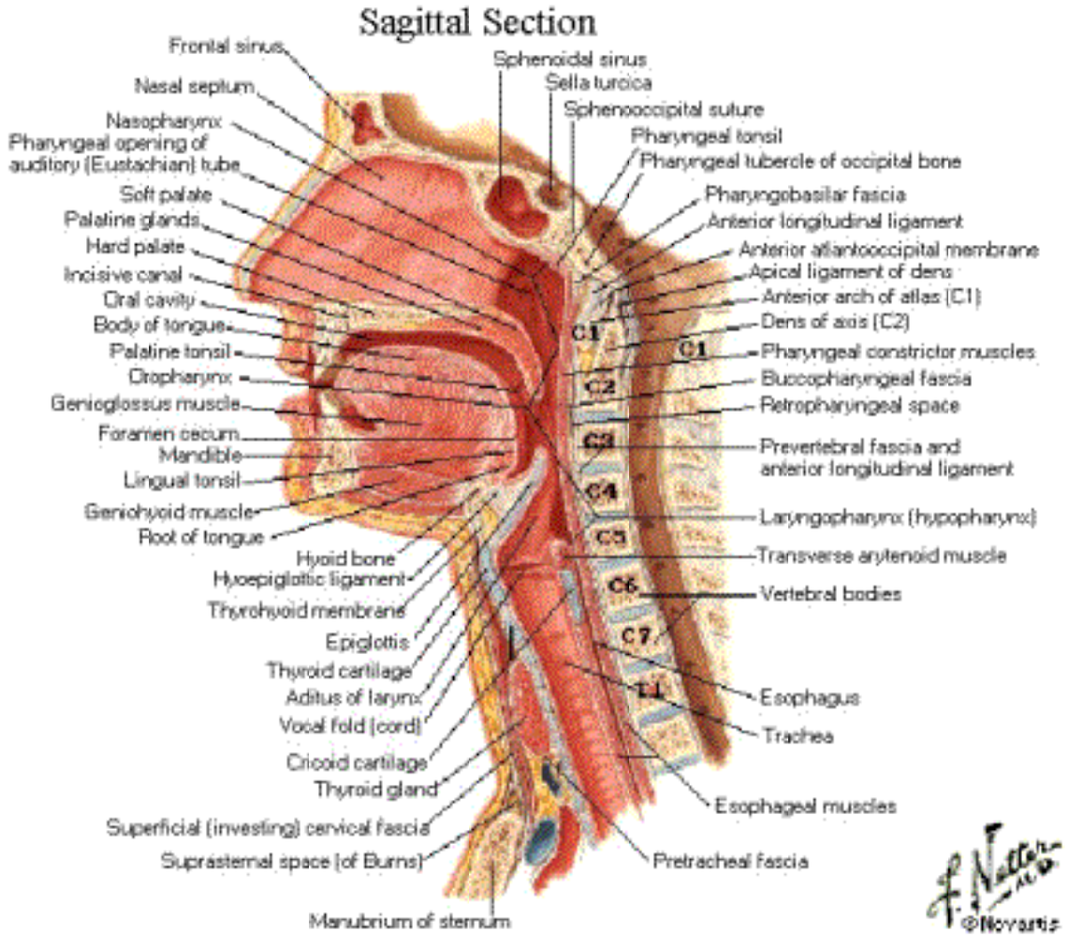
Afferent Innervation of Mouth and Pharynx

Dorsum of Tongue



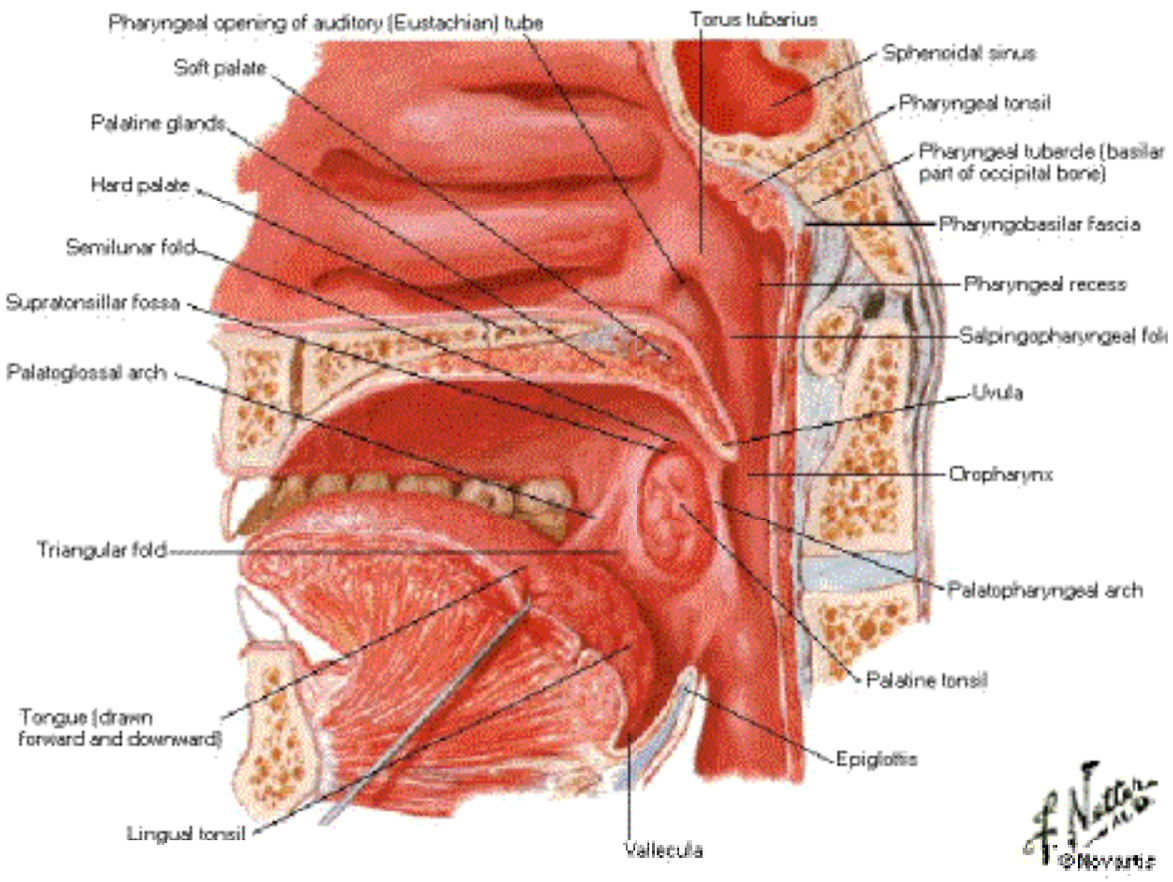
Pharynx

Sagittal Section



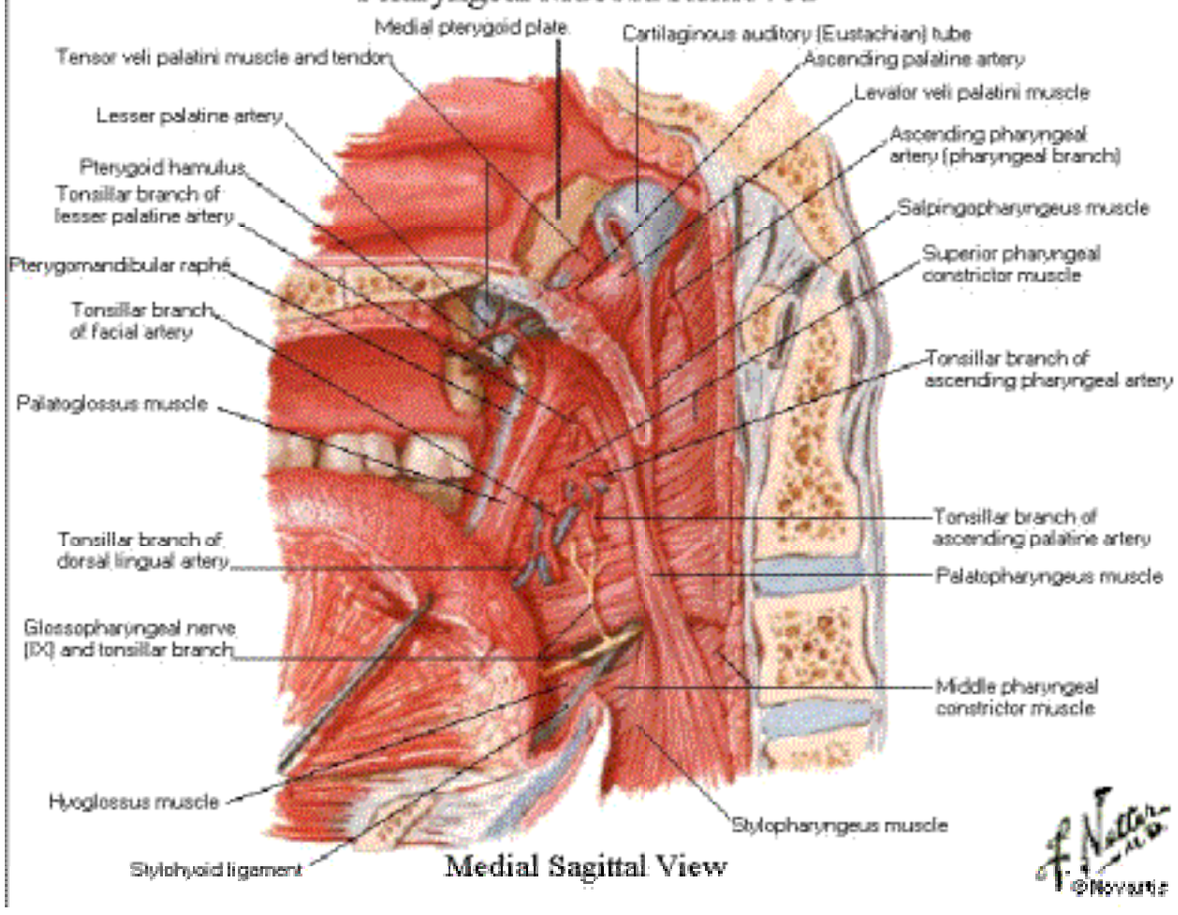
Fauces

Medial Sagittal View



Fauces

Pharyngeal Mucosa Removed

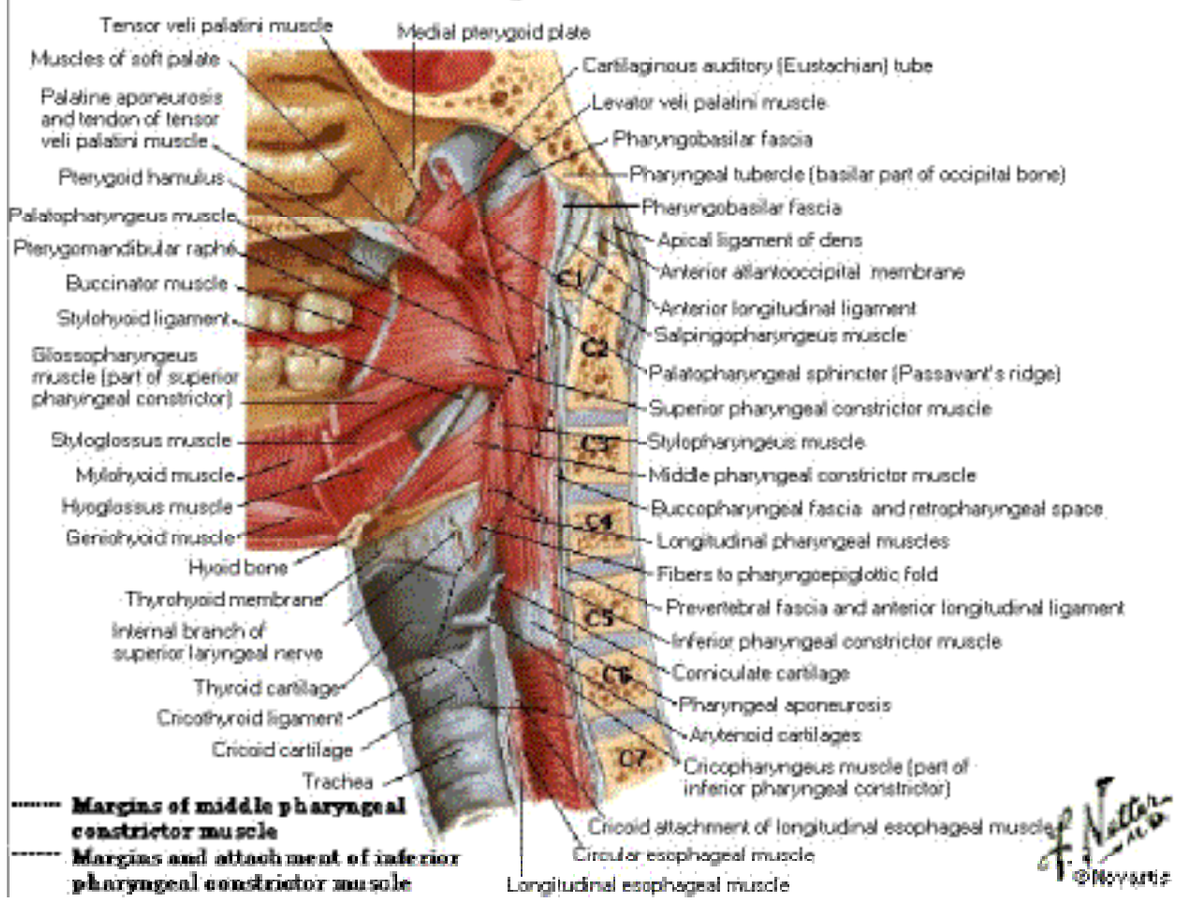


Medial Sagittal View

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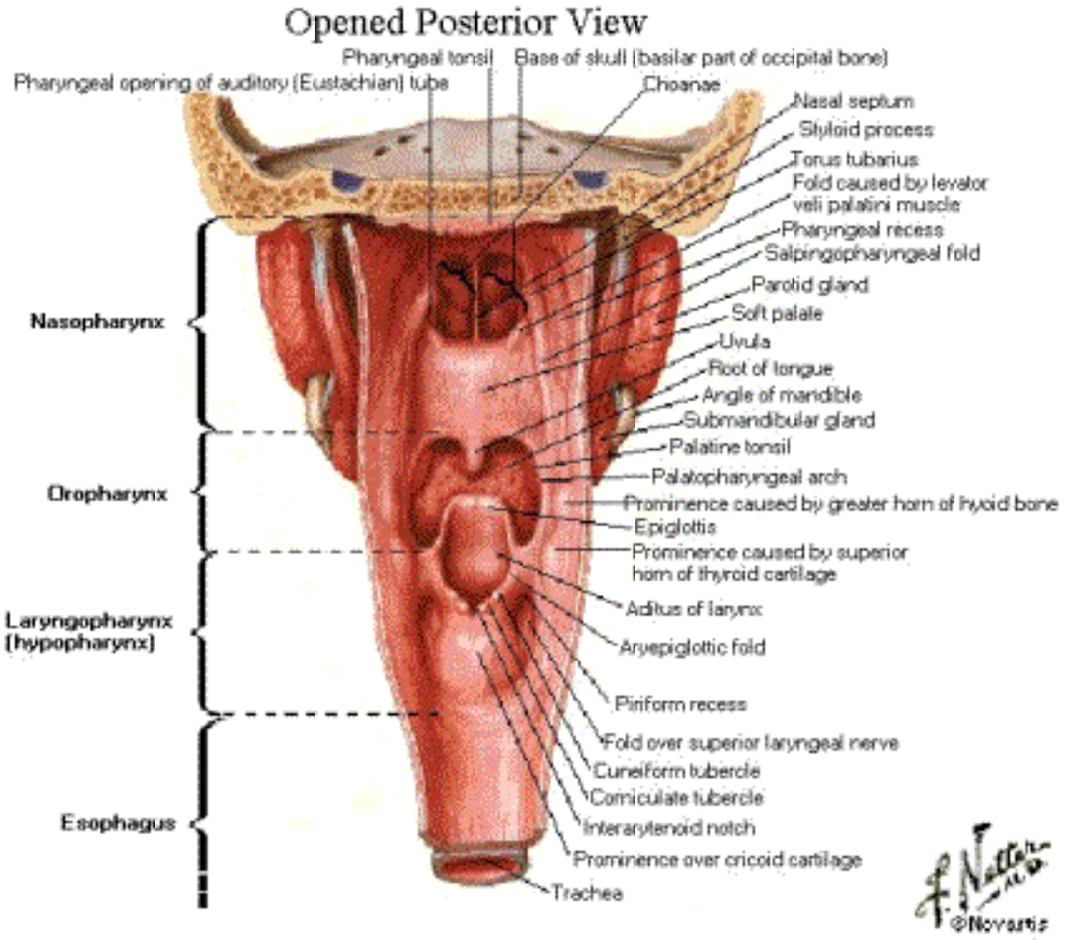
Muscles of Pharynx

Sagittal Section



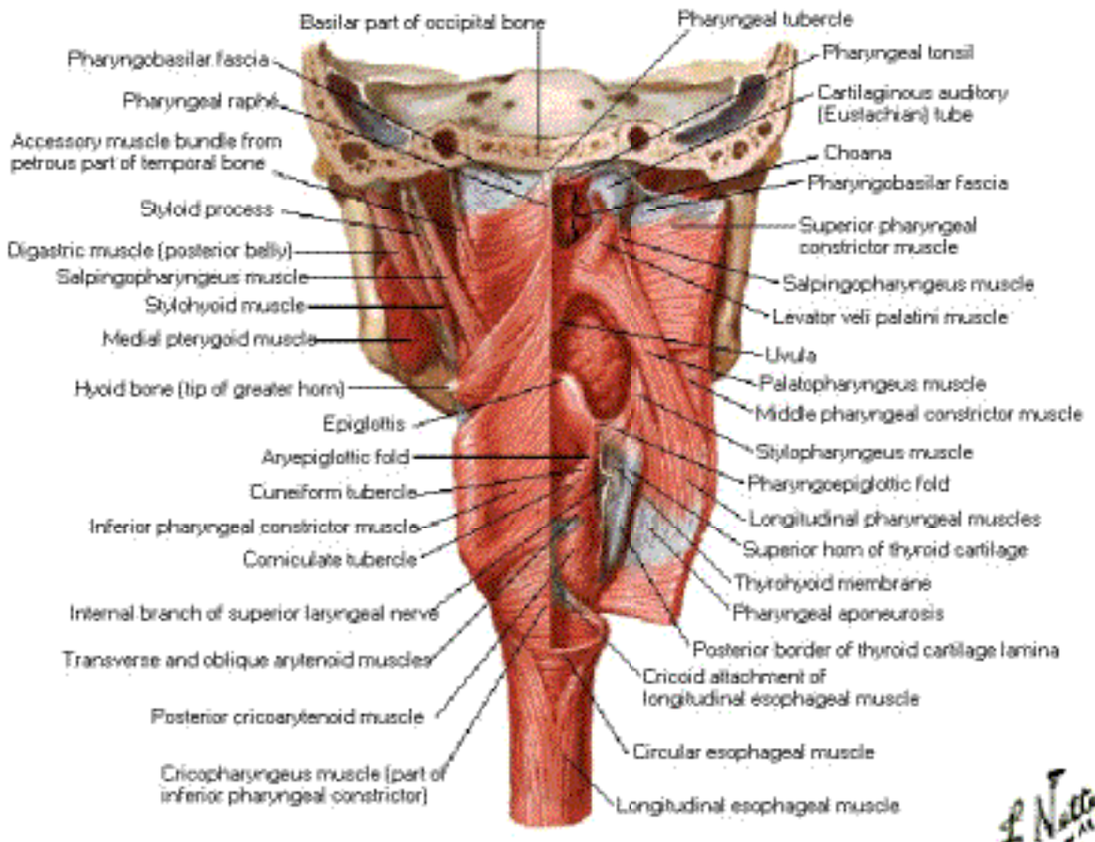
Pharynx

Opened Posterior View



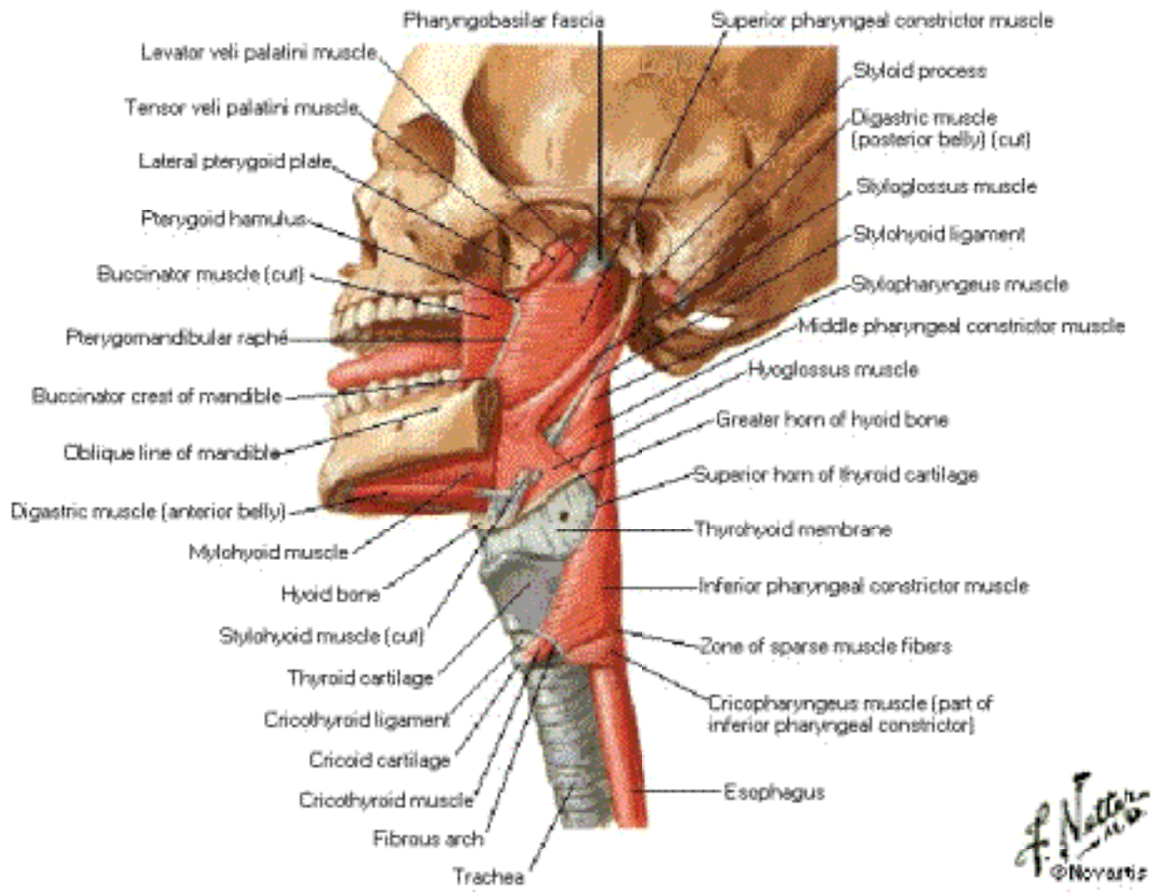
Muscles of Pharynx

Partially Opened Posterior View

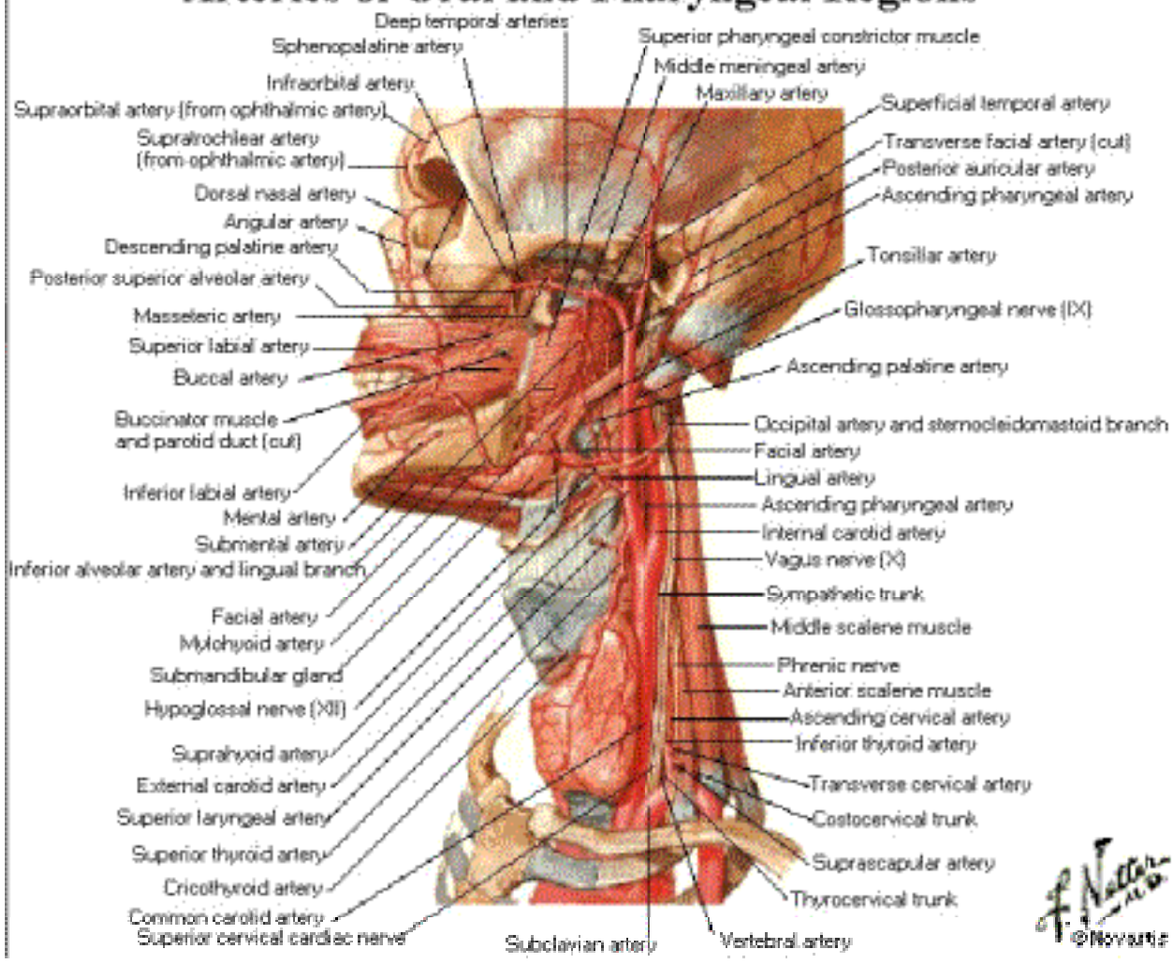


Muscles of Pharynx

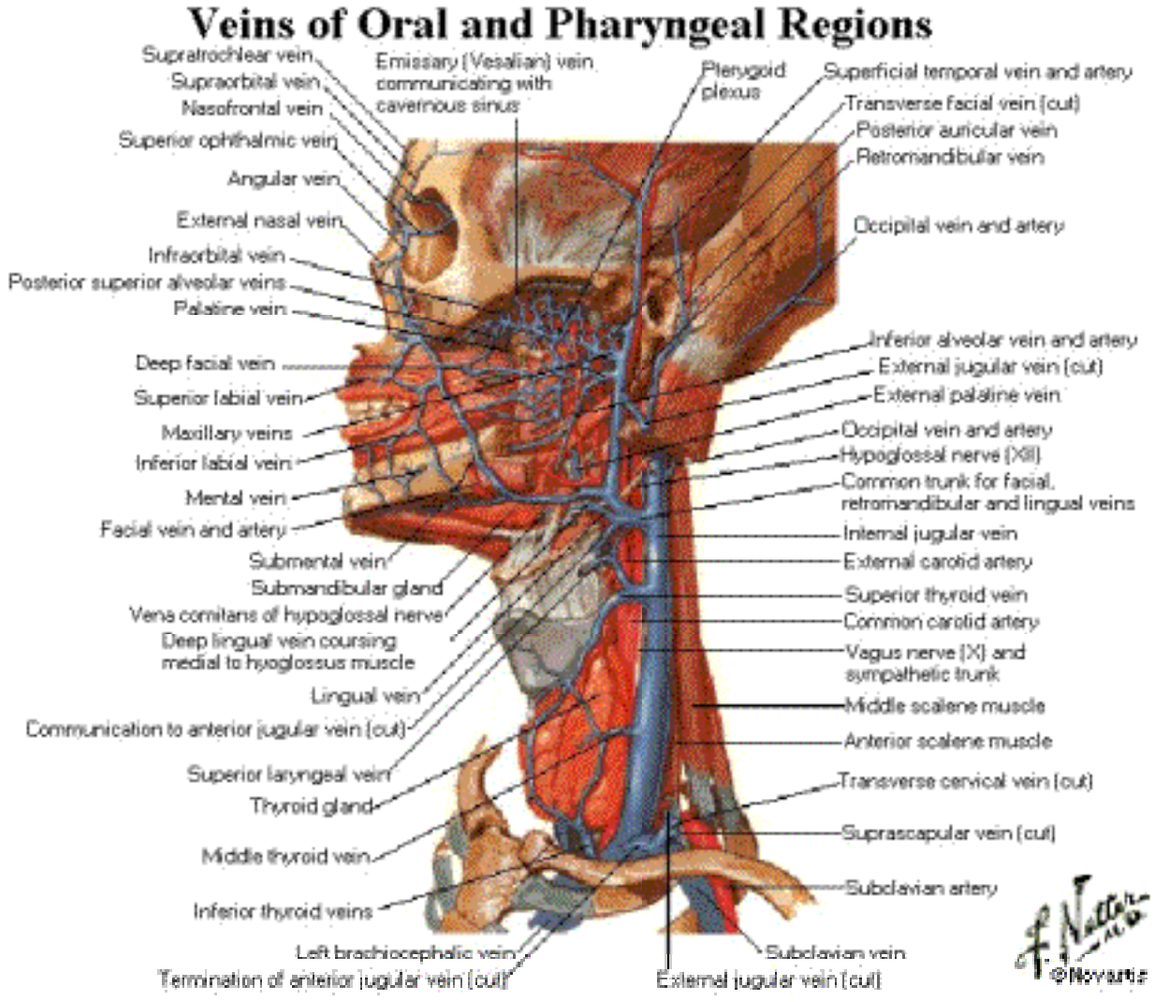
Lateral View



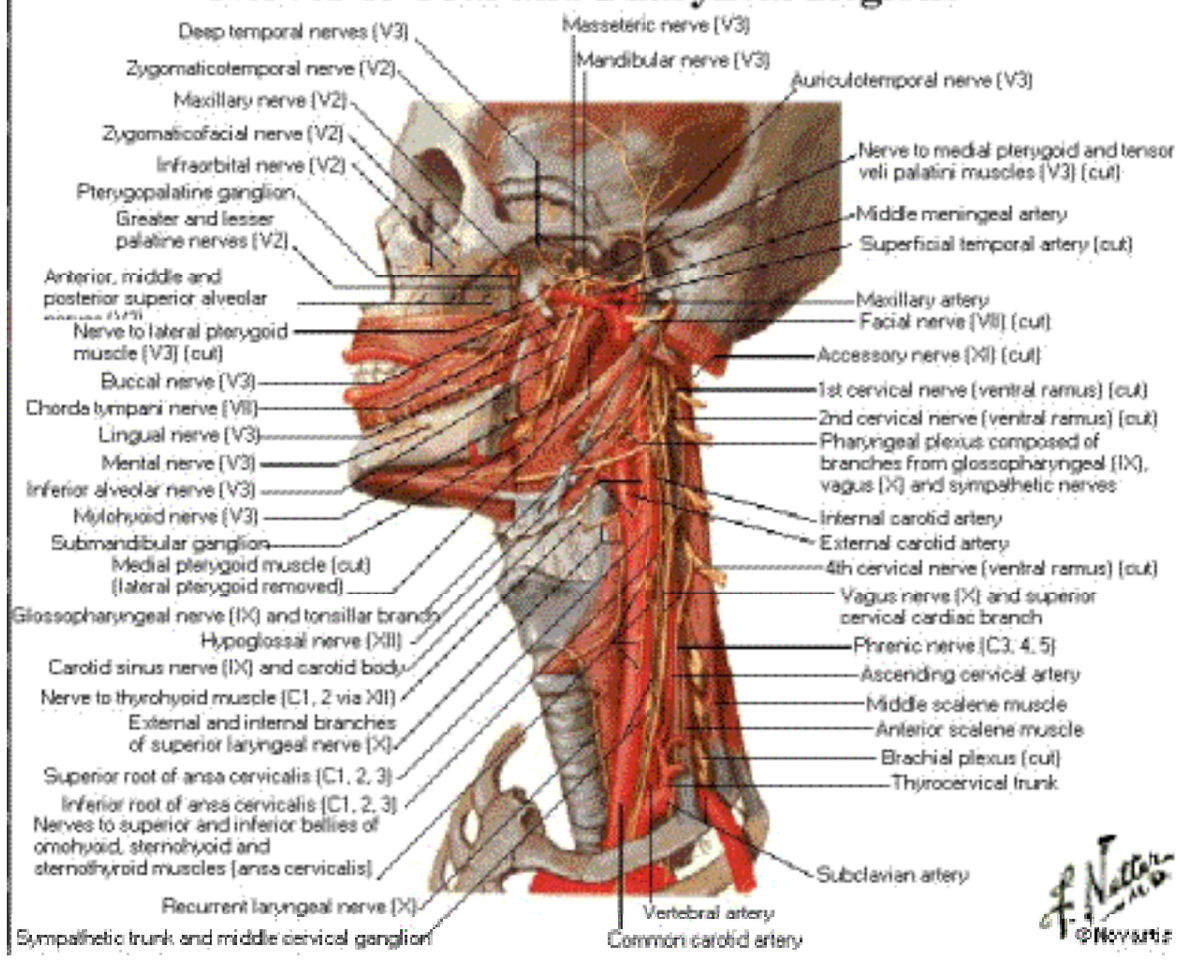
Arteries of Oral and Pharyngeal Regions



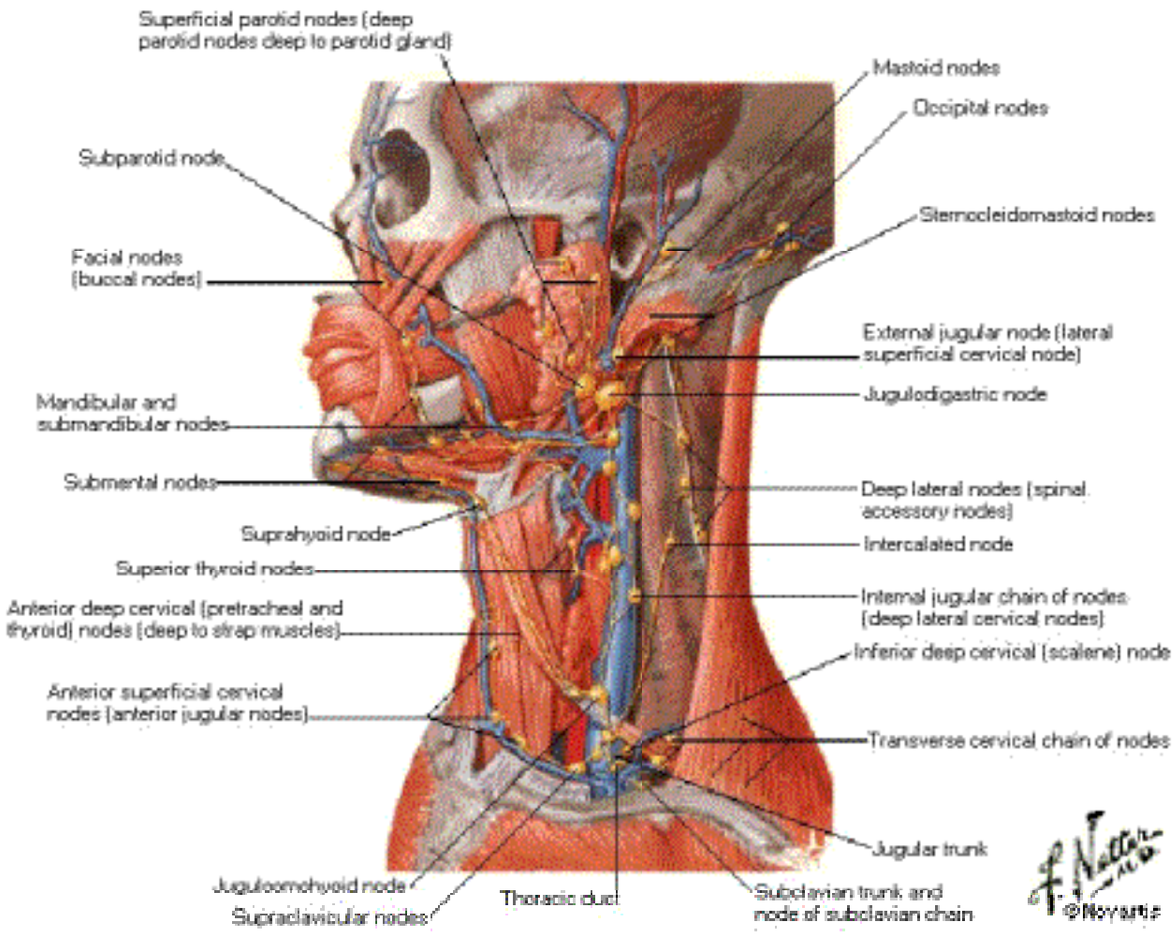
Veins of Oral and Pharyngeal Regions



Nerves of Oral and Pharyneal Regions

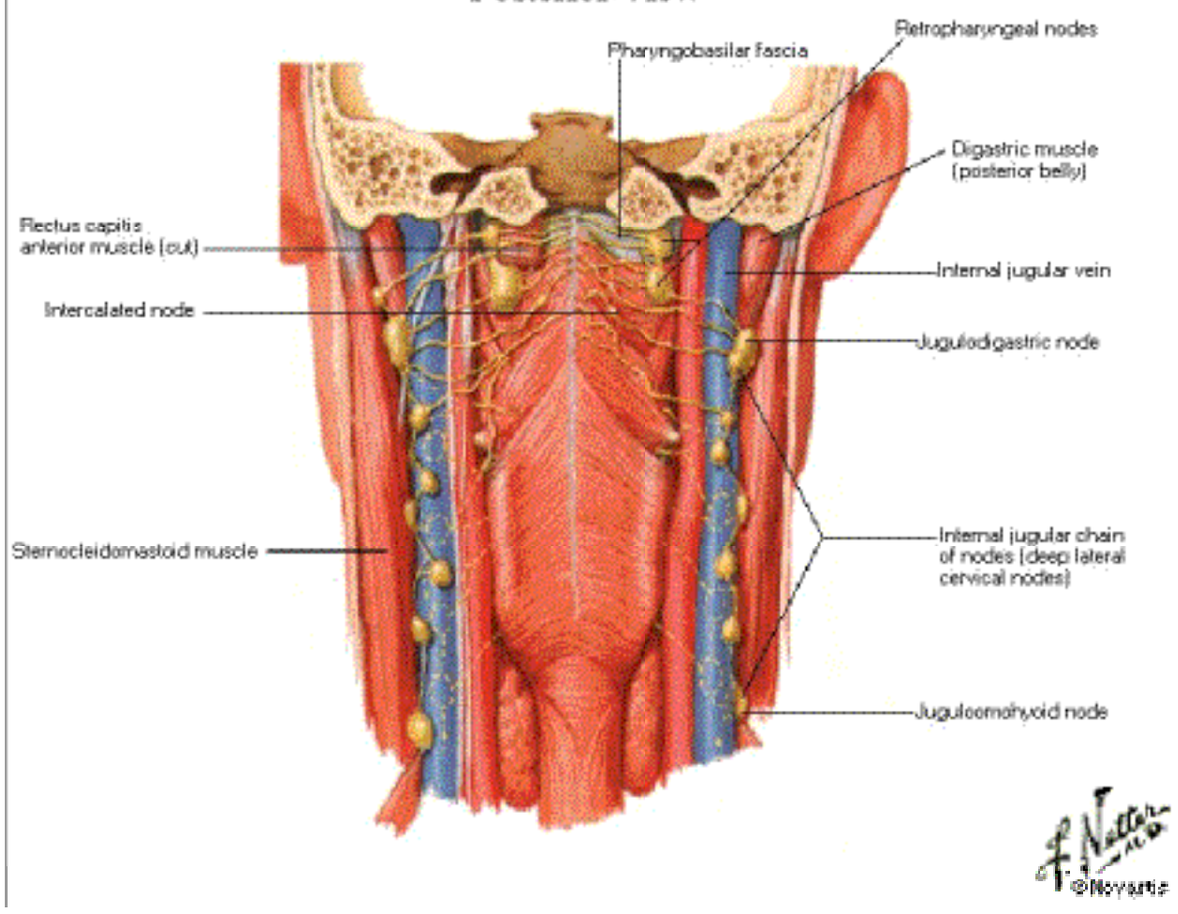


Lymph Vessels and Nodes of Oral and Pharyngeal



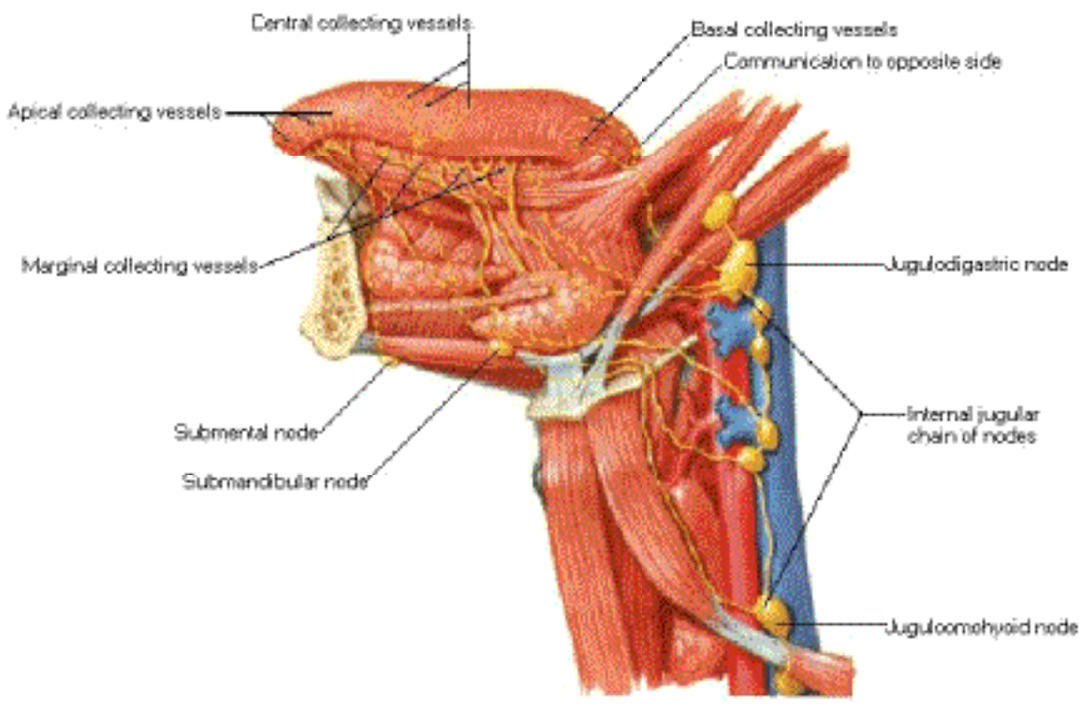
Lymphatic Drainage of Pharynx

Posterior View



Lymphatic Drainage of Tongue

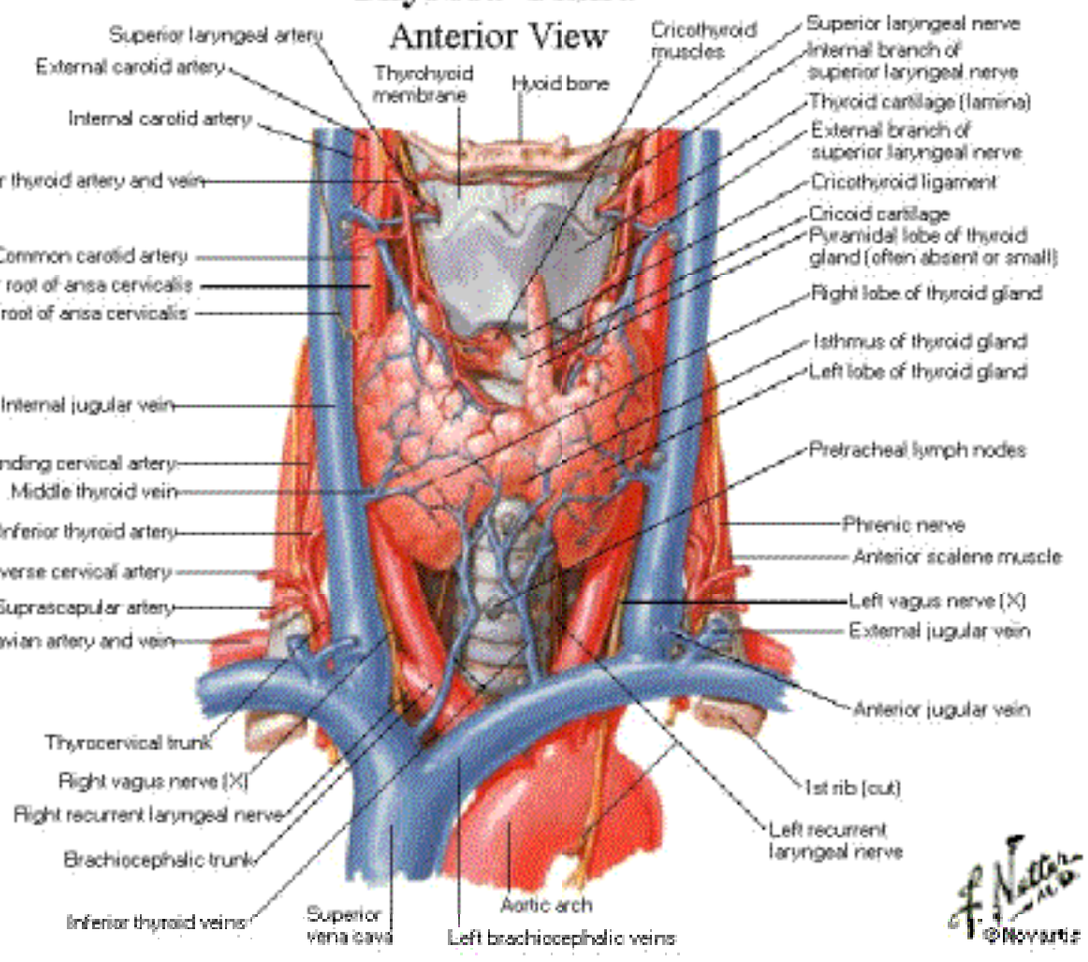
Lateral View



©Novartis

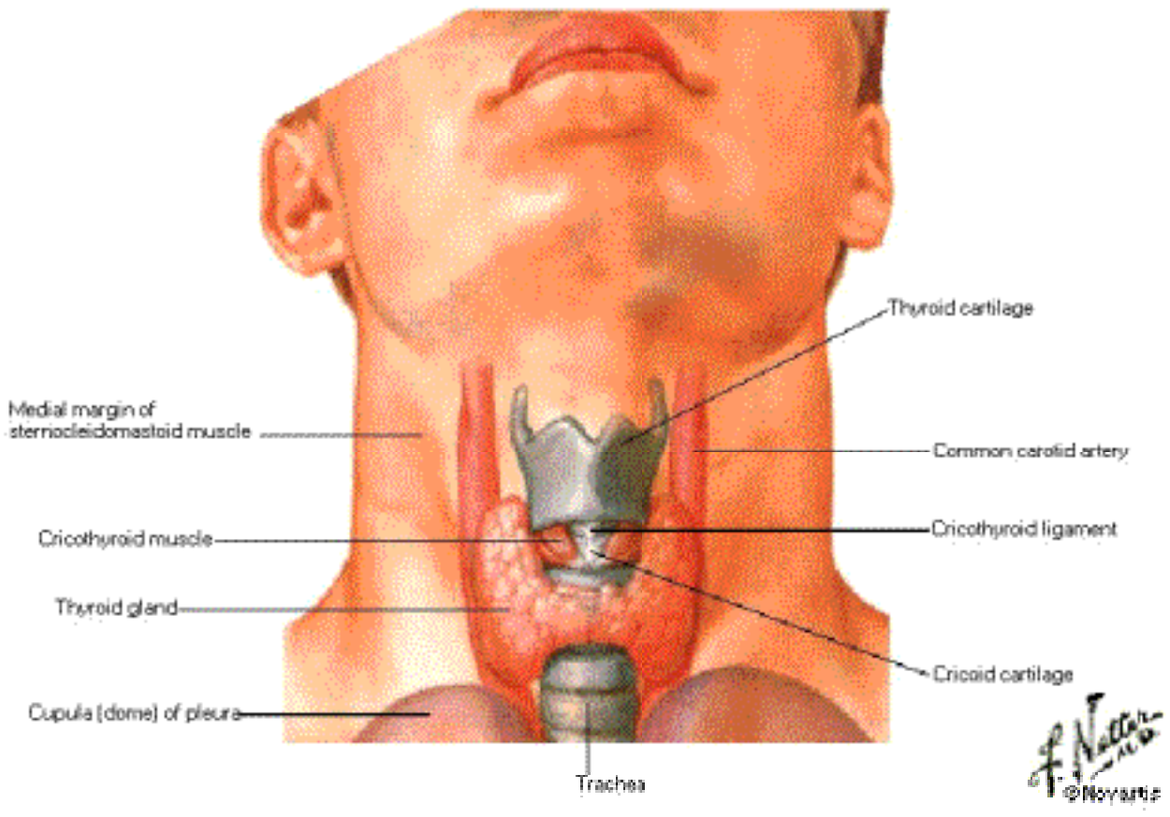
Thyroid Gland

Anterior View



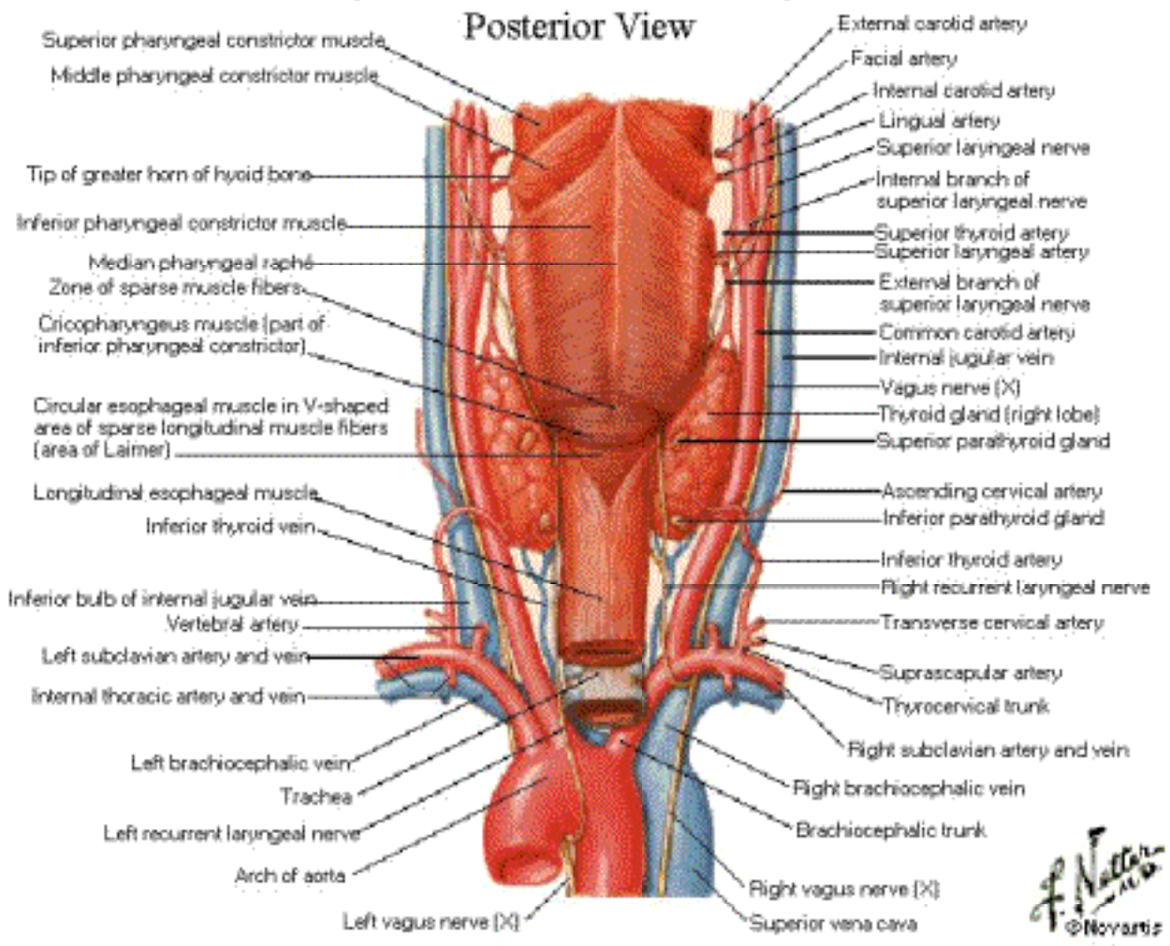
Thyroid Gland in Situ

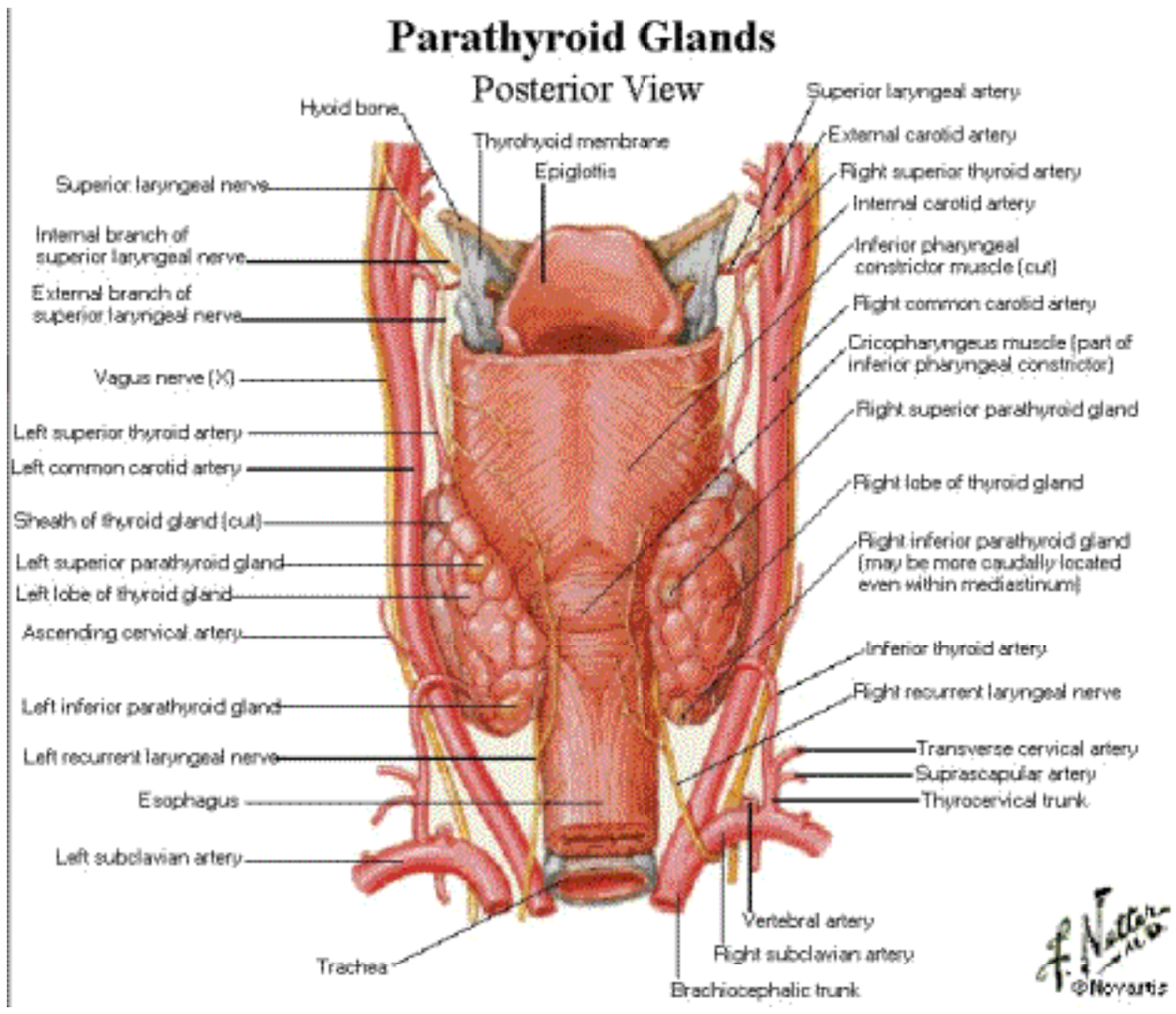
Anterior View

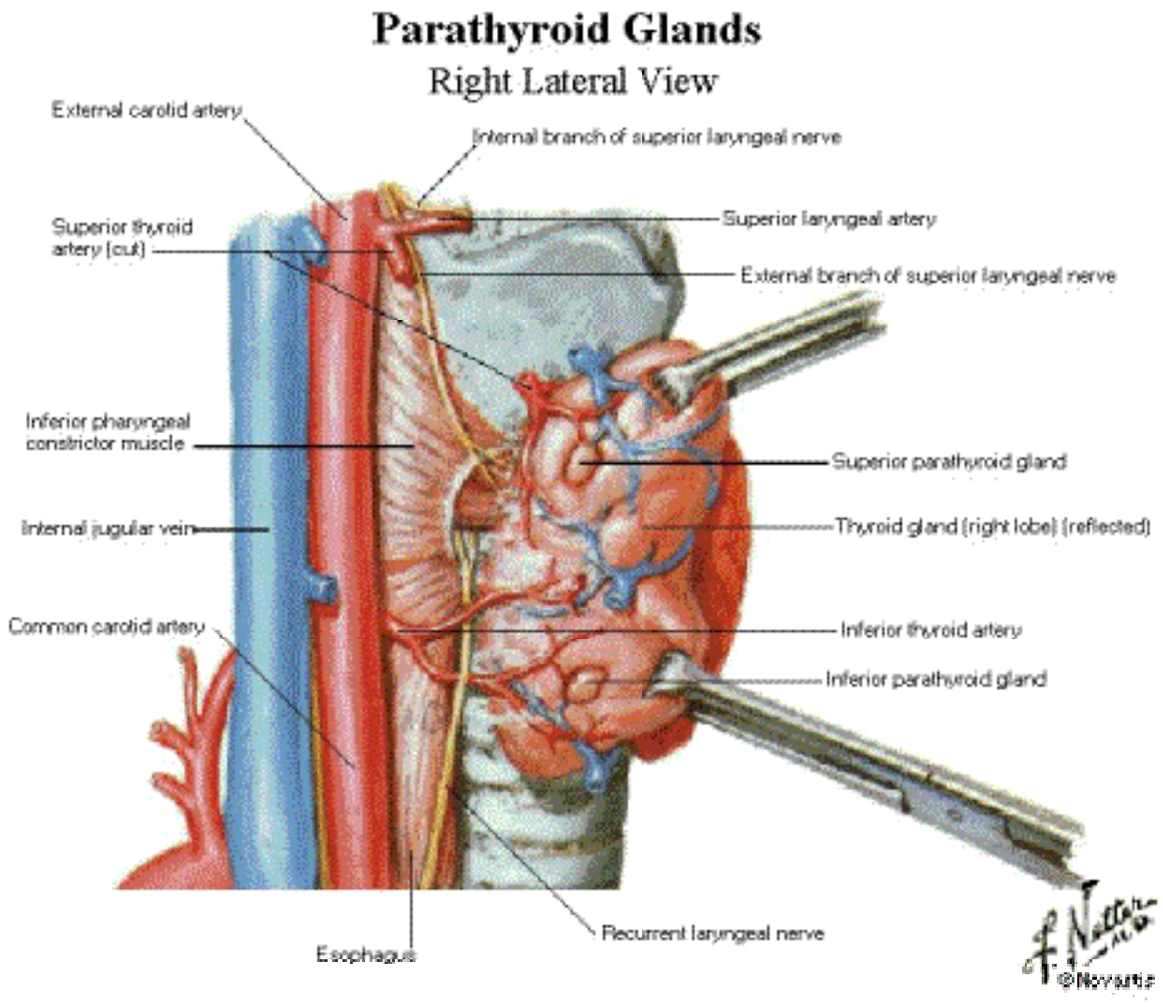


Thyroid Gland and Pharynx

Posterior View

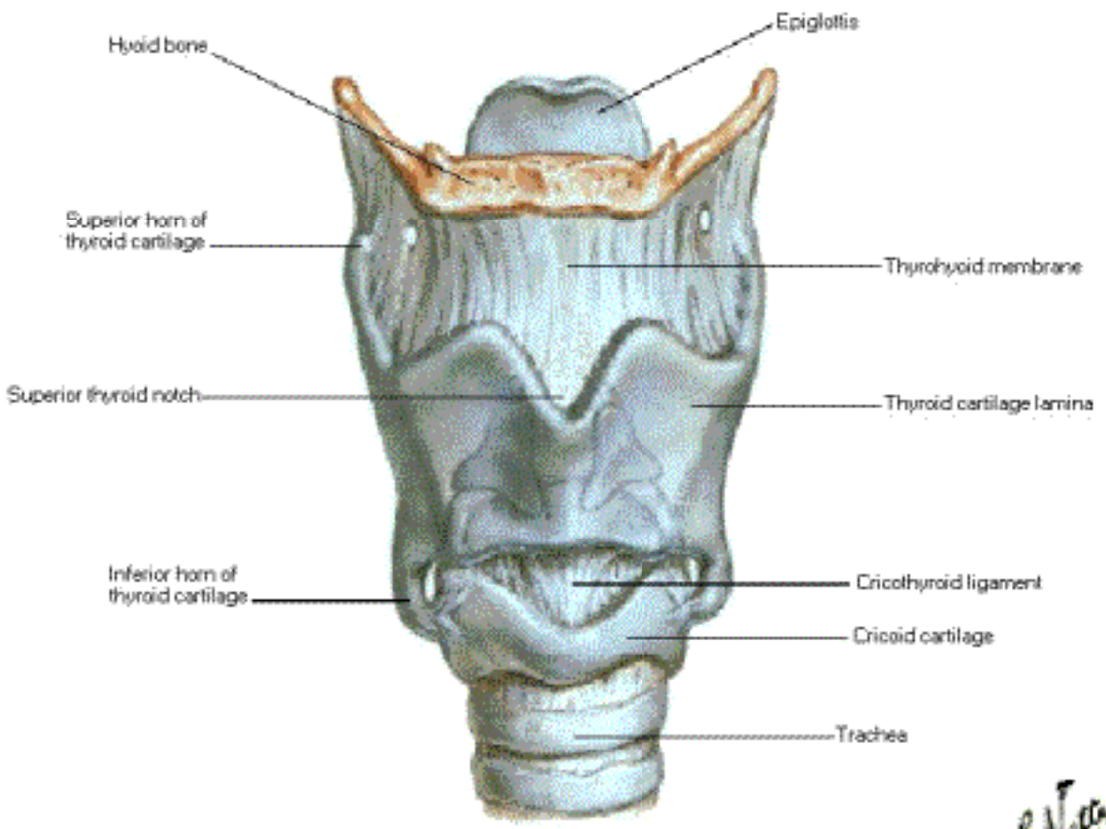



Parathyroid Glands
Posterior View
Hyoid bone
Thyrohyoid membrane
Epiglottis
Superior laryngeal nerve
Internal branch of superior laryngeal nerve
External branch of superior laryngeal nerve
Vagus nerve (X)
Left superior thyroid artery
Left common carotid artery
Sheath of thyroid gland (cut)
Left superior parathyroid gland
Left lobe of thyroid gland
Ascending cervical artery
Left inferior parathyroid gland
Left recurrent laryngeal nerve
Esophagus
Left subclavian artery
Trachea
Brachiocephalic trunk
Right subclavian artery
Vertebral artery
Thyrocervical trunk
Suprascapular artery
Transverse cervical artery
Right recurrent laryngeal nerve
Inferior thyroid artery
Right inferior parathyroid gland (may be more caudally located even within mediastinum)
Right lobe of thyroid gland
Right superior parathyroid gland
Cricopharyngeus muscle (part of inferior pharyngeal constrictor)
Right common carotid artery
Inferior pharyngeal constrictor muscle (cut)
Internal carotid artery
Right superior thyroid artery
External carotid artery
Superior laryngeal artery
F. Netter M.D.
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Parathyroid Glands
Right Lateral View
External carotid artery
Internal branch of superior laryngeal nerve
Superior thyroid artery (cut)
Superior laryngeal artery
External branch of superior laryngeal nerve
Inferior pharyngeal constrictor muscle
Superior parathyroid gland
Internal jugular vein
Thyroid gland (right lobe) (reflected)
Common carotid artery
Inferior thyroid artery
Inferior parathyroid gland
Recurrent laryngeal nerve
Esophagus
©Nevsun-s

Cartilages of Larynx

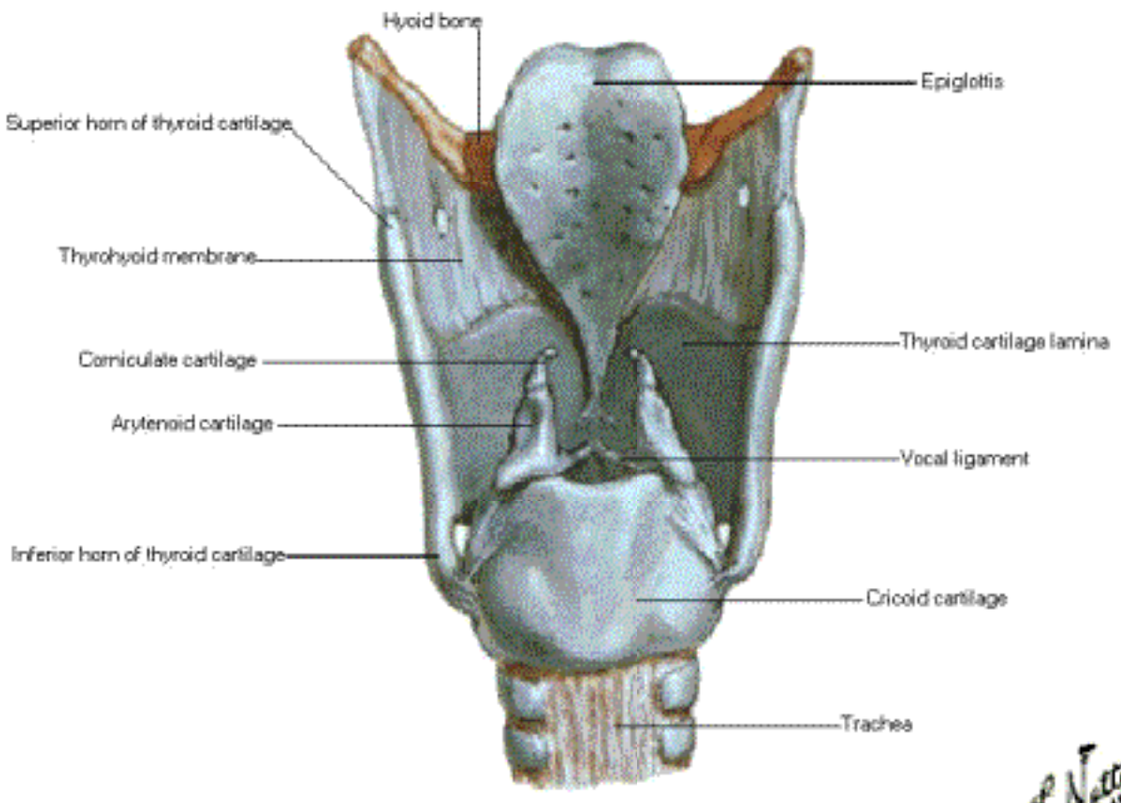
Anterior View



F. Netter M.D.
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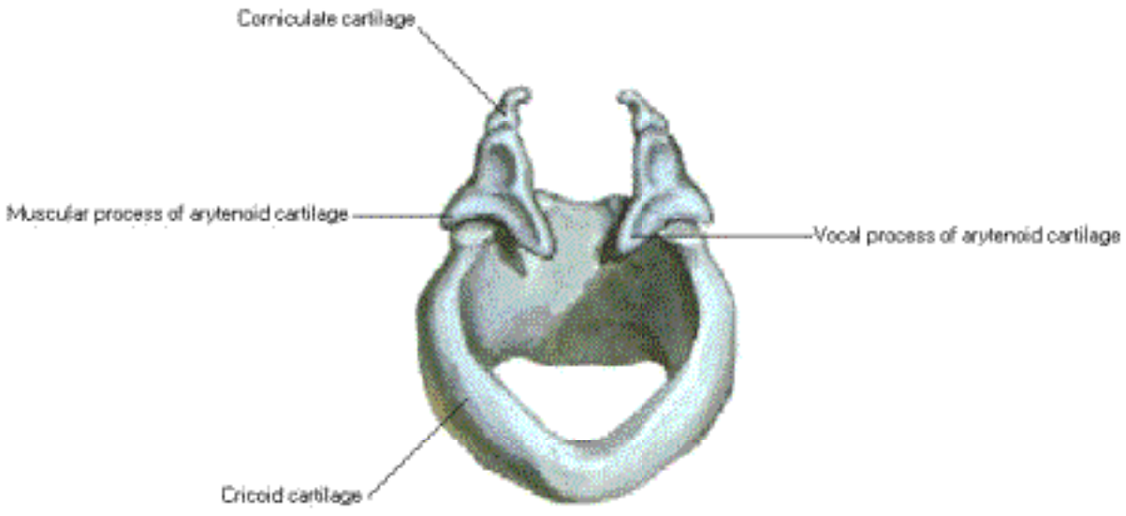
Cartilages of Larynx

Posterior View



Cartilages of Larynx

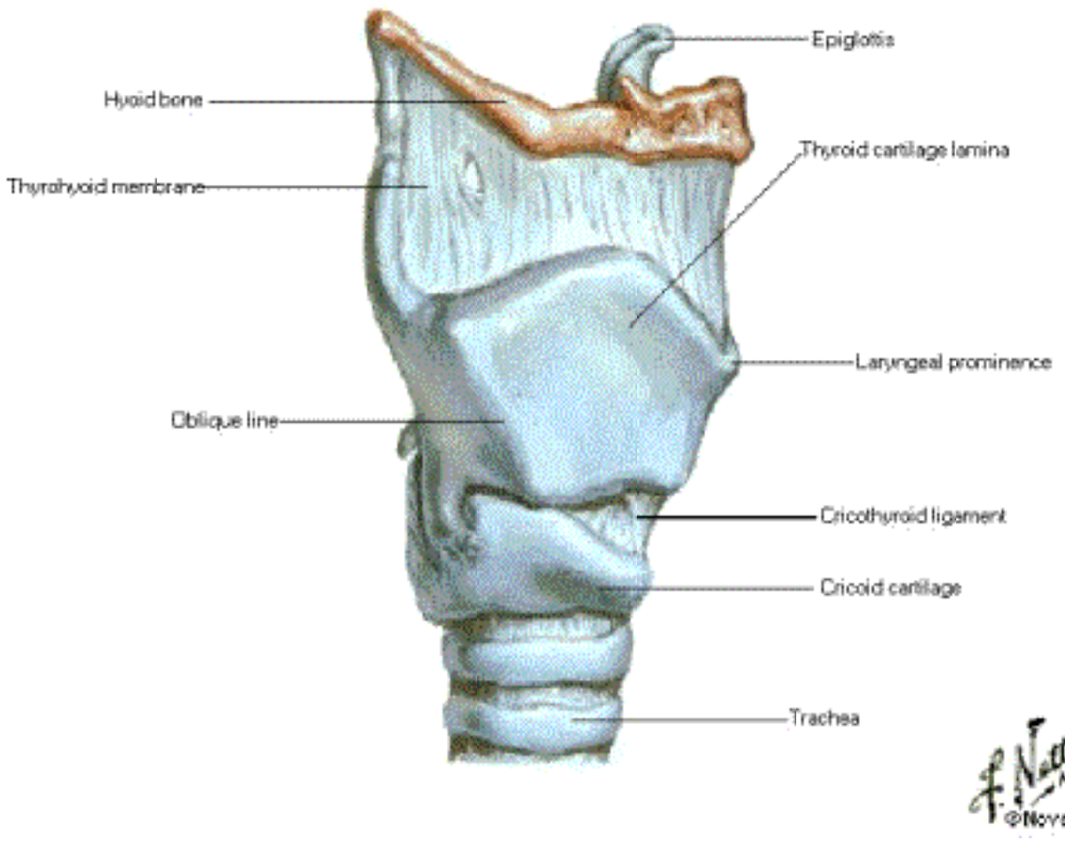
Anterosuperior View



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Cartilages of Larynx

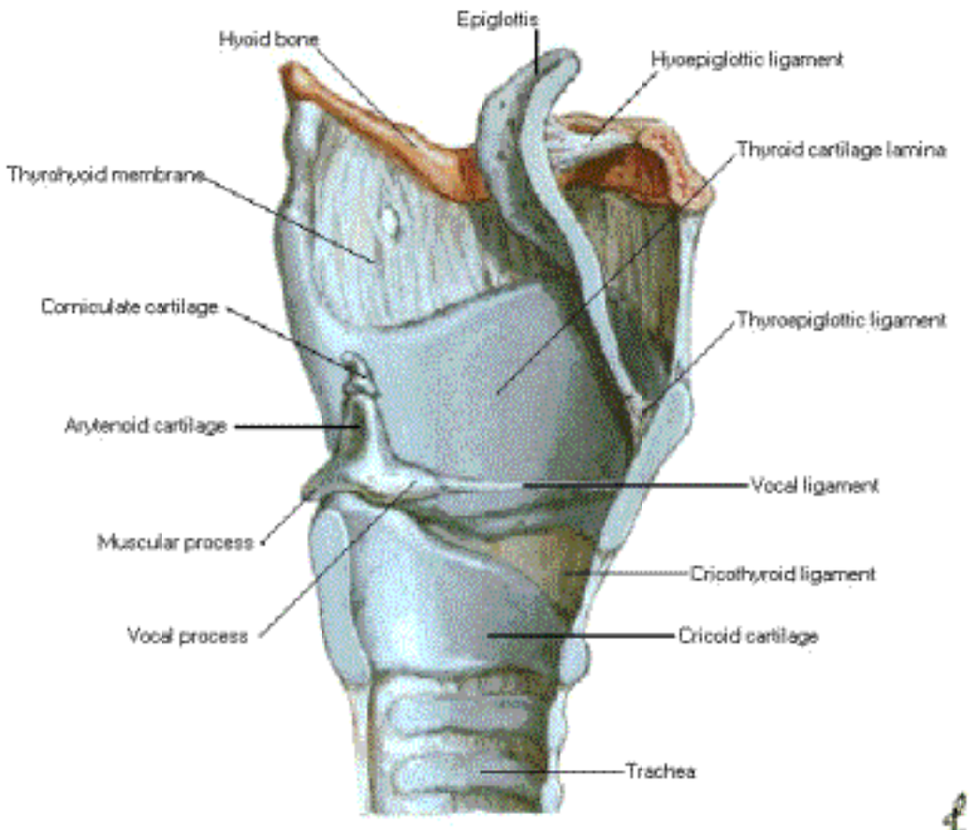
Right Lateral View



©Novartis

Cartilages of Larynx

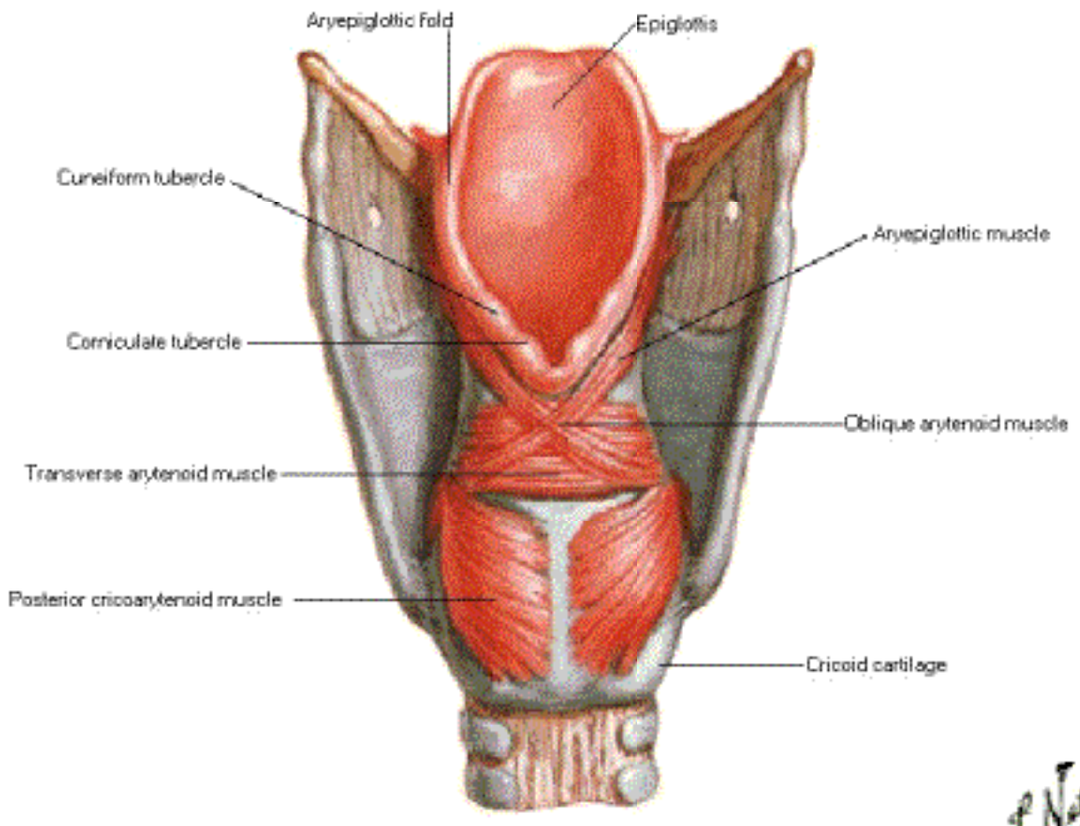
Sagittal Section



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Intrinsic Muscles of Larynx

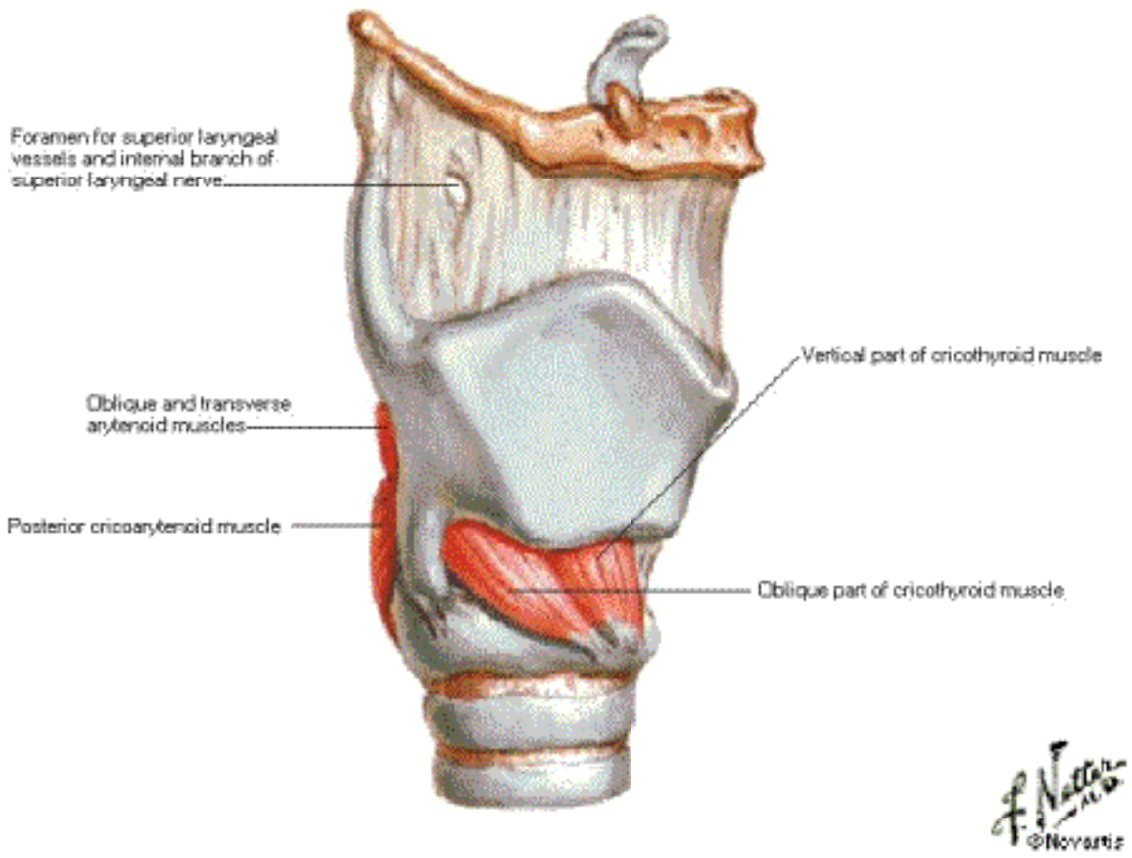
Posterior View



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Intrinsic Muscles of Larynx

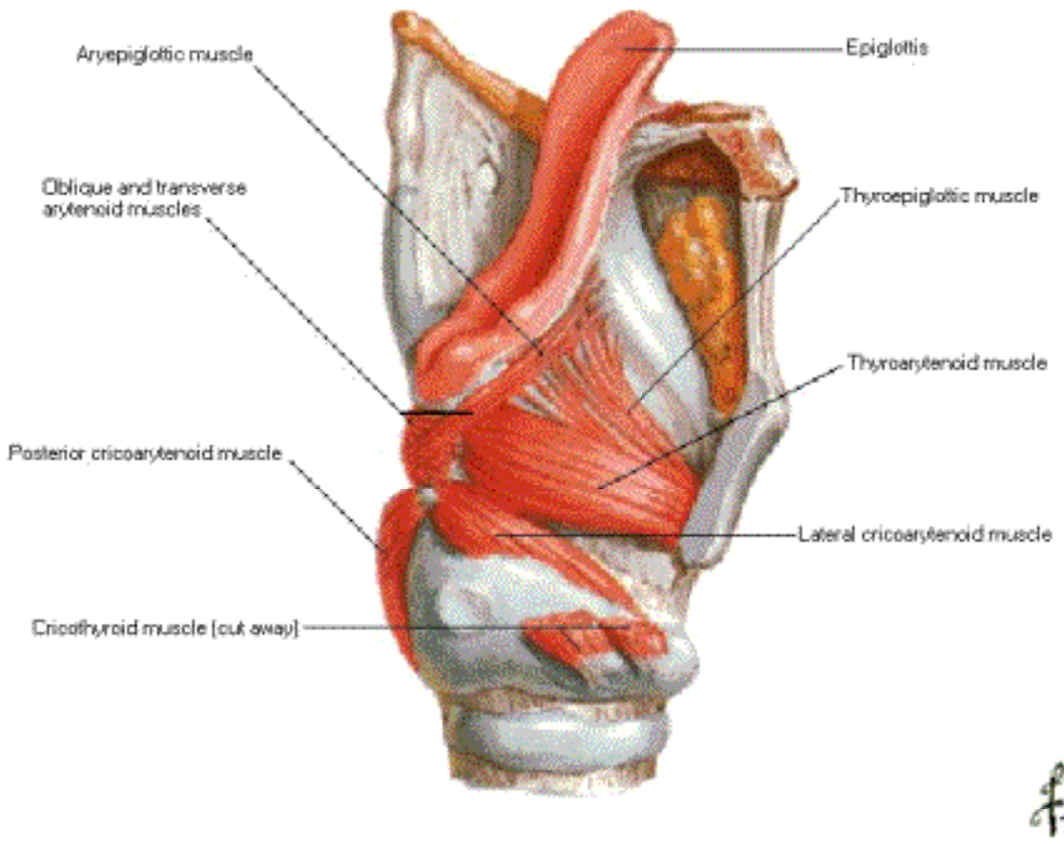
Right Lateral View



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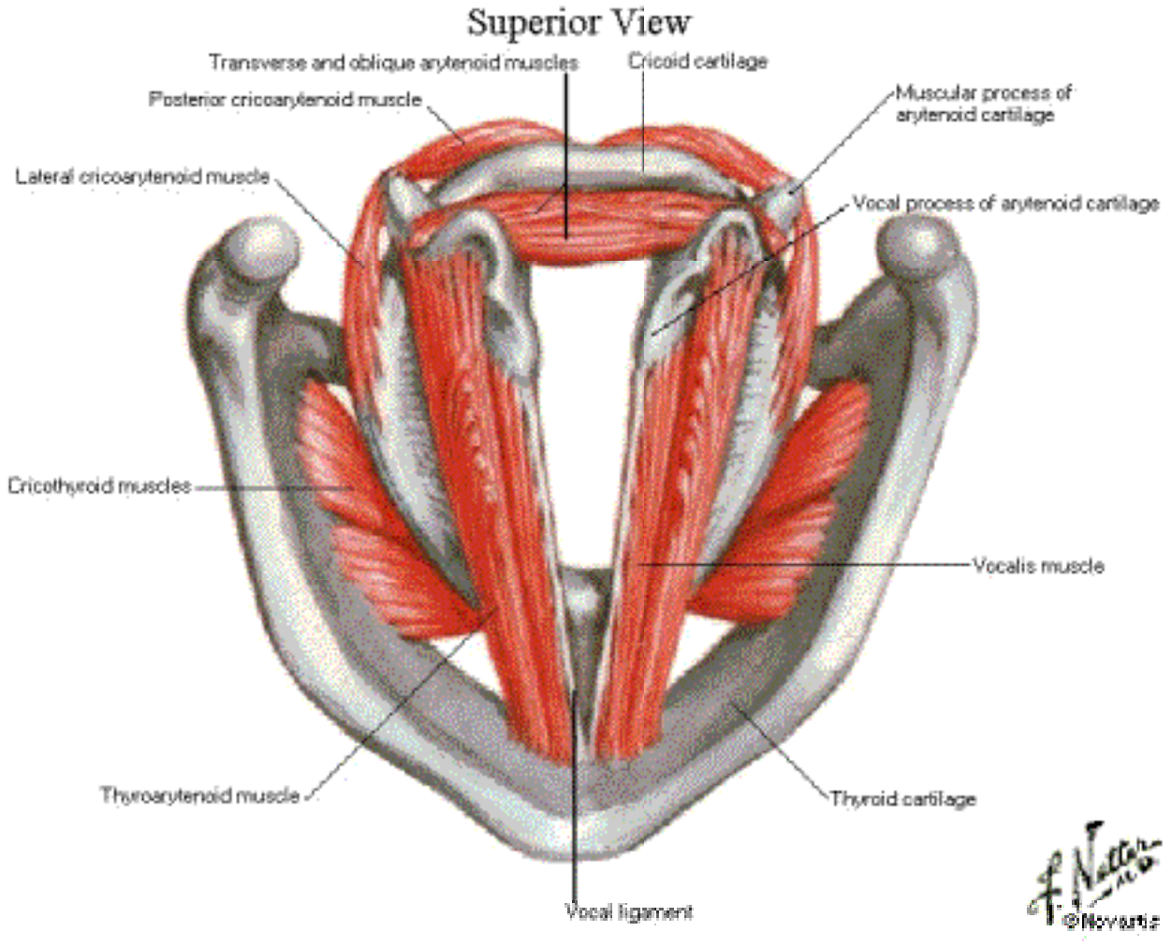
Intrinsic Muscles of Larynx

Lateral Dissection

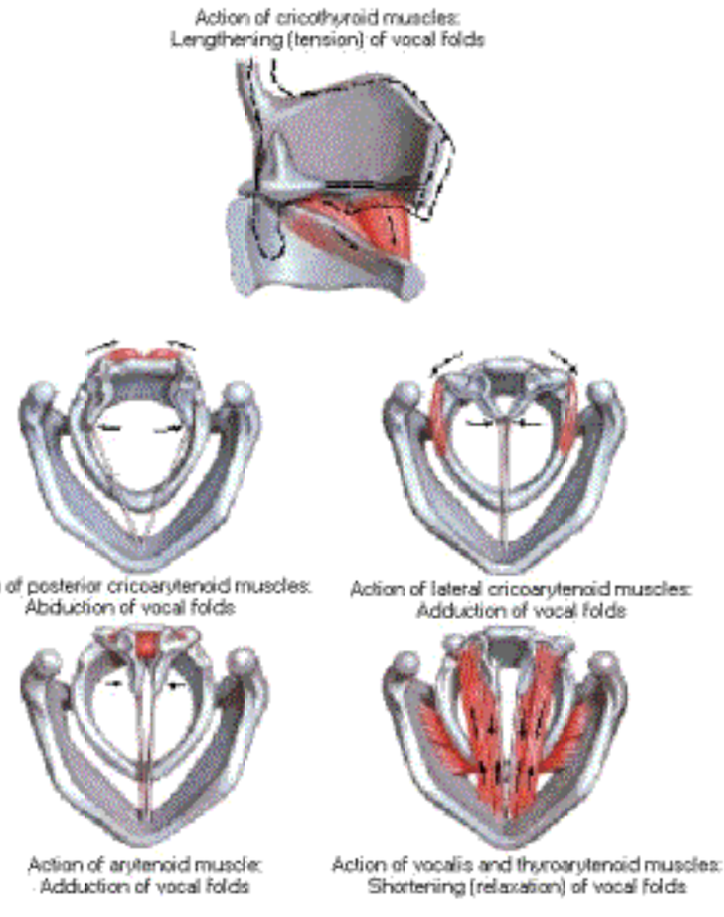


Intrinsic Muscles of Larynx

Superior View

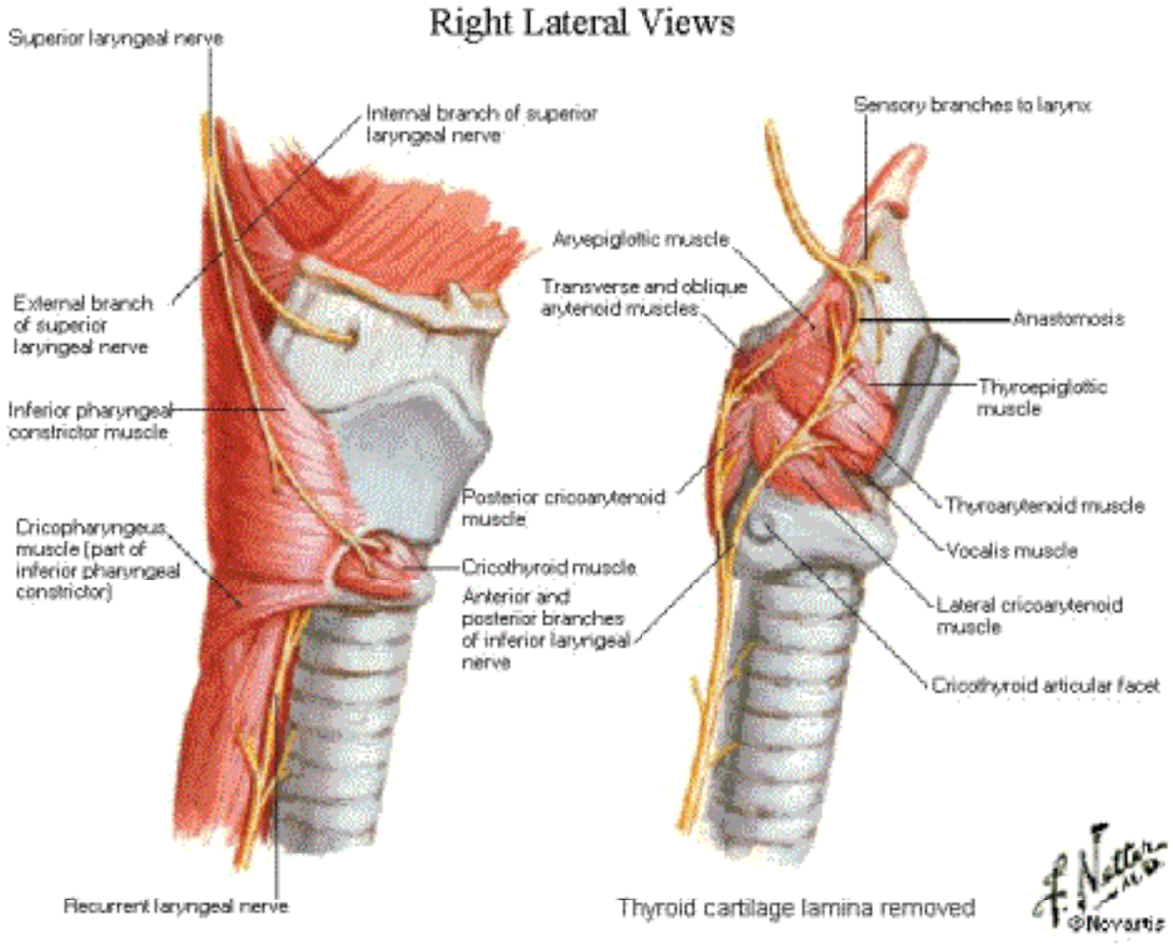


Action of Intrinsic Muscles of Larynx



Nerves of Larynx

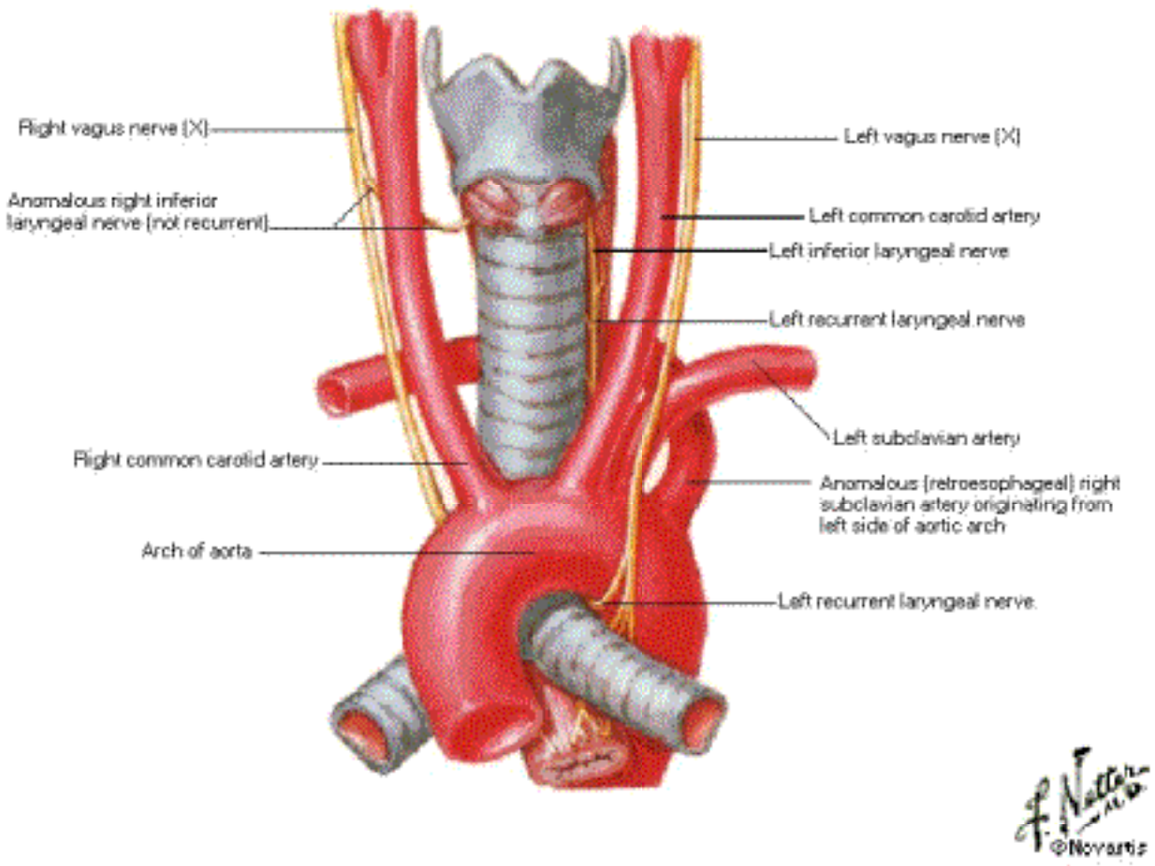
Right Lateral Views



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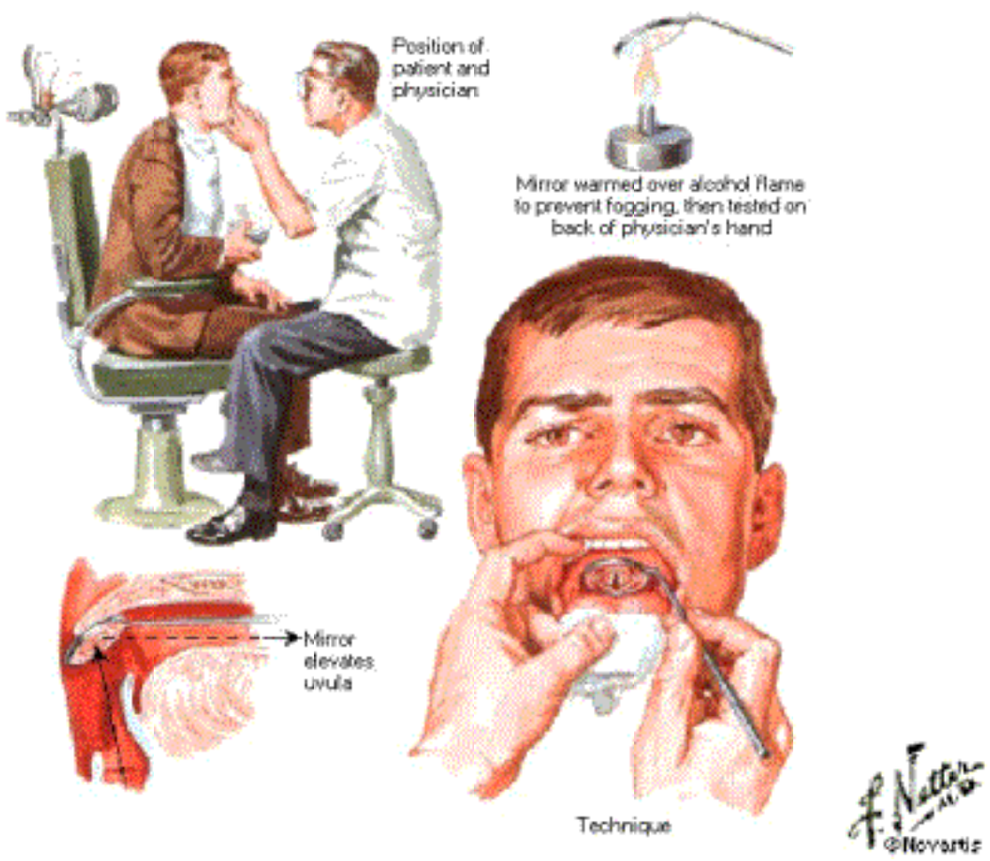
Nerves of Larynx

Anterior View



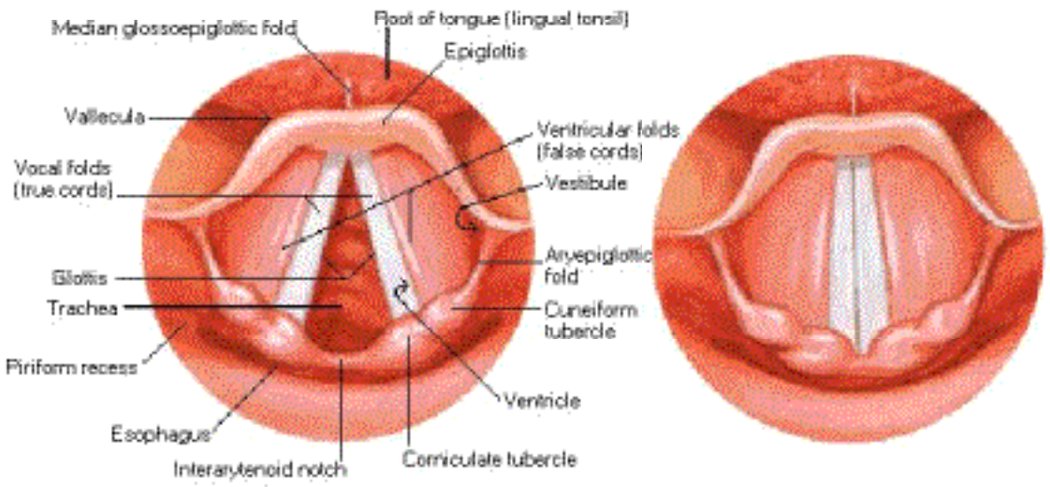
Inspection of Larynx

Technique



Inspection of Larynx

Views during Inspiration and Phonation



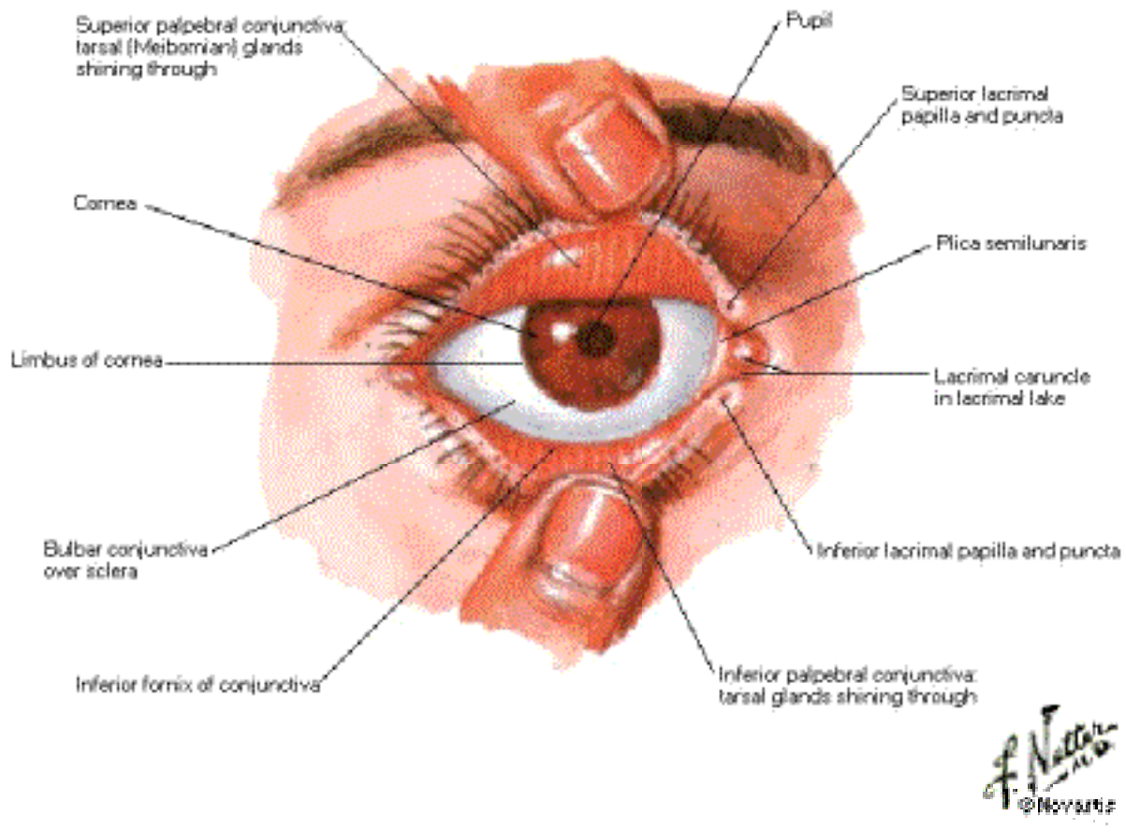
Normal larynx: inspiration

Normal larynx: phonation

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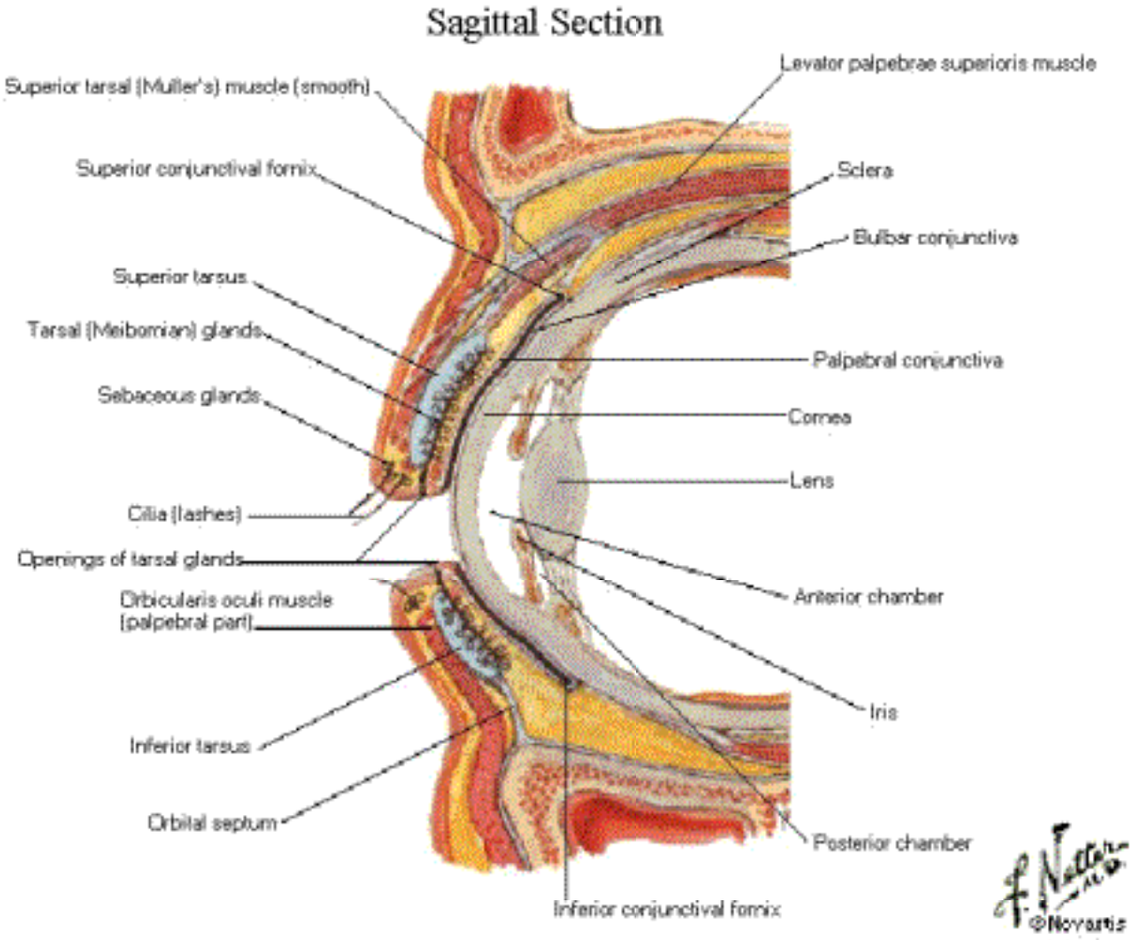
Eyelids

Anterior View



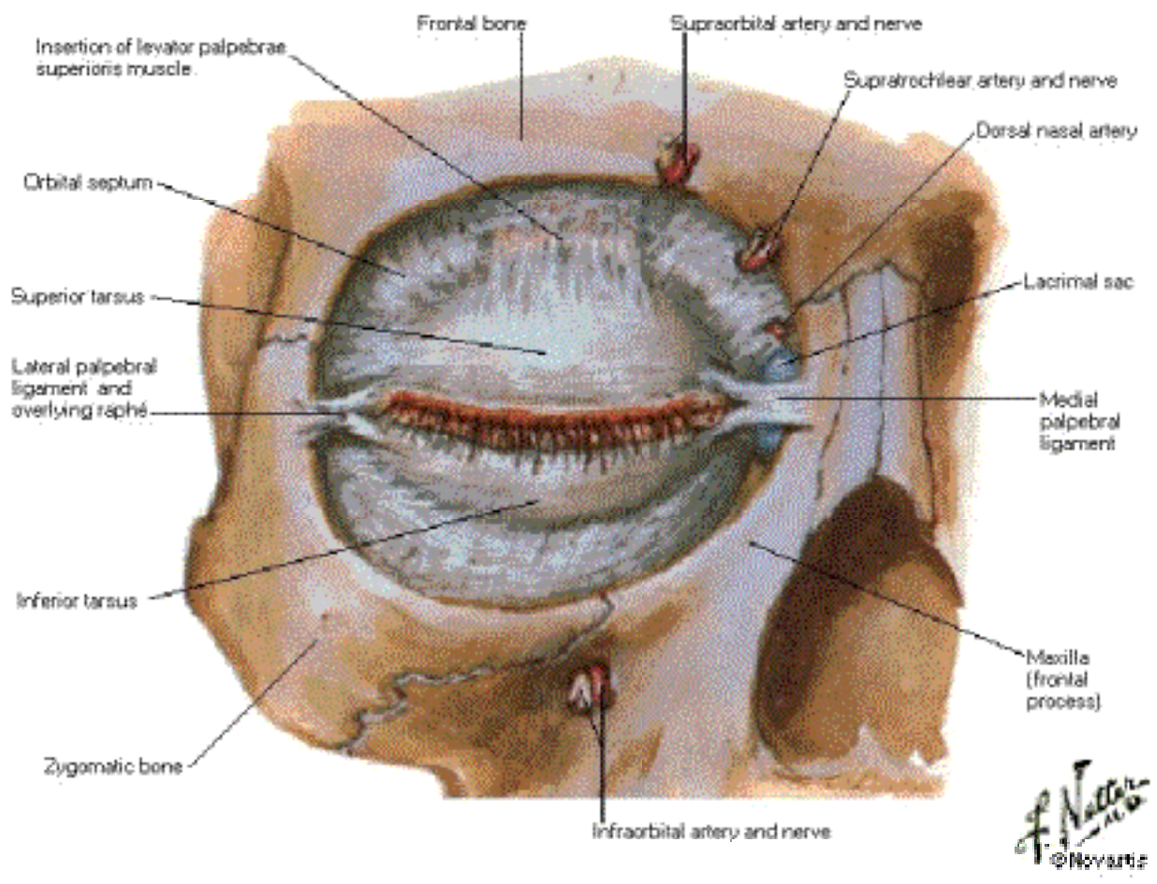
Eyelids and Anterior Orbital Structures

Sagittal Section

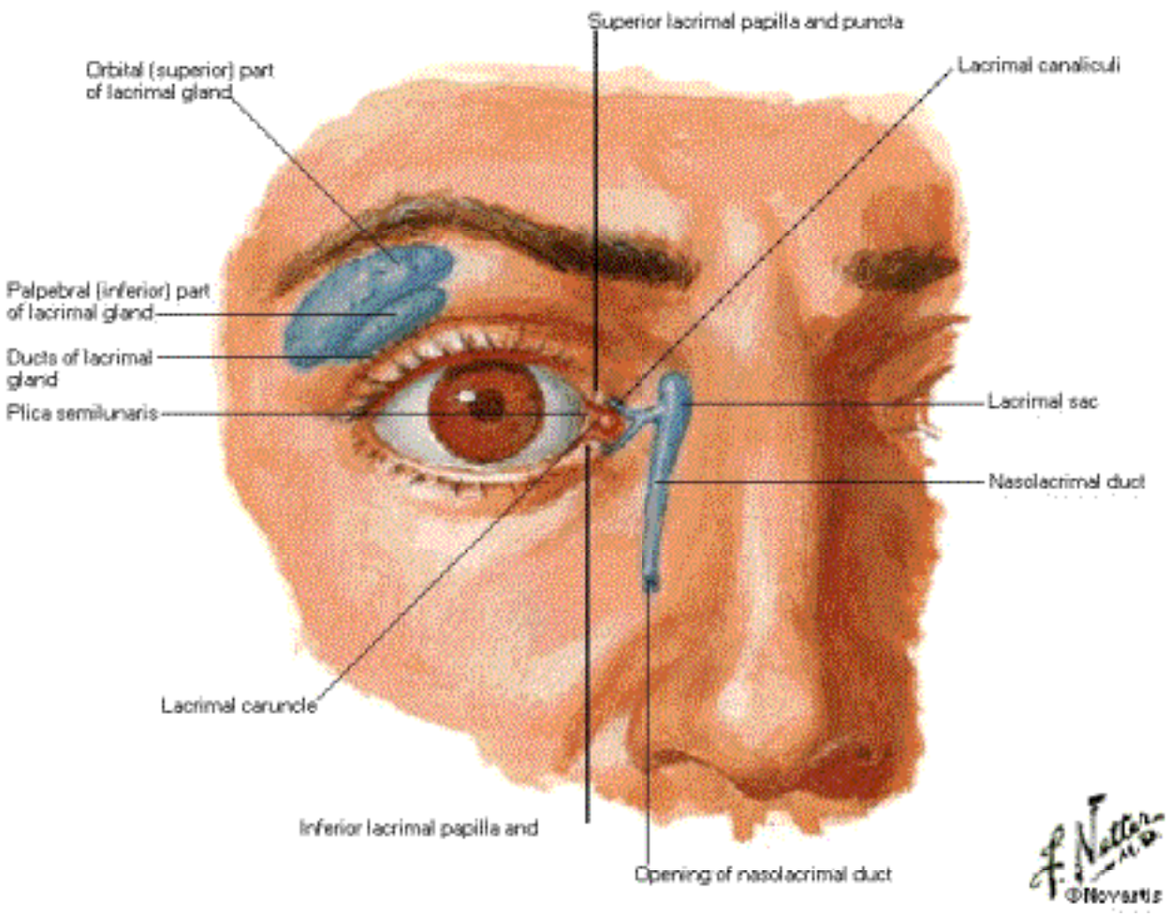


Eyelids - Dissection

Anterior View

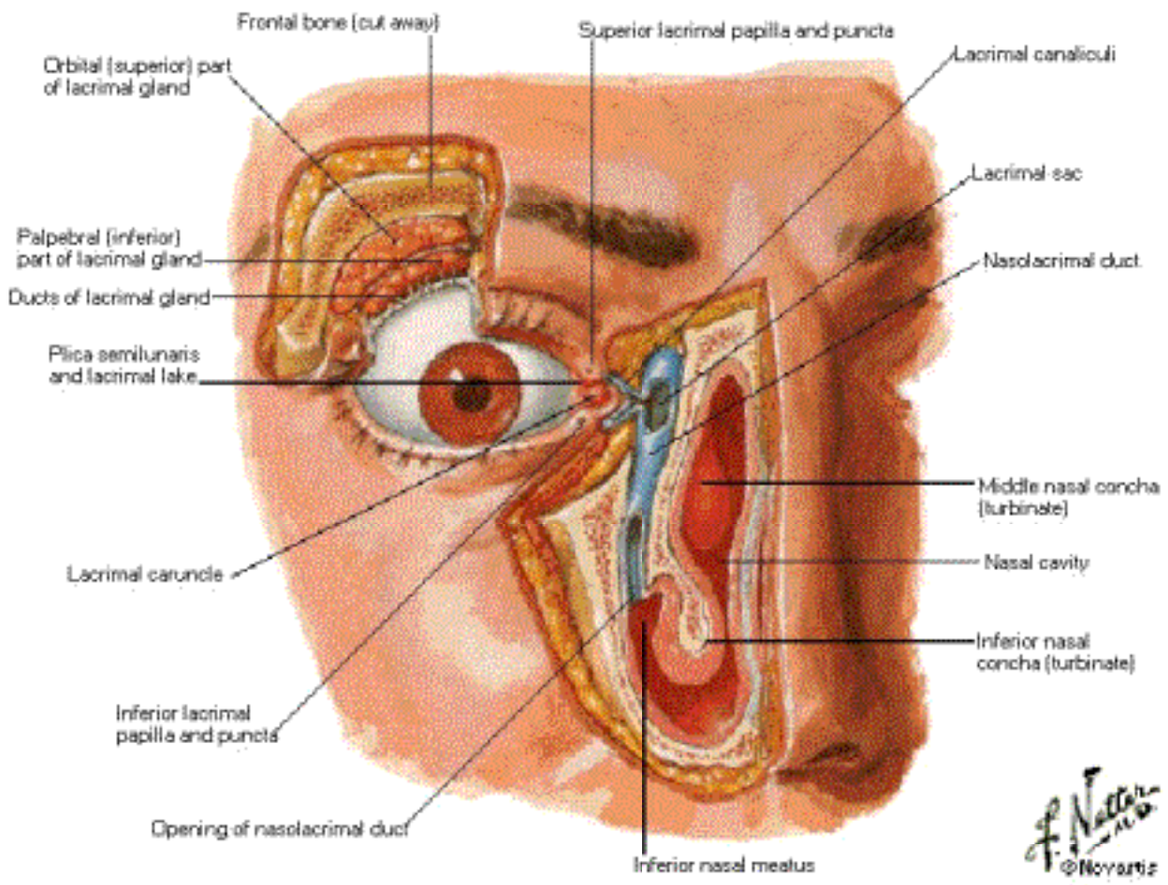


Lacrimal Apparatus in Situ



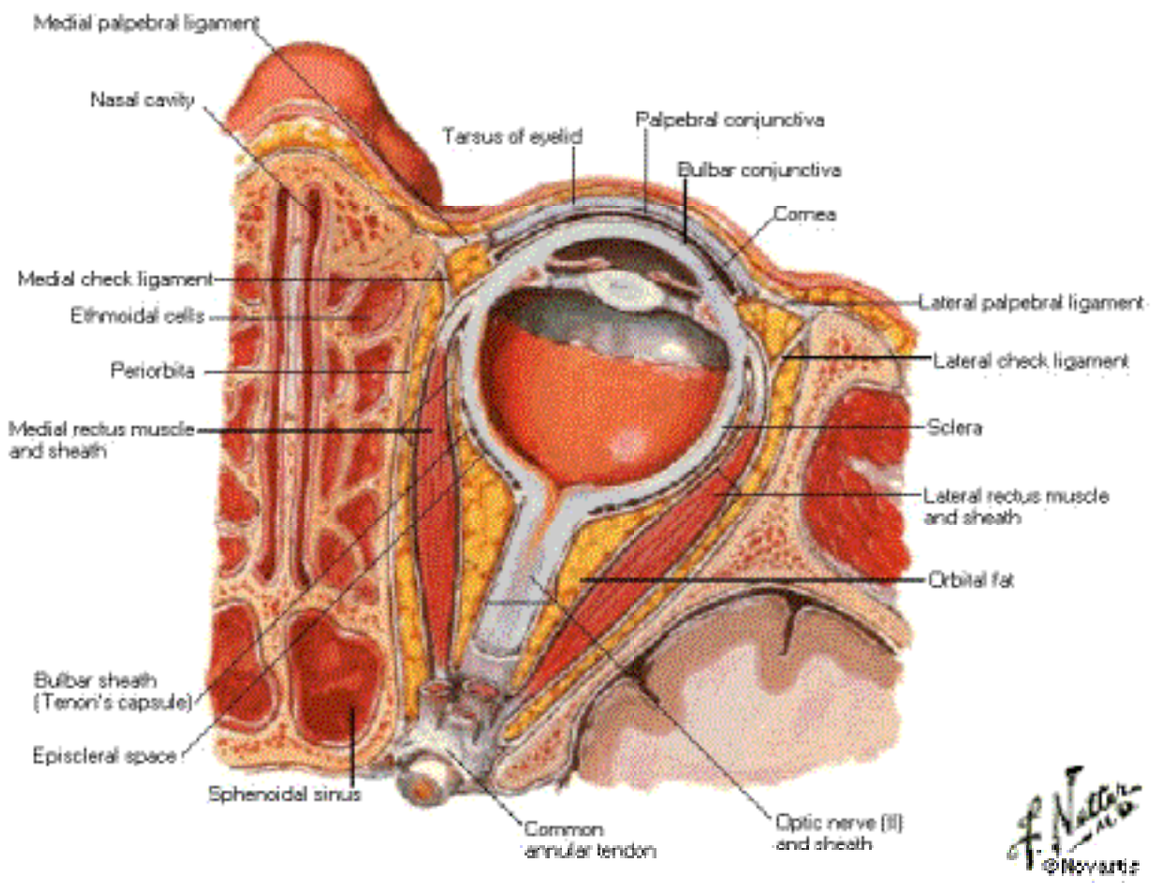
Lacrimal Apparatus

Dissection



Fascia of Orbit and Eyeball

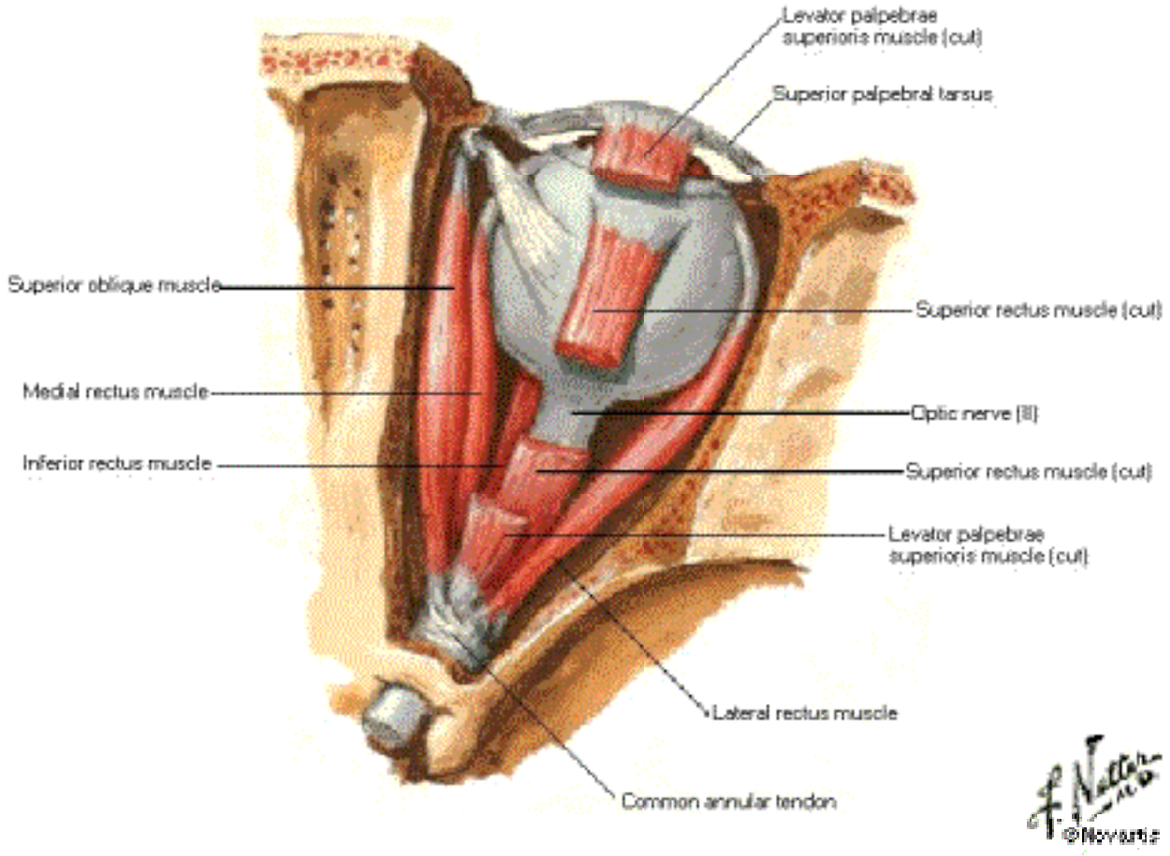
Horizontal Section



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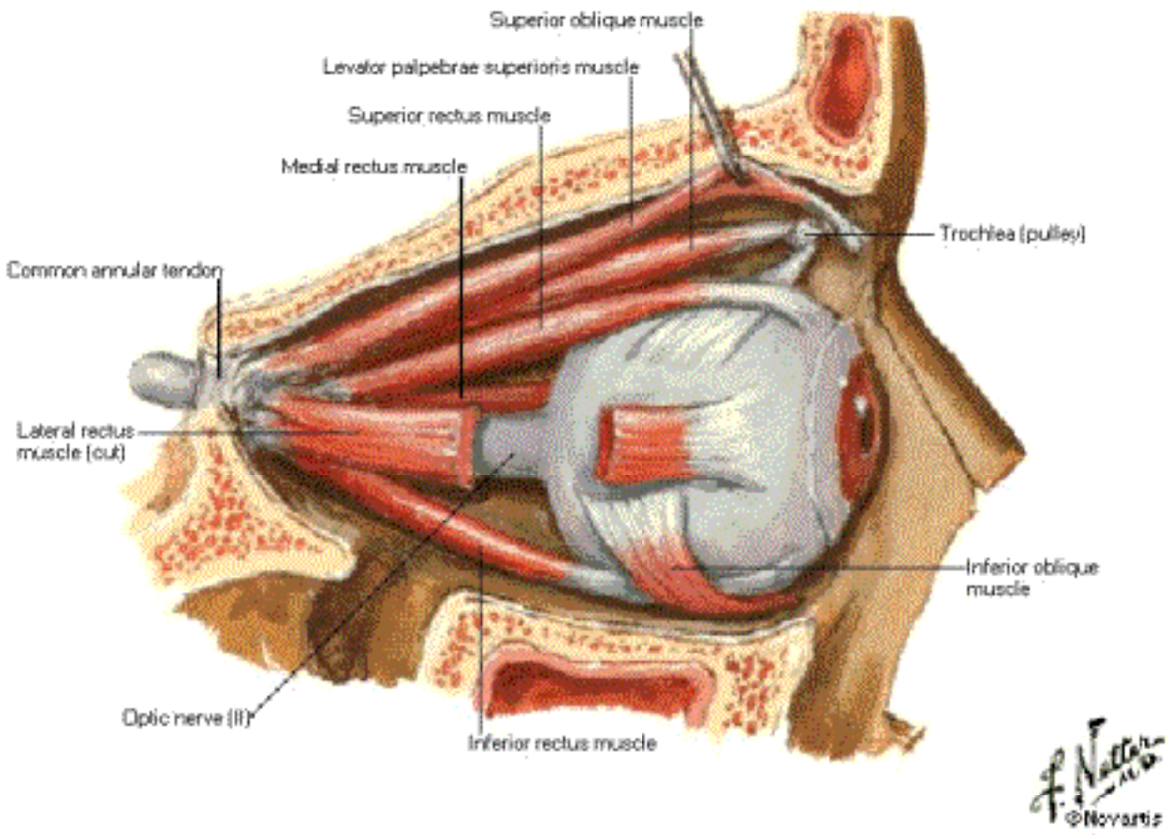
Extrinsic Eye Muscles

Superior View



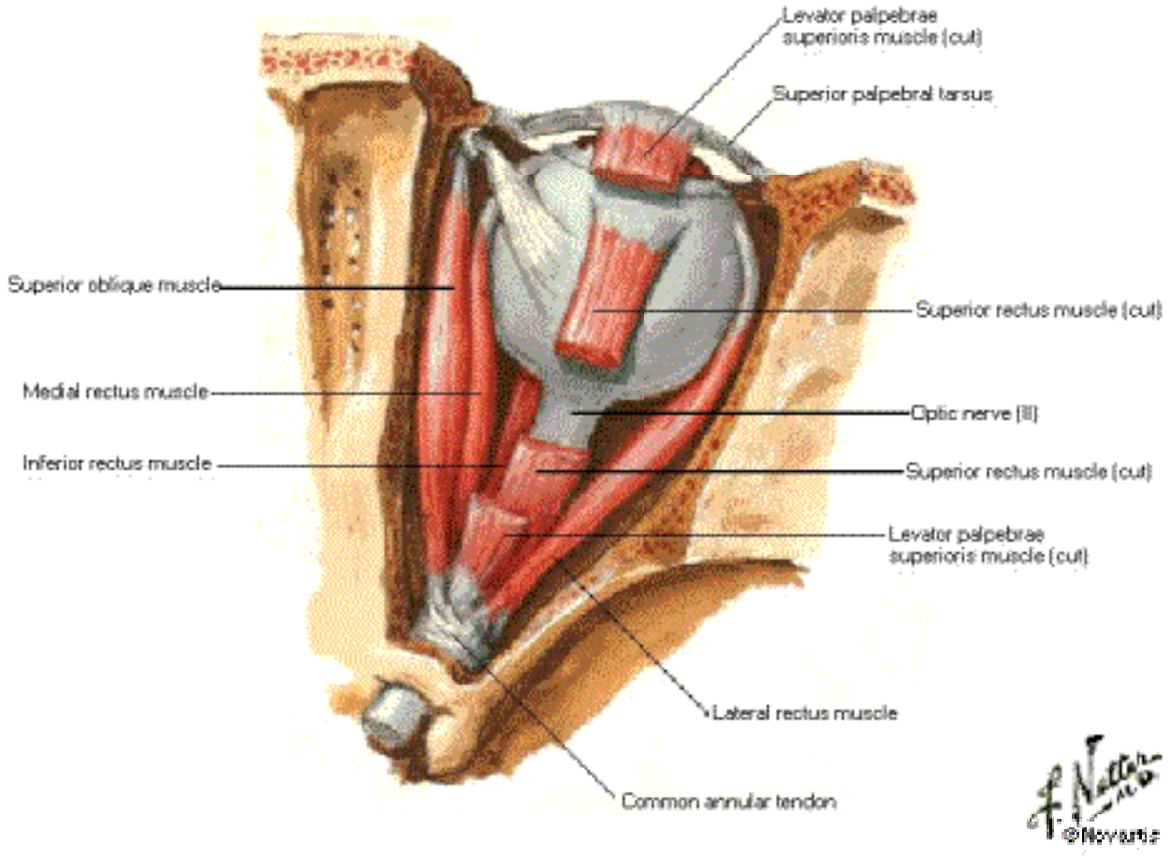
Extrinsic Eye Muscles

Right Lateral View

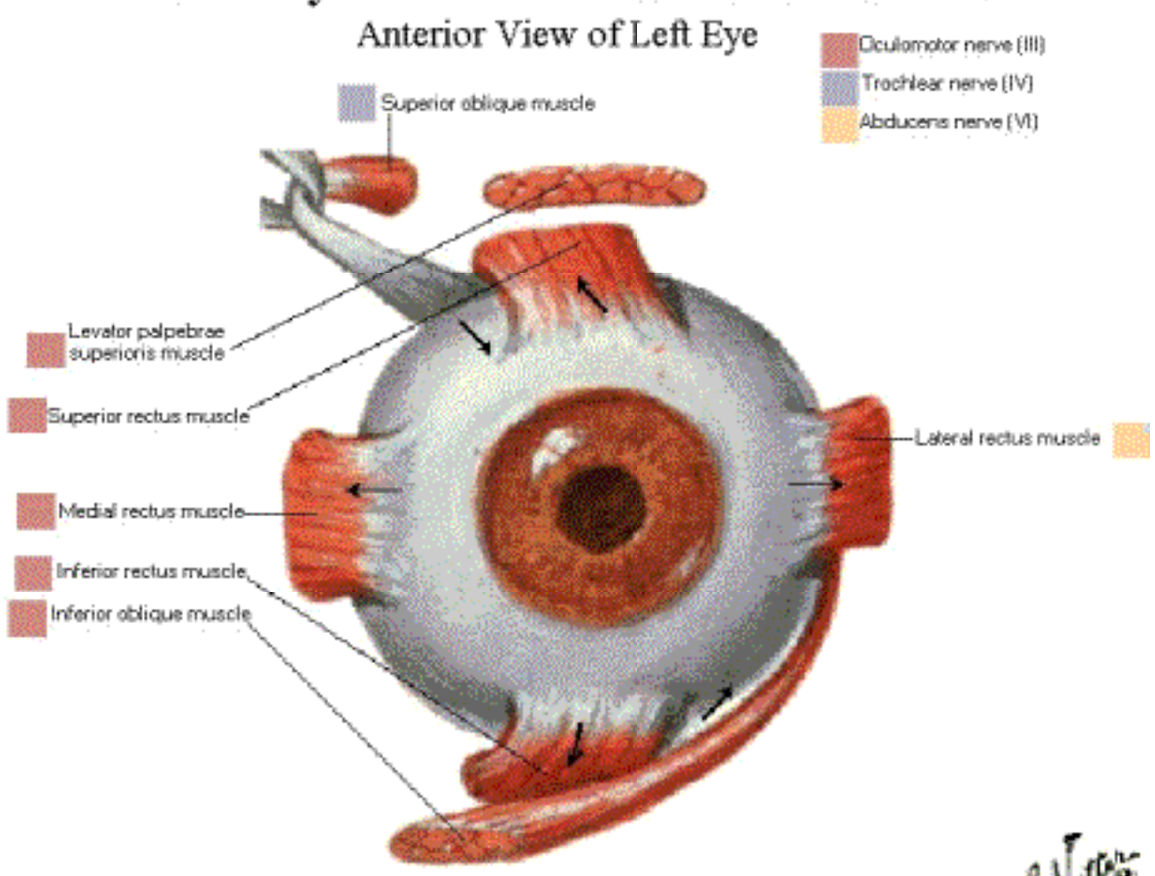


Extrinsic Eye Muscles

Superior View



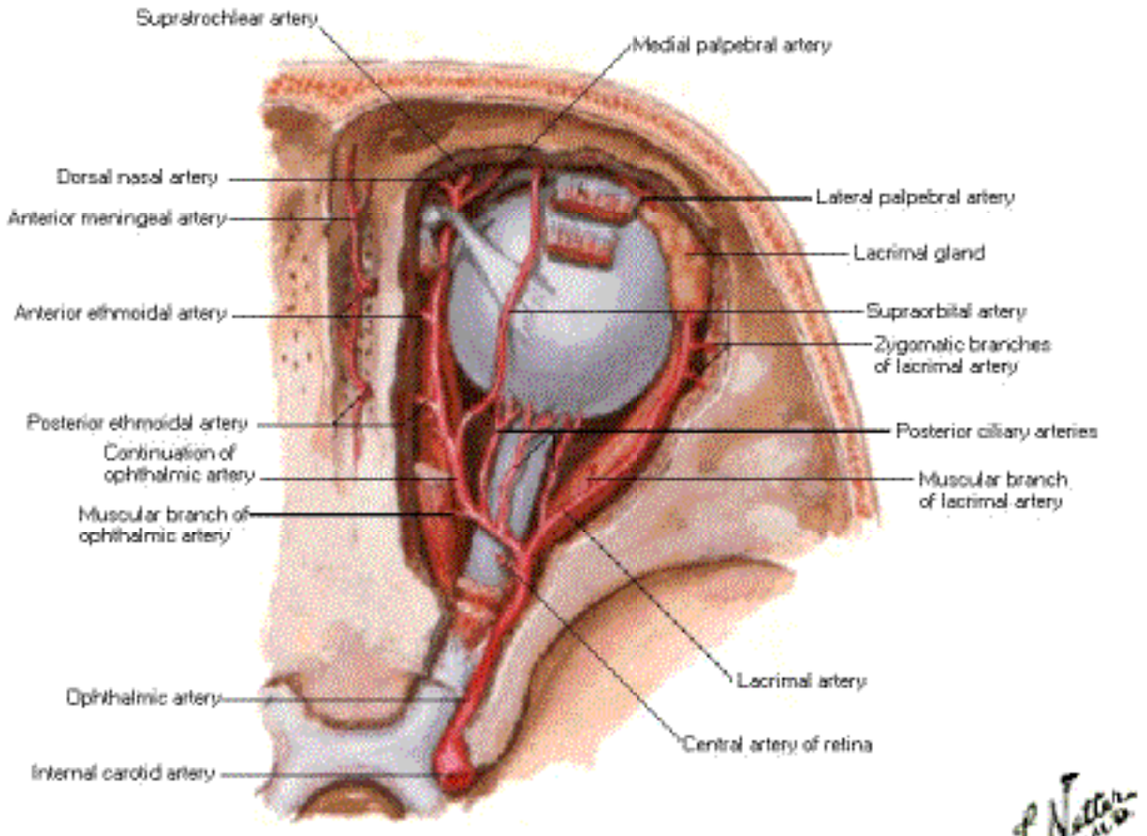
Extrinsic Eye Muscles - Innervation and Action



Note: arrows indicate direction of eye movement produced by each muscle

Arteries and Veins of Orbit and Eyelids

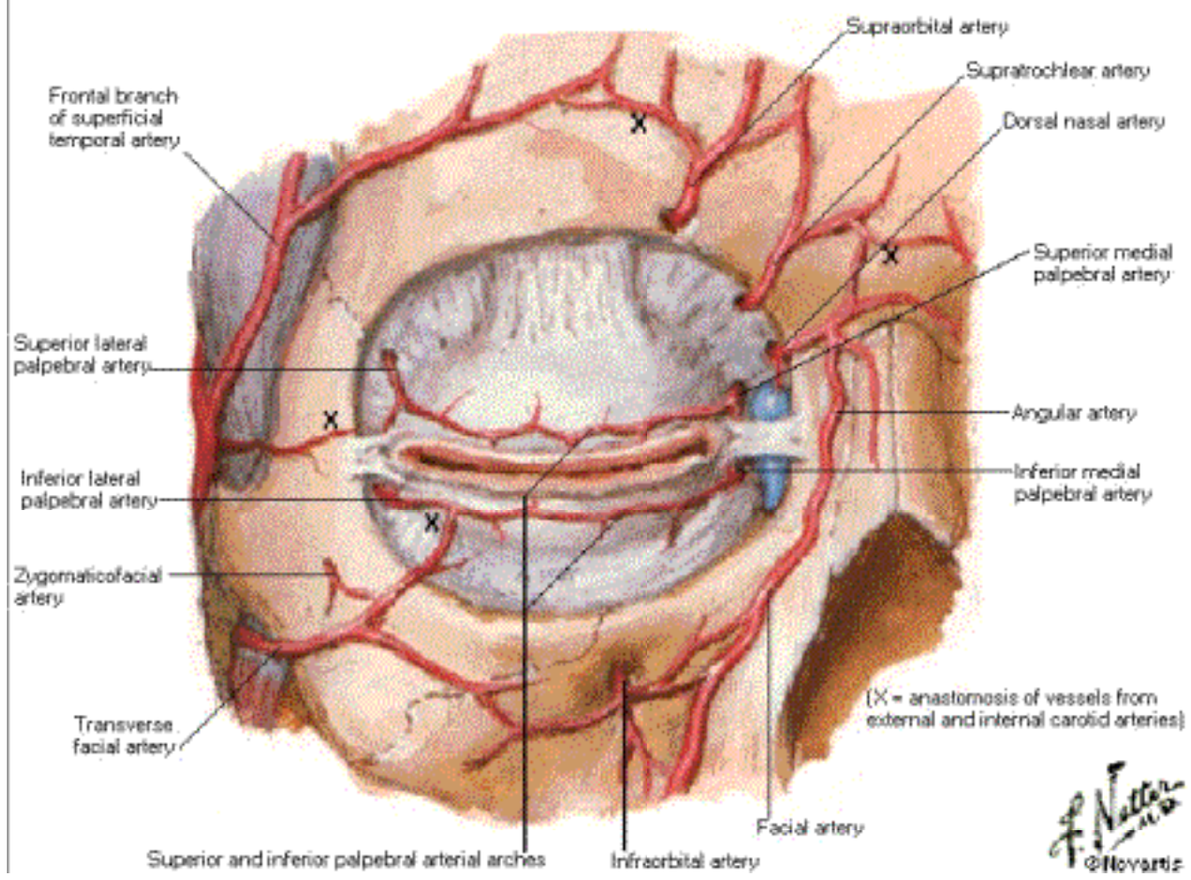
Superior View



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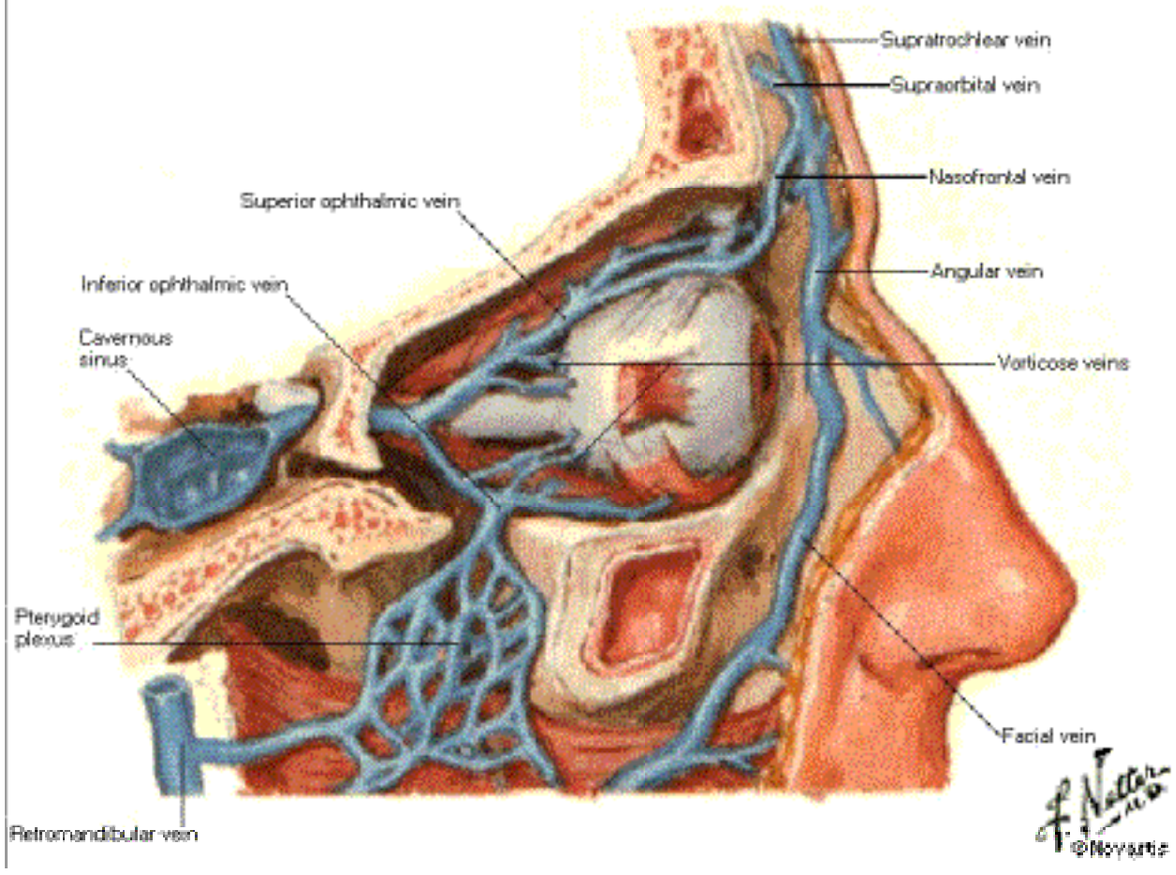
Arteries and Veins of Orbit and Eyelids

Anterior View



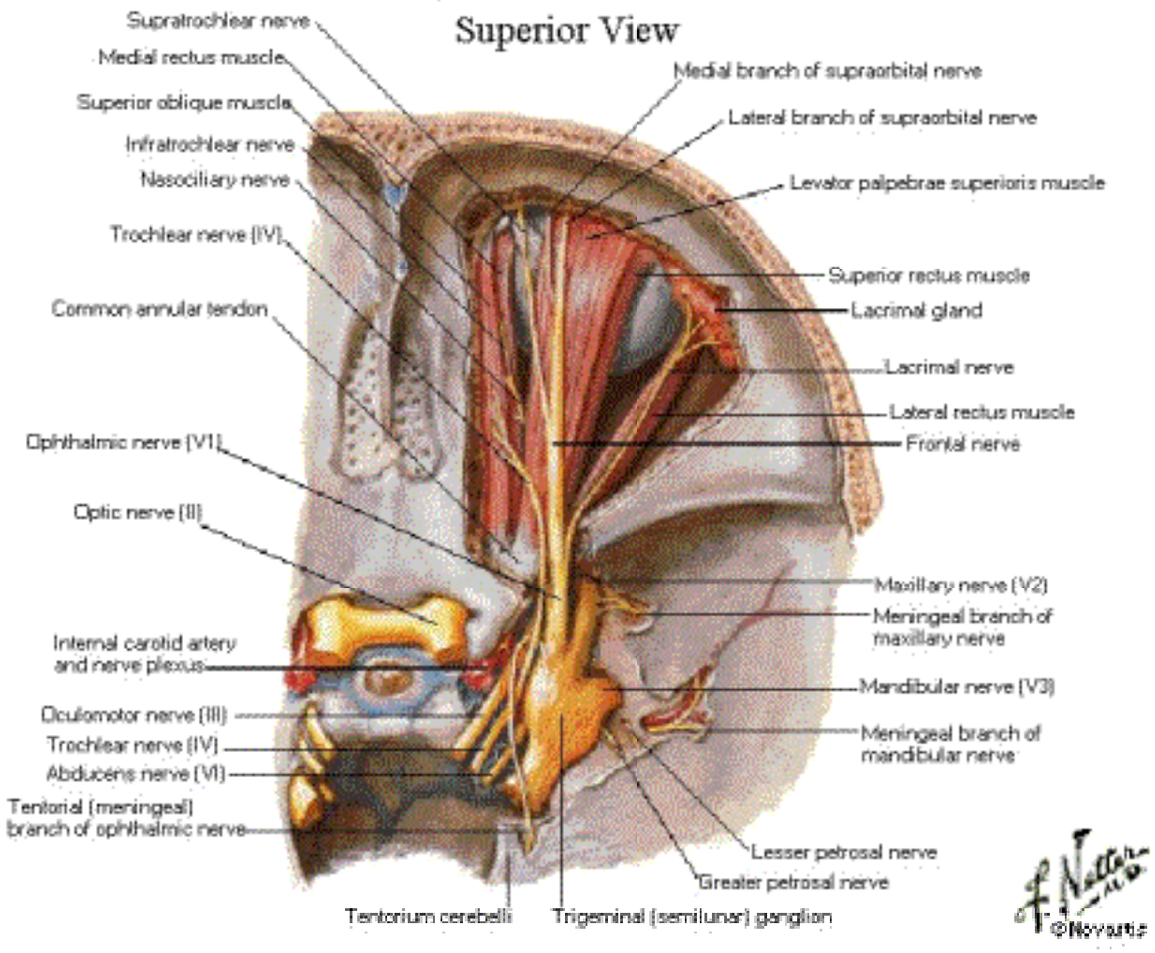
Arteries and Veins of Orbit and Eyelids

Lateral View



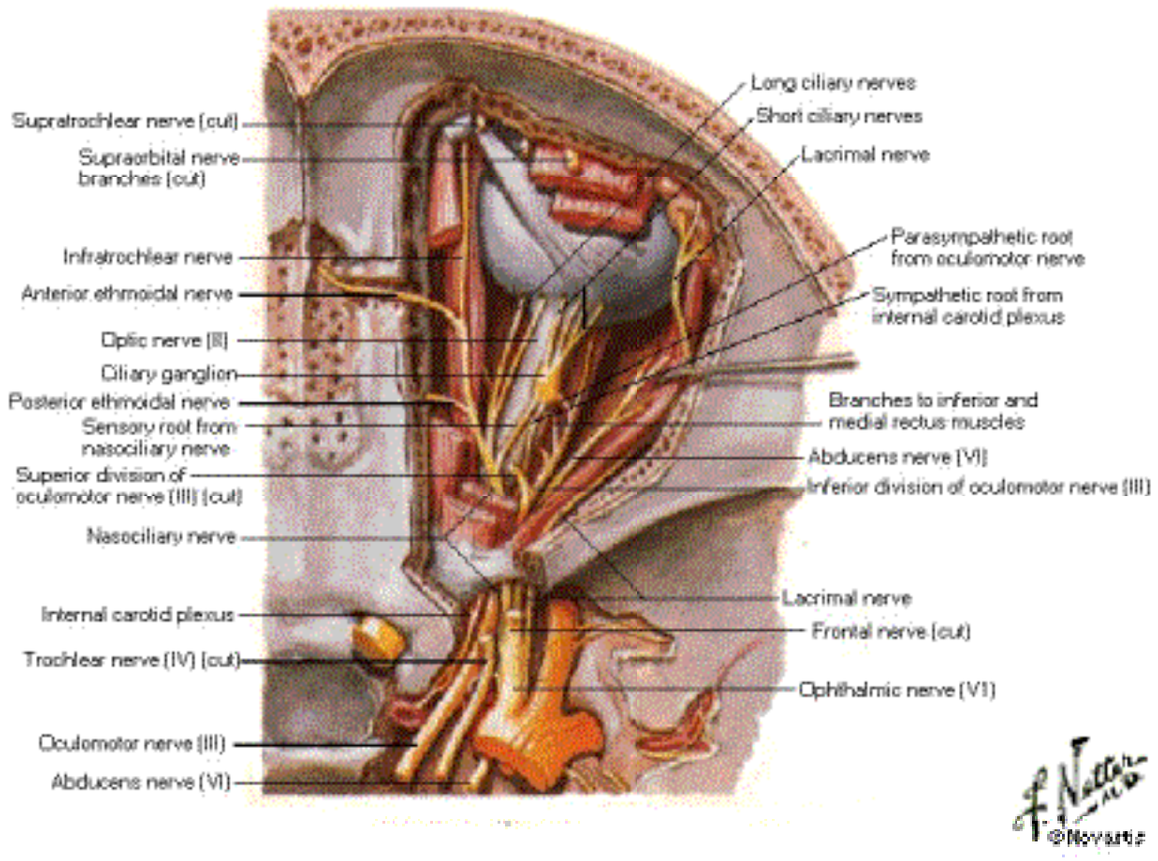
Nerves of Orbit

Superior View

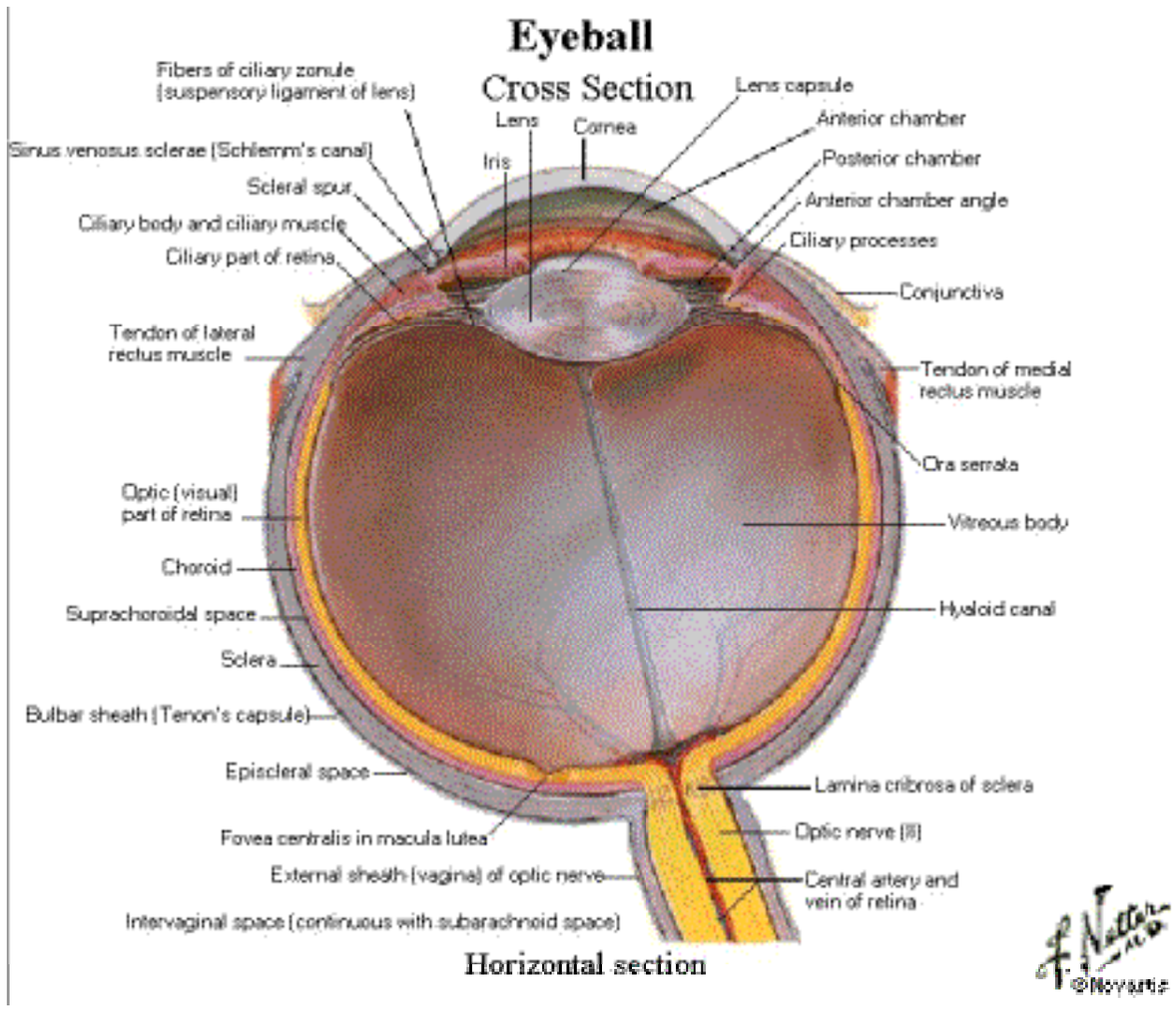


Nerves of Orbit - Muscles Partially Cut Away

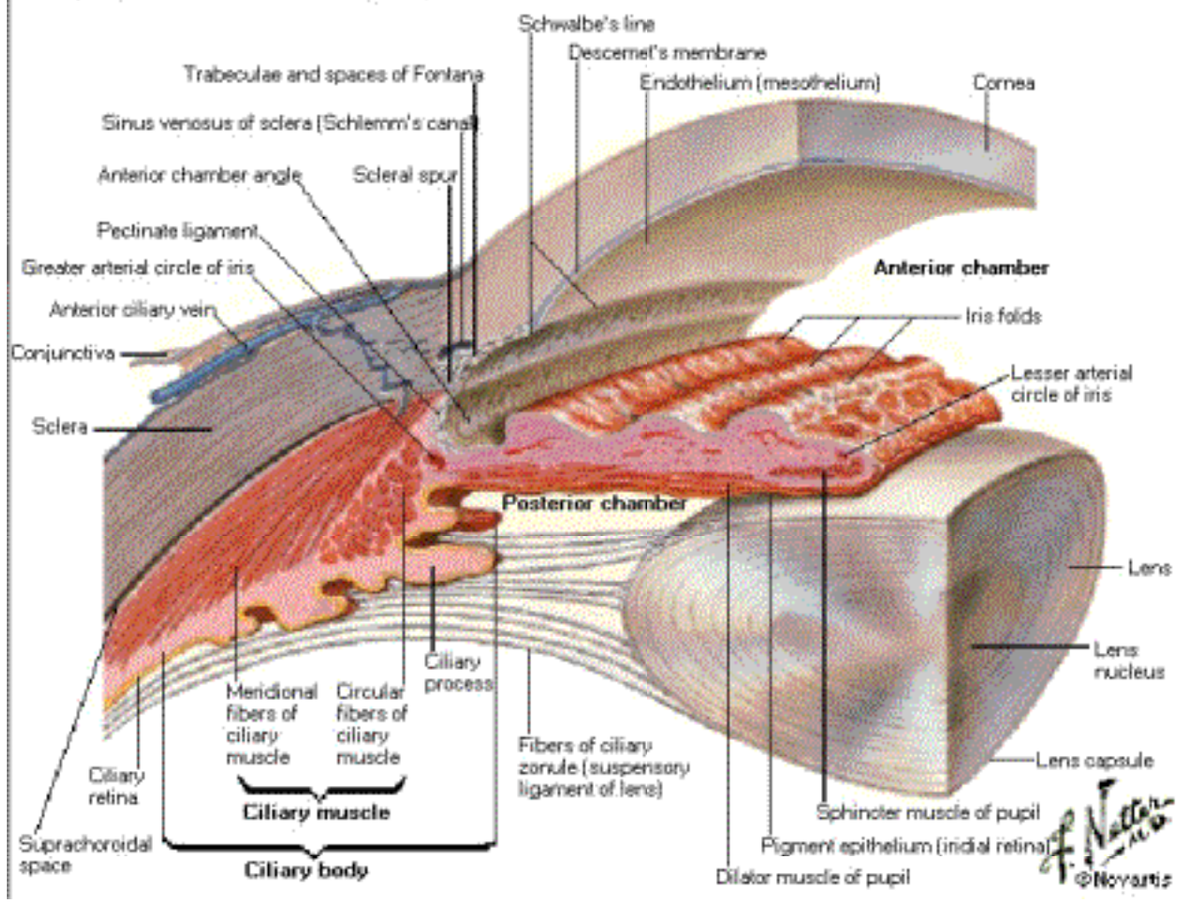
Superior View



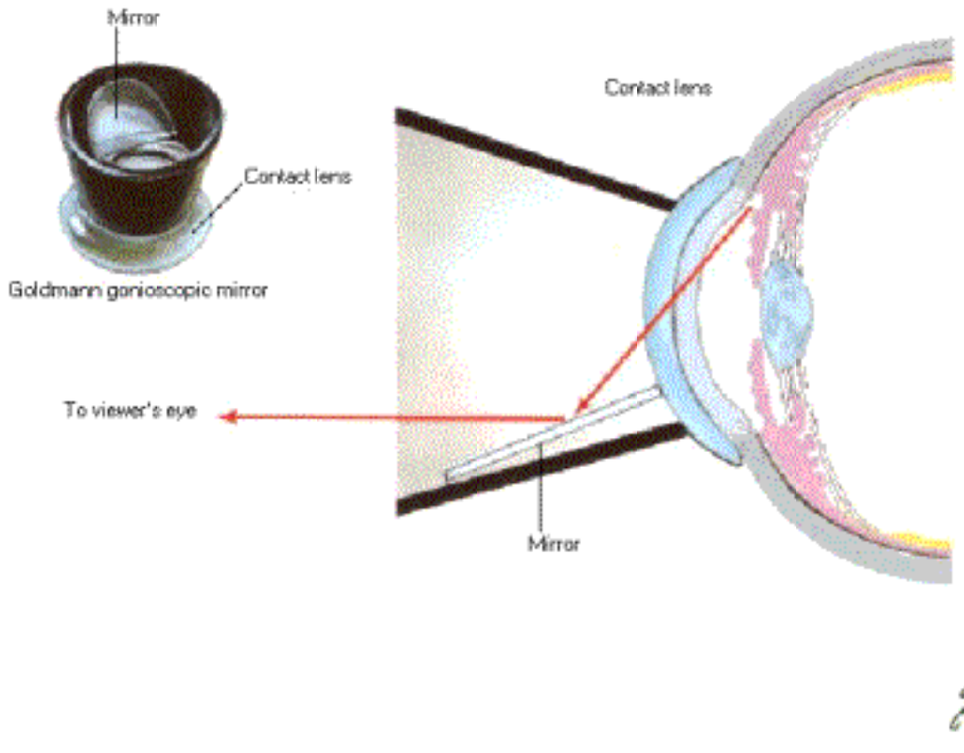
©Novartis


Eyeball
Cross Section
Fibers of ciliary zonule (suspensory ligament of lens)
Lens
Cornea
Lens capsule
Anterior chamber
Sinus venosus sclerae (Schlemm's canal)
Iris
Posterior chamber
Scleral spur
Anterior chamber angle
Ciliary body and ciliary muscle
Ciliary processes
Ciliary part of retina
Conjunctiva
Tendon of lateral rectus muscle
Tendon of medial rectus muscle
Ora serrata
Optic (visual) part of retina
Vitreous body
Choroid
Hyaloid canal
Suprachoroidal space
Sclera
Bulbar sheath (Tenon's capsule)
Episcleral space
Lamina cribrosa of sclera
Fovea centralis in macula lutea
Optic nerve (II)
External sheath (vagina) of optic nerve
Central artery and vein of retina
Intervaginal space (continuous with subarachnoid space)
Horizontal section
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Anterior and Posterior Chambers of Eye

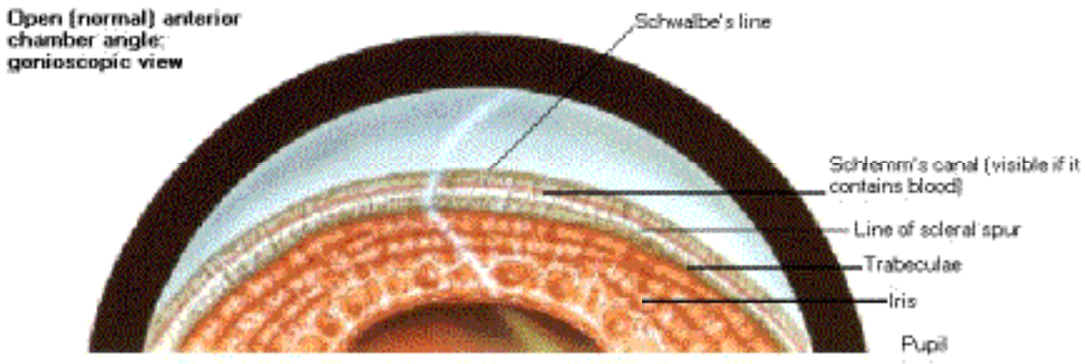


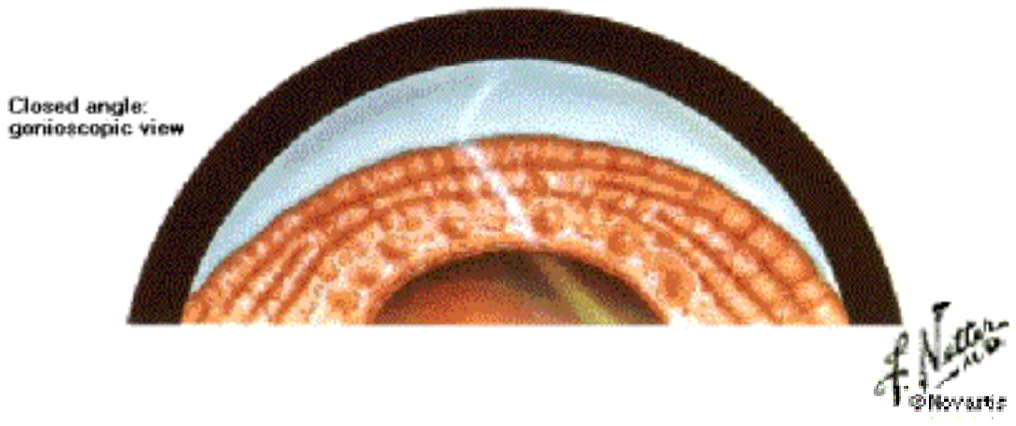
Anterior Chamber Angle of Eye



Anterior Chamber Angle of Eye

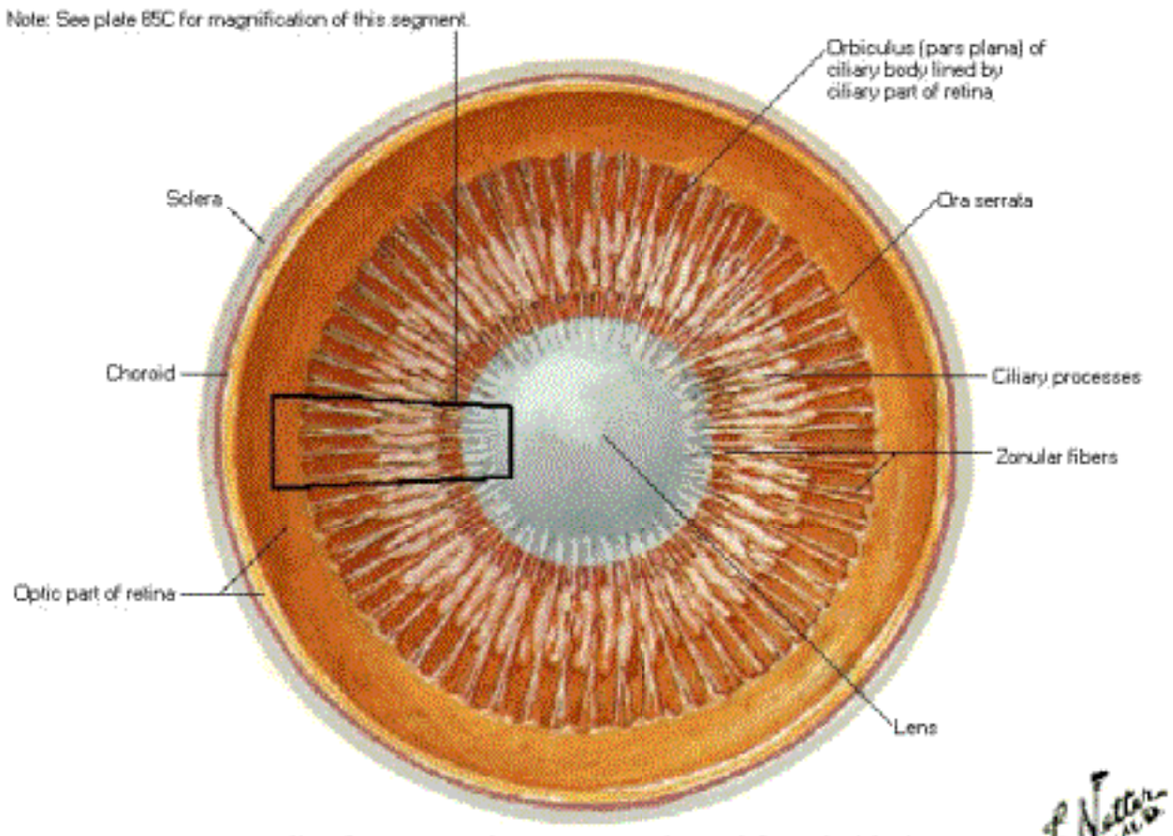
Gonioscopic Views





Lens and Supporting Structures

Section in Frontal Plane

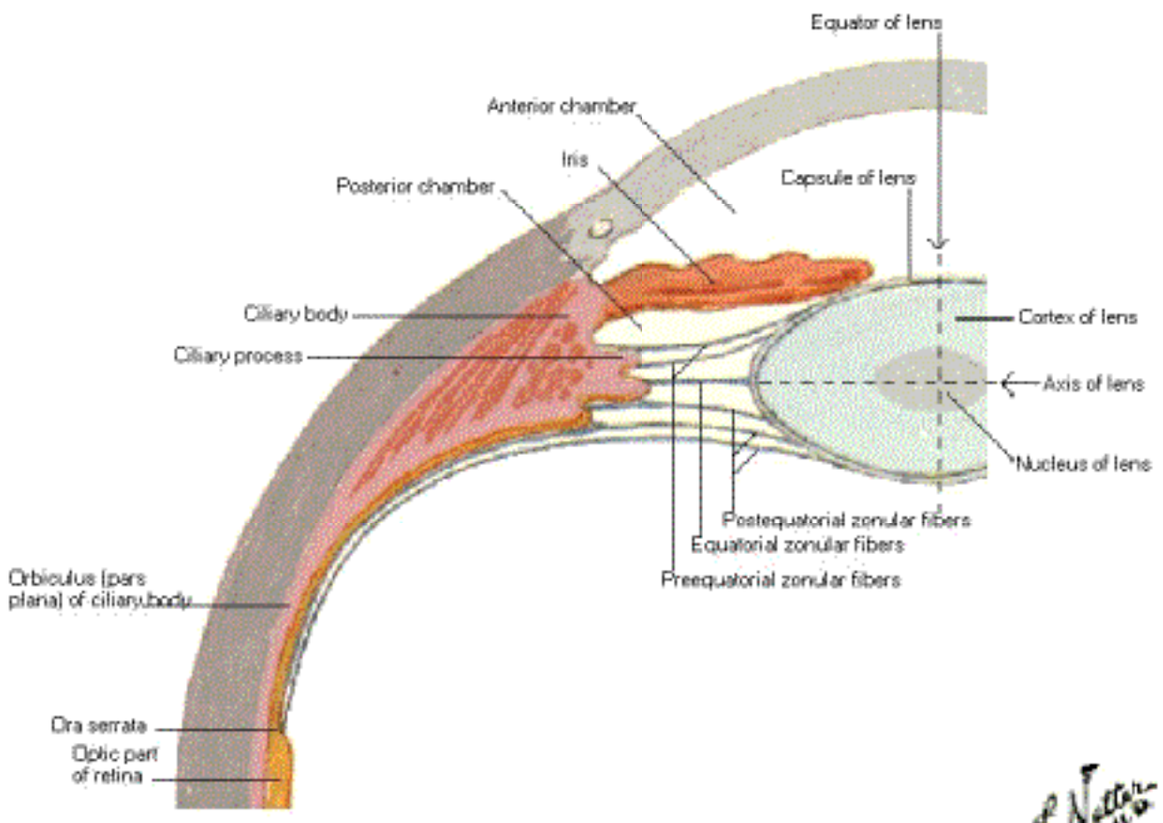


Bulb of eye: anterior segment viewed from behind

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Lens and Supporting Structures

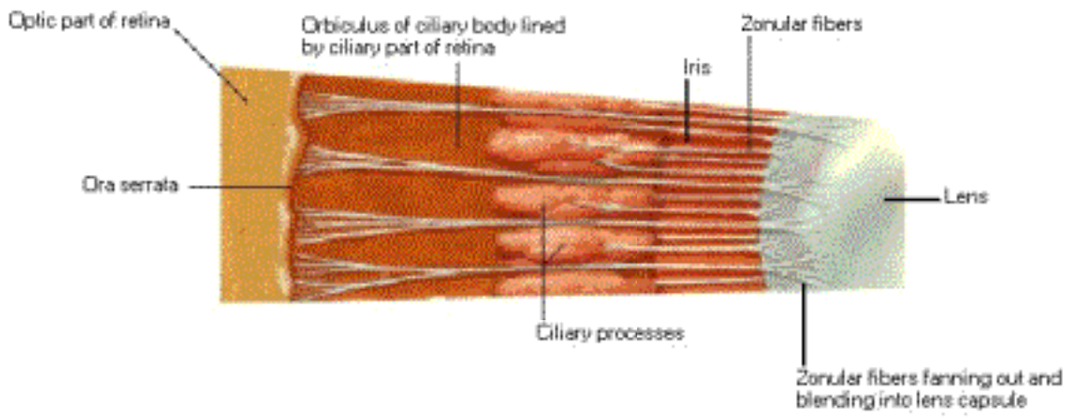
Horizontal Section



©Netter

Lens and Supporting Structures

Segment Outlined in Plate 85A

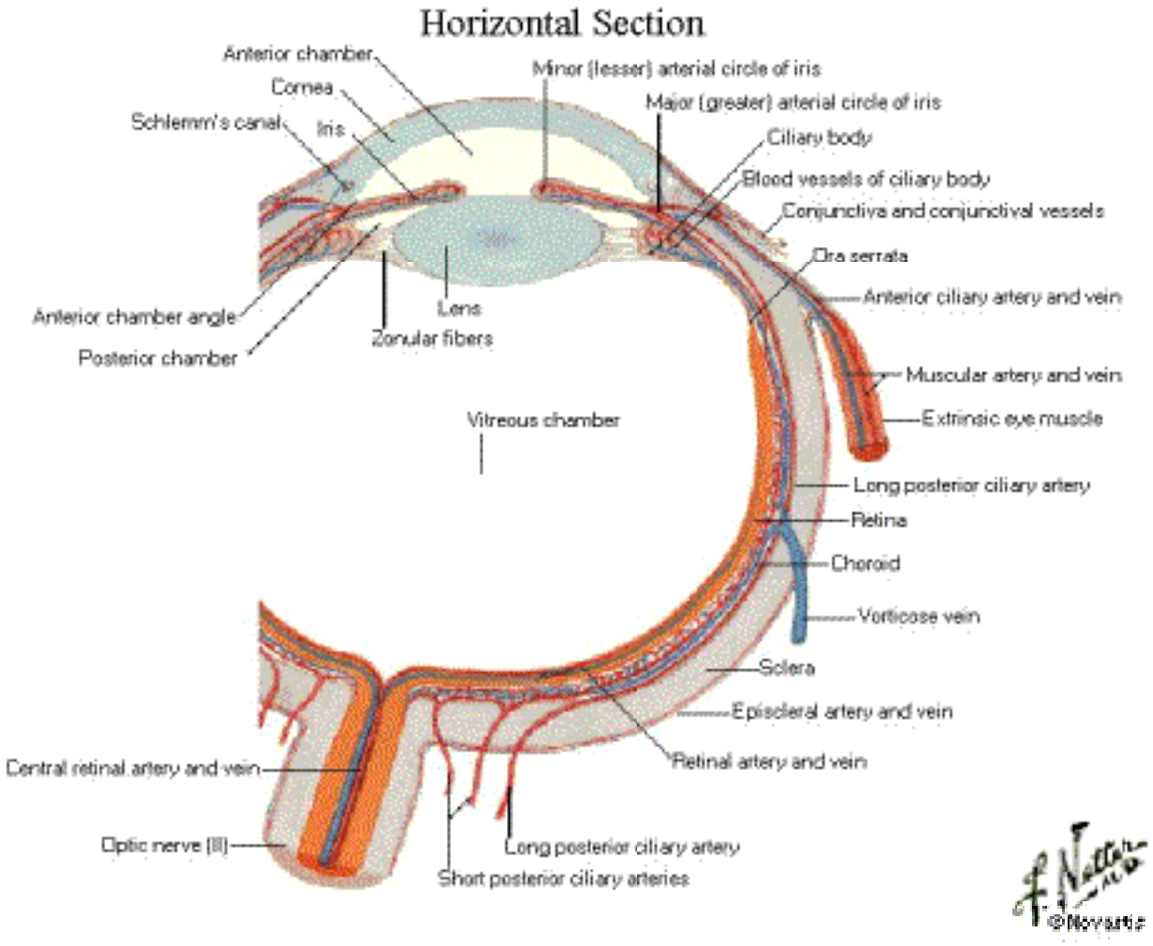


Magnified to ultramicroscopic scale (semischematic)

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Intrinsic Arteries and Veins of Eye

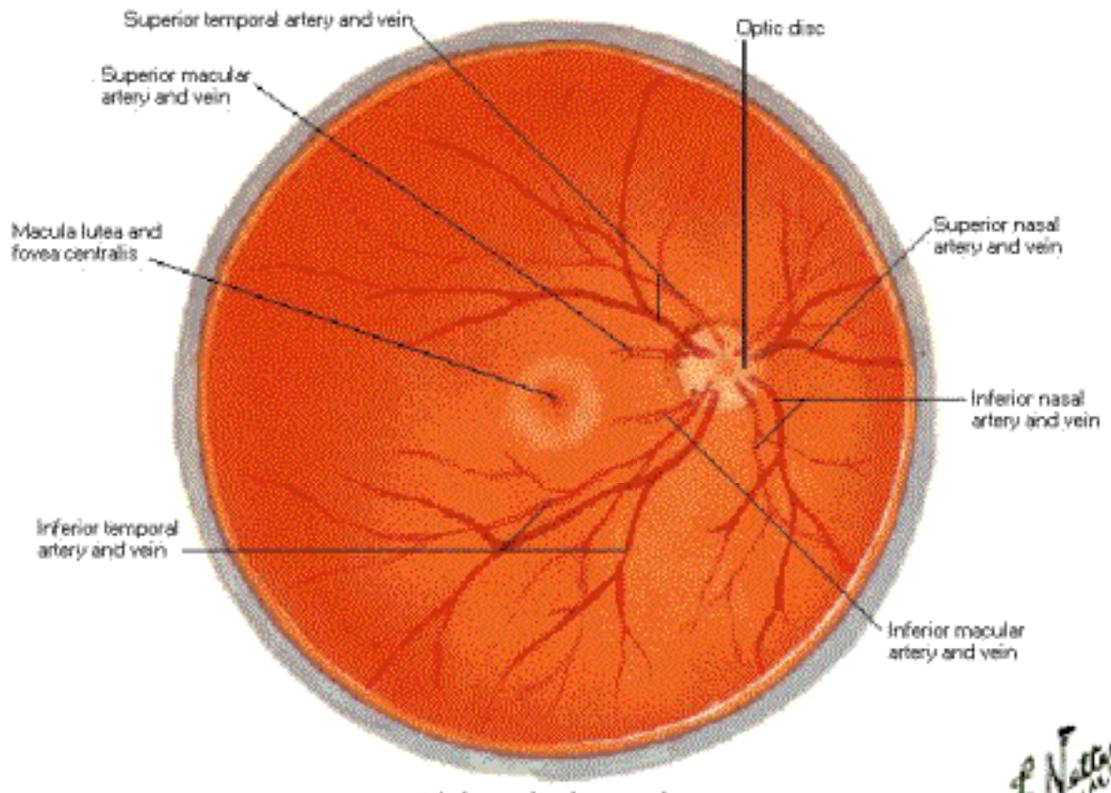
Horizontal Section



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Intrinsic Arteries and Veins of Eye

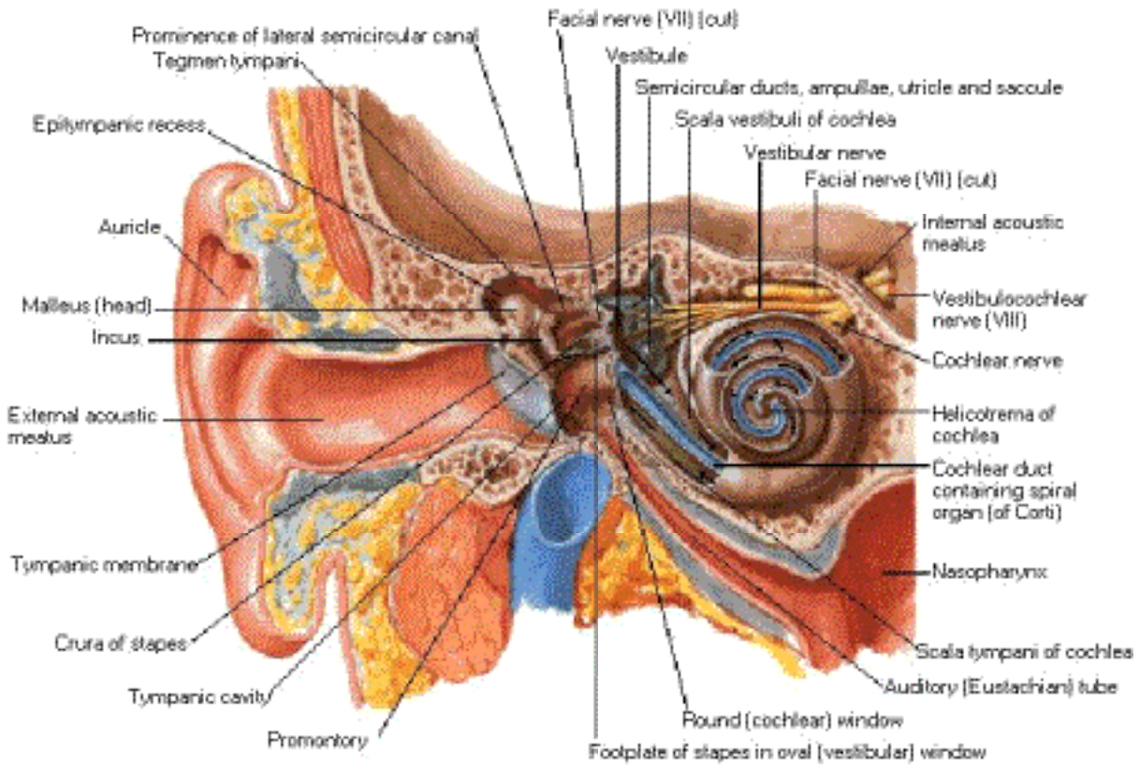
Ophthalmoscopic View



Right retinal vessels

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Pathway of Sound Reception



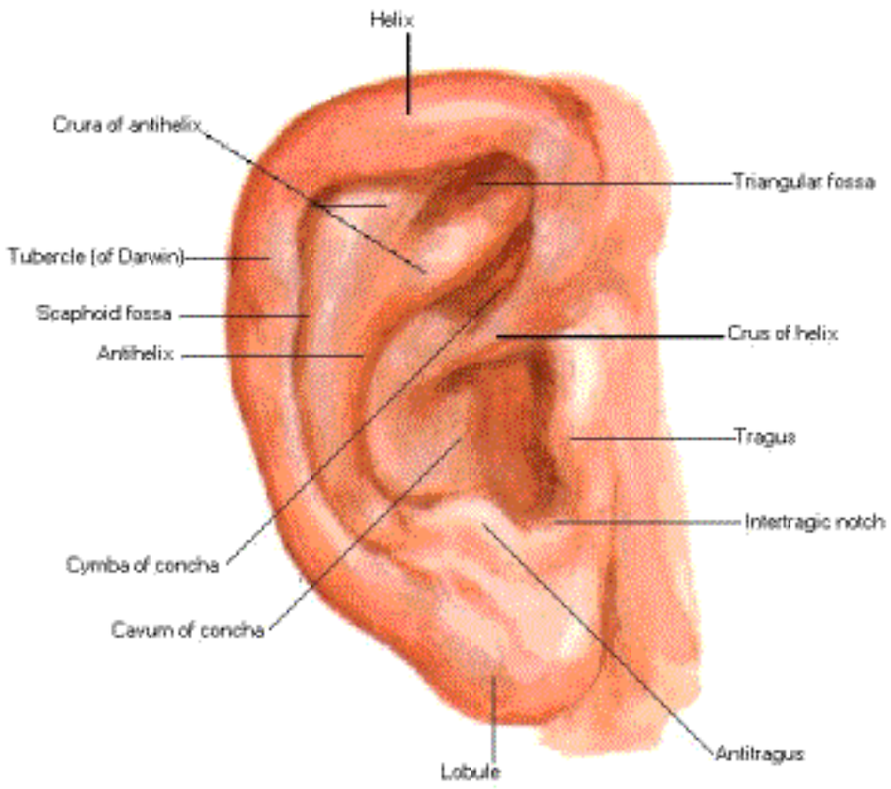
Note: arrows indicate course of sound waves

Schematic frontal section

©Netter

External Ear

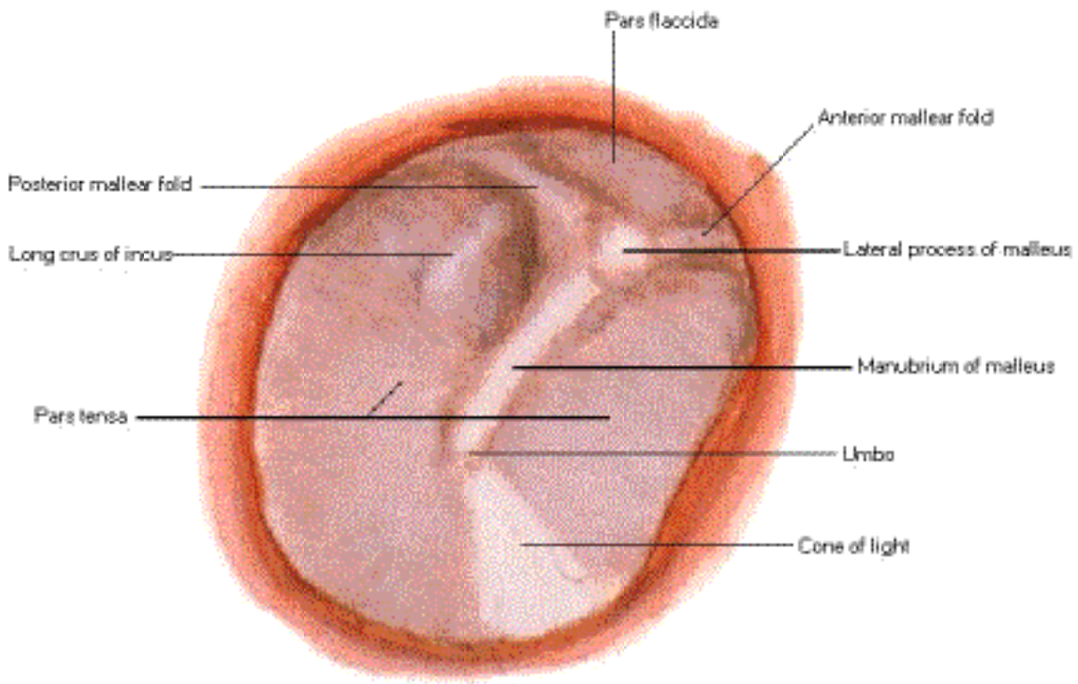
Right Auricle





External Ear

Right Tympanic Membrane

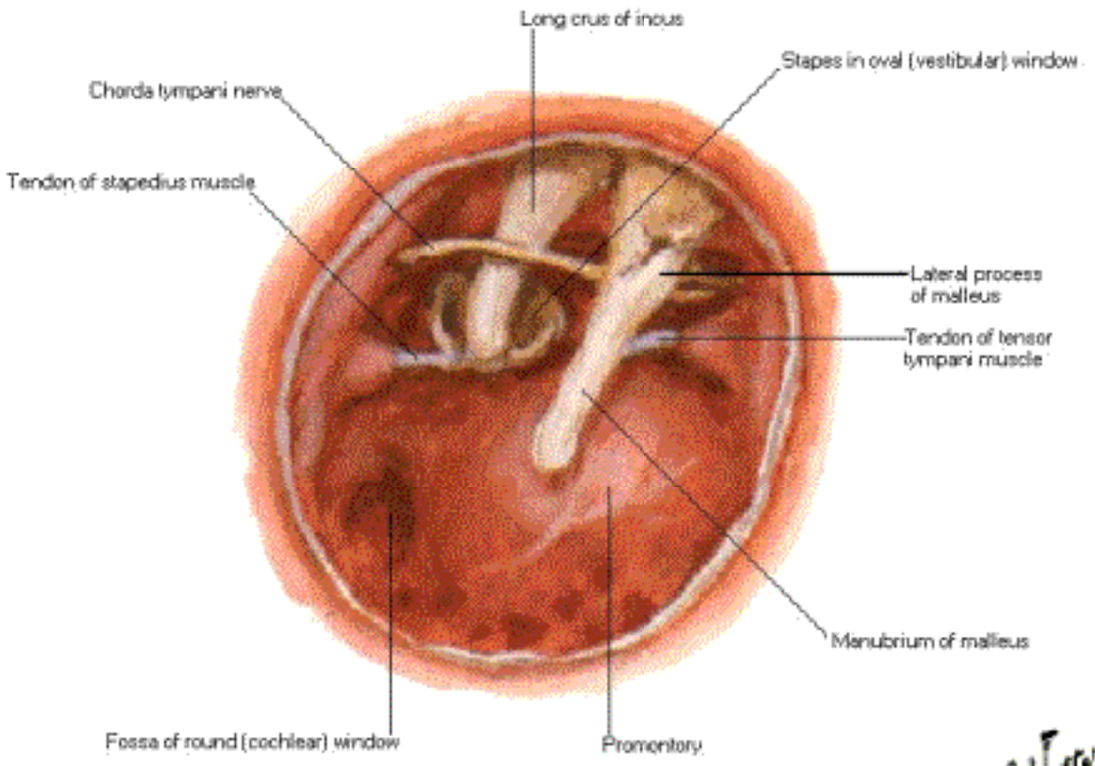


Viewed through speculum

©Novartis

Tympanic Cavity

Viewed from External Acoustic Meatus

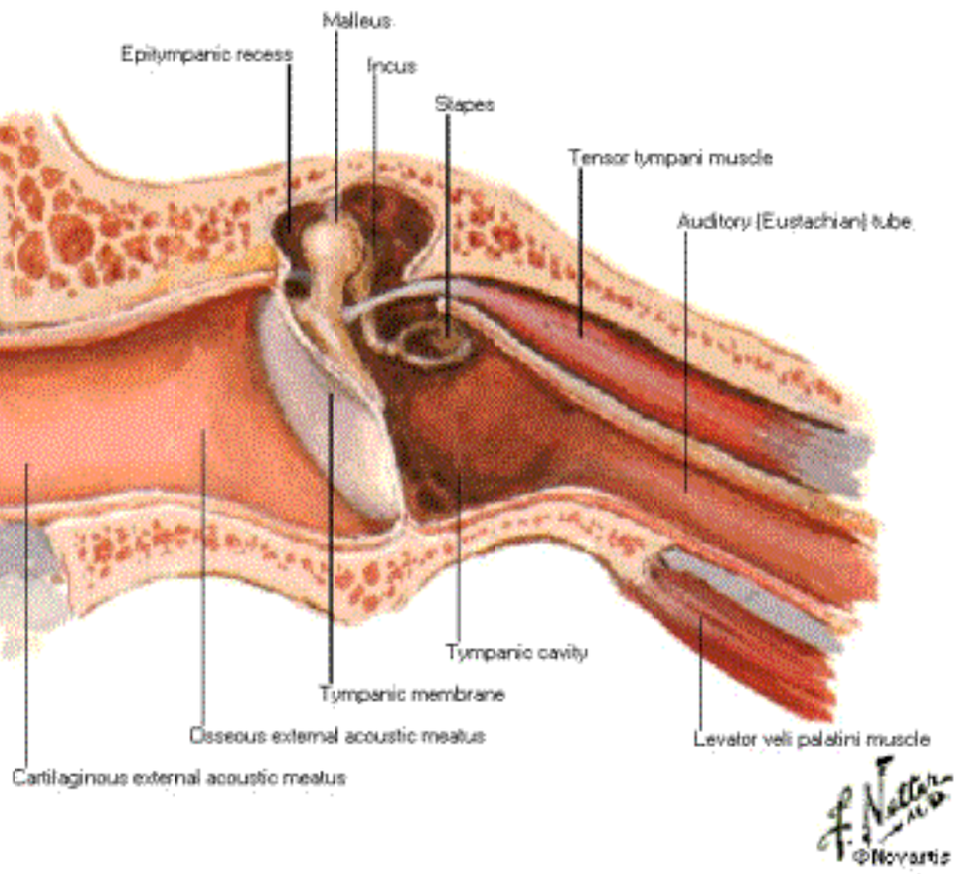


Tympanic Membrane Removed

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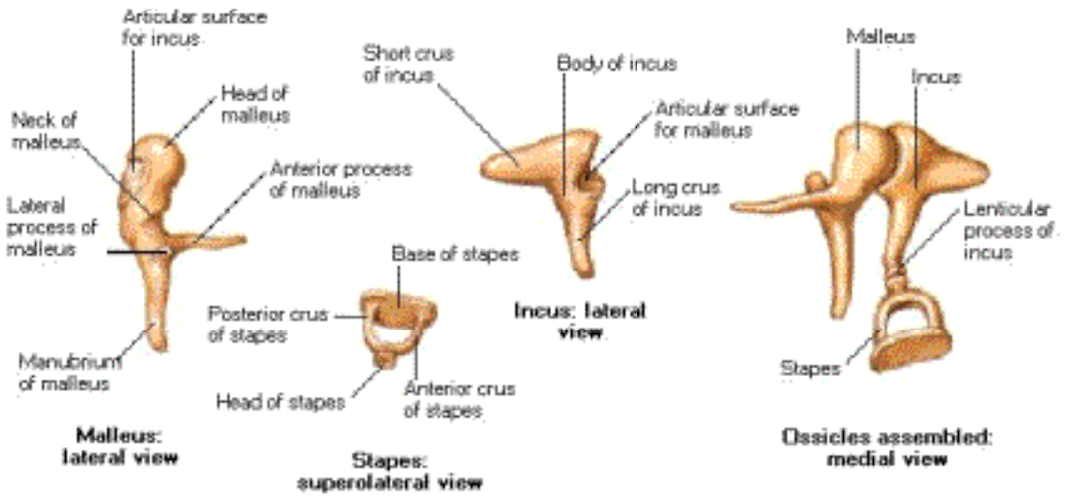
External Ear and Tympanic Cavity

Coronal Oblique Section



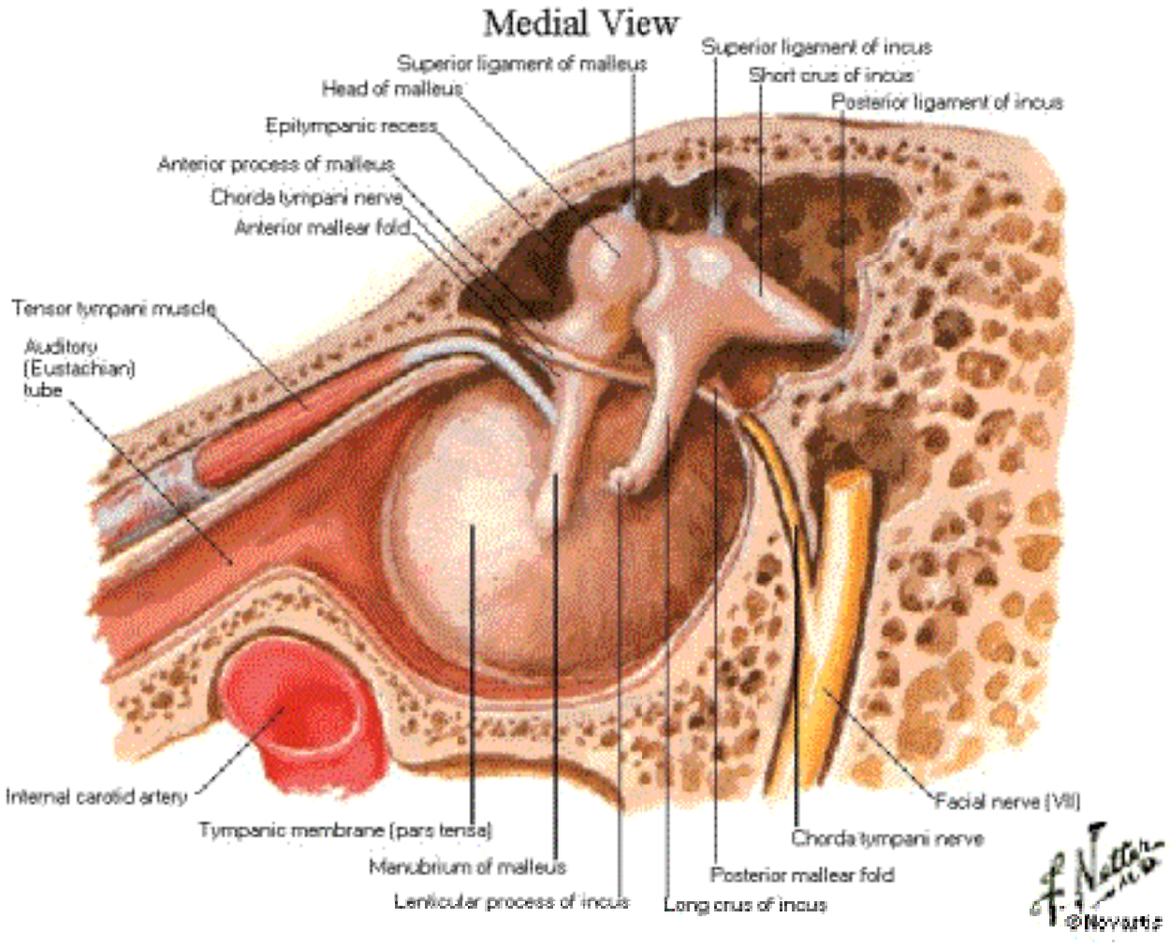
Tympanic Cavity

Auditory Ossicles



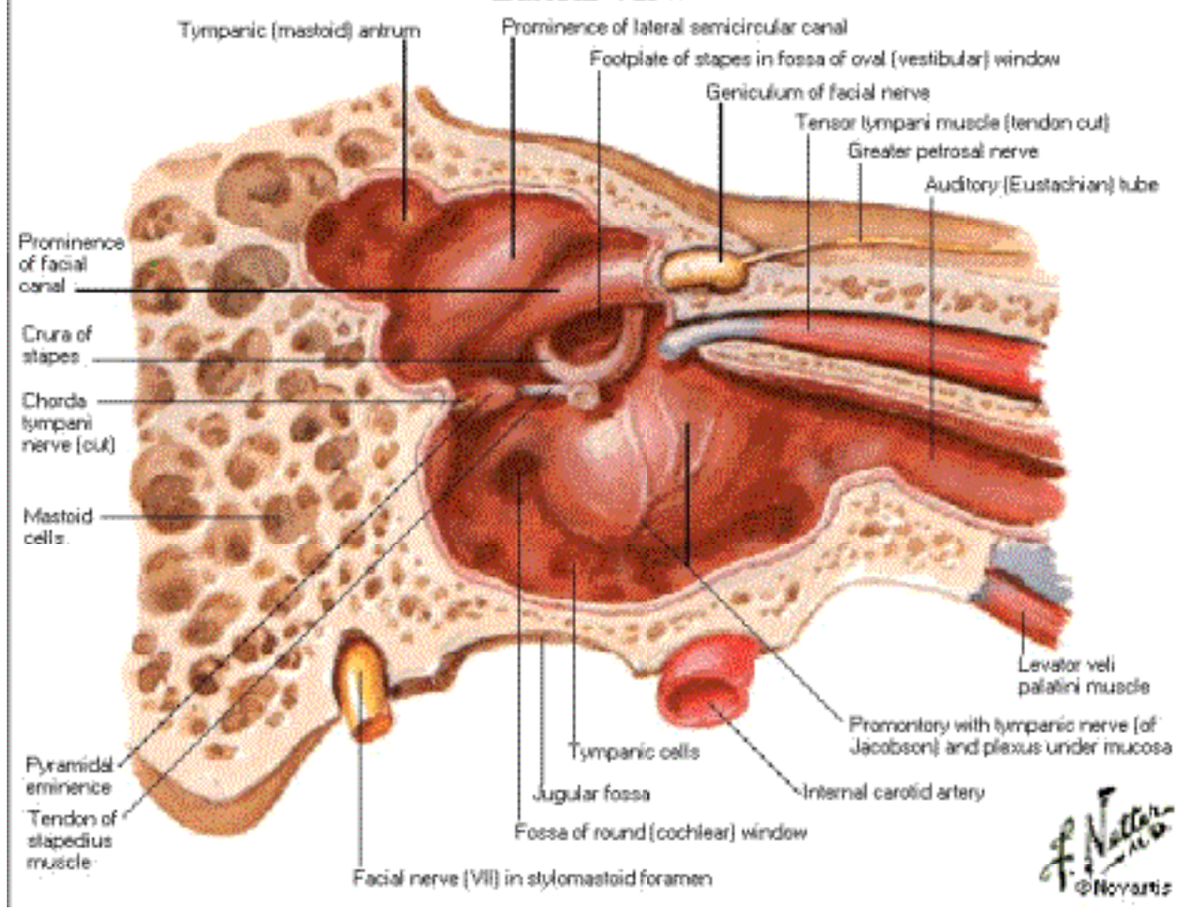
Tympanic Cavity - Lateral Wall

Medial View



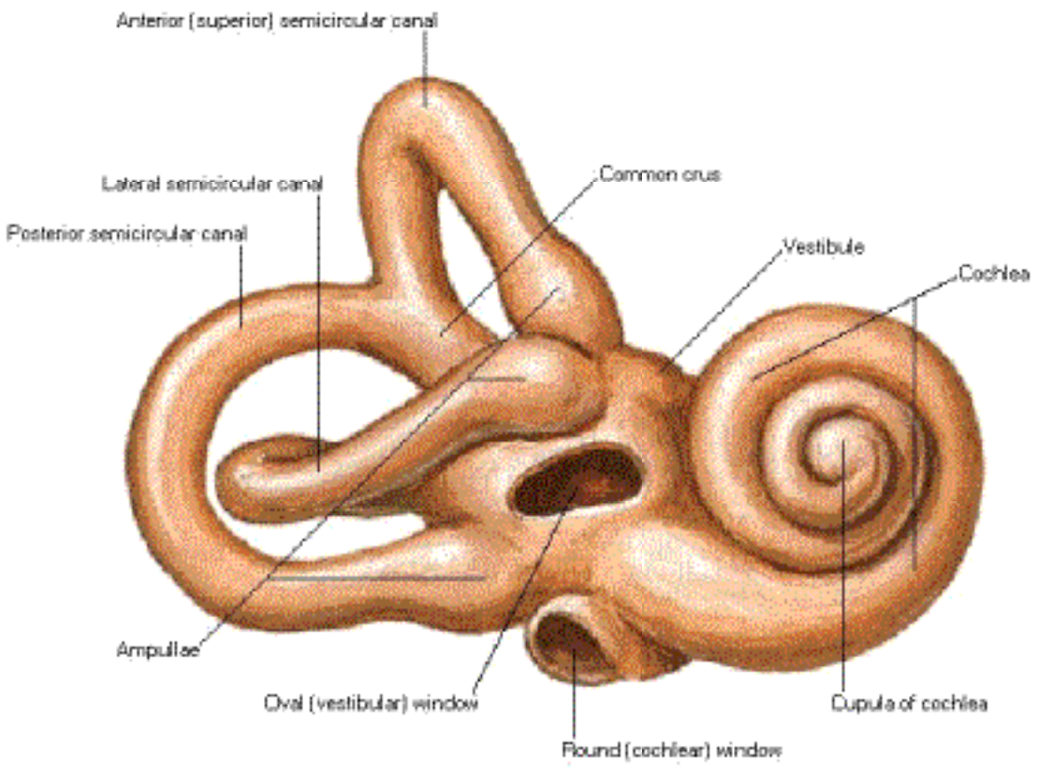
Tympanic Cavity - Medial Wall

Lateral View



Right Osseous Labyrinth

Anterolateral View

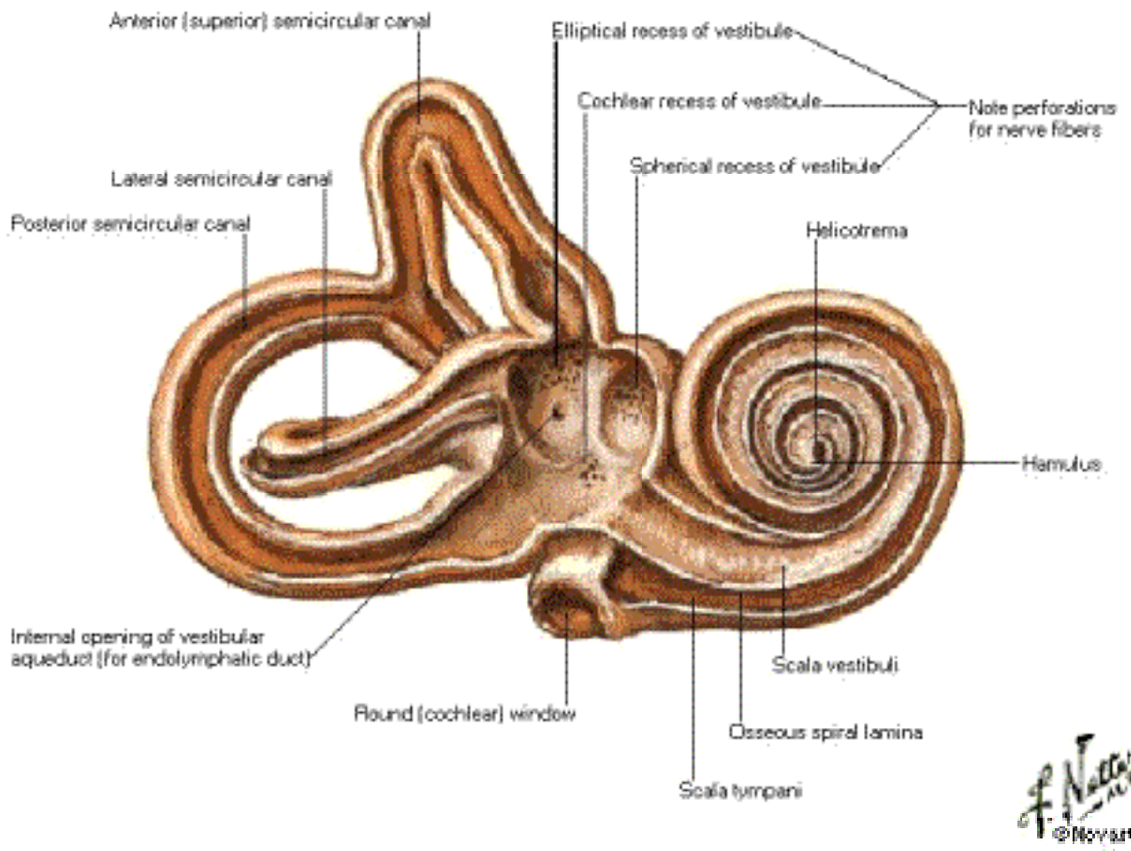


Surrounding cancellous bone removed

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Right Osseous Labyrinth - Dissected

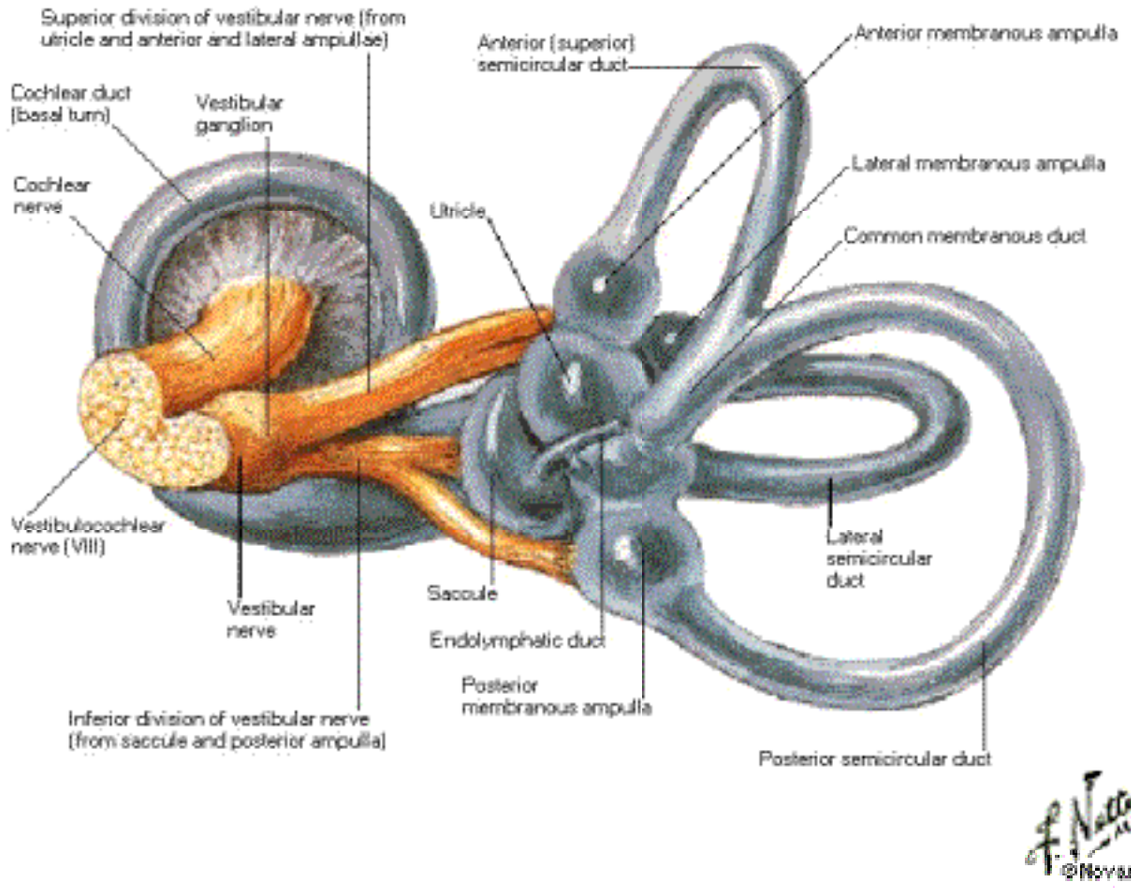
Membranous Labyrinth Removed

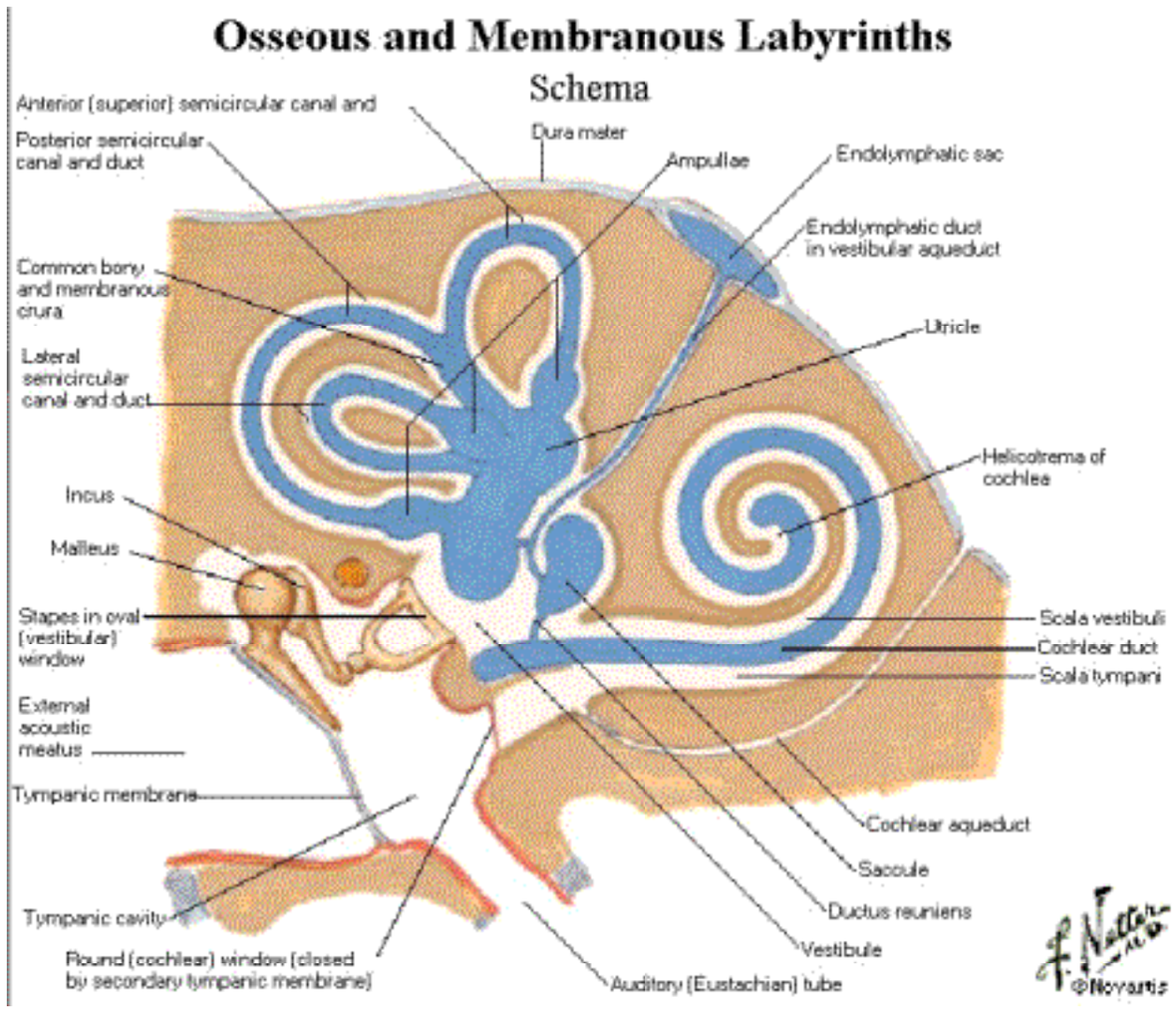


©Nevsun

Right Membranous Labyrinth with Nerves

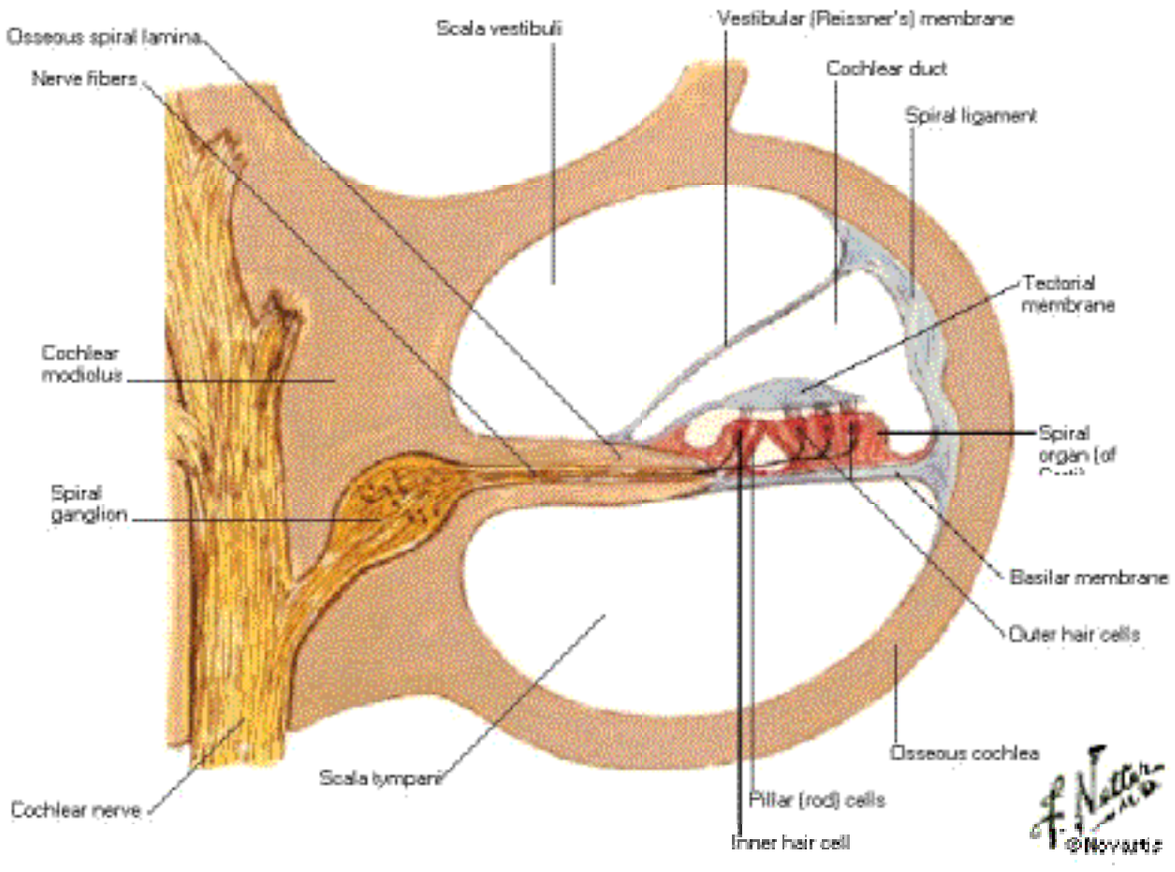
Posteromedial View




Osseous and Membranous Labyrinths
Schema
Anterior (superior) semicircular canal and
Posterior semicircular canal and duct
Dura mater
Ampullae
Endolymphatic sac
Endolymphatic duct in vestibular aqueduct
Common bony and membranous crura
Lateral semicircular canal and duct
Utricle
Helicotrema of cochlea
Incus
Malleus
Stapes in oval (vestibular) window
Scala vestibuli
Cochlear duct
Scala tympani
External acoustic meatus
Tympanic membrane
Cochlear aqueduct
Saccule
Ductus reuniens
Vestibule
Tympanic cavity
Round (cochlear) window (closed by secondary tympanic membrane)
Auditory (Eustachian) tube
©Novartis

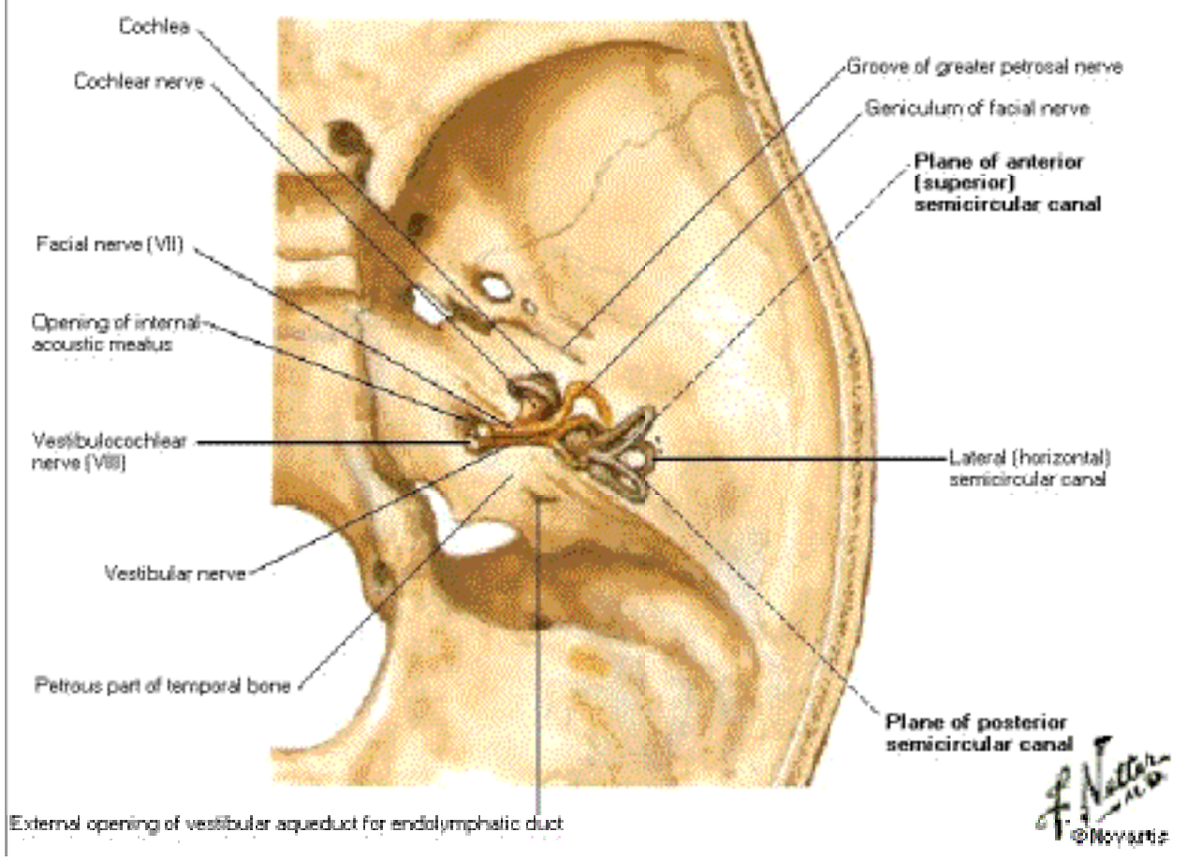
Osseous and Membranous Labyrinths

Section Through Turn of Cochlea



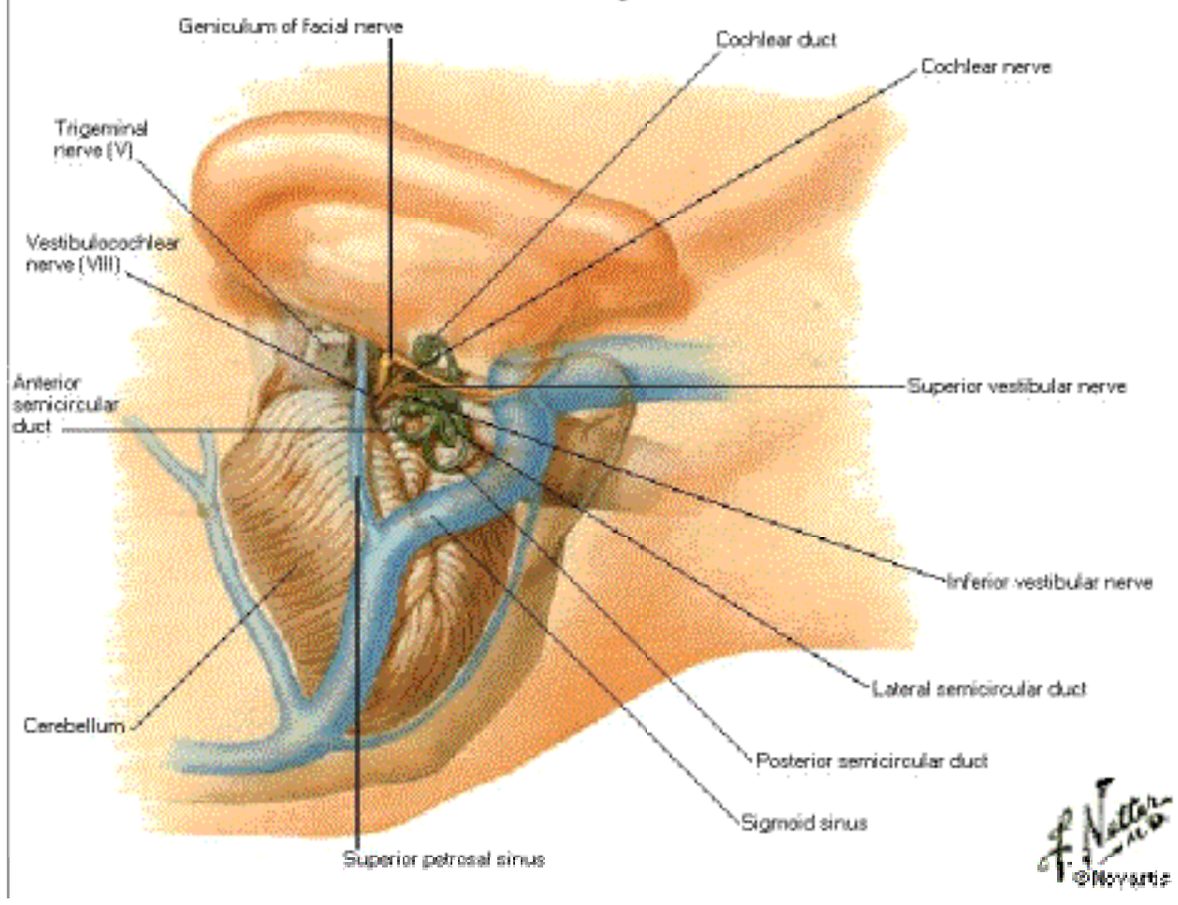
Orientation of Labyrinth in Skull

Superior Projection



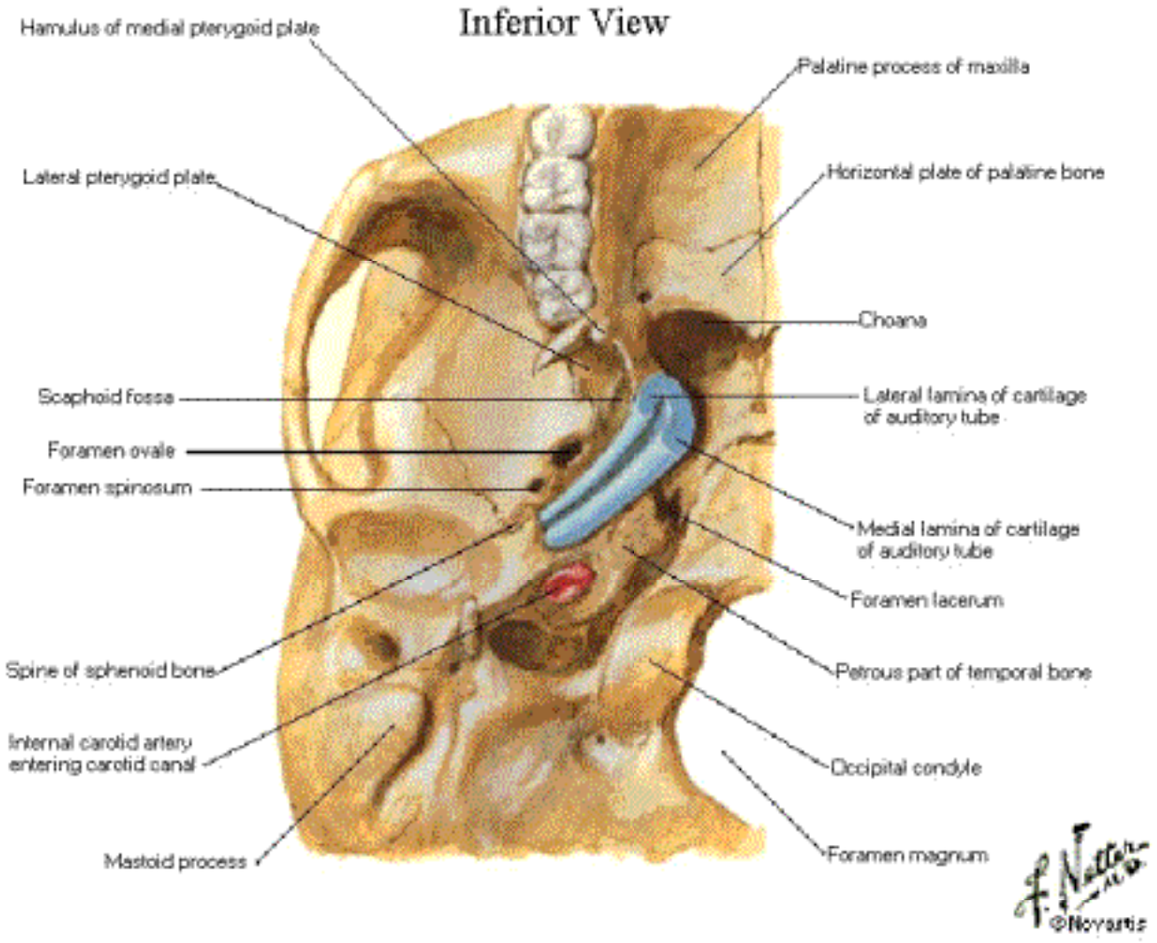
Orientation of Labyrinth in Skull

Lateral Projection



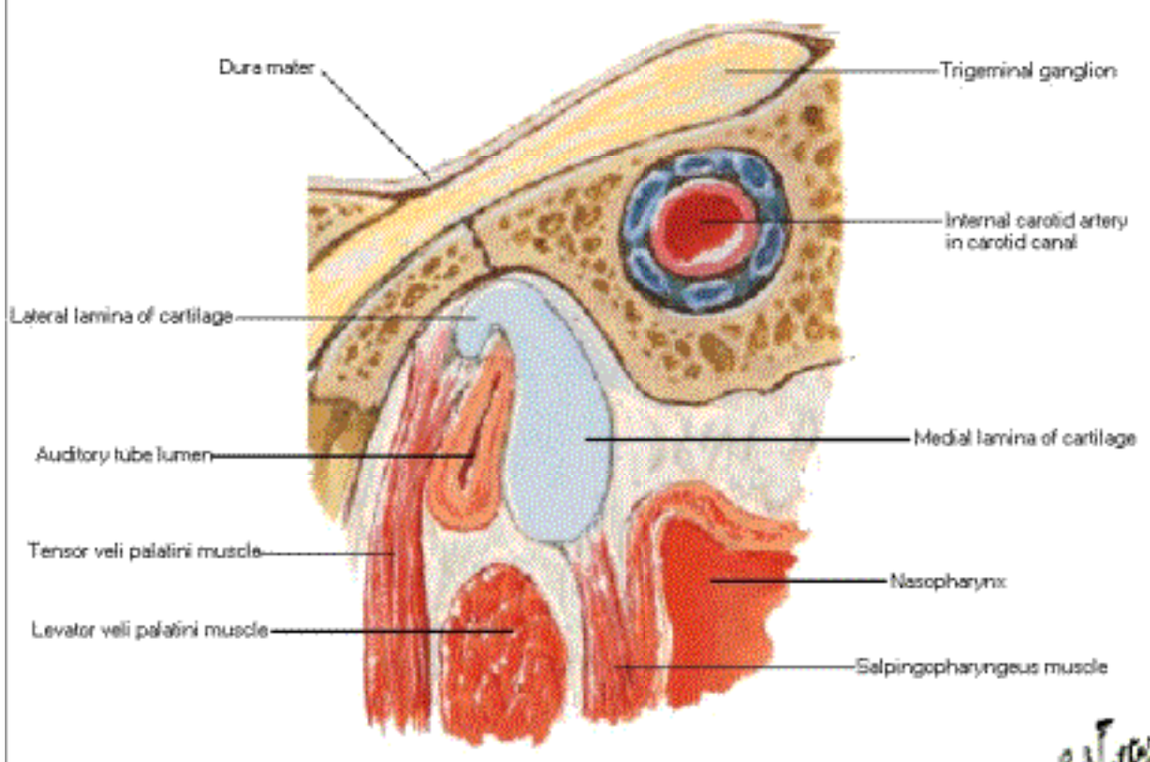
Cartilage of Auditory Tube at Base of Skull

Inferior View



Auditory Tube - Section through Cartilage

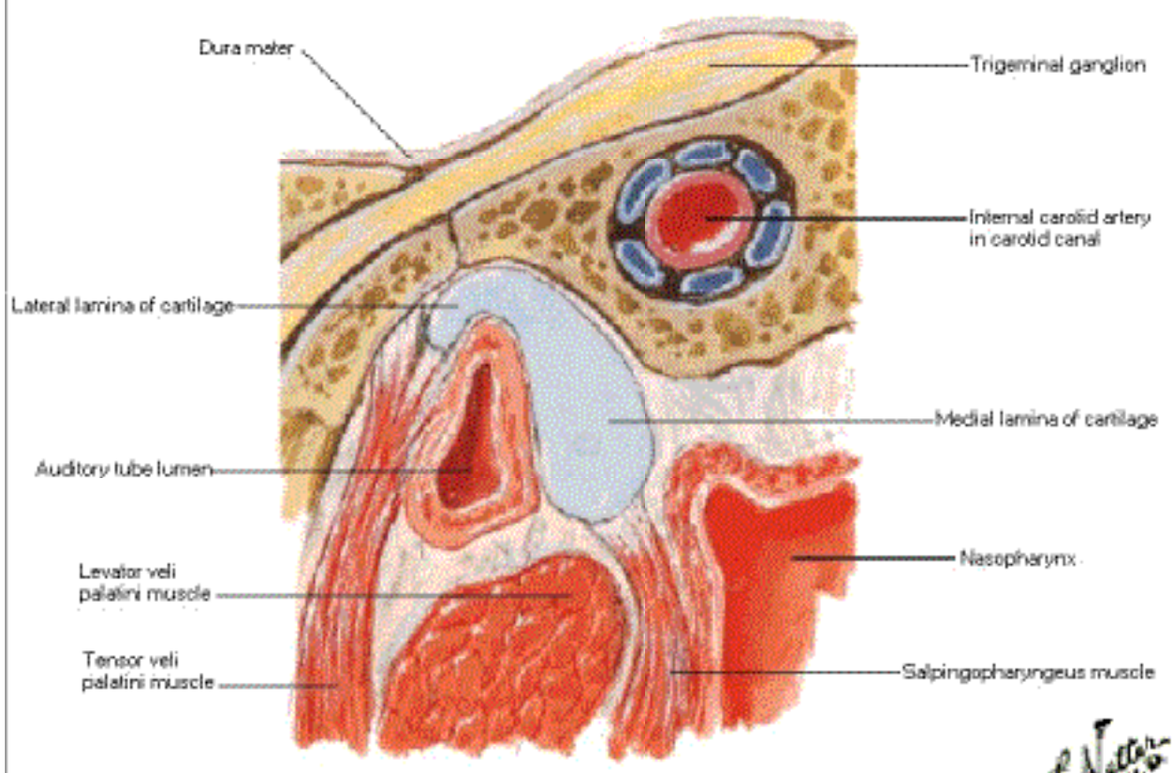
Tube Closed



Auditory tube closed by elastic recoil of cartilage, tissue turgidity and tension of salpingopharyngeus muscles

Auditory Tube - Section through Cartilage

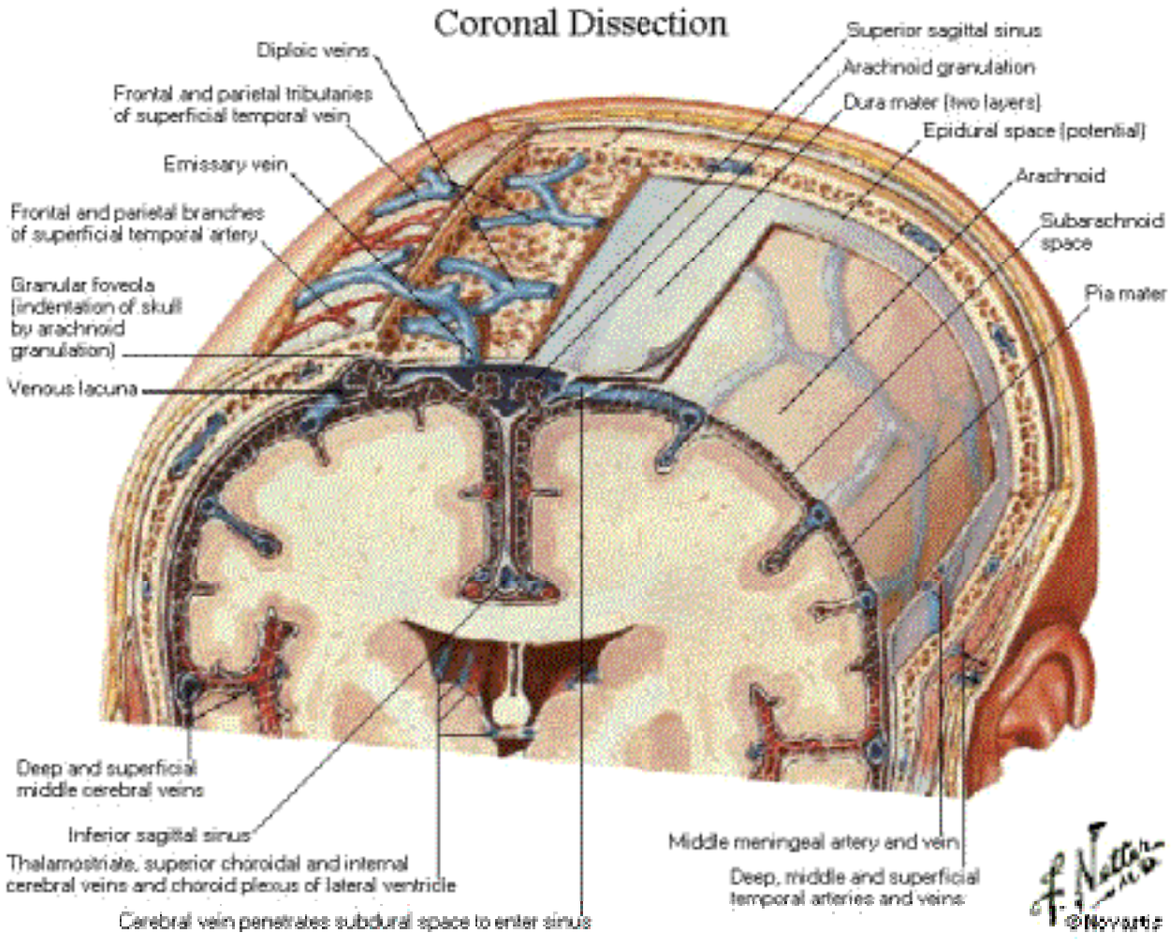
Tube Open



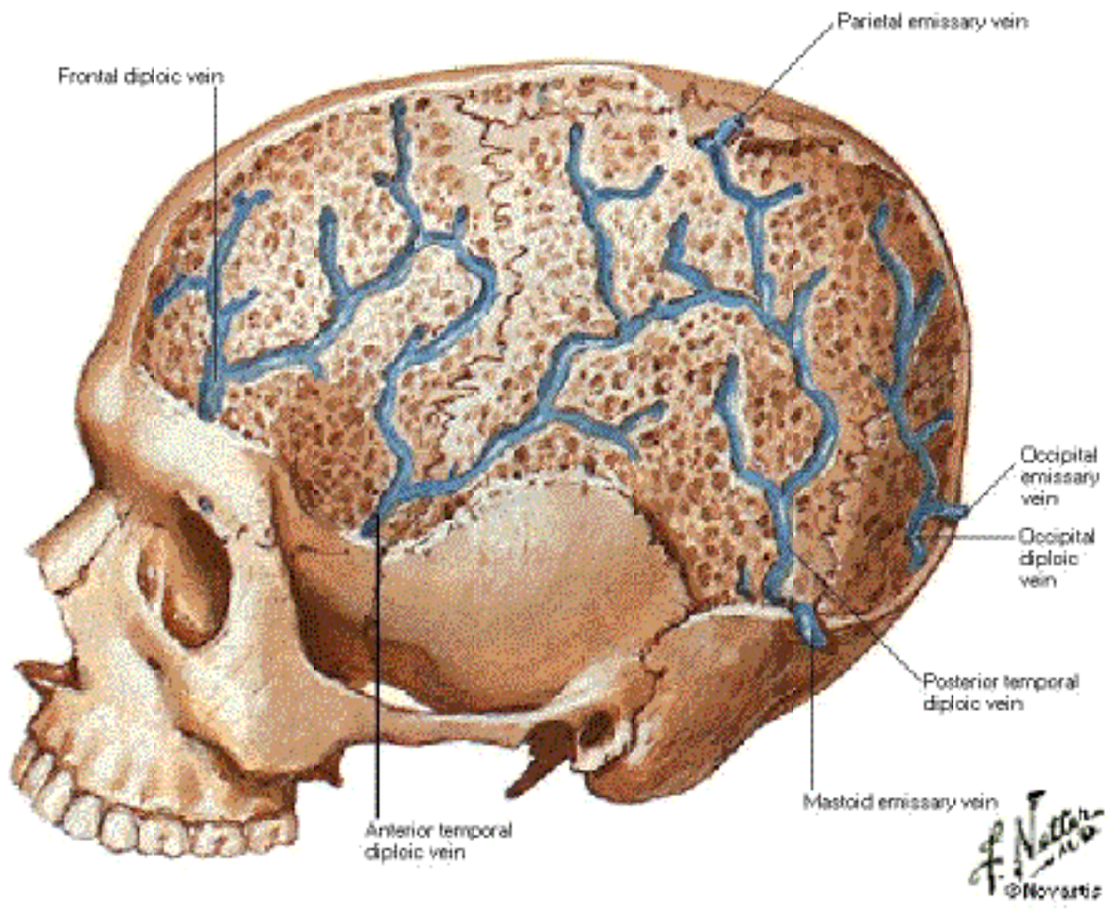
Lumen opened chiefly when attachment of tensor veli palatini muscle pulls wall of tube laterally during swallowing

Meninges and Diploic Veins

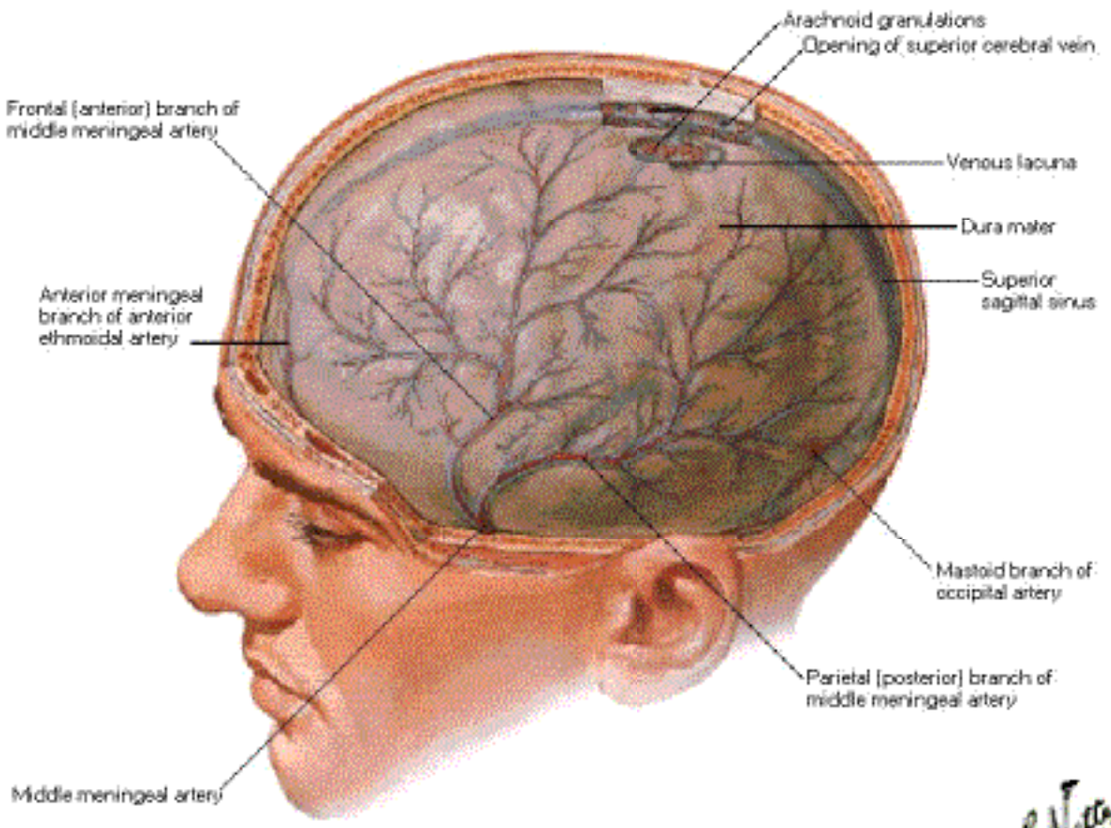
Coronal Dissection



Diploic and Emissary Veins of Skull

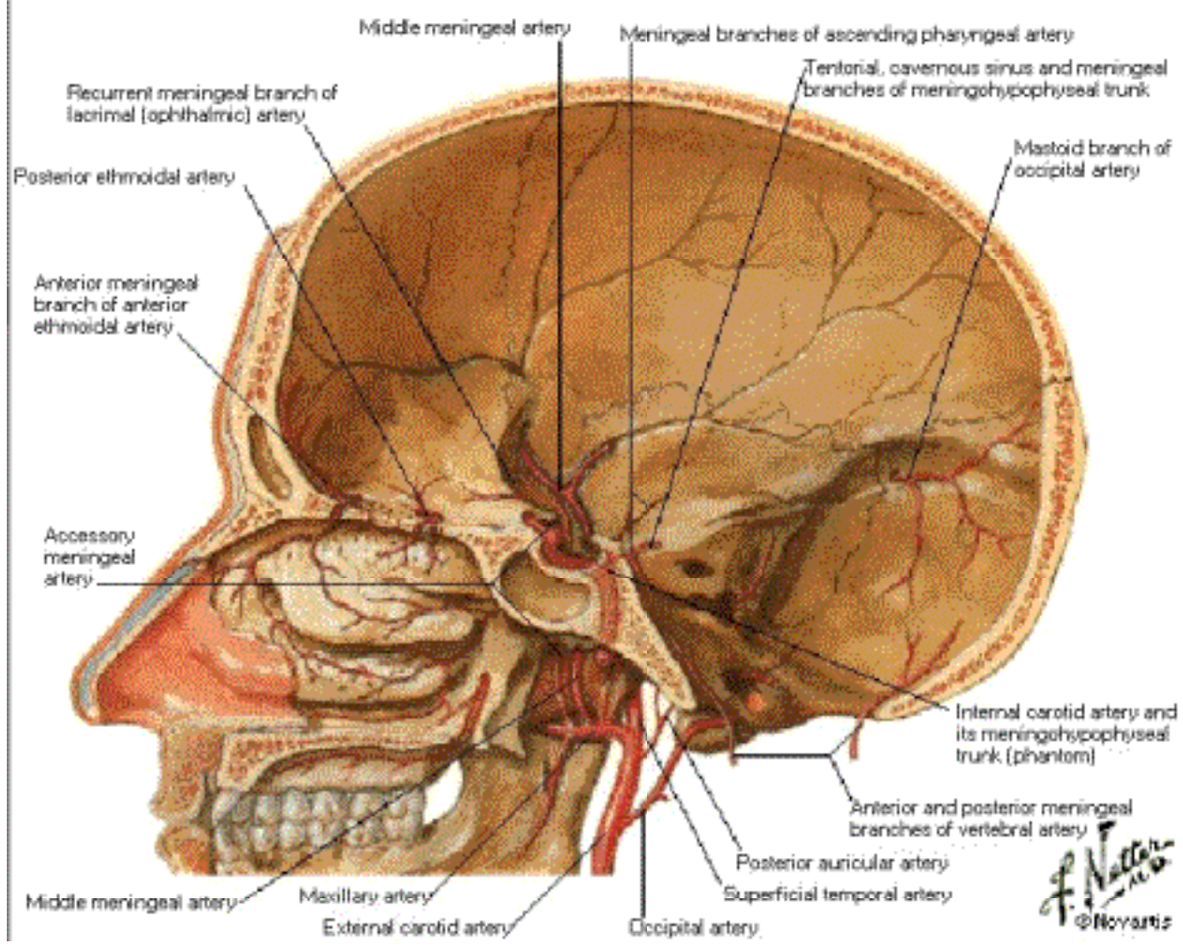


Meningeal Arteries



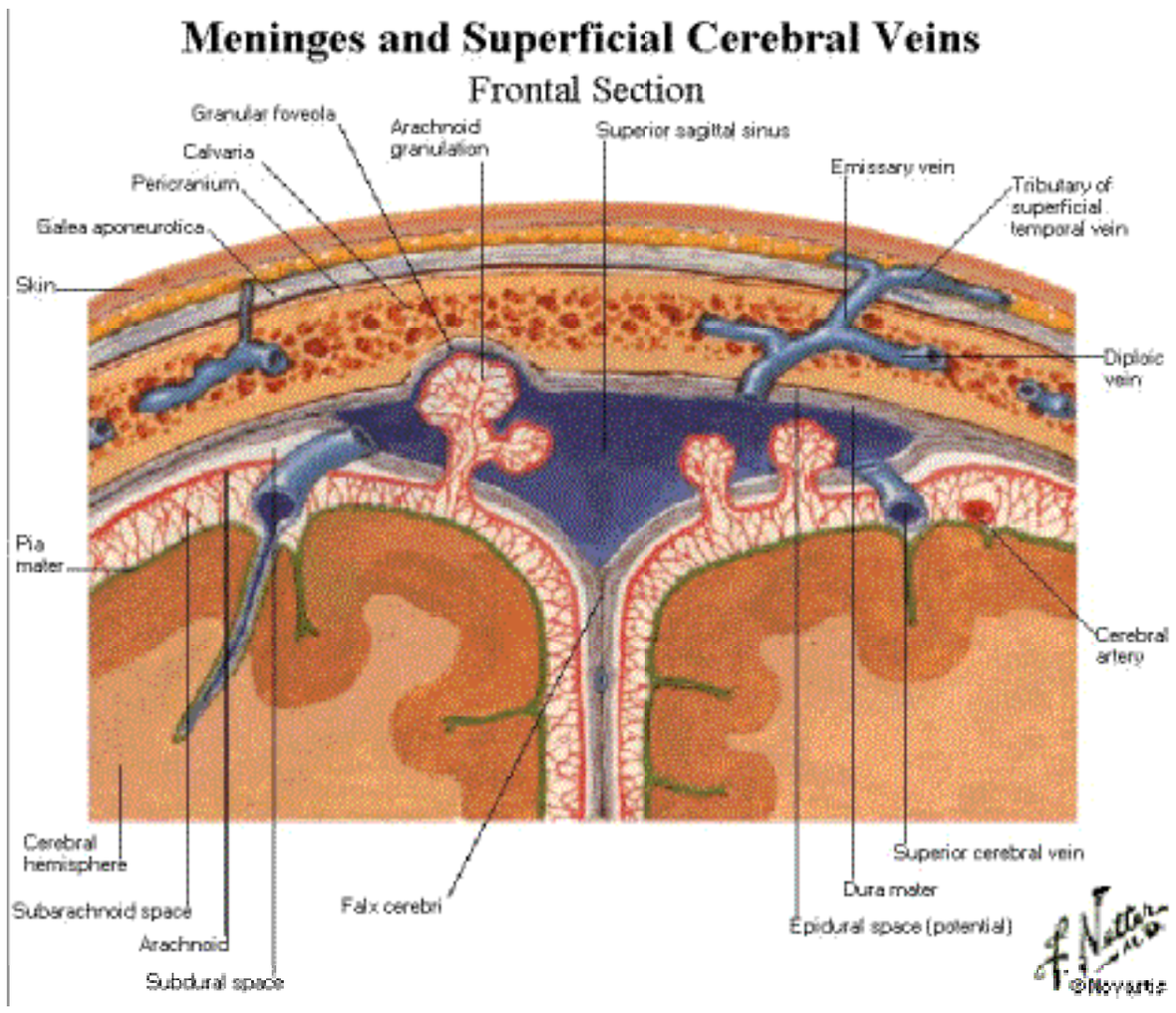
©Novartis

Meningeal Arteries [Continued]



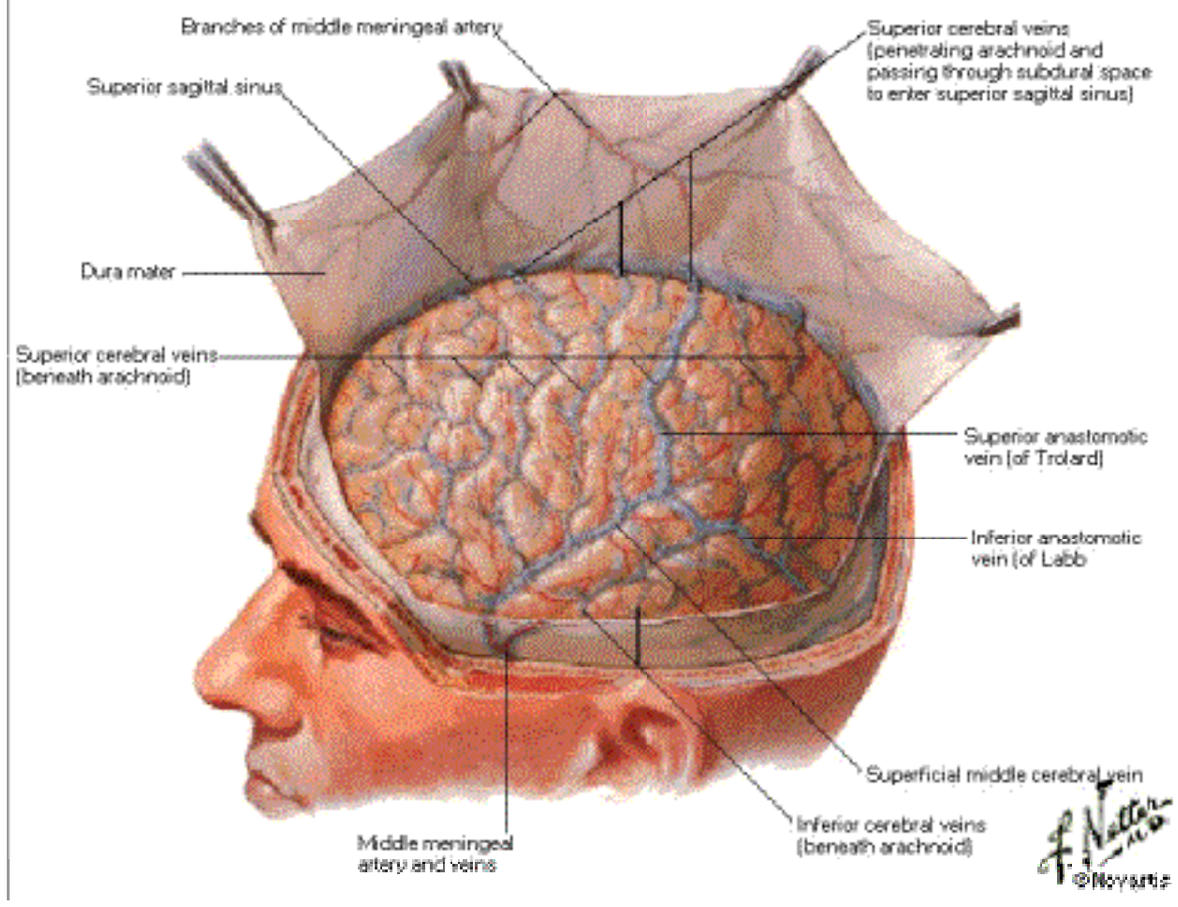
Meninges and Superficial Cerebral Veins

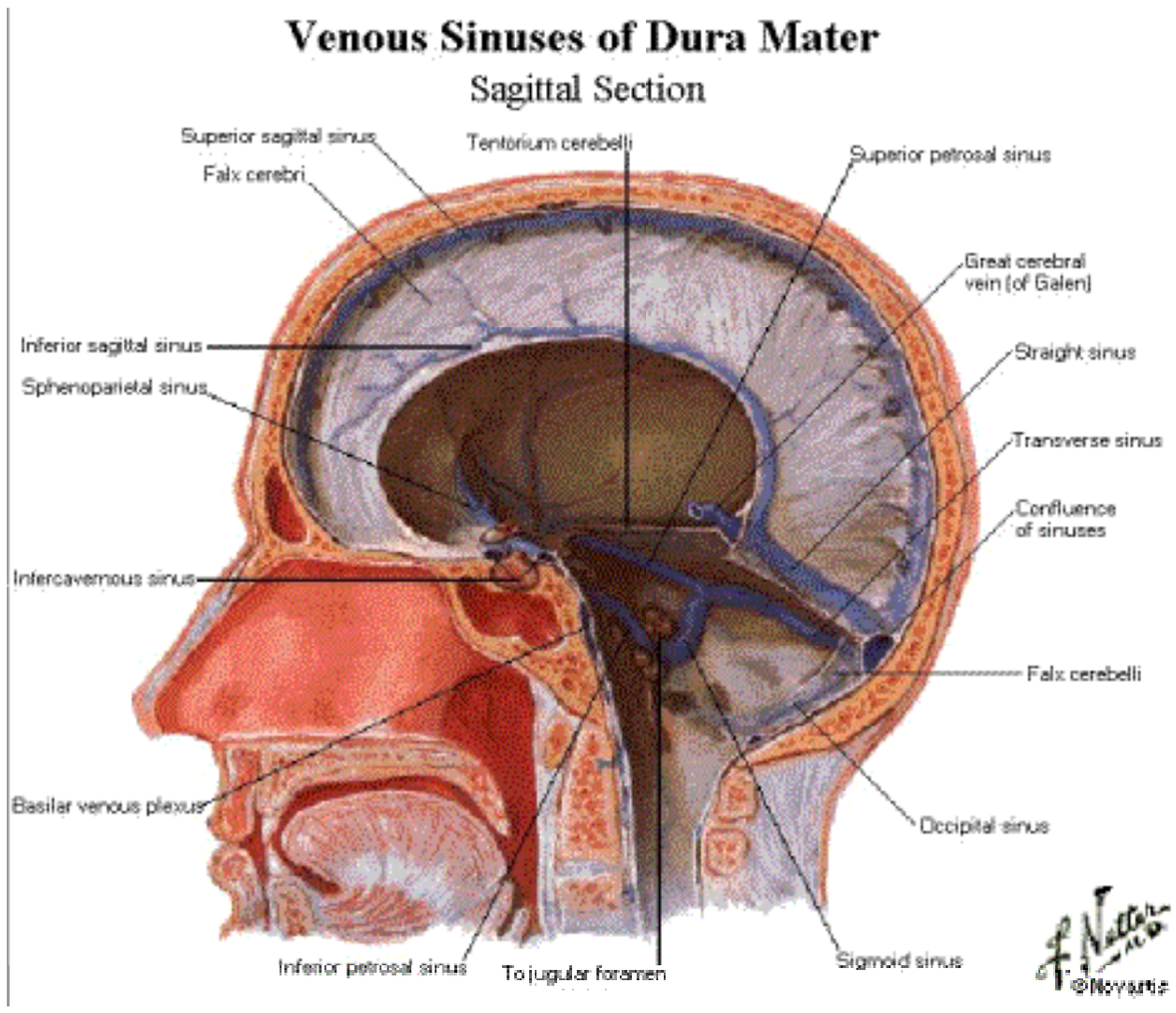
Frontal Section



Meninges and Superficial Cerebral Veins

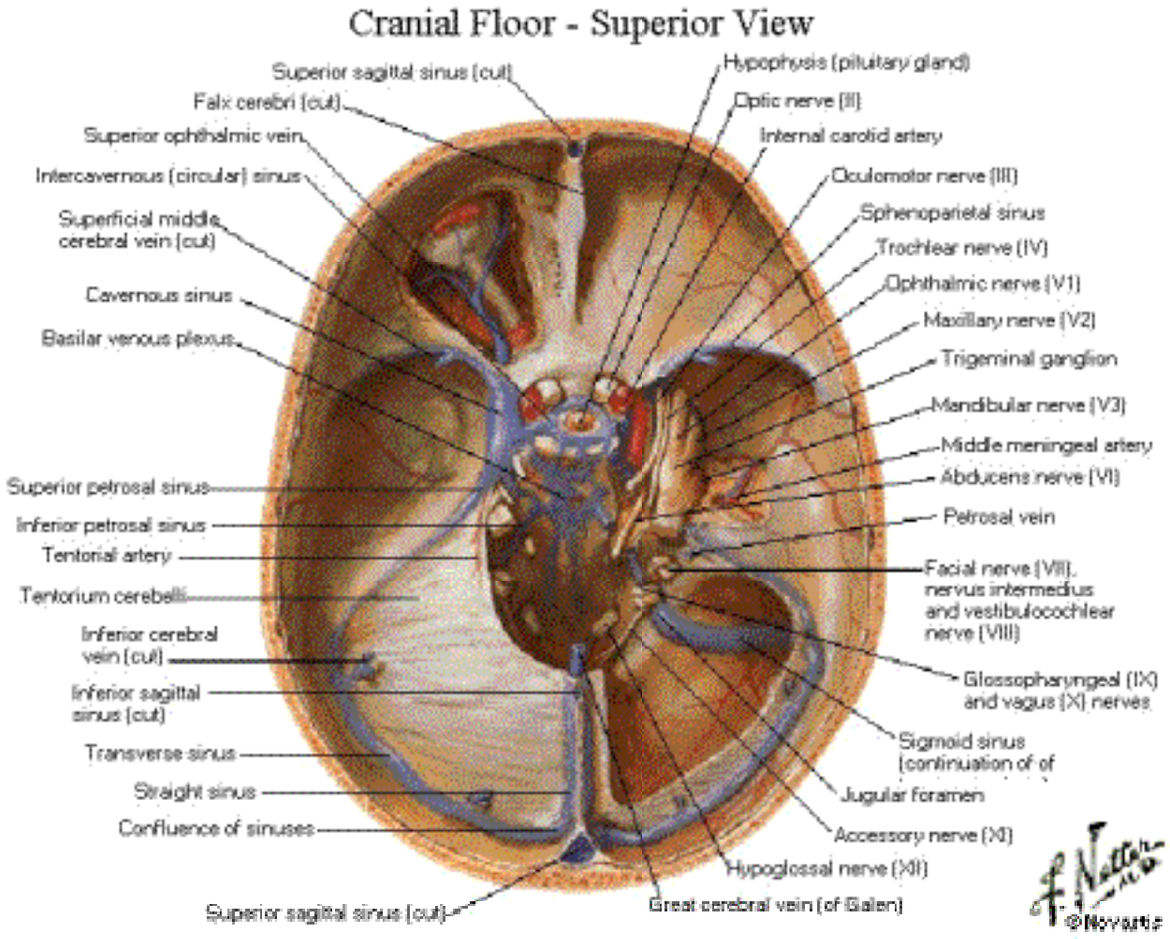
Dura Mater Lifted




Venous Sinuses of Dura Mater
Sagittal Section
Superior sagittal sinus
Falx cerebri
Tentorium cerebelli
Superior petrosal sinus
Great cerebral vein (of Galen)
Inferior sagittal sinus
Straight sinus
Sphenoparietal sinus
Transverse sinus
Confluence of sinuses
Intercavernous sinus
Falx cerebelli
Basilar venous plexus
Occipital sinus
Inferior petrosal sinus
To jugular foramen
Sigmoid sinus
©Novartis

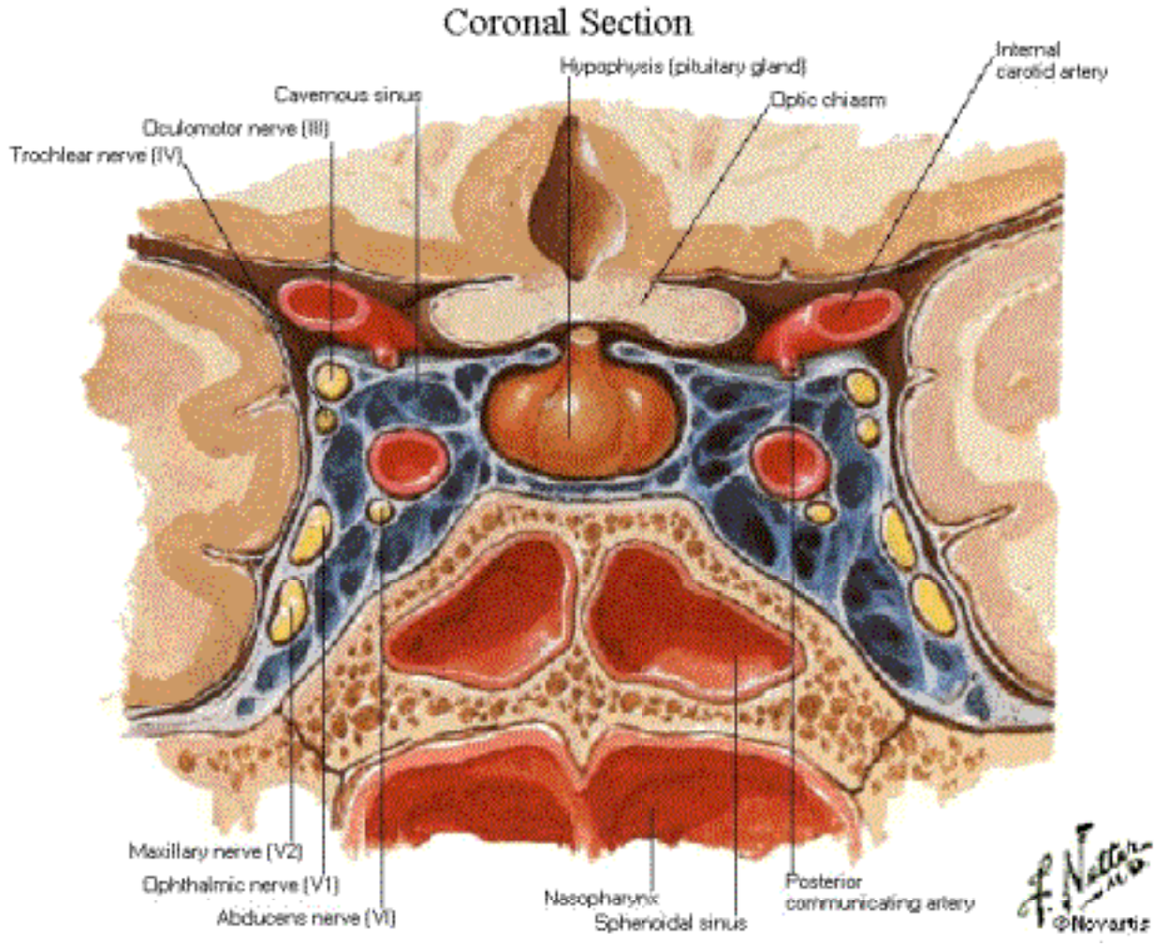
Venous Sinuses of Dura Mater

Cranial Floor - Superior View



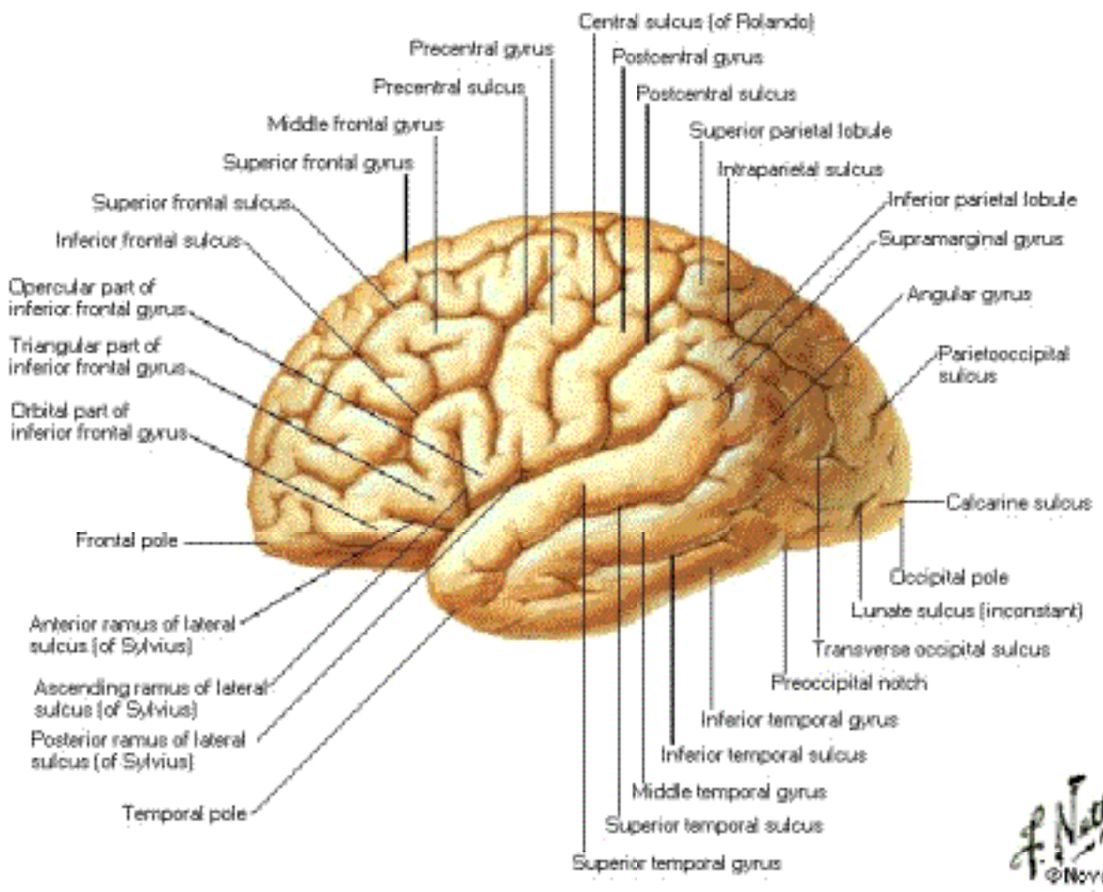
Cavernous Sinus

Coronal Section



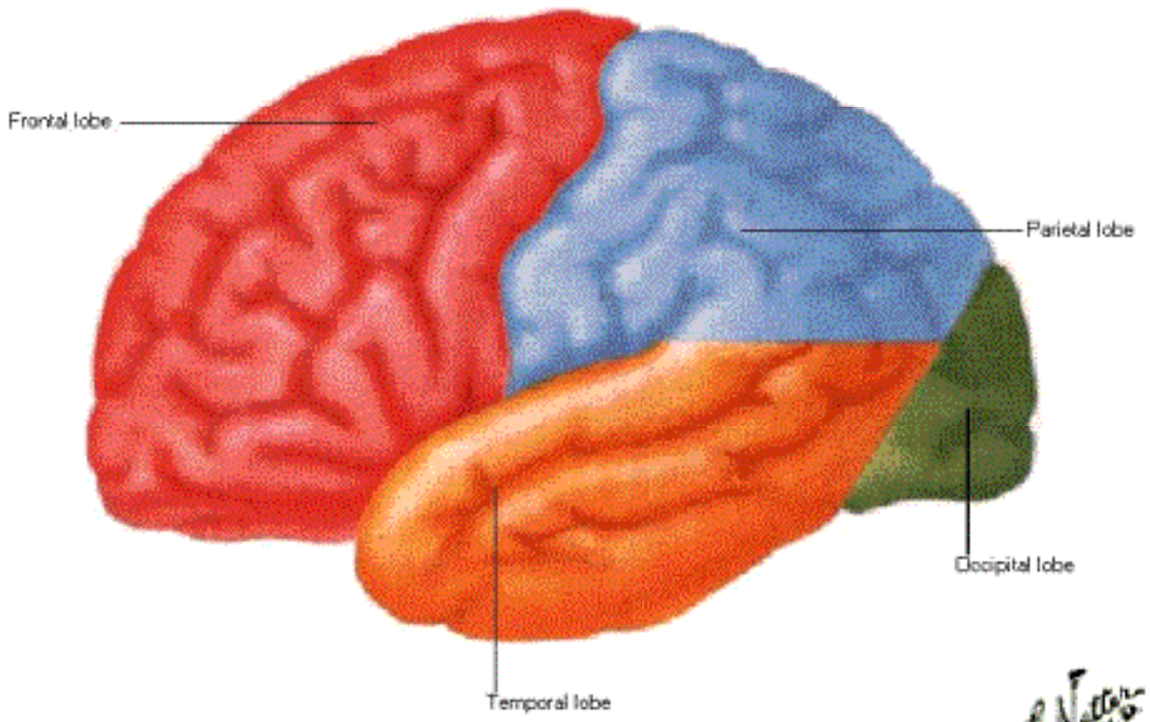
Cerebrum

Lateral View



Cerebrum - Lobes

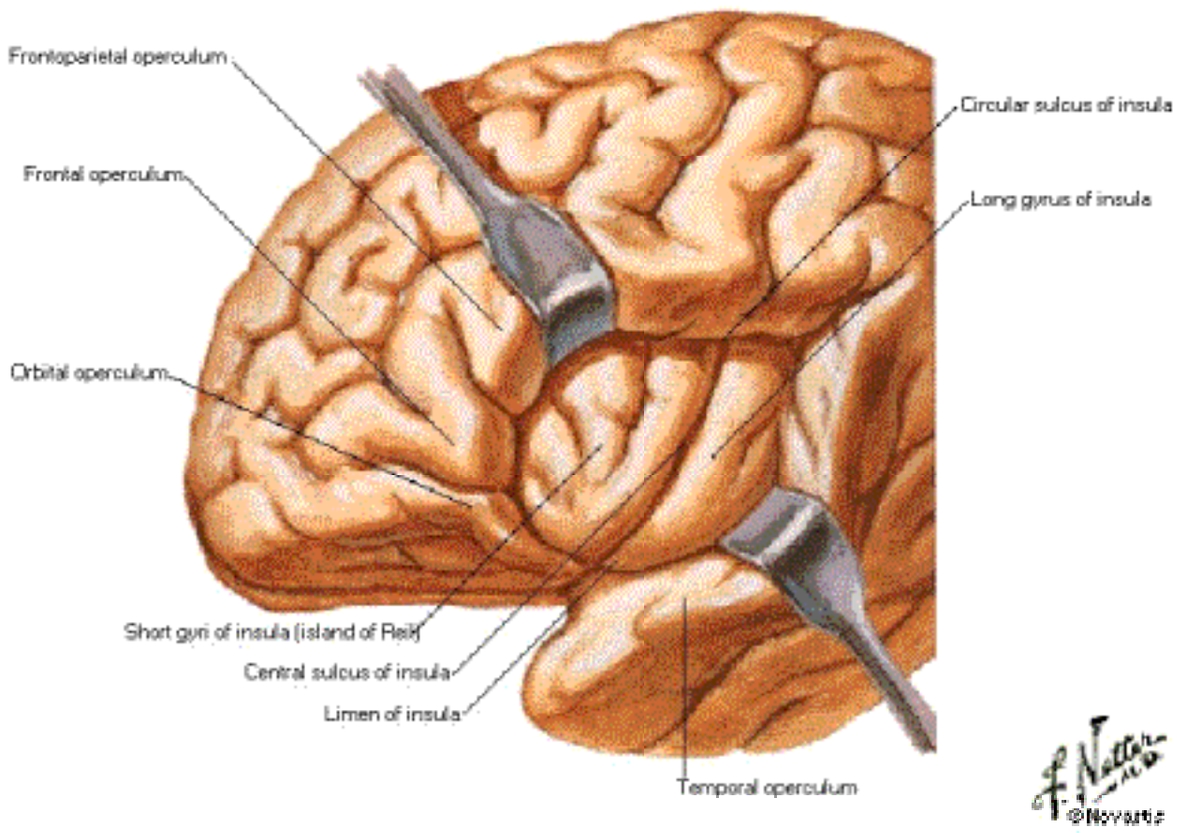
Lateral View



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Cerebrum - Insula [Island of Reil]

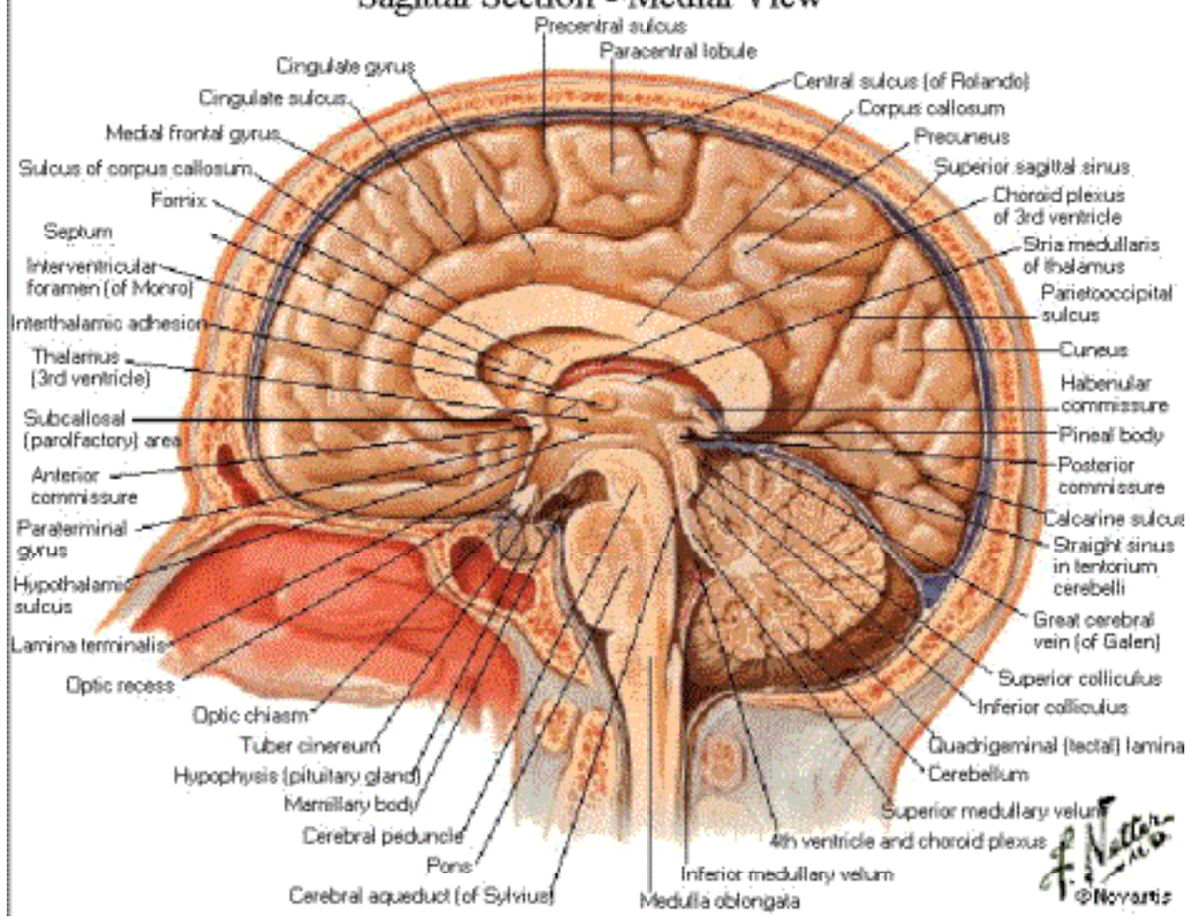
Lateral View



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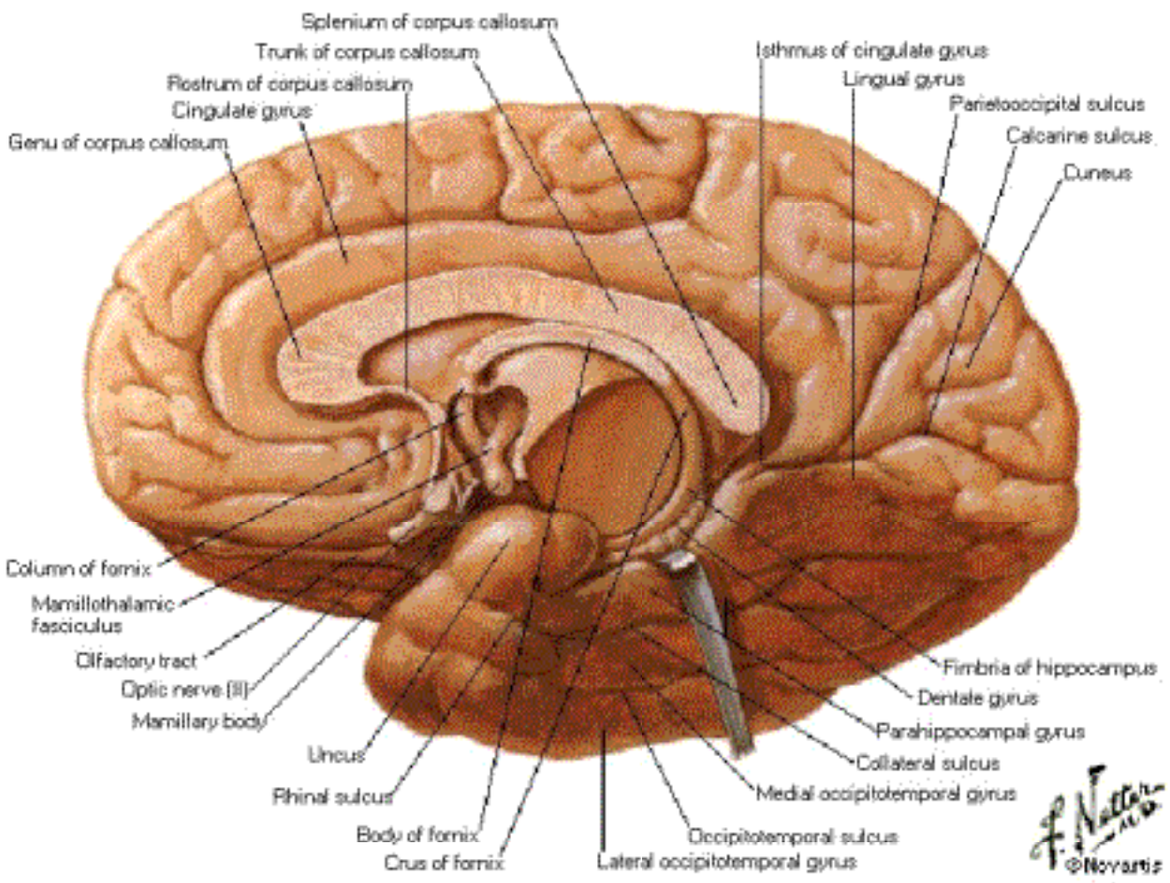
Cerebrum - Brain in Situ

Sagittal Section - Medial View



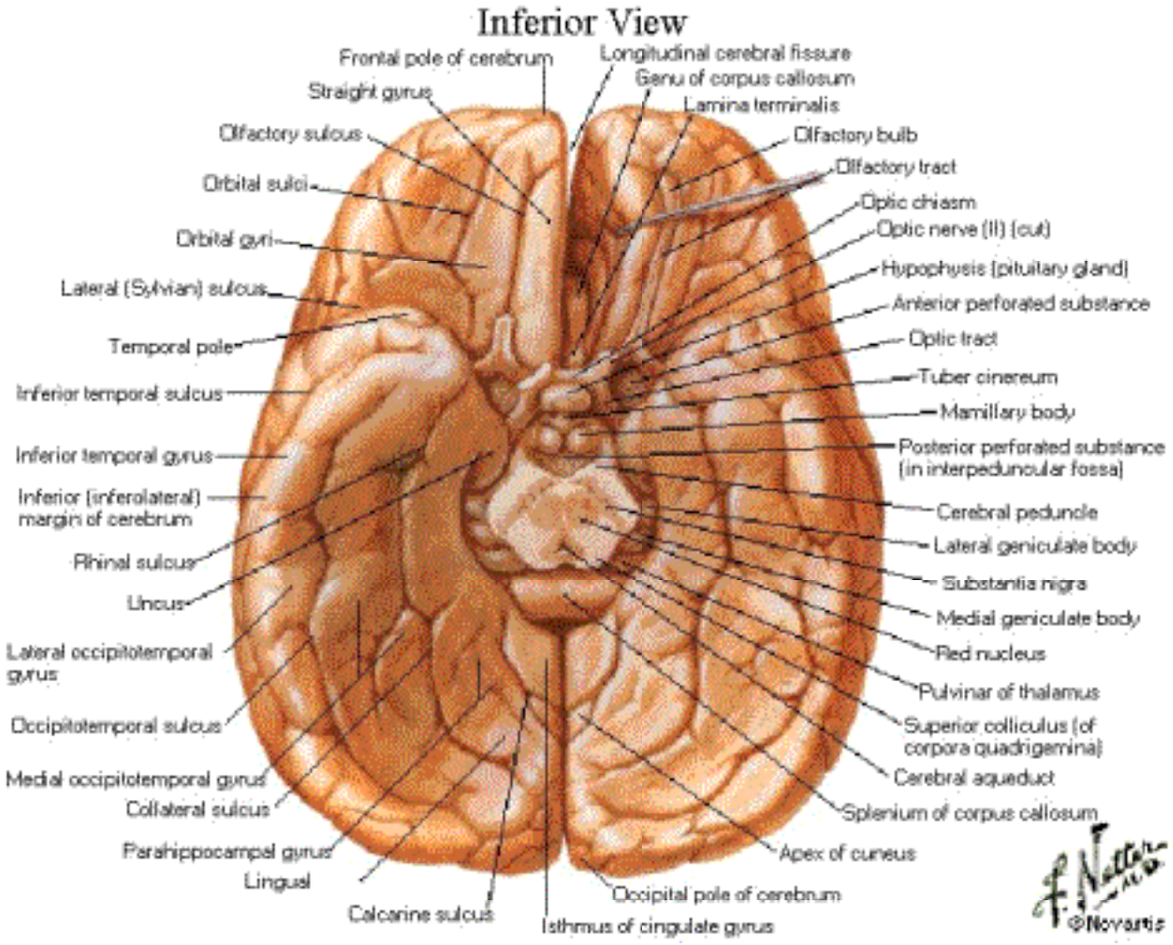
Cerebrum - Hemisphere with Brainstem Excised

Medial View



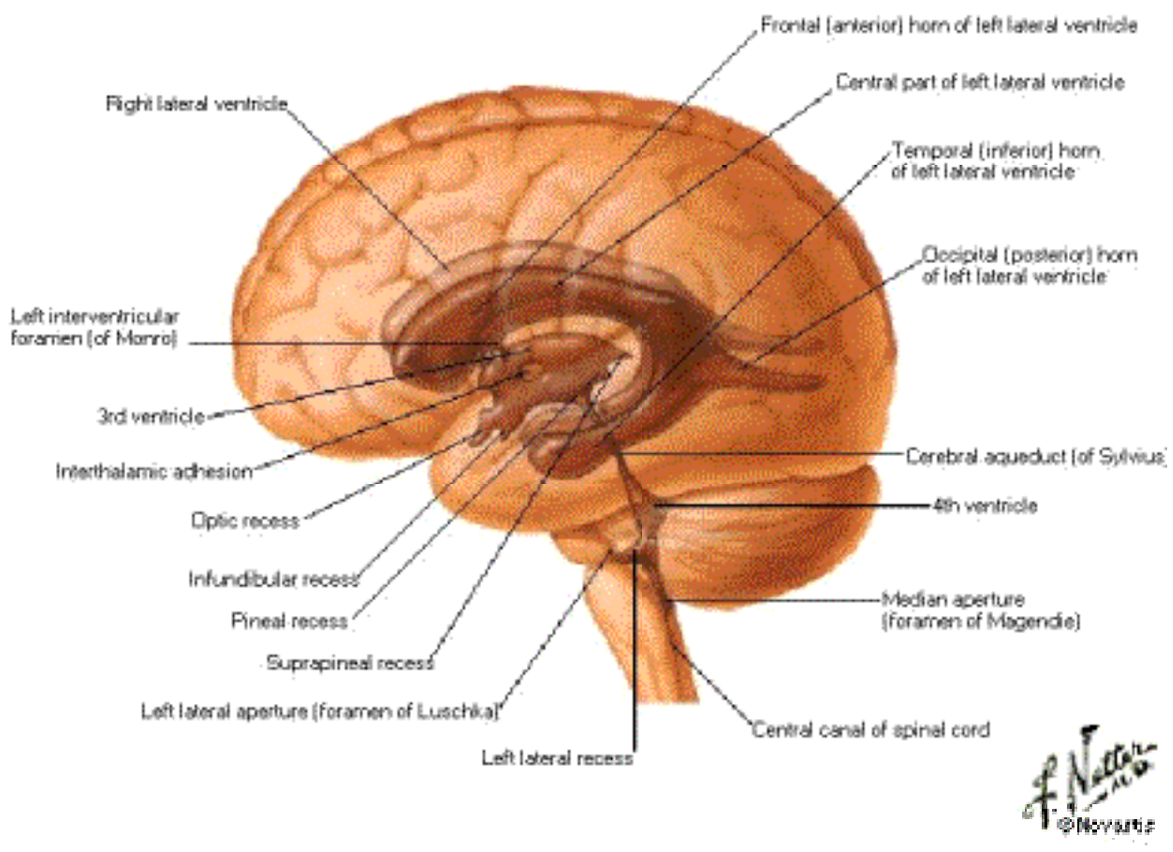
Cerebrum

Inferior View



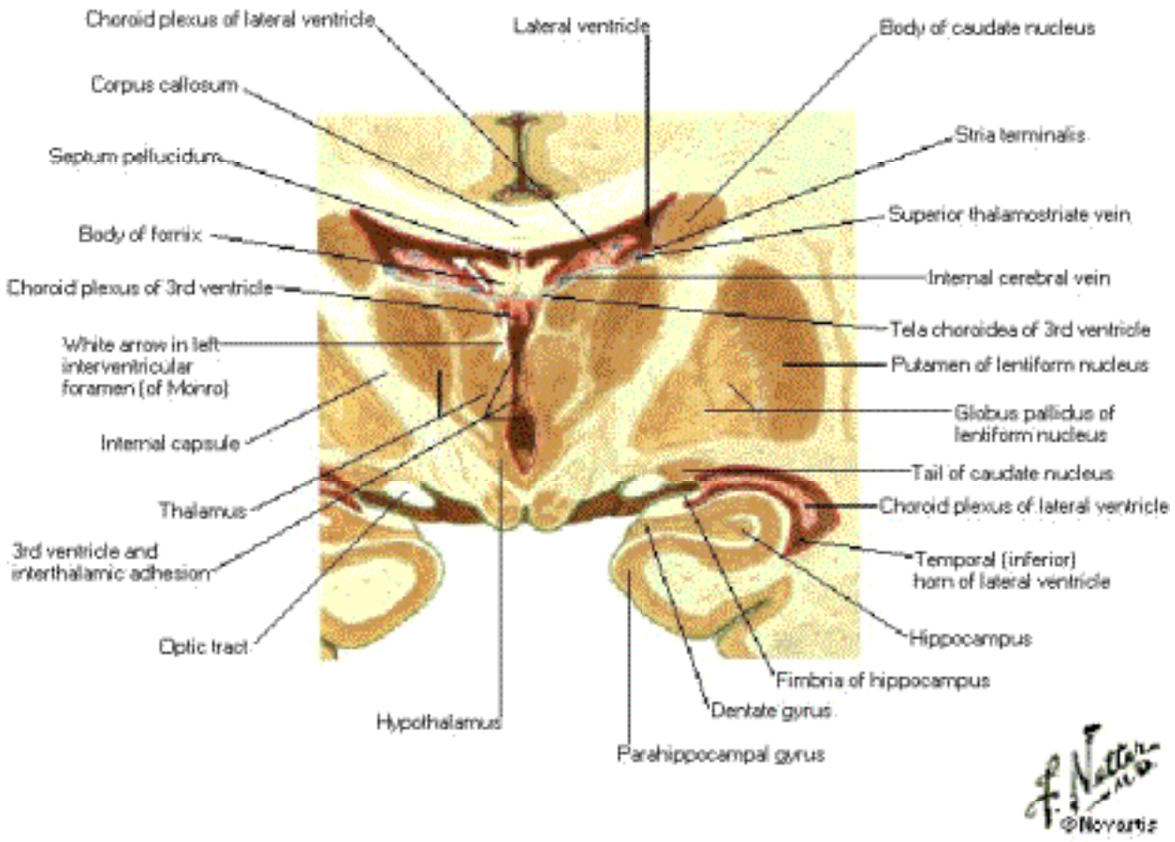
Ventricles of Brain

Left Lateral Phantom View

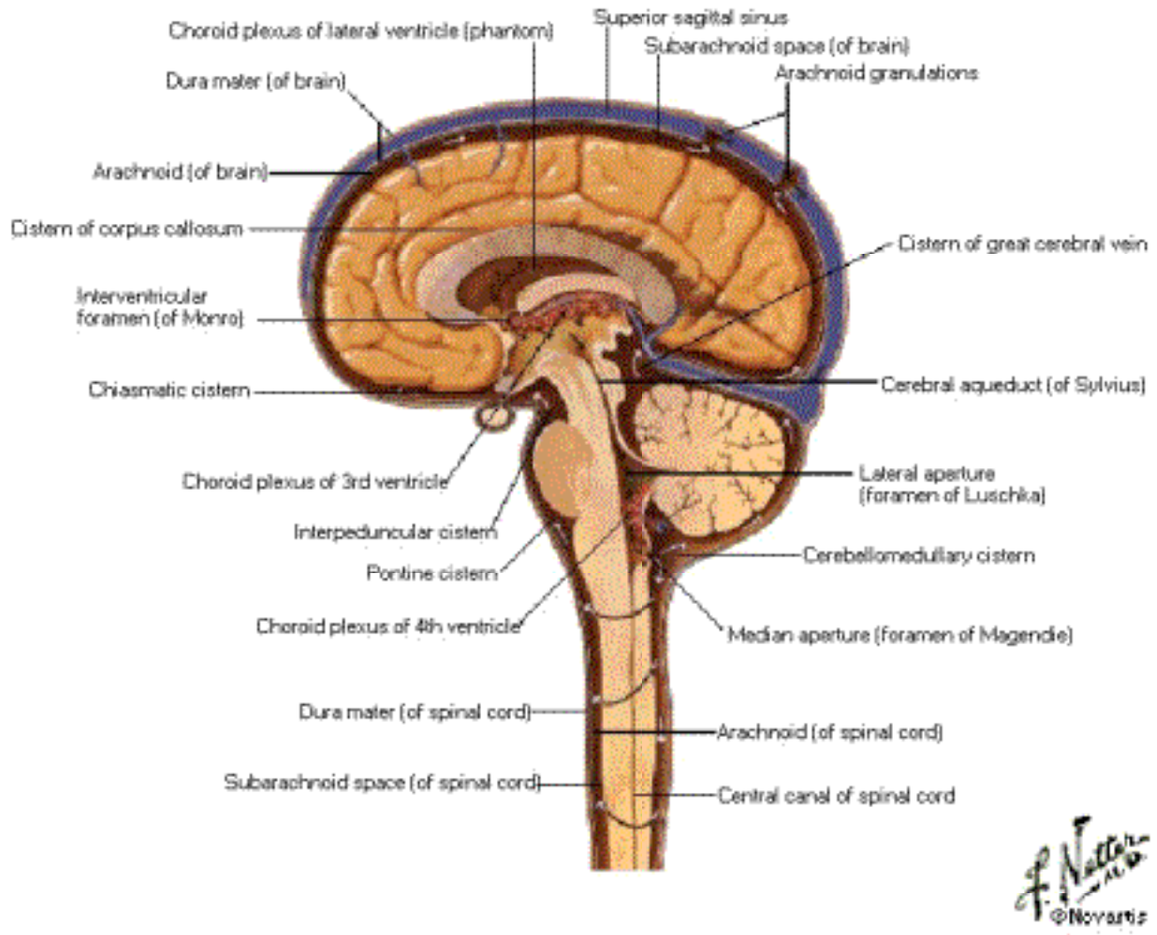


Ventricles of Brain

Coronal Section - Posterior View

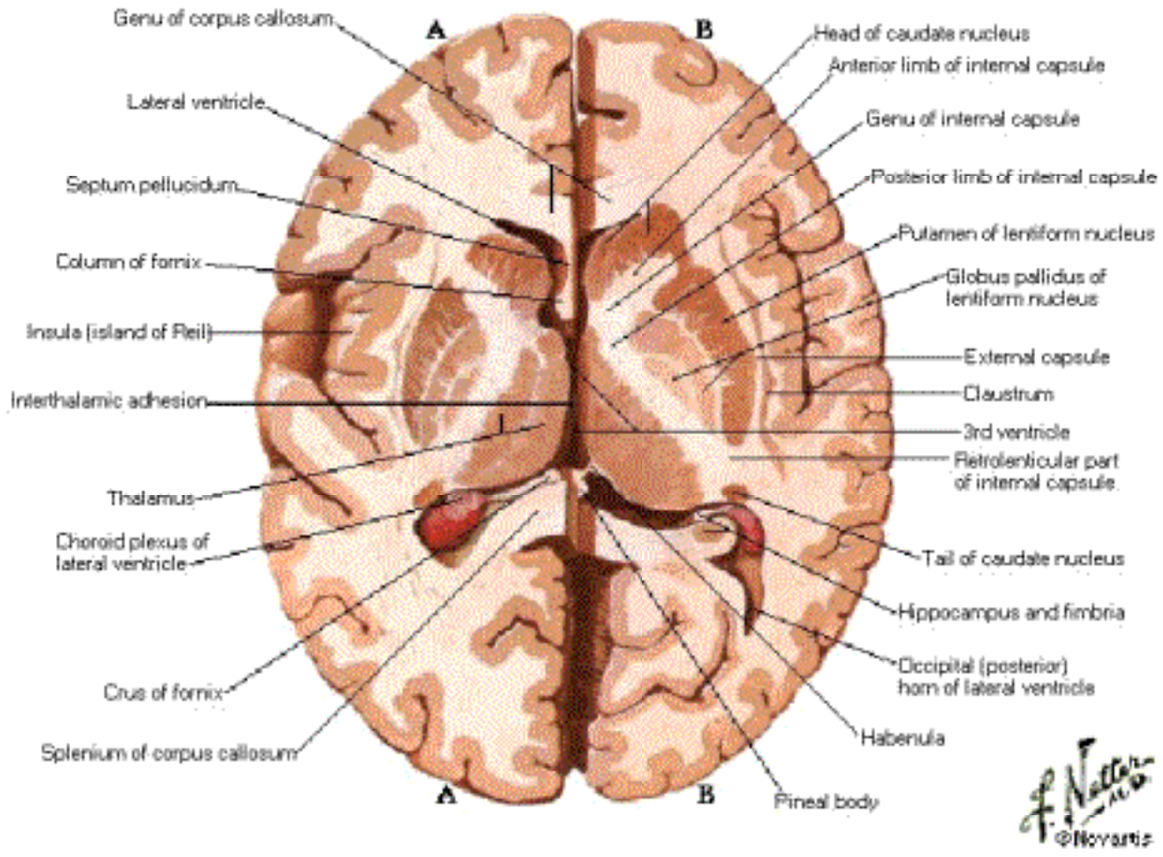


Circulation of Cerebrospinal Fluid



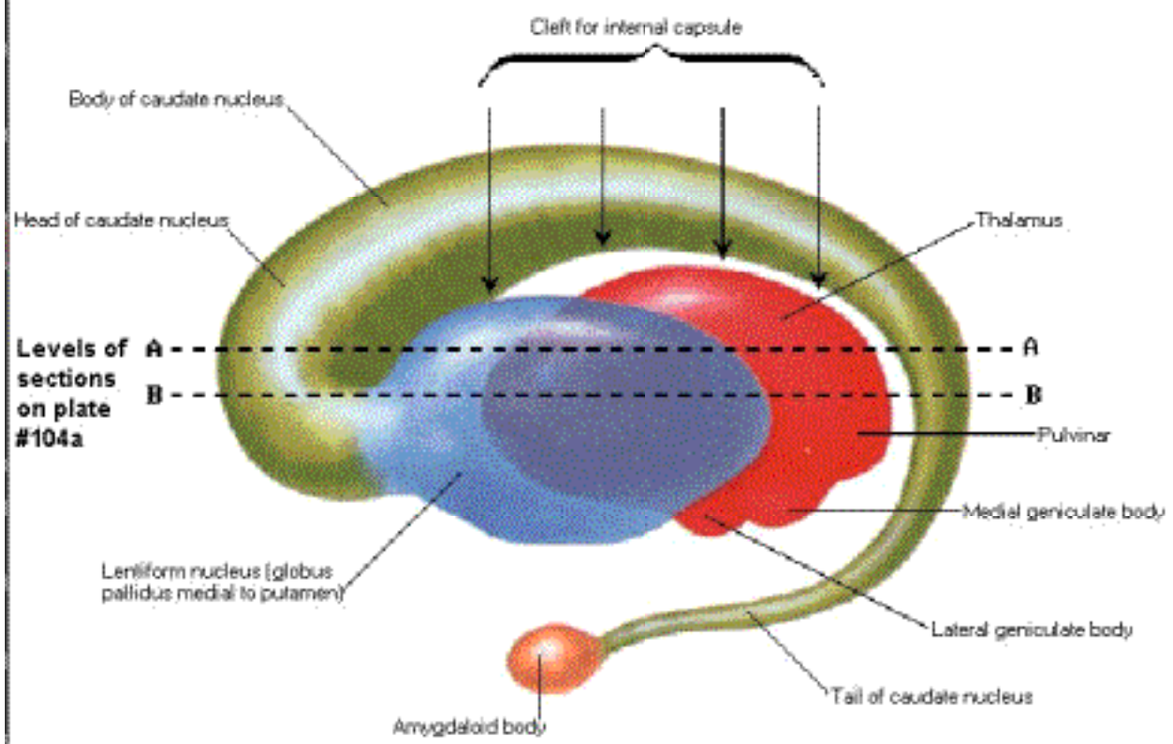
Basal Ganglia

Horizontal Sections through Cerebrum



Basal Ganglia - Schema

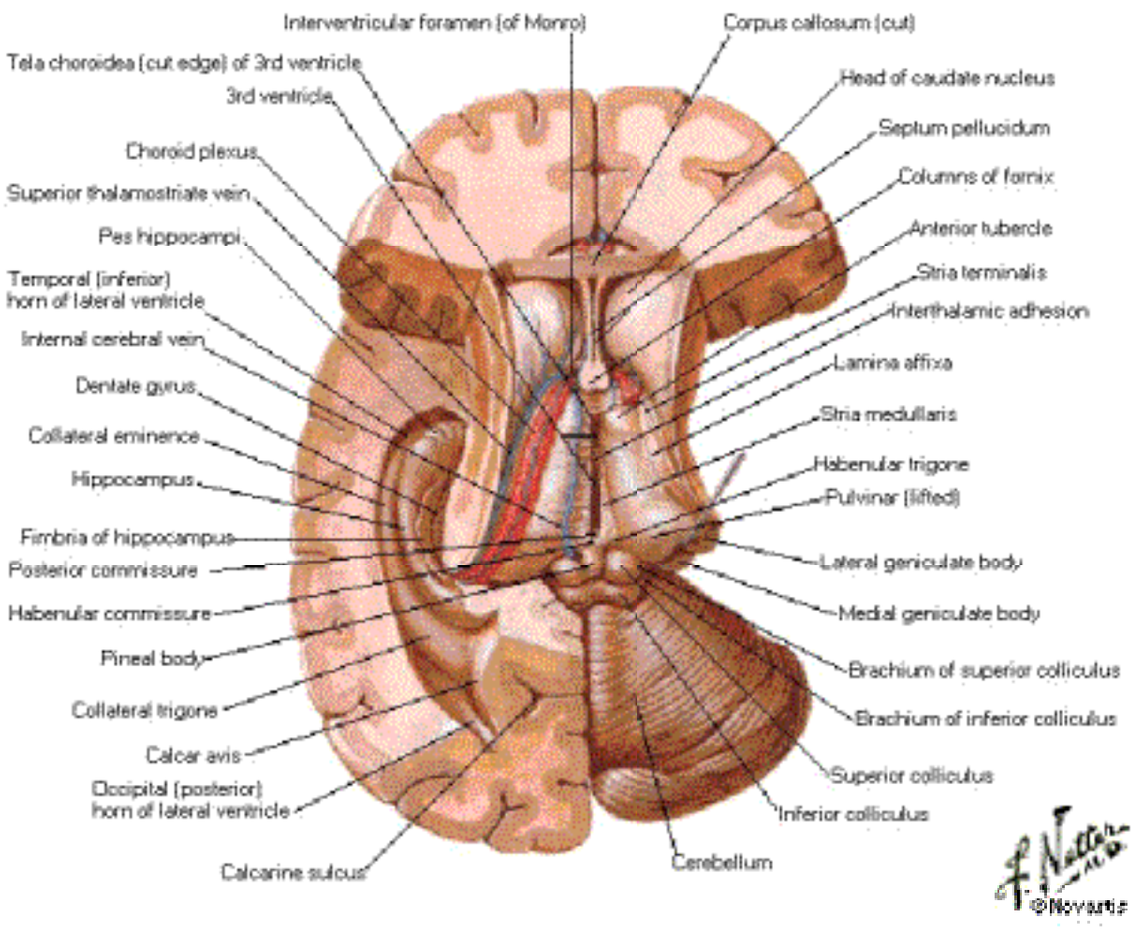
Left Lateral View



Interrelationship of thalamus, lentiform nucleus, caudate nucleus and amygdaloid body

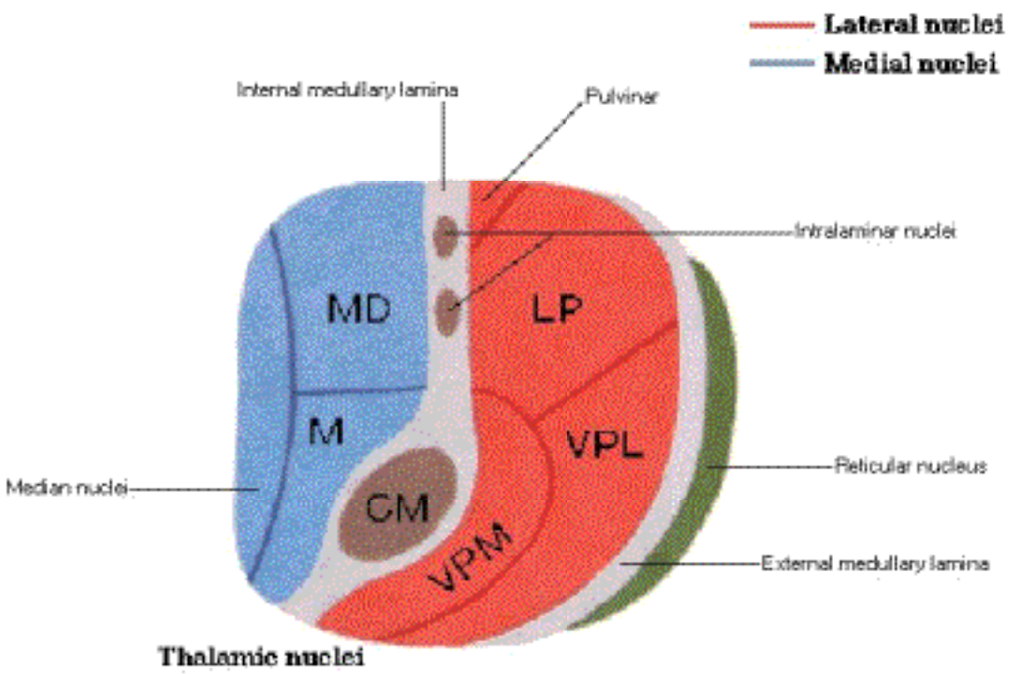
©Novartis

Thalamus


Interventricular foramen (of Monro)
Corpus callosum (cut)
Tela choroidea (cut edge) of 3rd ventricle
Head of caudate nucleus
3rd ventricle
Septum pellucidum
Choroid plexus
Columns of fornix
Superior thalamostriate vein
Anterior tubercle
Pes hippocampi
Stria terminalis
Temporal (inferior) horn of lateral ventricle
Interthalamic adhesion
Internal cerebral vein
Lamina affixa
Dentate gyrus
Stria medullaris
Collateral eminence
Habenular trigone
Hippocampus
Pulvinar (lifted)
Fimbria of hippocampus
Lateral geniculate body
Posterior commissure
Medial geniculate body
Habenular commissure
Brachium of superior colliculus
Pineal body
Brachium of inferior colliculus
Collateral trigone
Calcar avis
Superior colliculus
Occipital (posterior) horn of lateral ventricle
Inferior colliculus
Calcarine sulcus
Cerebellum
© Novartis

Thalamus

Schematic Section



Thalamic nuclei

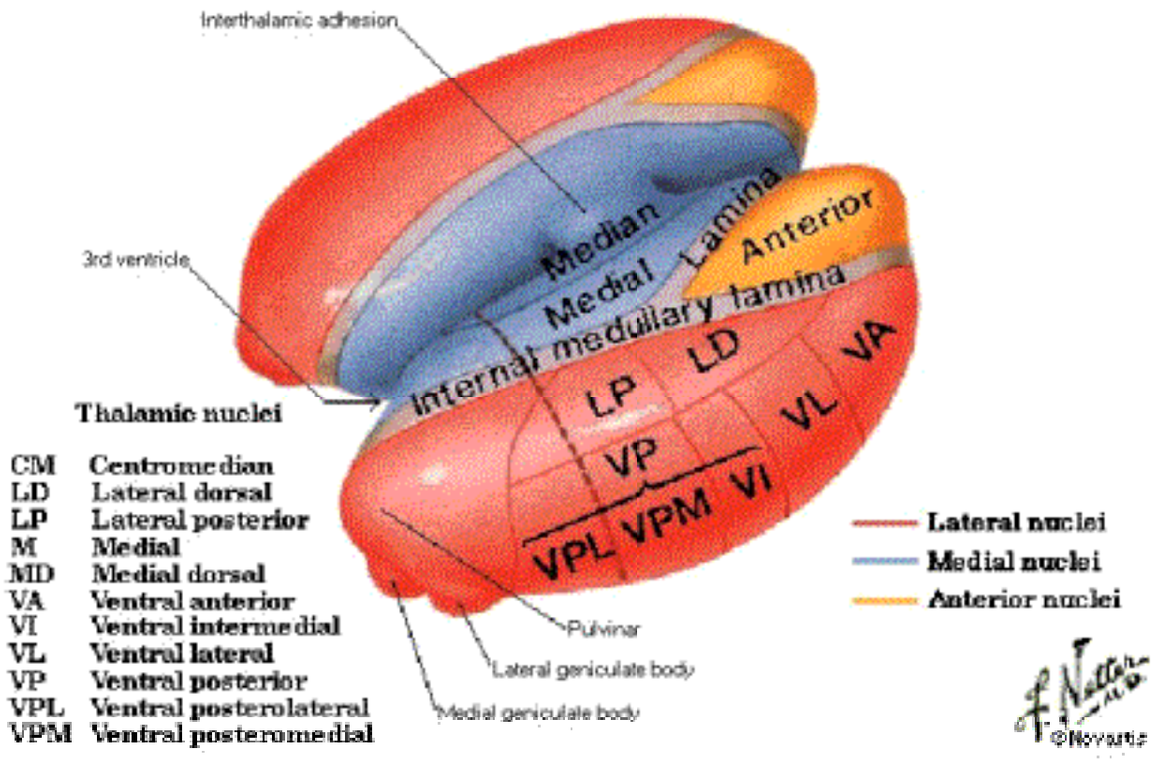
CM	**Centromedian**	**VA**	**Ventral anterior**
LD	**Lateral dorsal**	**VI**	**Ventral intermedial**
LP	**Lateral posterior**	**VL**	**Ventral lateral**
M	**Medial**	**VP**	**Ventral posterior**
MD	**Medial dorsal**	**VPL**	**Ventral posterolateral**
		VPM	**Ventral posteromedial**

Schematic section through thalamus (at level of broken line shown in plate #105C)

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Thalamus

Schematic Representation of Thalamus

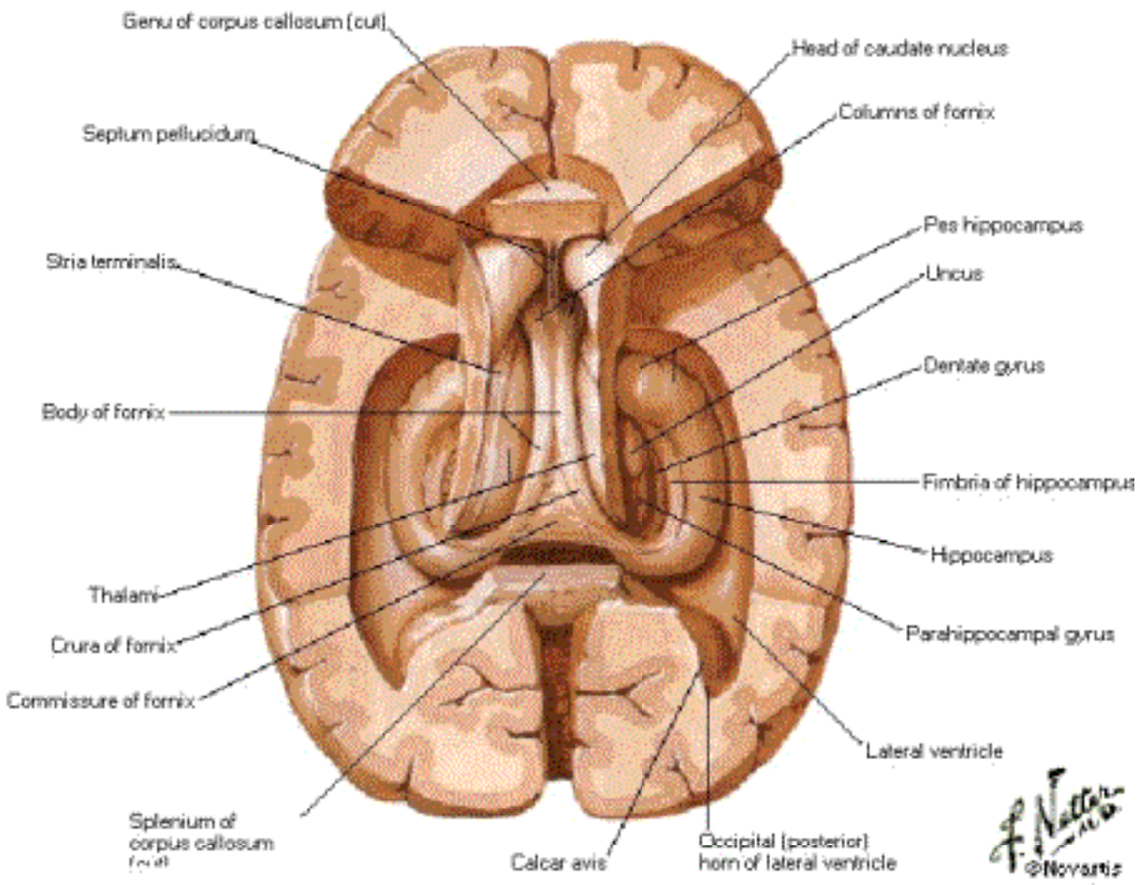


Thalamic nuclei

CM	**Centromedian**
LD	**Lateral dorsal**
LP	**Lateral posterior**
M	**Medial**
MD	**Medial dorsal**
VA	**Ventral anterior**
VI	**Ventral intermedial**
VL	**Ventral lateral**
VP	**Ventral posterior**
VPL	**Ventral posterolateral**
VPM	**Ventral posteromedial**

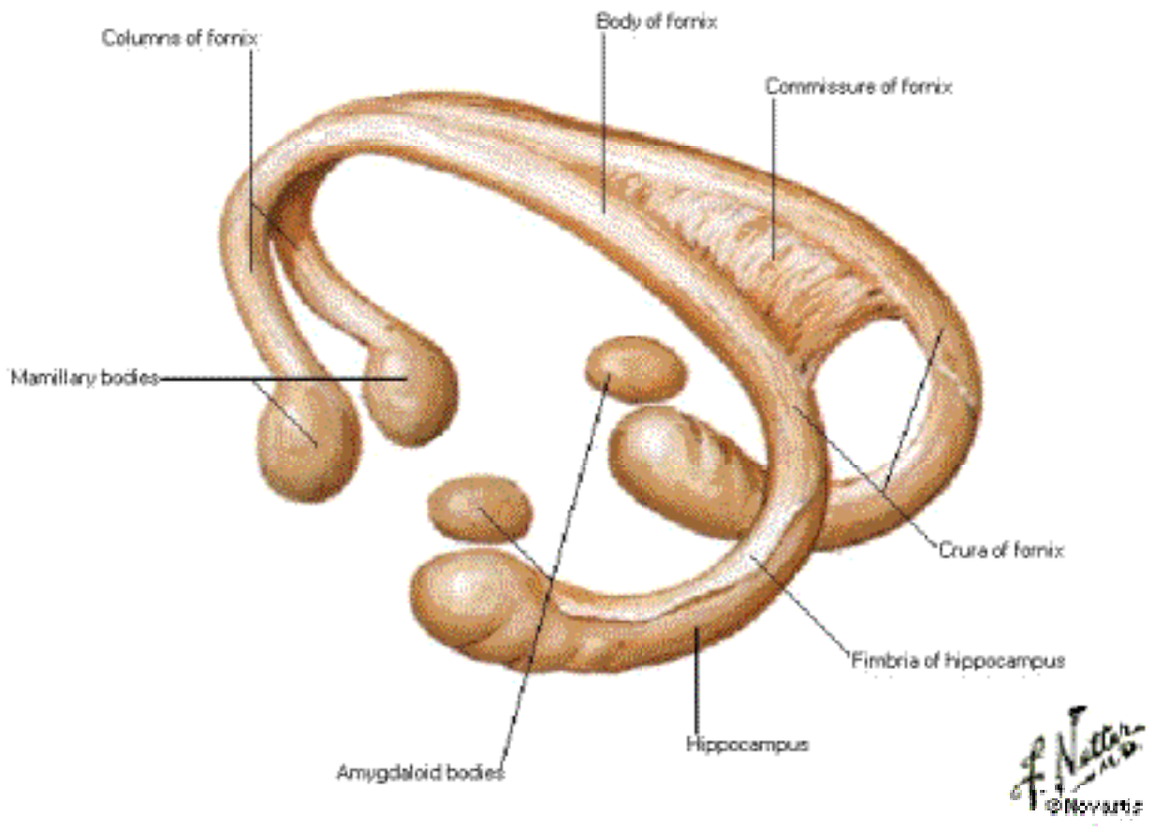
Hippocampus and Fornix

Superior Dissection



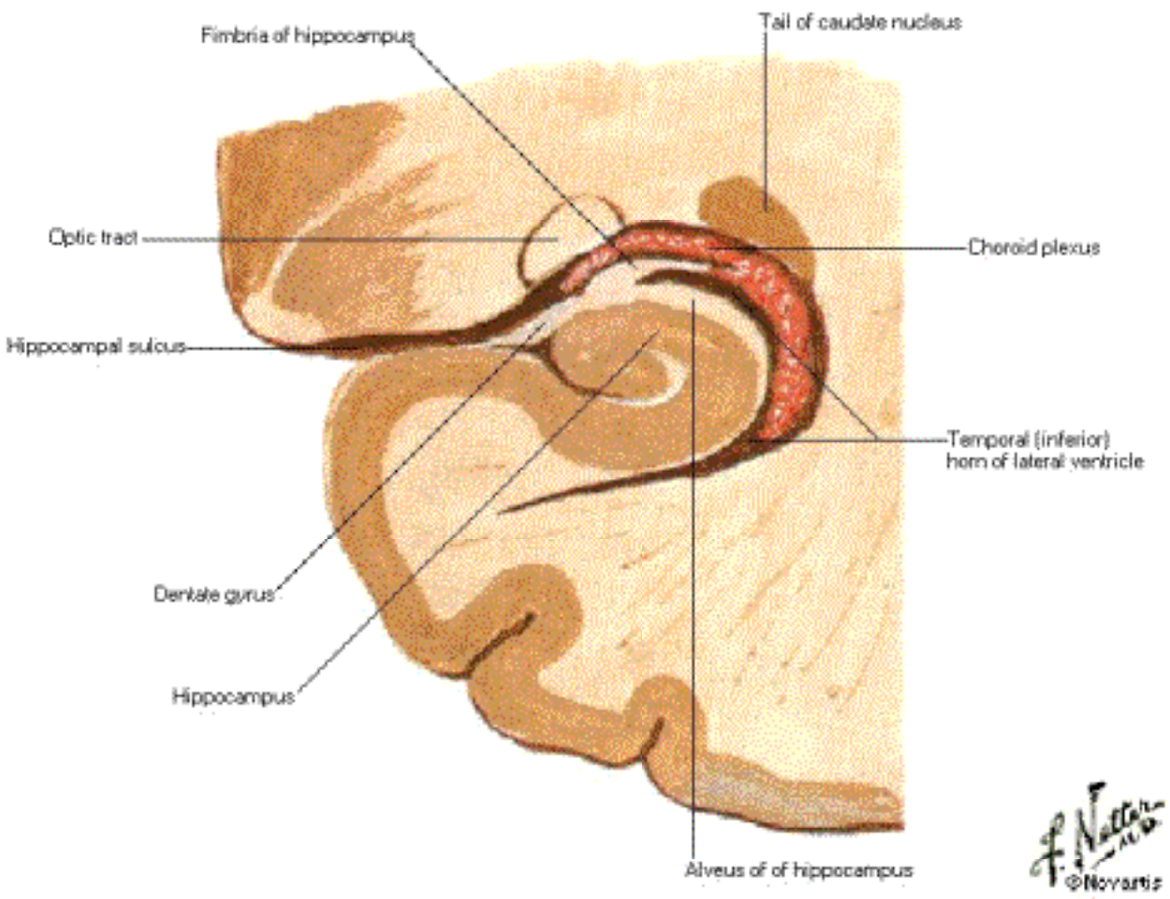
Hippocampus and Fornix

Schema of Fornix



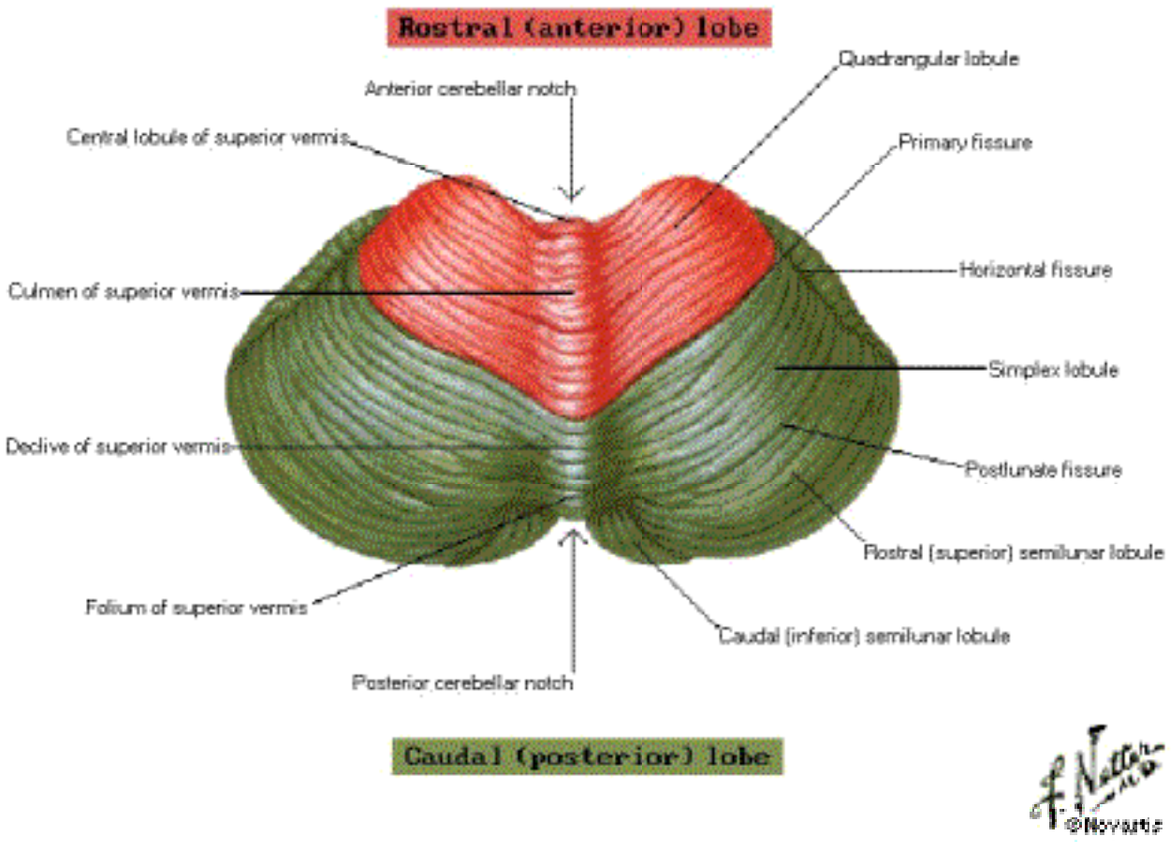
Hippocampus and Fornix

Coronal Section - Posterior View



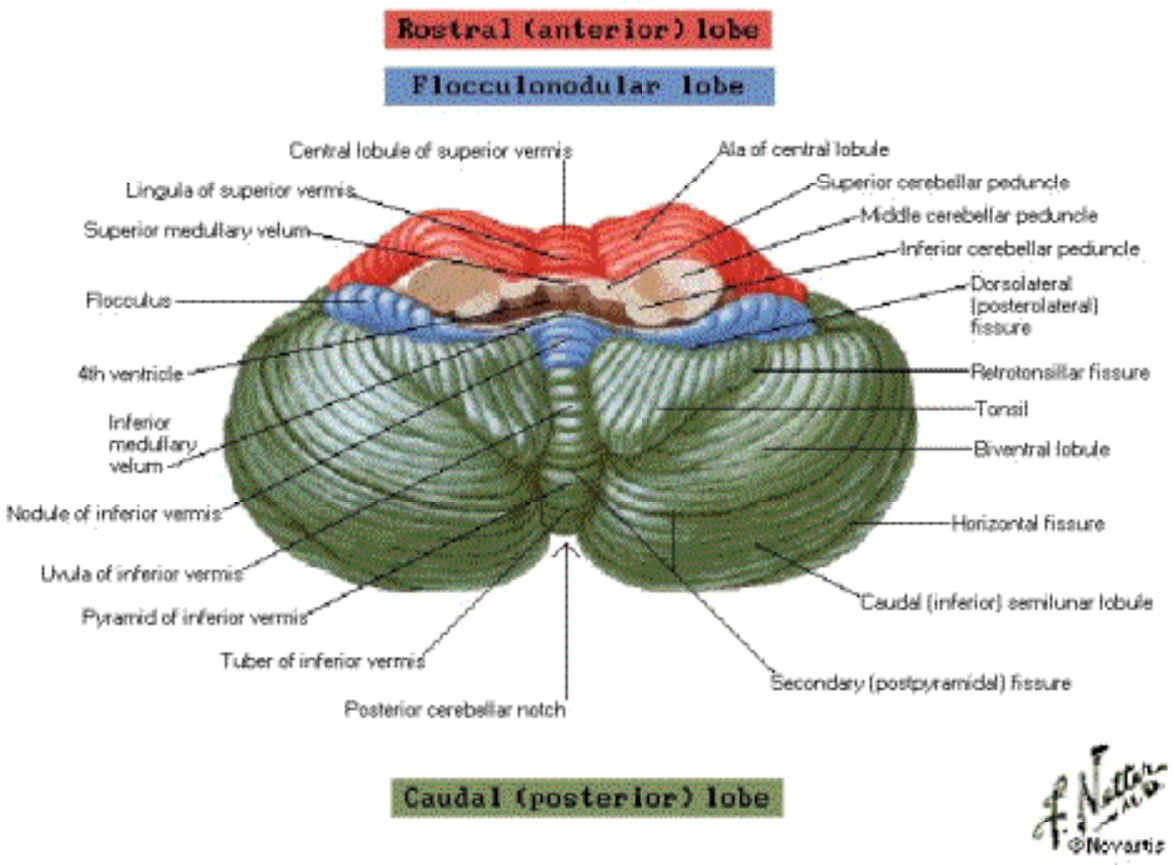
Cerebellum

Superior Surface



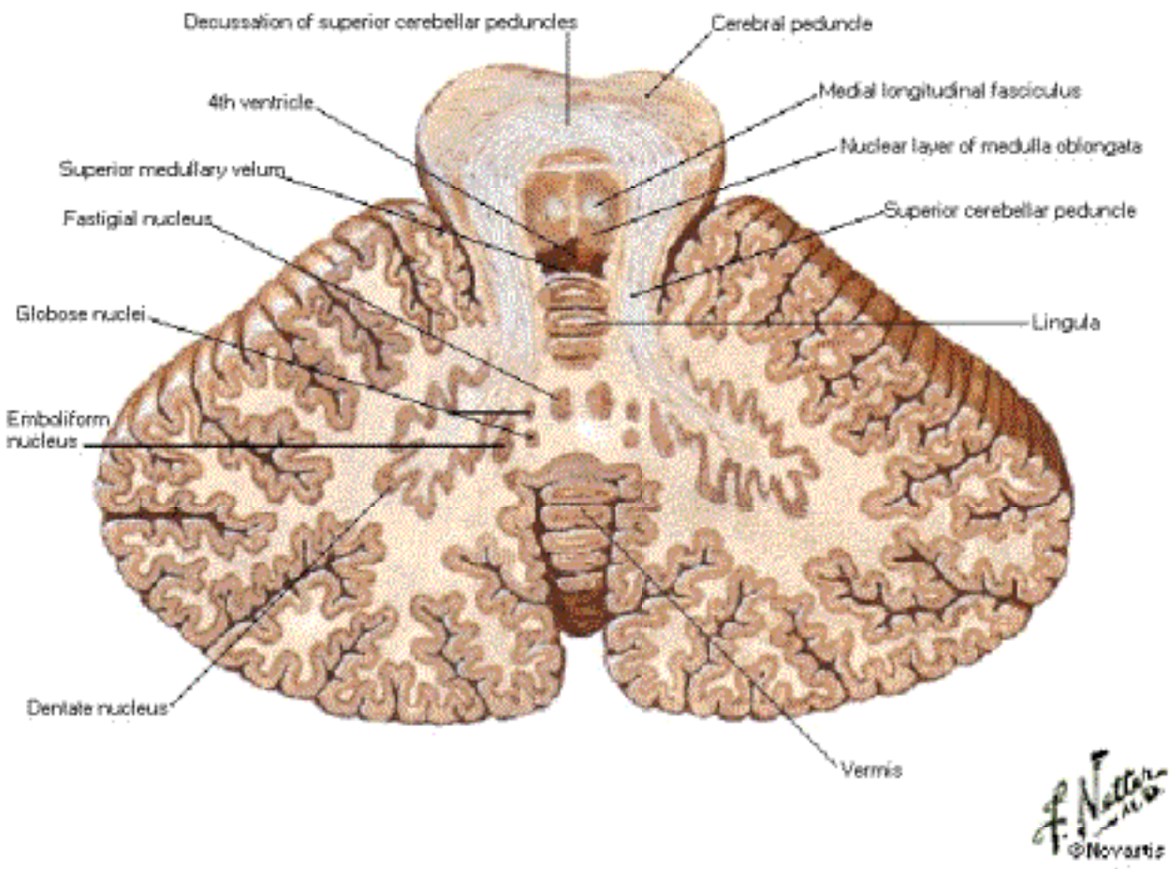
Cerebellum

Inferior Surface



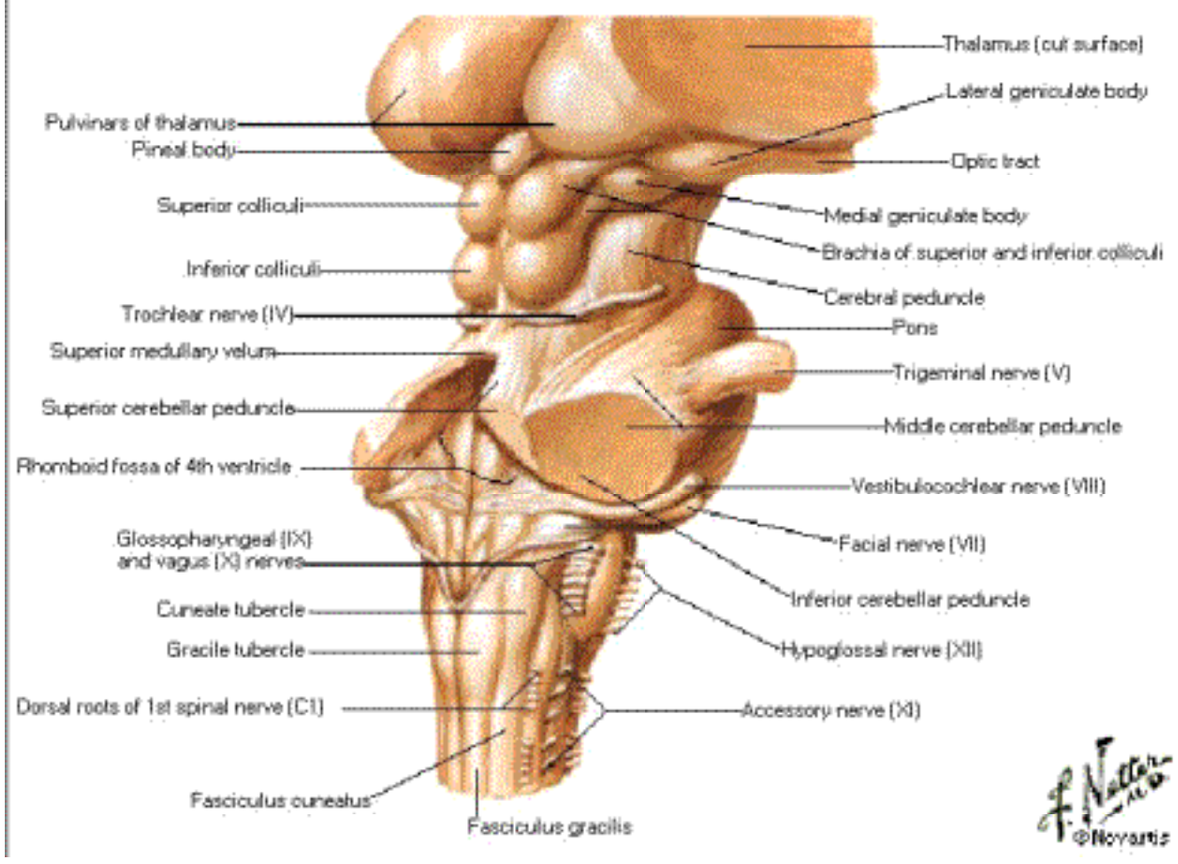
Cerebellum

Section in Plane of Superior Cerebellar Peduncle



Brainstem

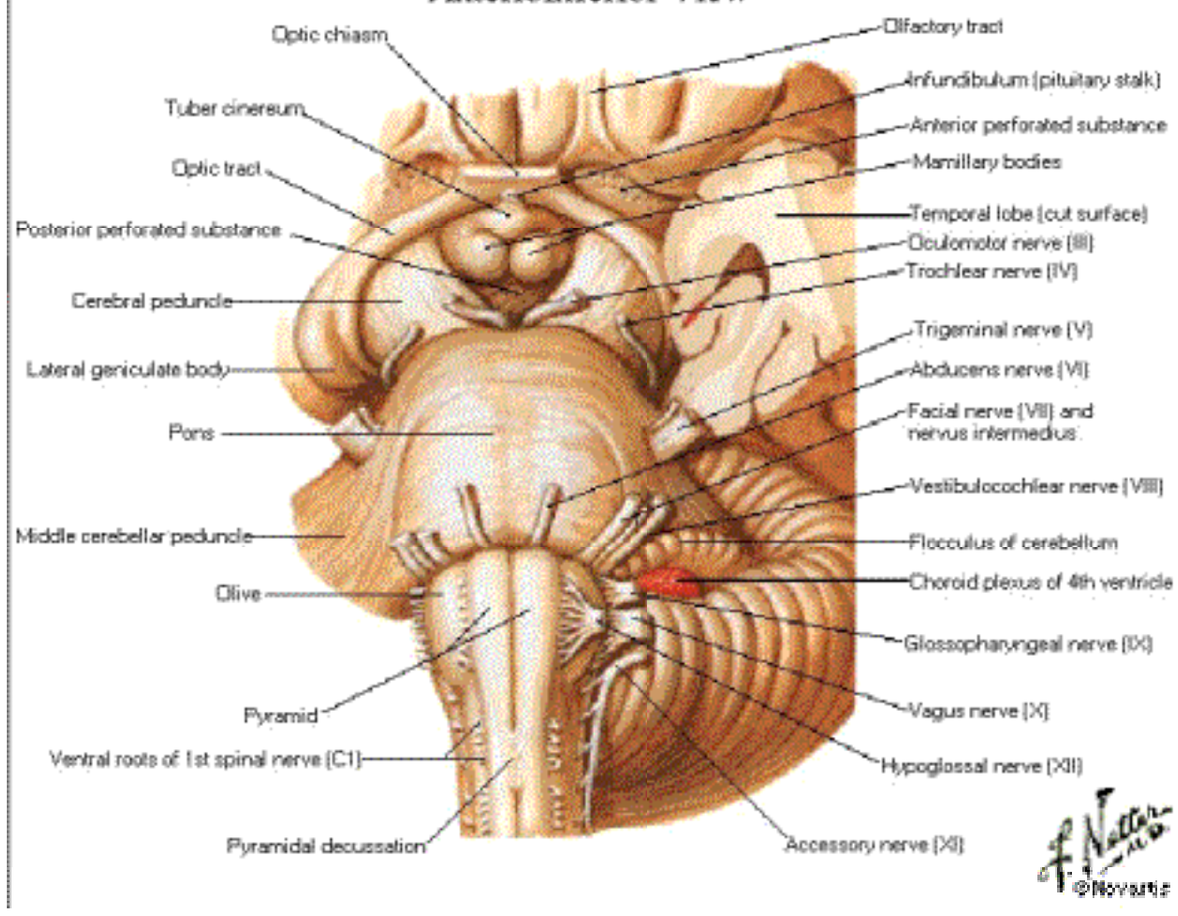
Posterolateral View



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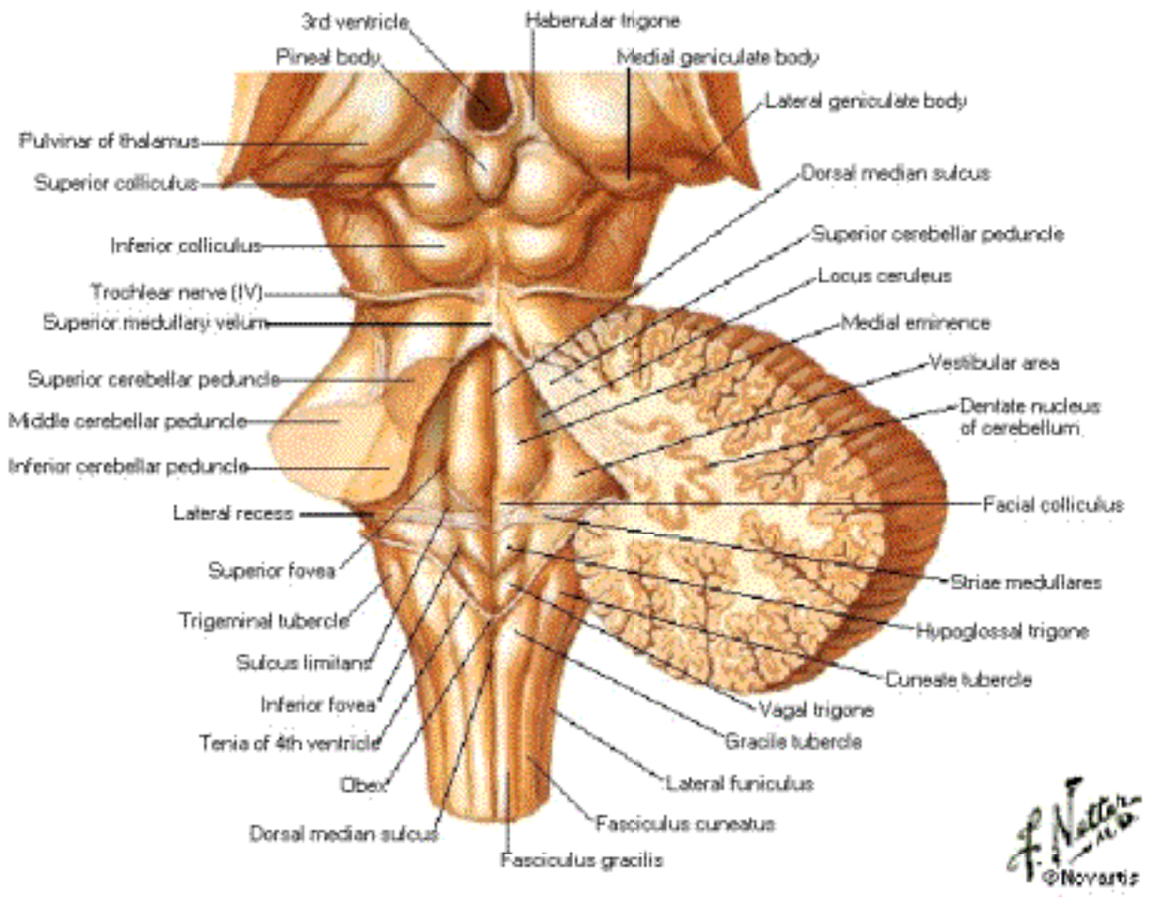
Brainstem

Anterioinferior View



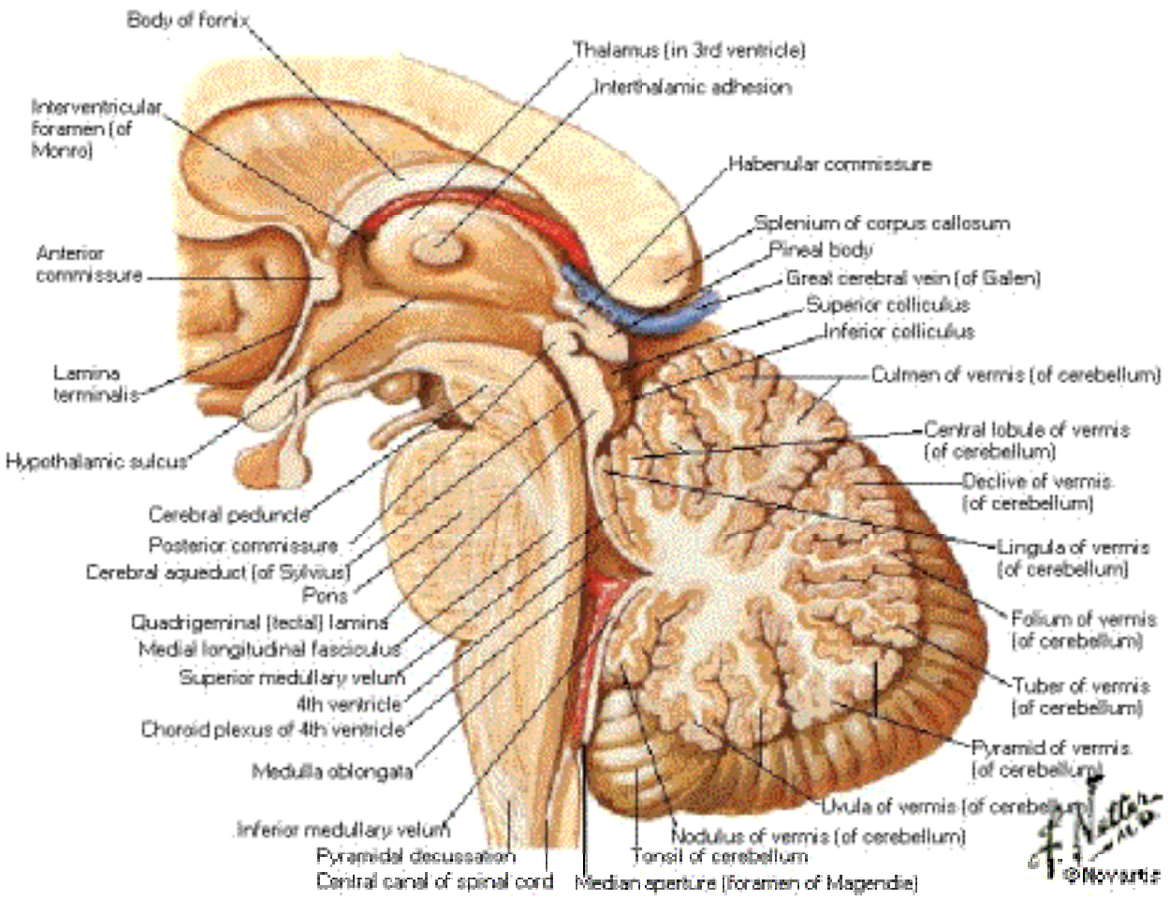
Fourth Ventricle and Cerebellum

Posterior View



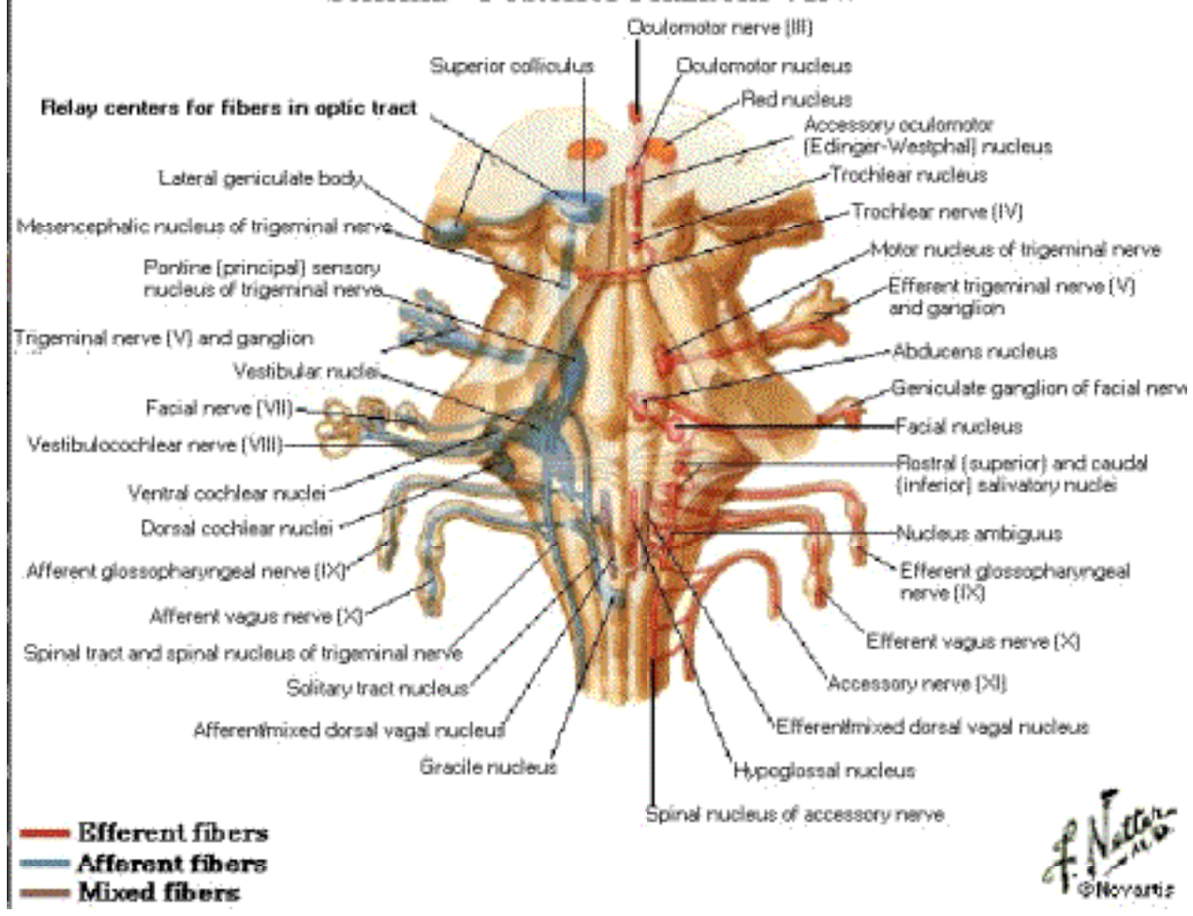
Fourth Ventricle and Cerebellum

Median Sagittal Section



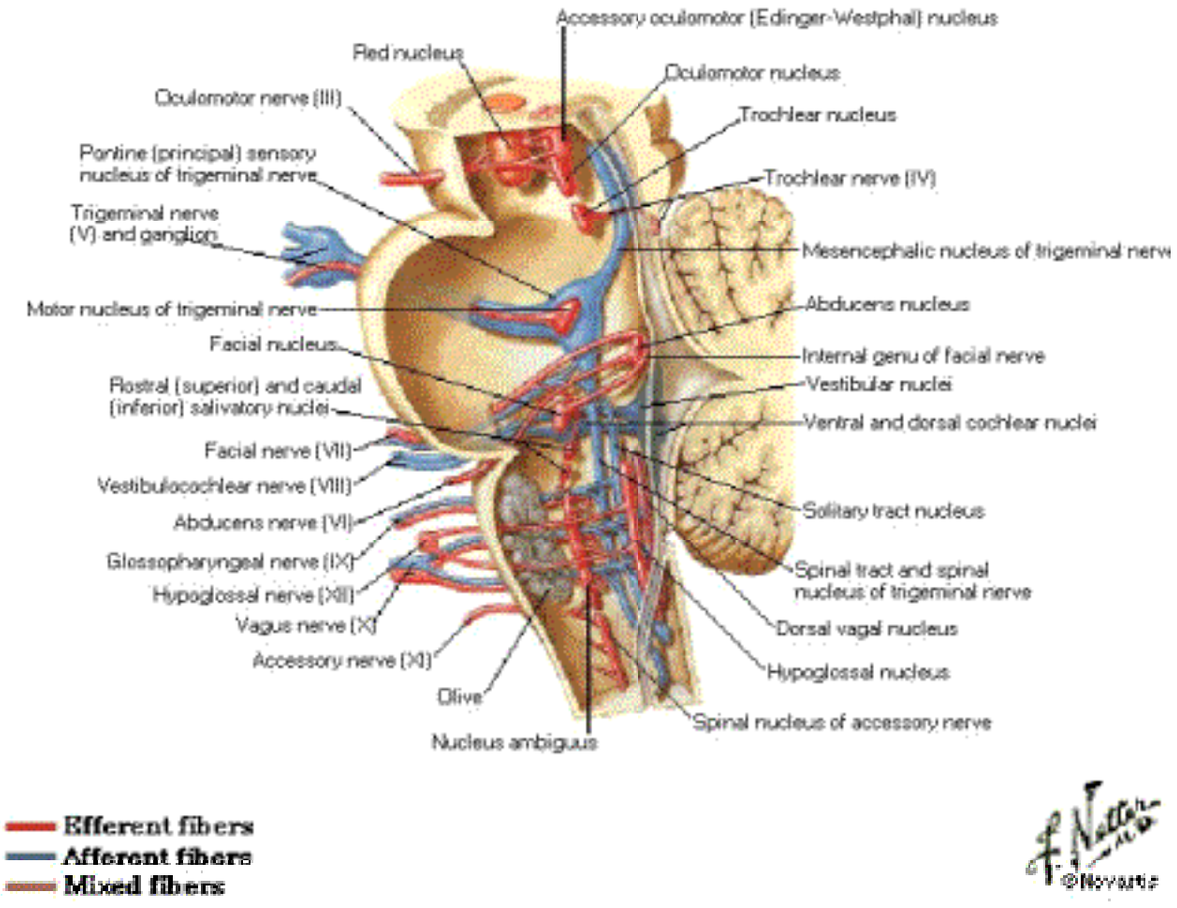
Cranial Nerve Nuclei in Brainstem

Schema - Posterior Phantom View



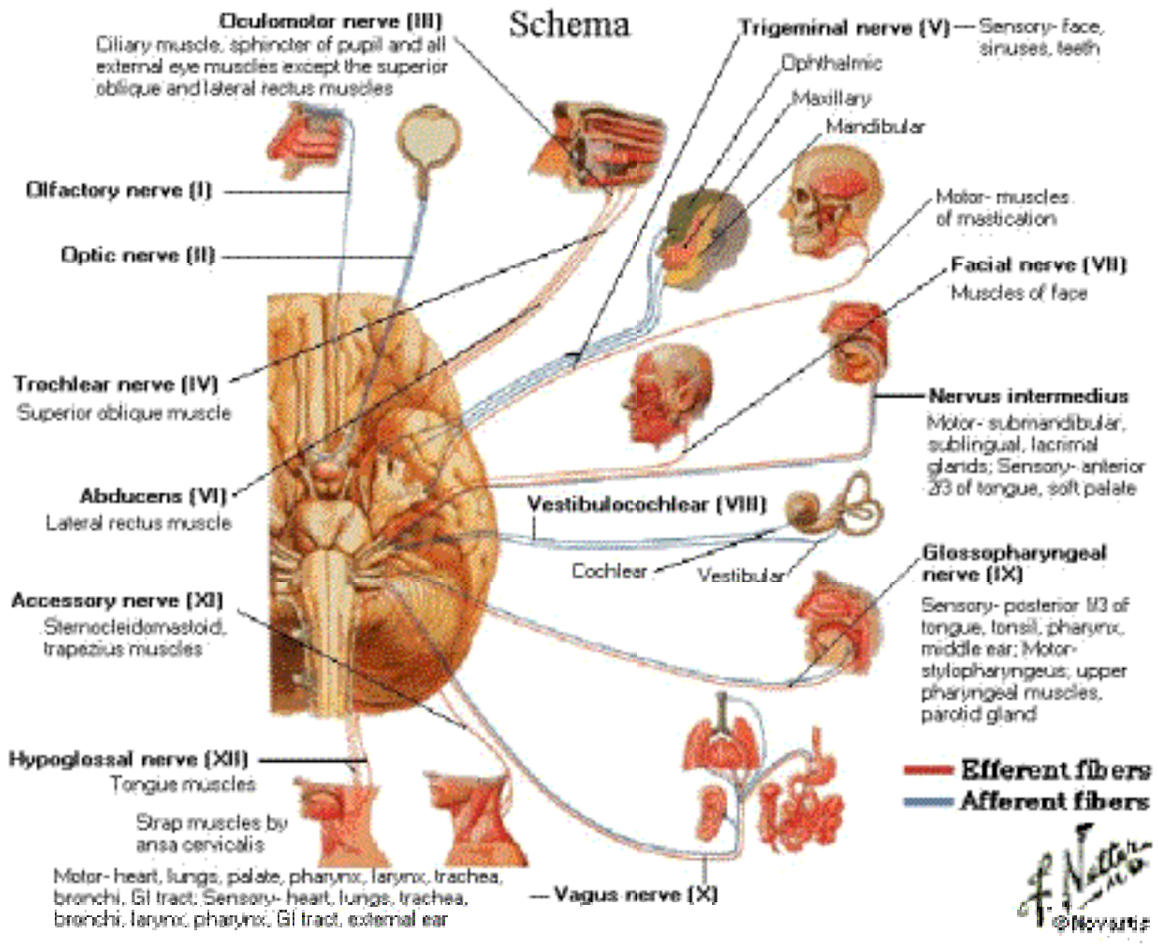
Cranial Nerve Nuclei in Brainstem

Schema - Medial Dissection



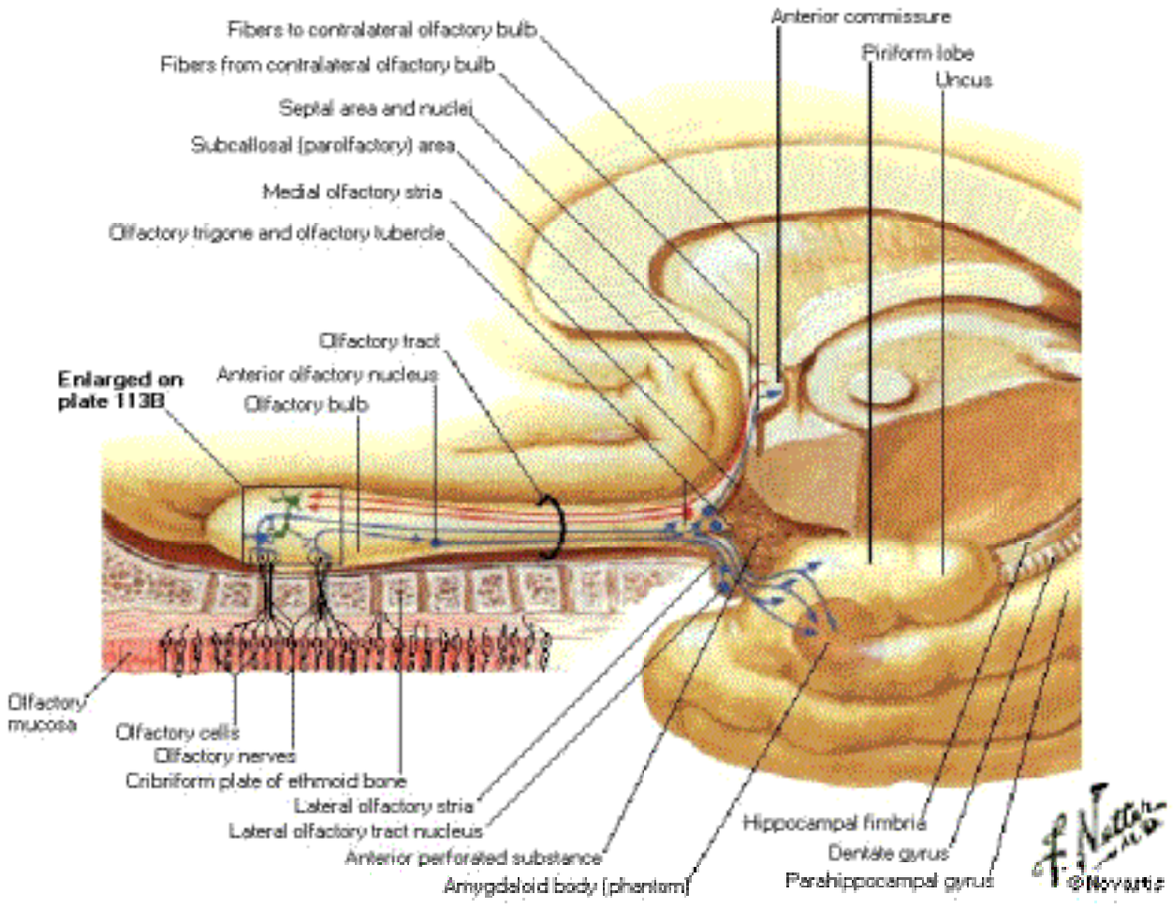
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Cranial Nerves [Motor and Sensory Distribution]



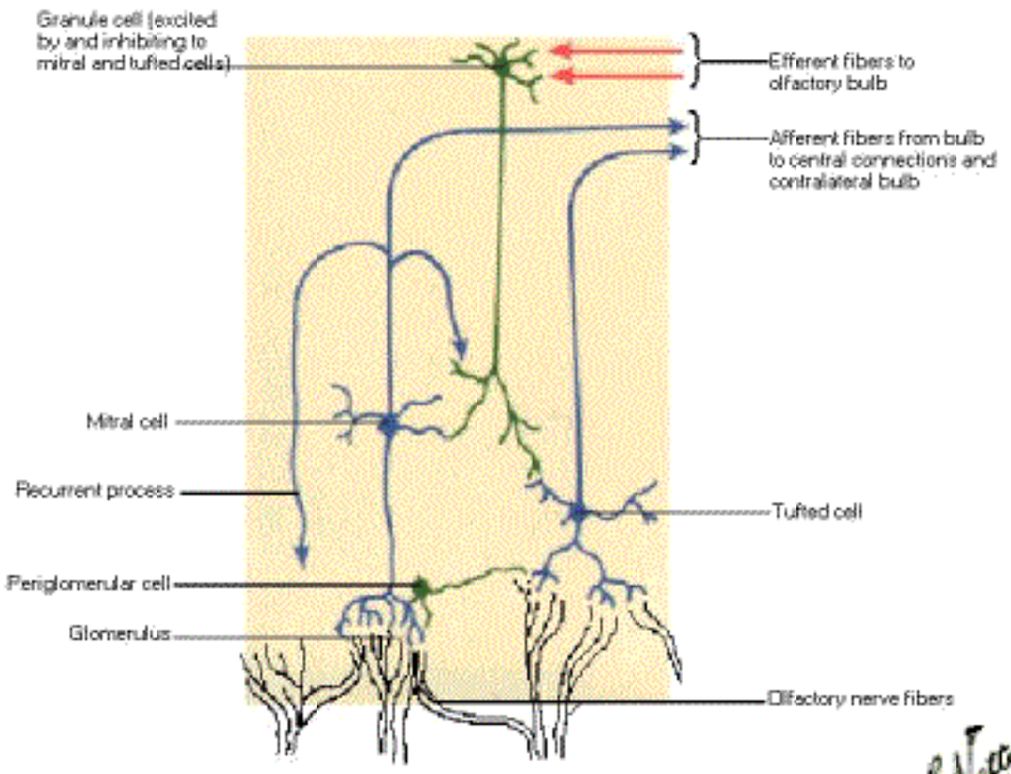
Olfactory Nerve

Schema



Olfactory Nerve - Olfactory Bulb Cells

Schema

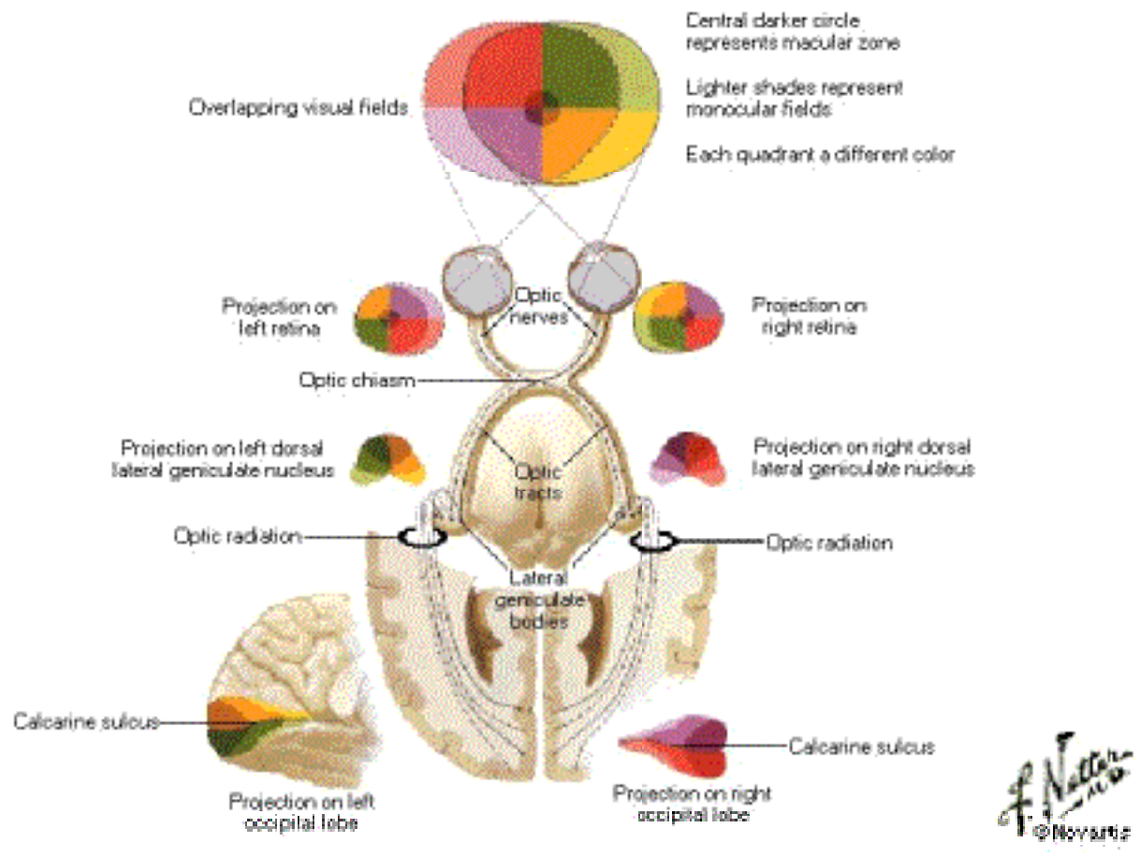


Schema of outlined area on plate 113A

©Novartis

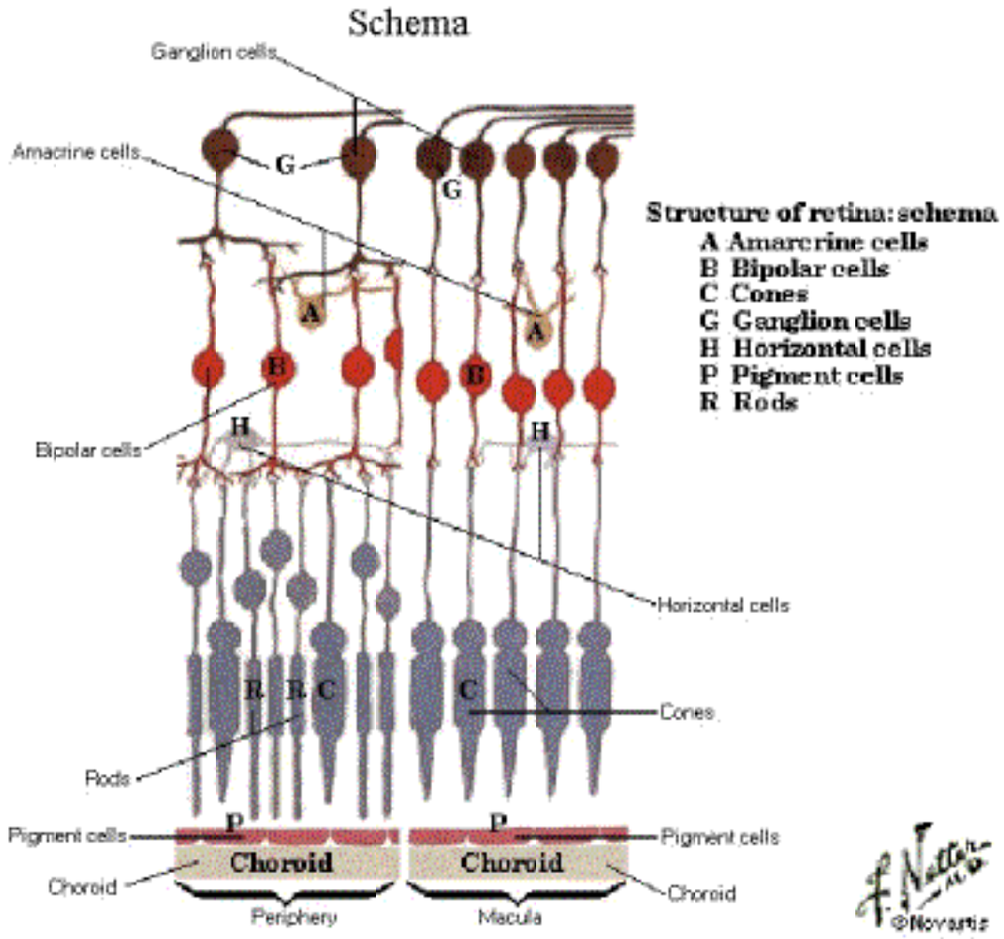
Optic Nerve [Visual Pathway]

Schema



Optic Nerve [Visual Pathway] - Structure of Retina

Schema



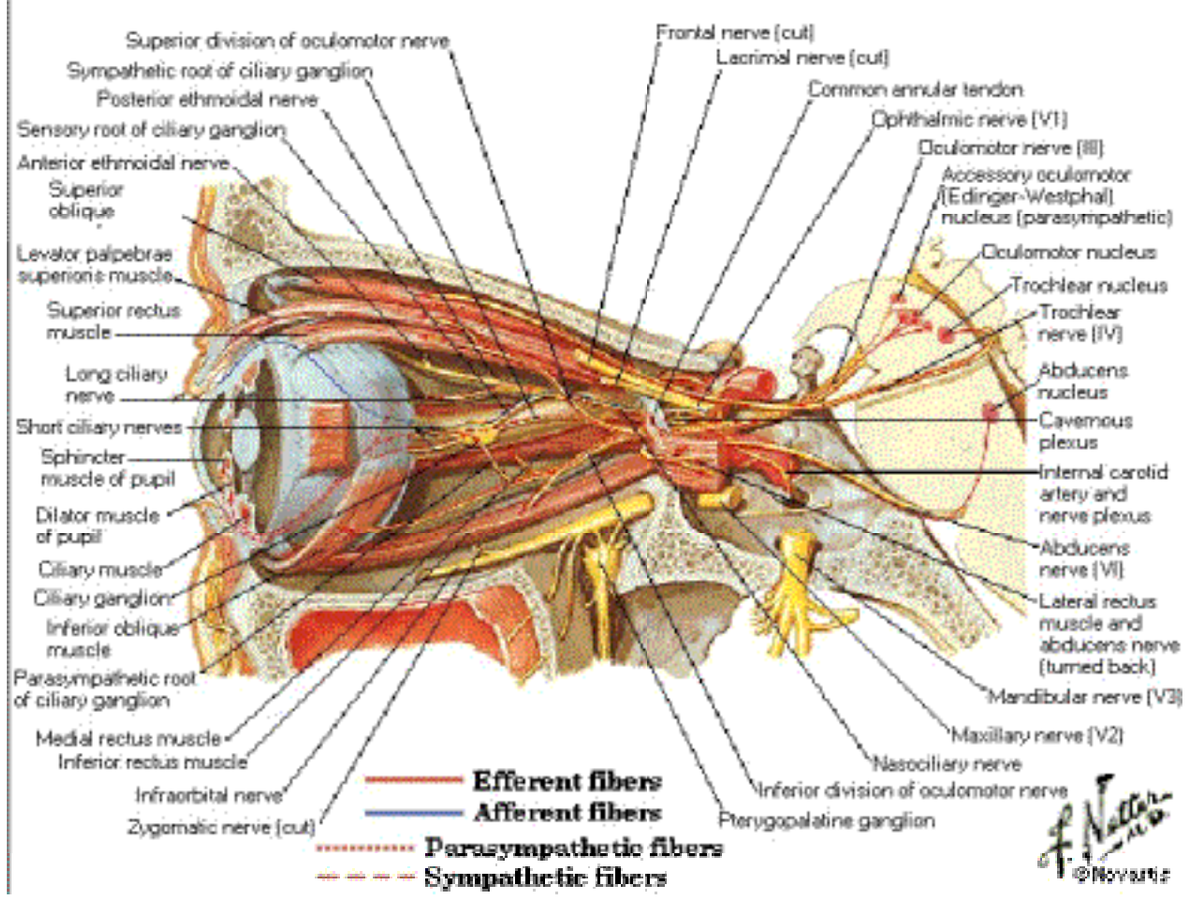
Structure of retina: schema

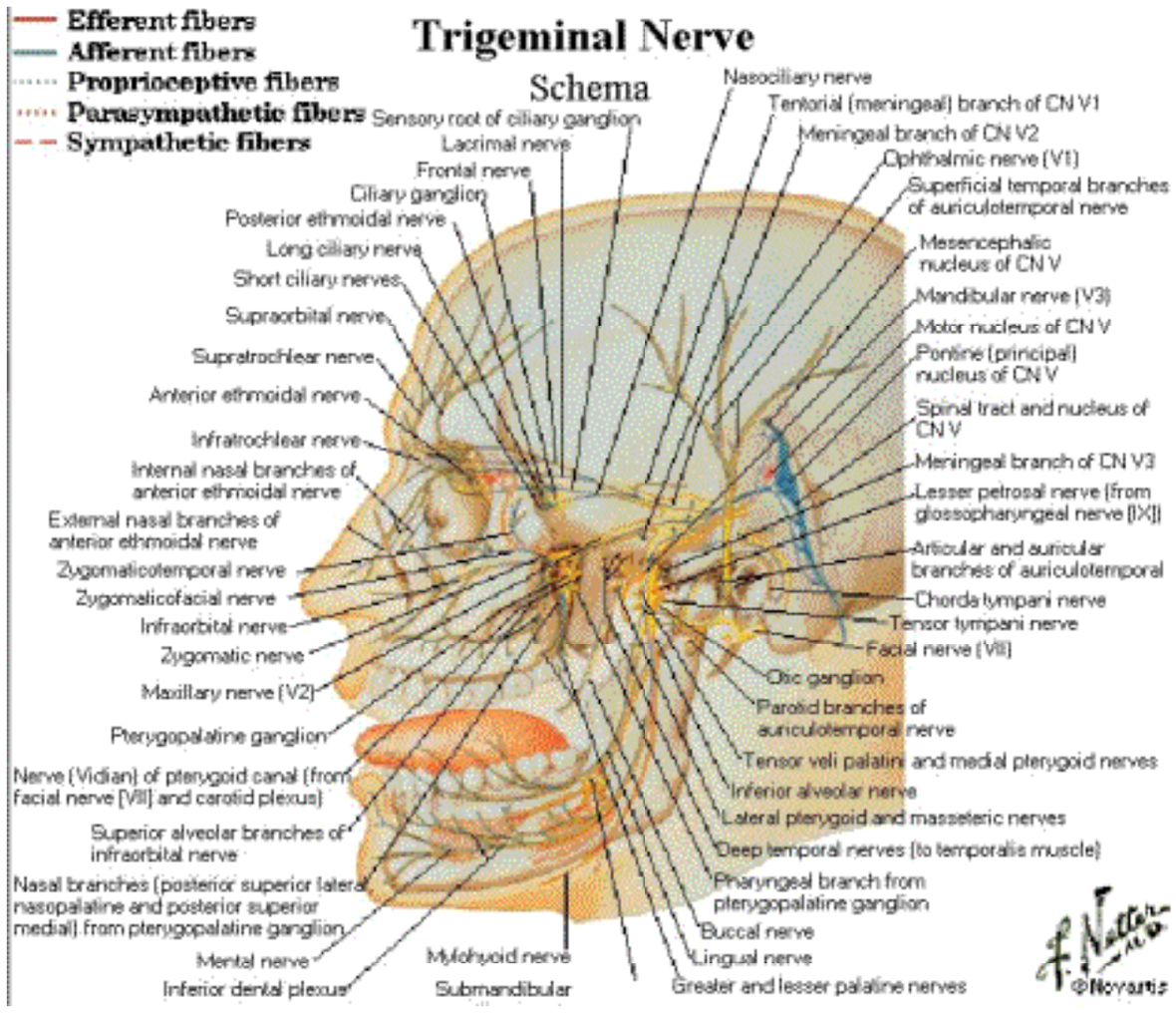
A Amacrine cells
B Bipolar cells
C Cones
G Ganglion cells
H Horizontal cells
P Pigment cells
R Rods

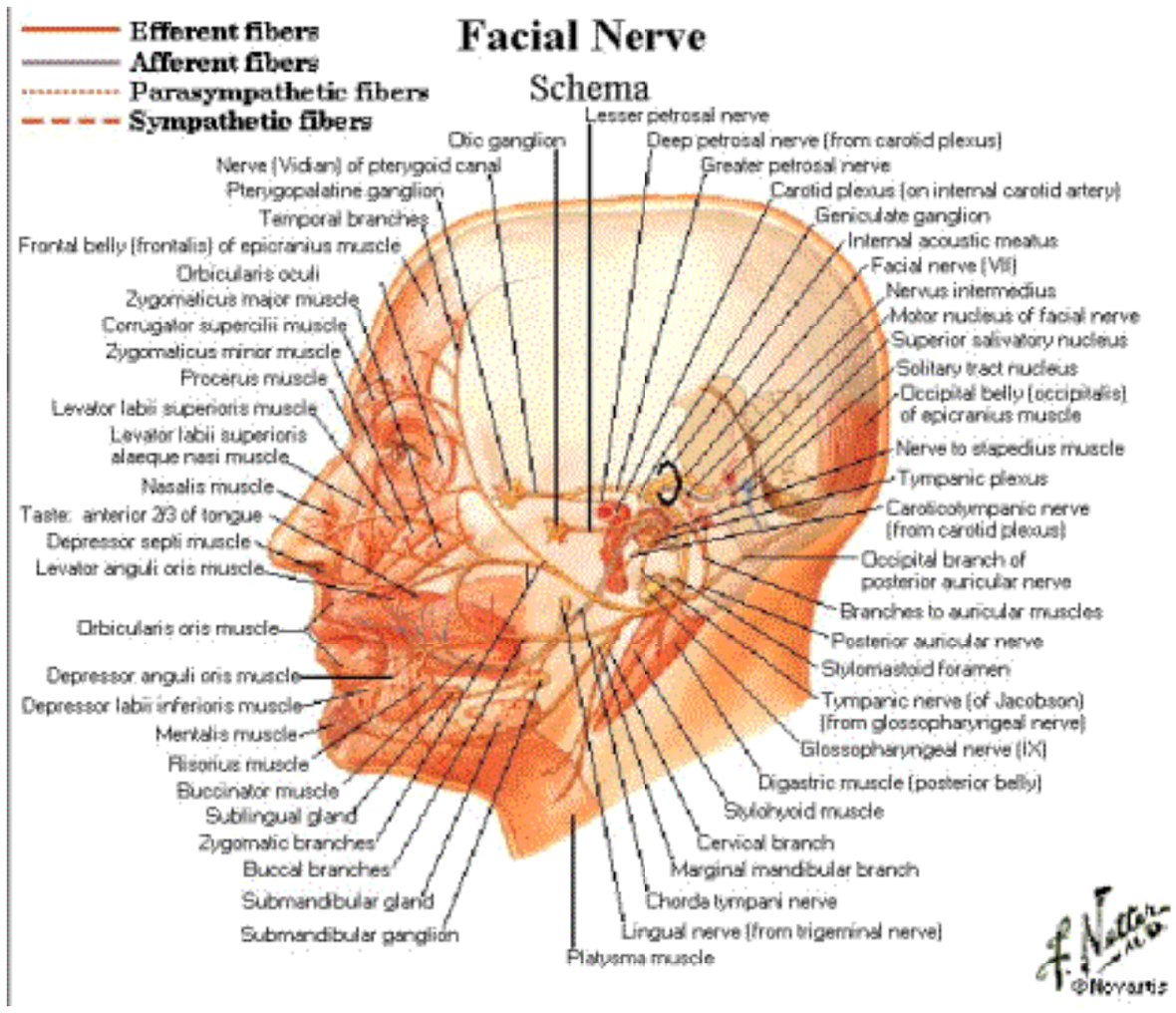
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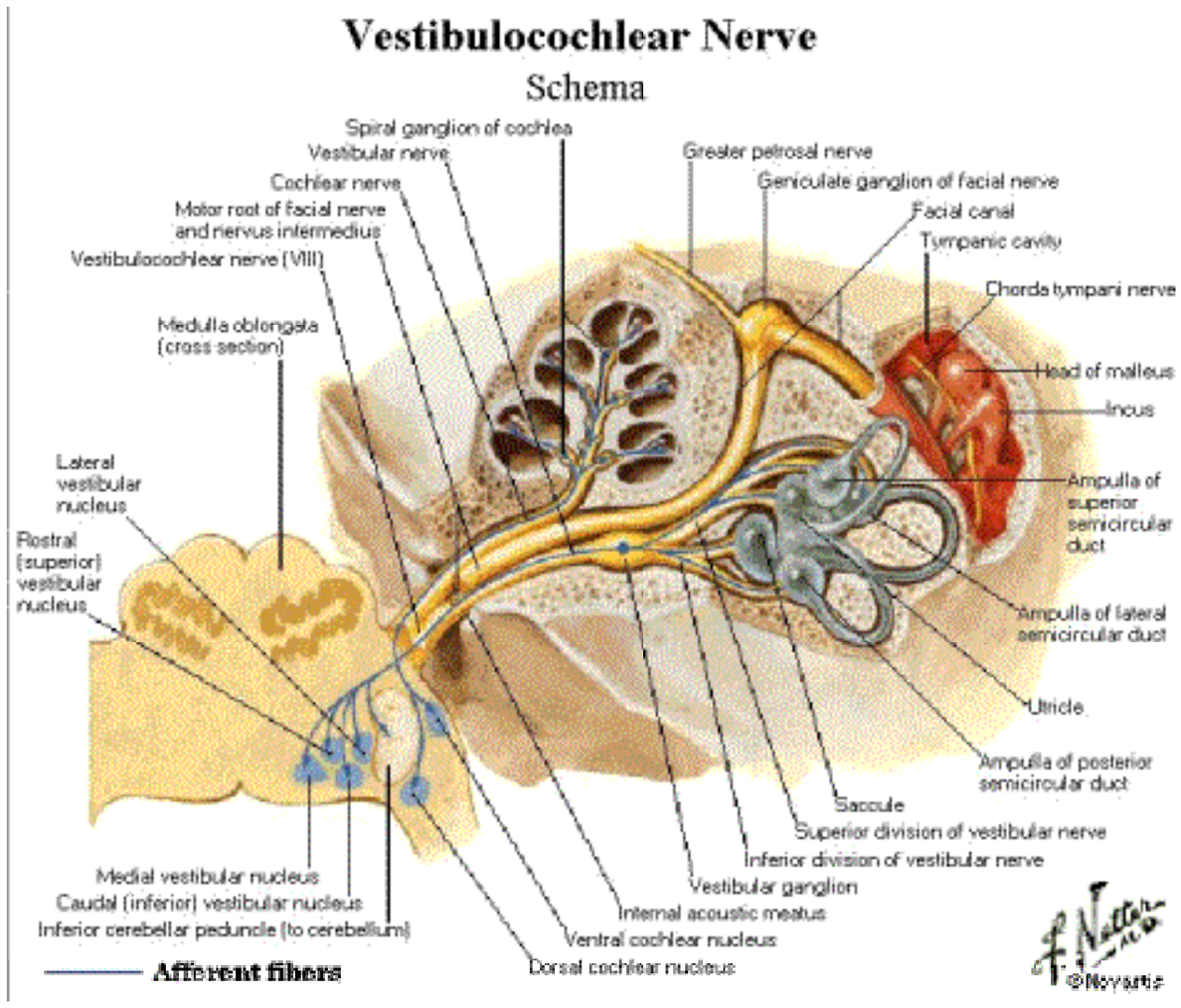
Oculomotor, Trochlear and Abducens Nerves

Schema



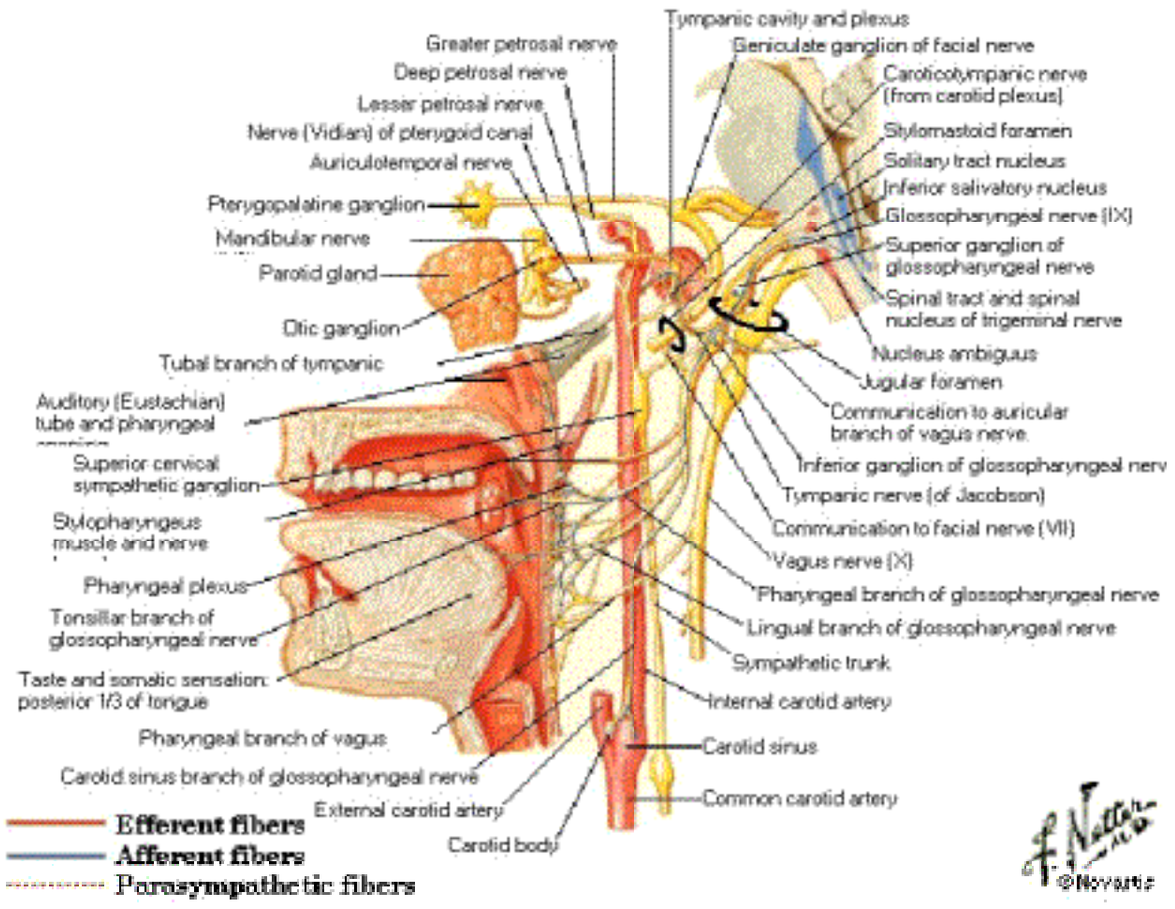

Efferent fibers
Afferent fibers
Proprioceptive fibers
Parasympathetic fibers
Sympathetic fibers
Trigeminal Nerve
Schema
Sensory root of ciliary ganglion
Lacrimal nerve
Frontal nerve
Ciliary ganglion
Posterior ethmoidal nerve
Long ciliary nerve
Short ciliary nerves
Supraorbital nerve
Supratrochlear nerve
Anterior ethmoidal nerve
Infratrochlear nerve
Internal nasal branches of anterior ethmoidal nerve
External nasal branches of anterior ethmoidal nerve
Zygomaticotemporal nerve
Zygomaticofacial nerve
Infraorbital nerve
Zygomatic nerve
Maxillary nerve (V2)
Pterygopalatine ganglion
Nerve (Vidian) of pterygoid canal (from facial nerve [VII] and carotid plexus)
Superior alveolar branches of infraorbital nerve
Nasal branches (posterior superior lateral nasopalatine and posterior superior medial) from pterygopalatine ganglion
Mental nerve
Inferior dental plexus
Mylohyoid nerve
Submandibular
Nasociliary nerve
Tentorial (meningeal) branch of CN V1
Meningeal branch of CN V2
Ophthalmic nerve (V1)
Superficial temporal branches of auriculotemporal nerve
Mesencephalic nucleus of CN V
Mandibular nerve (V3)
Motor nucleus of CN V
Pontine (principal) nucleus of CN V
Spinal tract and nucleus of CN V
Meningeal branch of CN V3
Lesser petrosal nerve (from glossopharyngeal nerve [IX])
Articular and auricular branches of auriculotemporal
Chorda tympani nerve
Tensor tympani nerve
Facial nerve (VII)
Otic ganglion
Parotid branches of auriculotemporal nerve
Tensor veli palatini and medial pterygoid nerves
Inferior alveolar nerve
Lateral pterygoid and masseteric nerves
Deep temporal nerves (to temporalis muscle)
Pharyngeal branch from pterygopalatine ganglion
Buccal nerve
Lingual nerve
Greater and lesser palatine nerves
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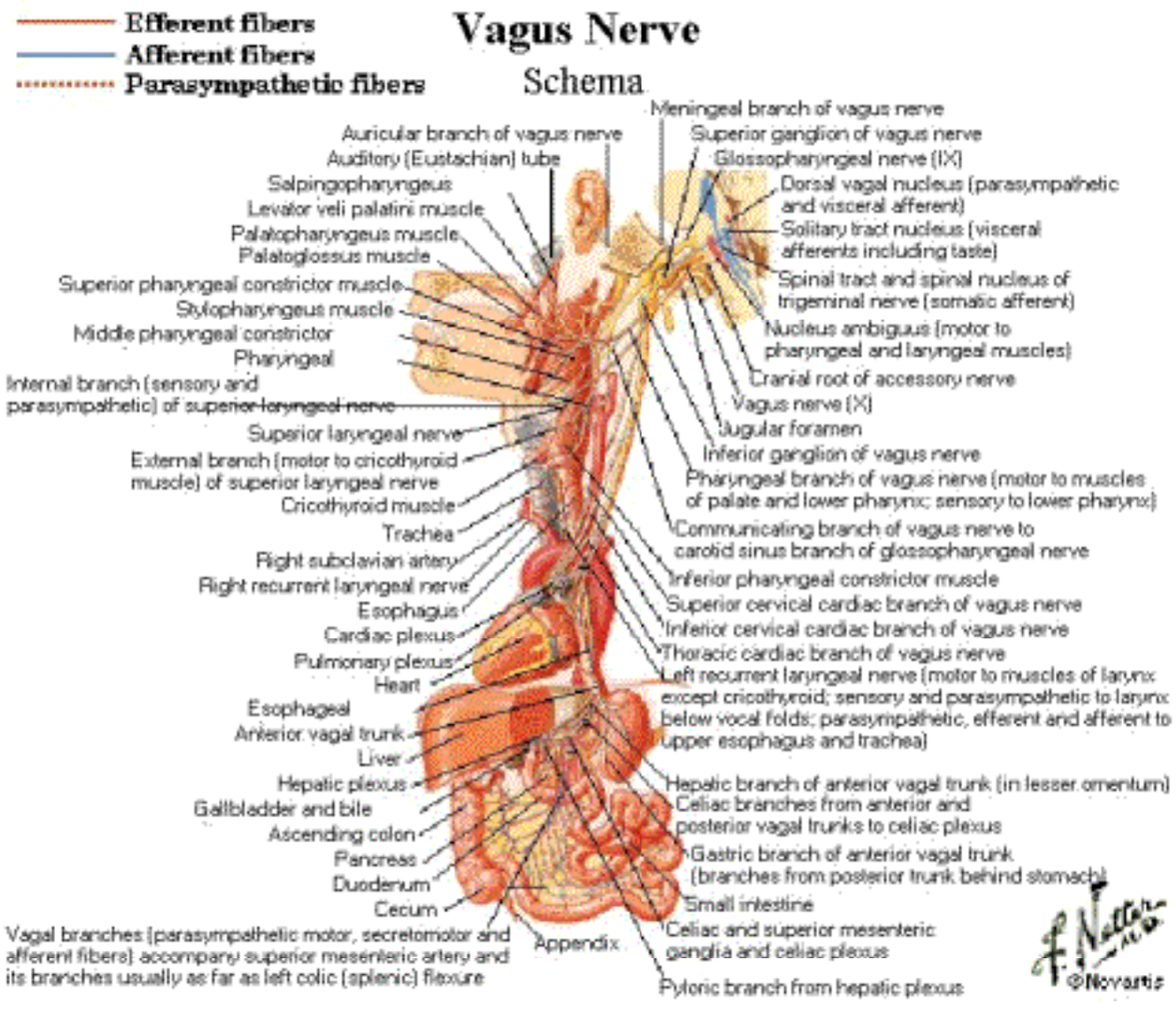

Efferent fibers
Afferent fibers
Parasympathetic fibers
Sympathetic fibers
Facial Nerve
Schema
Lesser petrosal nerve
Otic ganglion
Deep petrosal nerve (from carotid plexus)
Nerve (Vidian) of pterygoid canal
Greater petrosal nerve
Pterygopalatine ganglion
Carotid plexus (on internal carotid artery)
Temporal branches
Geniculate ganglion
Frontal belly (frontalis) of epicranius muscle
Internal acoustic meatus
Orbicularis oculi
Facial nerve (VII)
Zygomaticus major muscle
Nervus intermedius
Corrugator supercilii muscle
Motor nucleus of facial nerve
Zygomaticus minor muscle
Superior salivatory nucleus
Procerus muscle
Solitary tract nucleus
Levator labii superioris muscle
Occipital belly (occipitalis) of epicranius muscle
Levator labii superioris alaeque nasi muscle
Nerve to stapedius muscle
Nasalis muscle
Tympanic plexus
Taste: anterior 2/3 of tongue
Caroticotympanic nerve (from carotid plexus)
Depressor septi muscle
Levator anguli oris muscle
Occipital branch of posterior auricular nerve
Orbicularis oris muscle
Branches to auricular muscles
Posterior auricular nerve
Depressor anguli oris muscle
Stylomastoid foramen
Depressor labii inferioris muscle
Tympanic nerve (of Jacobson) [from glossopharyngeal nerve]
Mentalis muscle
Glossopharyngeal nerve (IX)
Risorius muscle
Digastric muscle (posterior belly)
Buccinator muscle
Stylohyoid muscle
Sublingual gland
Zygomatic branches
Cervical branch
Buccal branches
Marginal mandibular branch
Submandibular gland
Chorda tympani nerve
Submandibular ganglion
Lingual nerve (from trigeminal nerve)
Platysma muscle
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Vestibulocochlear Nerve
Schema
Spiral ganglion of cochlea
Vestibular nerve
Cochlear nerve
Motor root of facial nerve and nervus intermedius
Vestibulocochlear nerve (VIII)
Medulla oblongata (cross section)
Lateral vestibular nucleus
Rostral (superior) vestibular nucleus
Medial vestibular nucleus
Caudal (inferior) vestibular nucleus
Inferior cerebellar peduncle (to cerebellum)
Afferent fibers
Greater petrosal nerve
Geniculate ganglion of facial nerve
Facial canal
Tympanic cavity
Chorda tympani nerve
Head of malleus
Incus
Ampulla of superior semicircular duct
Ampulla of lateral semicircular duct
Utricle
Ampulla of posterior semicircular duct
Saccule
Superior division of vestibular nerve
Inferior division of vestibular nerve
Vestibular ganglion
Internal acoustic meatus
Ventral cochlear nucleus
Dorsal cochlear nucleus

Glossopharyngeal Nerve

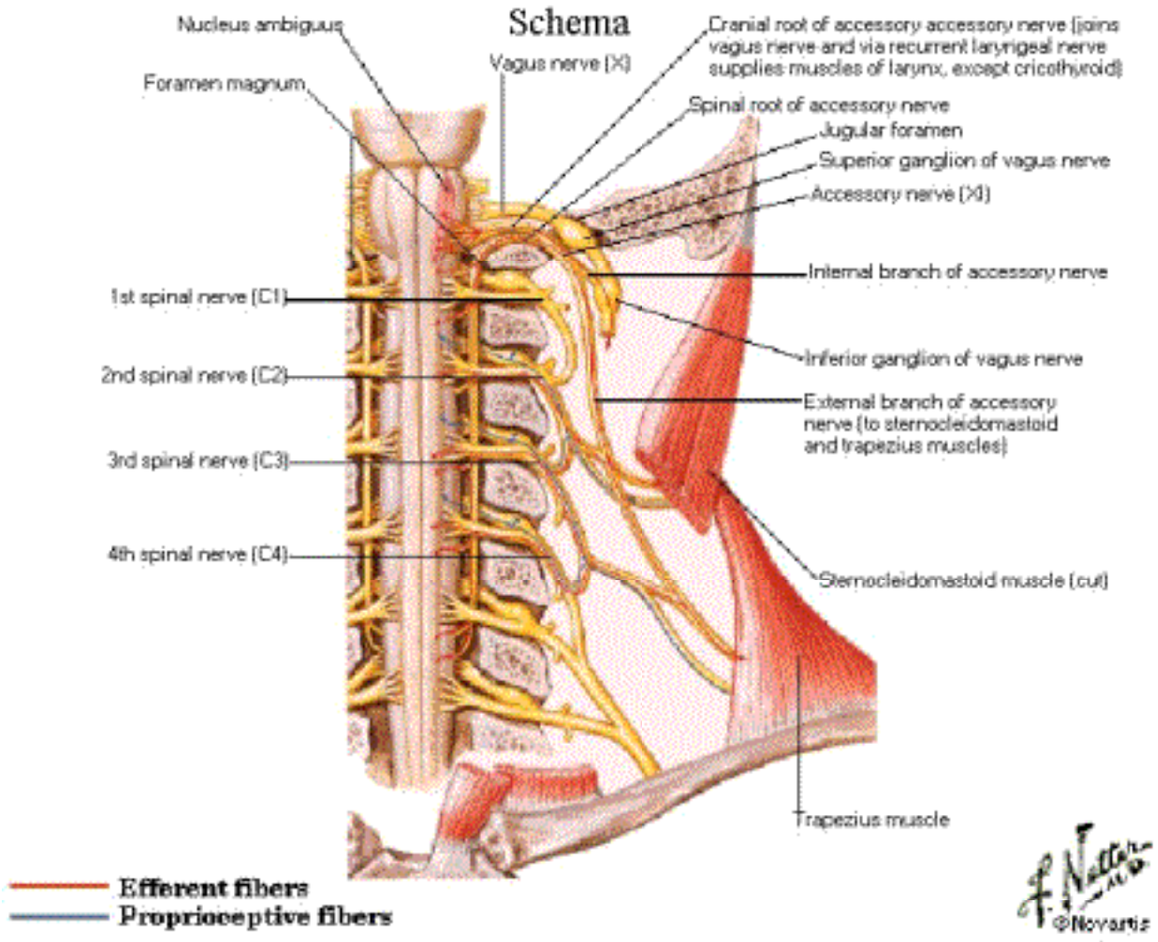
Schema




Efferent fibers
Afferent fibers
Parasympathetic fibers
Vagus Nerve
Schema
Auricular branch of vagus nerve
Auditory (Eustachian) tube
Salpingopharyngeus
Levator veli palatini muscle
Palatopharyngeus muscle
Palatoglossus muscle
Superior pharyngeal constrictor muscle
Stylopharyngeus muscle
Middle pharyngeal constrictor
Pharyngeal
Internal branch (sensory and parasympathetic) of superior laryngeal nerve
Superior laryngeal nerve
External branch (motor to cricothyroid muscle) of superior laryngeal nerve
Cricothyroid muscle
Trachea
Right subclavian artery
Right recurrent laryngeal nerve
Esophagus
Cardiac plexus
Pulmonary plexus
Heart
Esophageal
Anterior vagal trunk
Liver
Hepatic plexus
Gallbladder and bile
Ascending colon
Pancreas
Duodenum
Cecum
Appendix
Vagal branches (parasympathetic motor, secretomotor and afferent fibers) accompany superior mesenteric artery and its branches usually as far as left colic (splenic) flexure
Meningeal branch of vagus nerve
Superior ganglion of vagus nerve
Glossopharyngeal nerve (IX)
Dorsal vagal nucleus (parasympathetic and visceral afferent)
Solitary tract nucleus (visceral afferents including taste)
Spinal tract and spinal nucleus of trigeminal nerve (somatic afferent)
Nucleus ambiguus (motor to pharyngeal and laryngeal muscles)
Cranial root of accessory nerve
Vagus nerve (X)
Jugular foramen
Inferior ganglion of vagus nerve
Pharyngeal branch of vagus nerve (motor to muscles of palate and lower pharynx; sensory to lower pharynx)
Communicating branch of vagus nerve to carotid sinus branch of glossopharyngeal nerve
Inferior pharyngeal constrictor muscle
Superior cervical cardiac branch of vagus nerve
Inferior cervical cardiac branch of vagus nerve
Thoracic cardiac branch of vagus nerve
Left recurrent laryngeal nerve (motor to muscles of larynx except cricothyroid; sensory and parasympathetic to larynx below vocal folds; parasympathetic, efferent and afferent to upper esophagus and trachea)
Hepatic branch of anterior vagal trunk (in lesser omentum)
Celiac branches from anterior and posterior vagal trunks to celiac plexus
Gastric branch of anterior vagal trunk (branches from posterior trunk behind stomach)
Small intestine
Celiac and superior mesenteric ganglia and celiac plexus
Pyloric branch from hepatic plexus
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Accessory Nerve

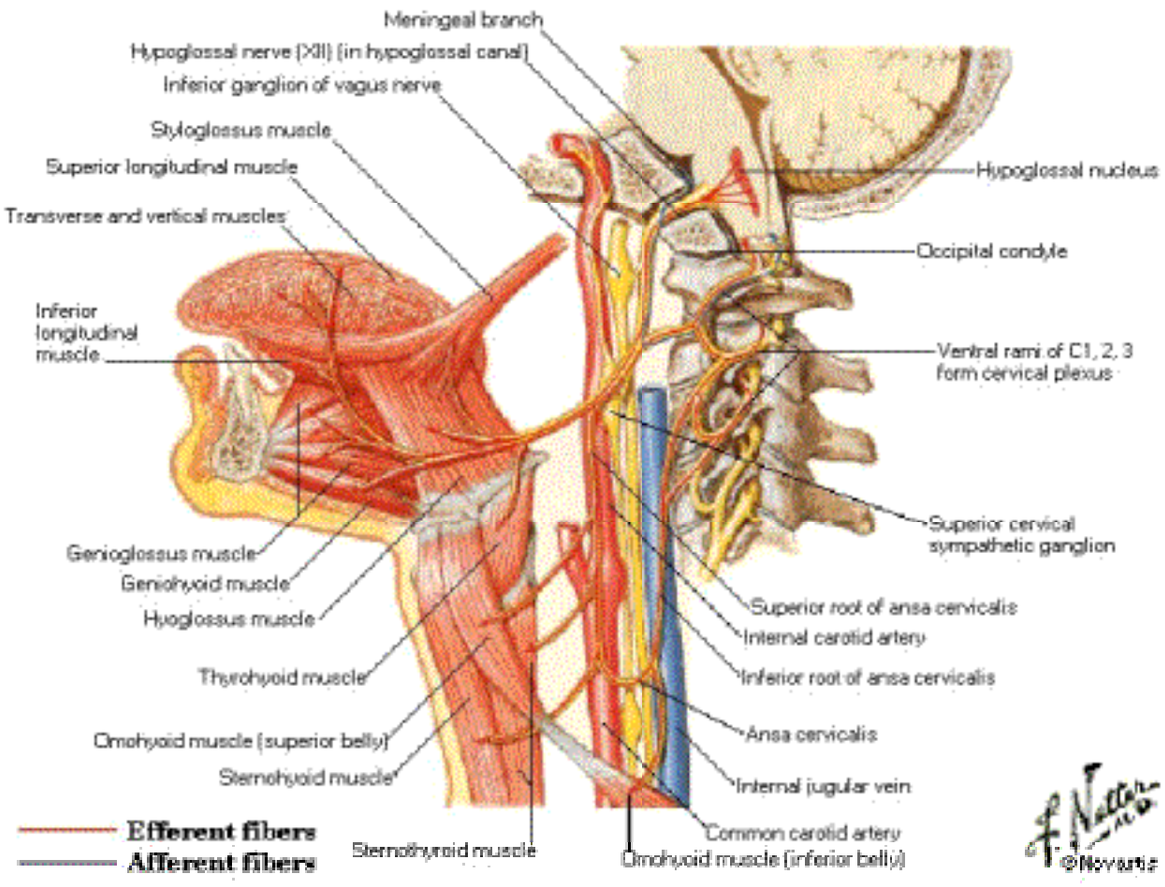
Schema



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Hypoglossal Nerve

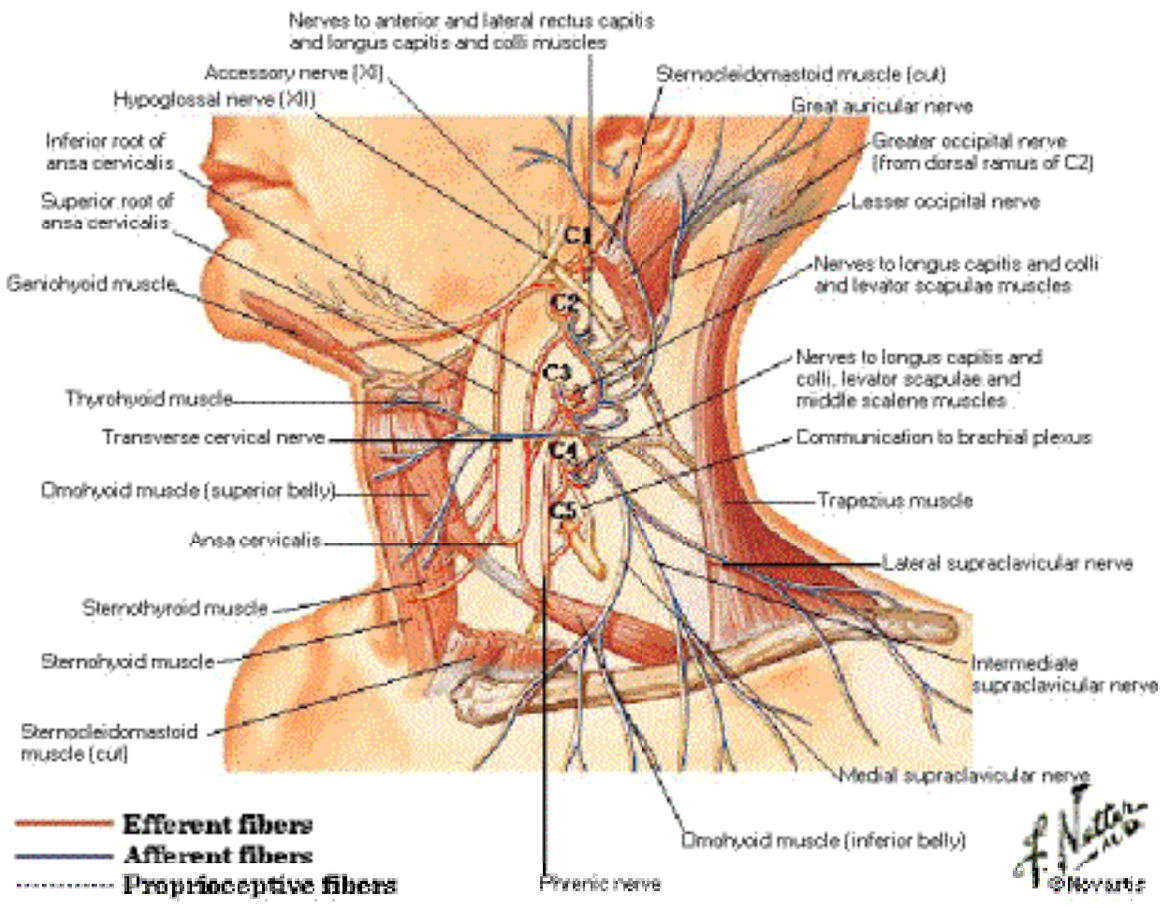
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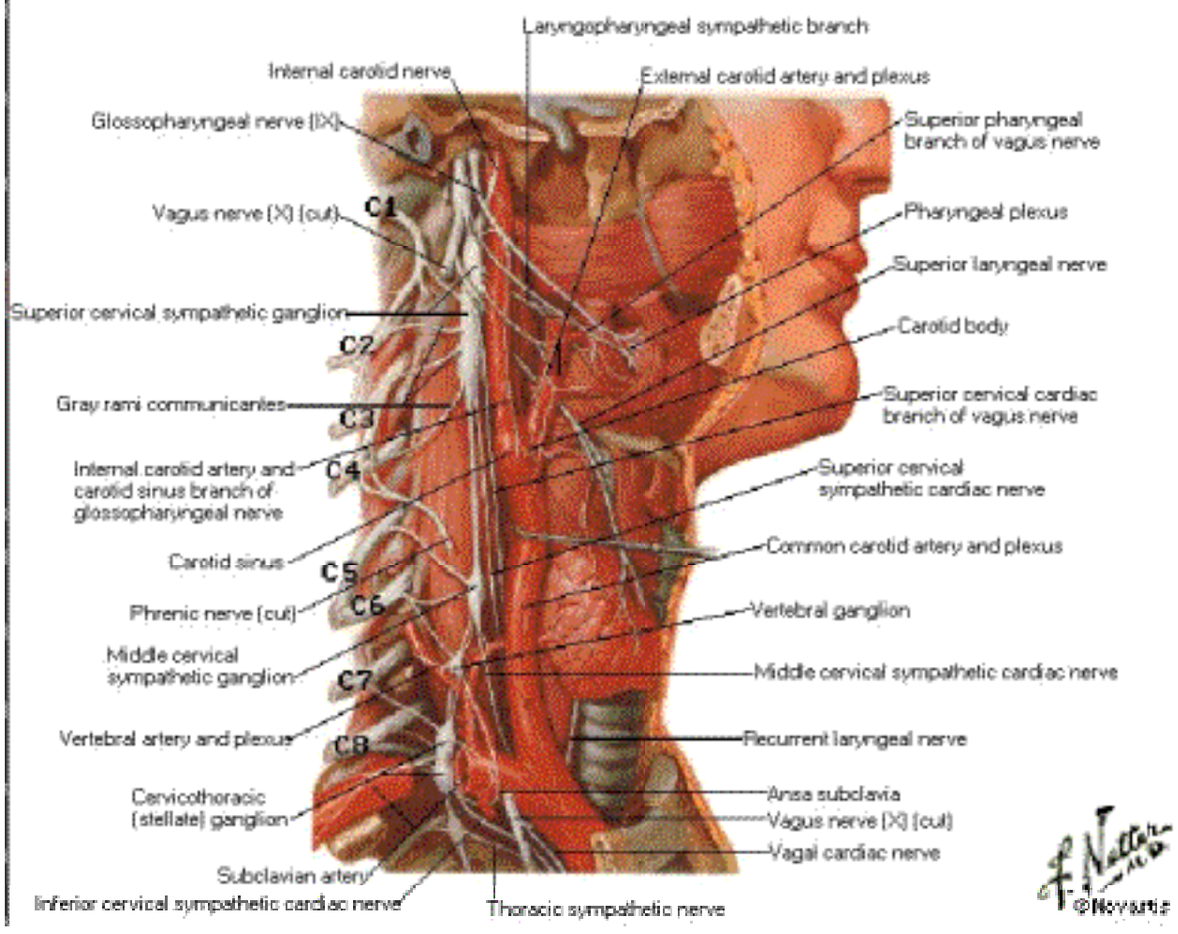
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Cervical Plexus

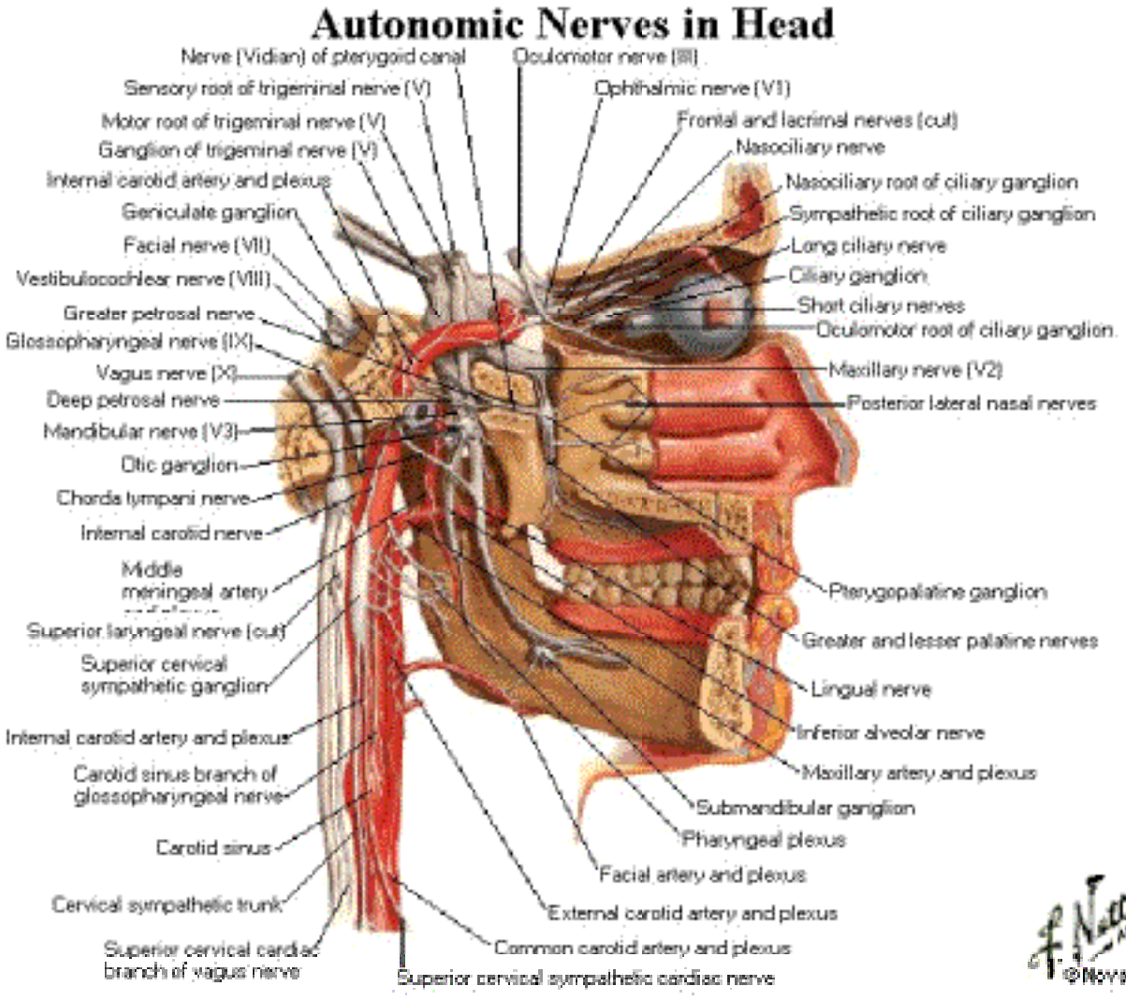
Schema



Autonomic Nerves in Neck



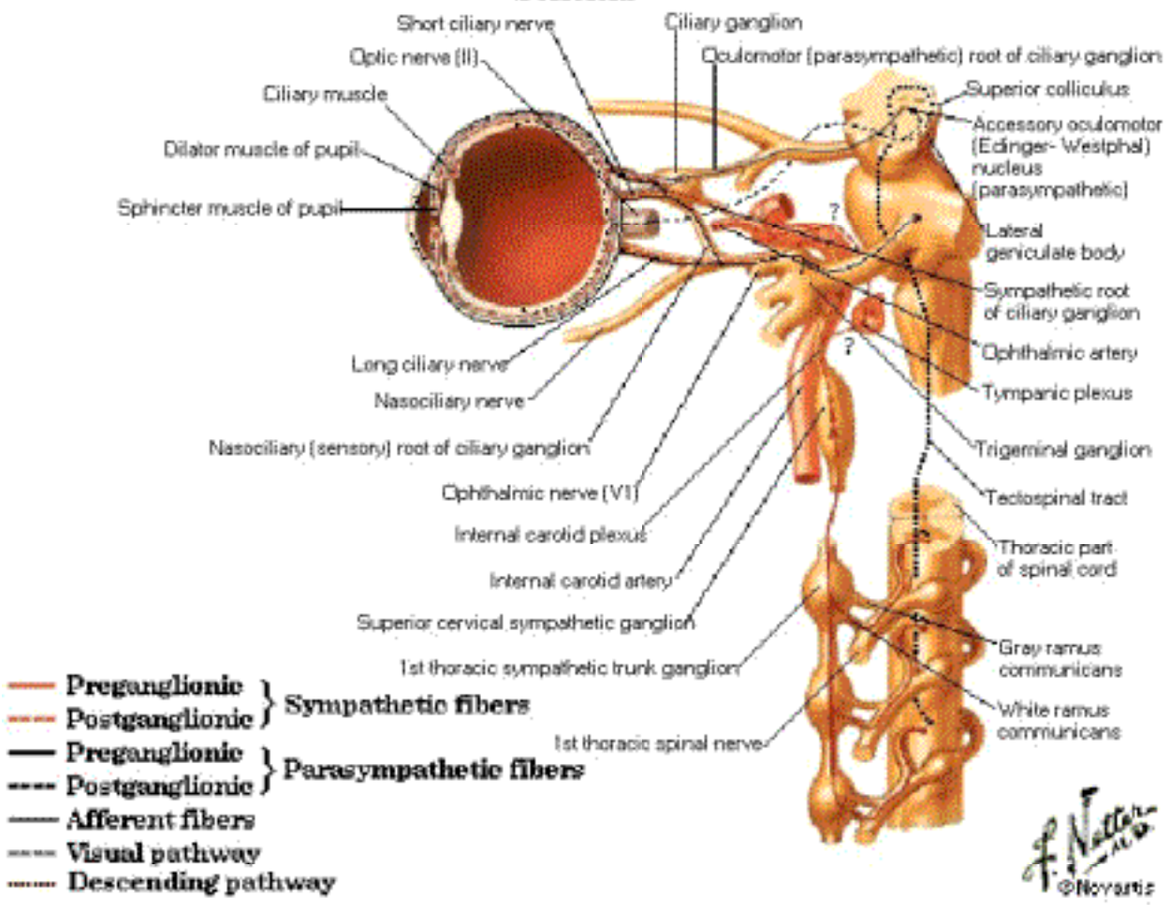
Autonomic Nerves in Head



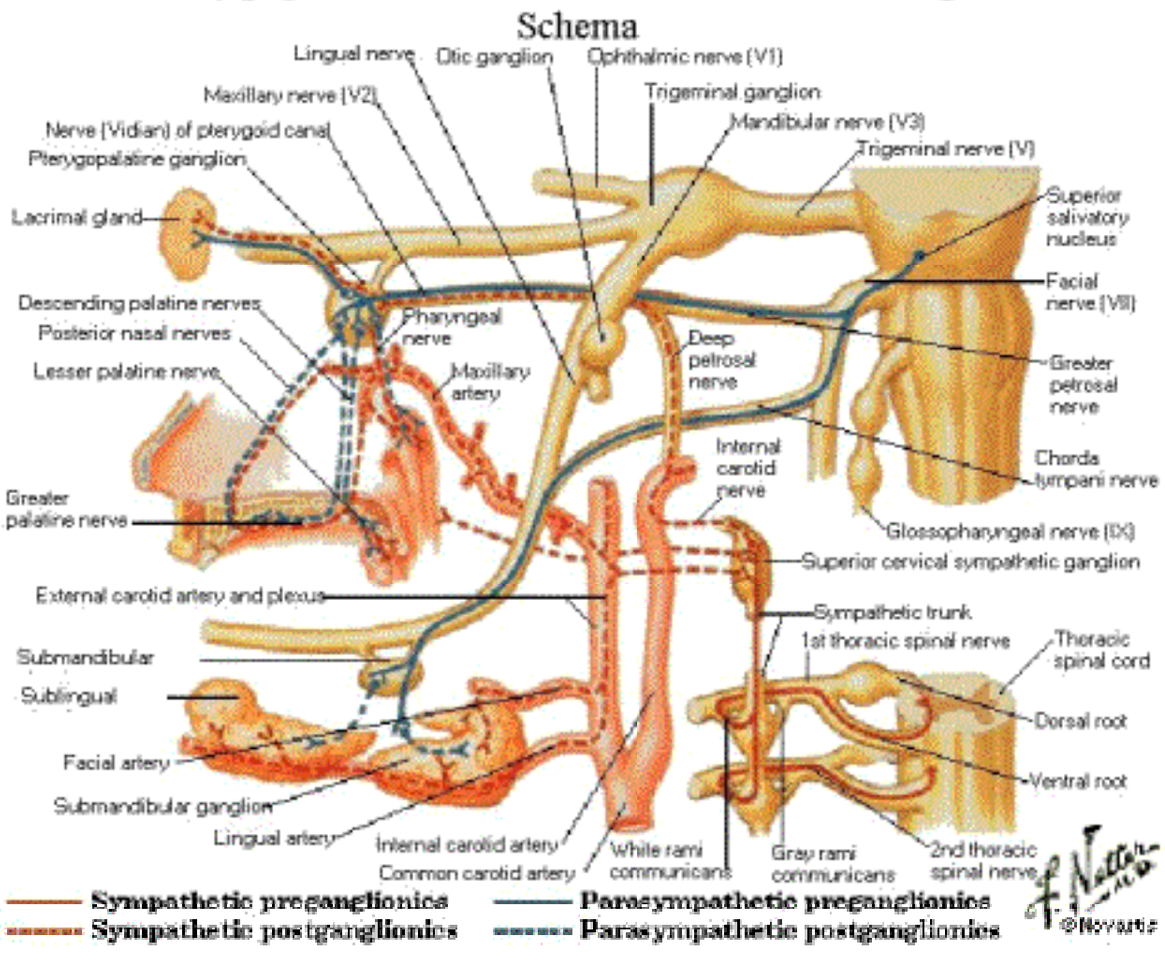
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Ciliary Ganglion

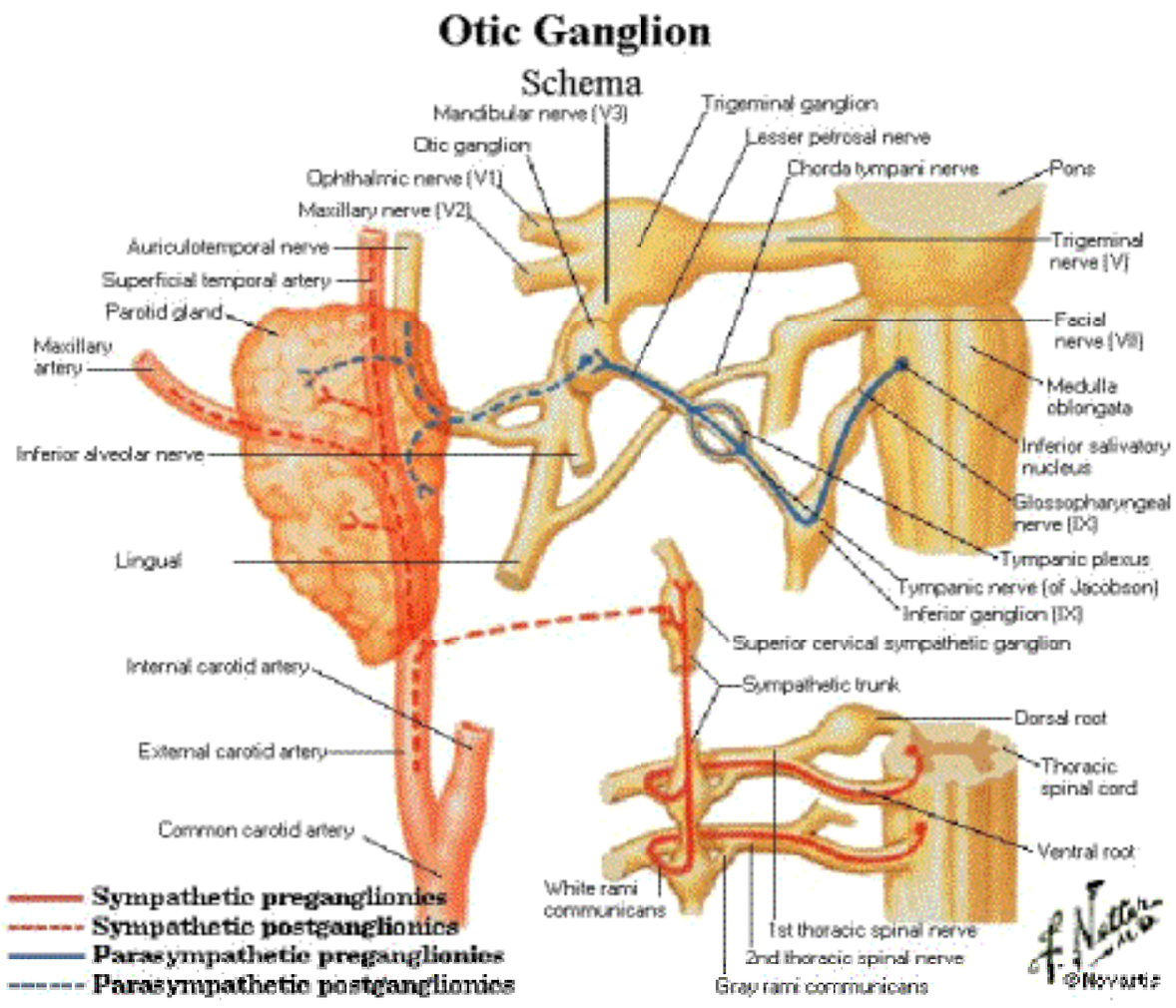
Schema



Pterygopalatine and Submandibular Ganglia

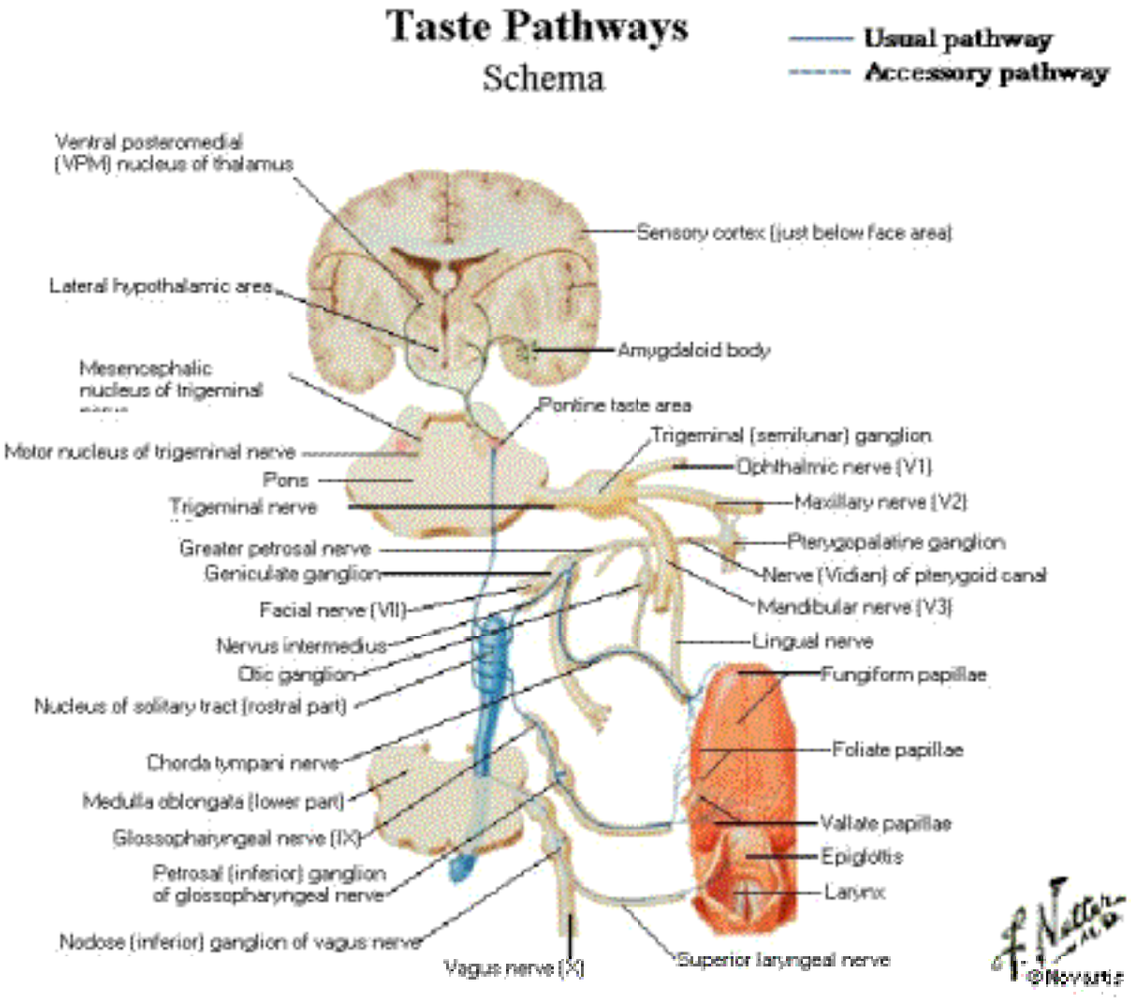


Otic Ganglion

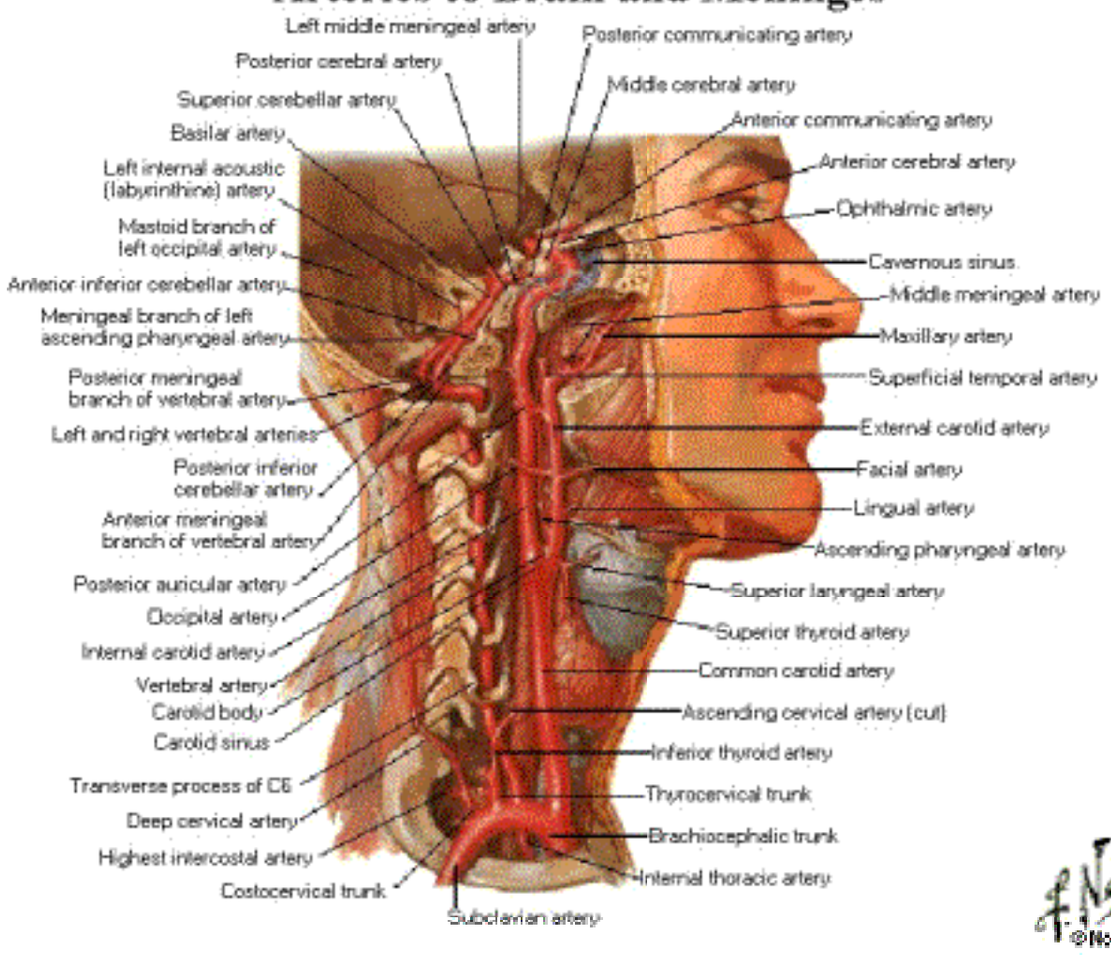


Taste Pathways

Schema



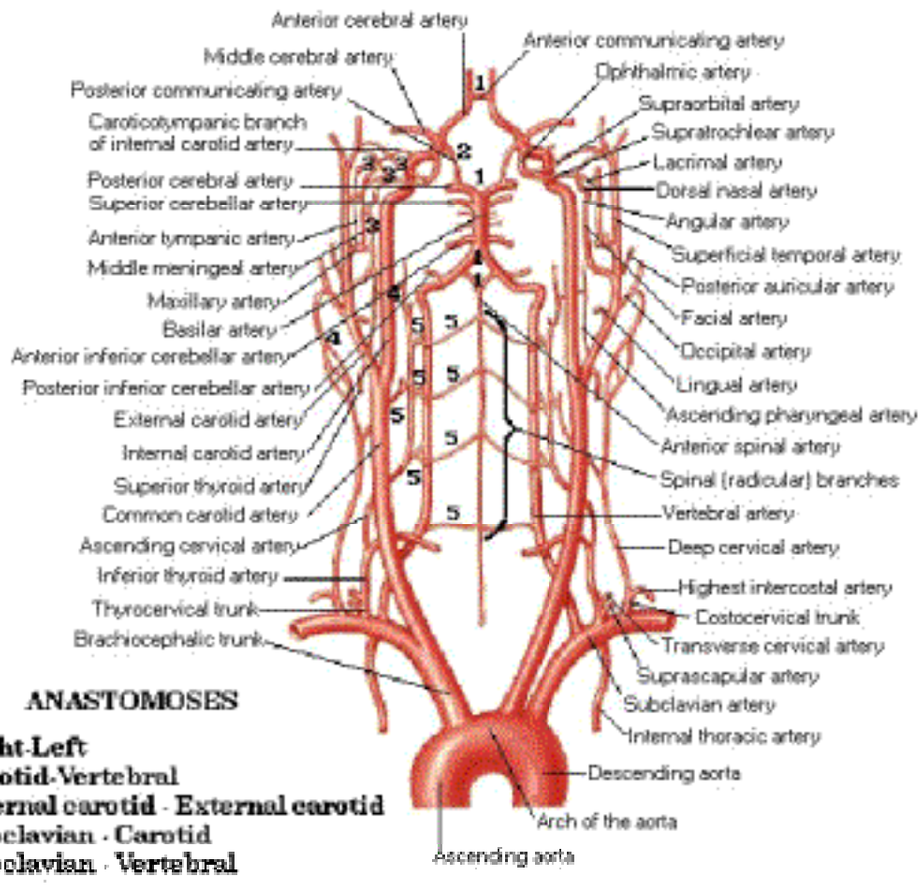
Arteries to Brain and Meninges



F. Netter M.D.
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Arteries to Brain

Schema



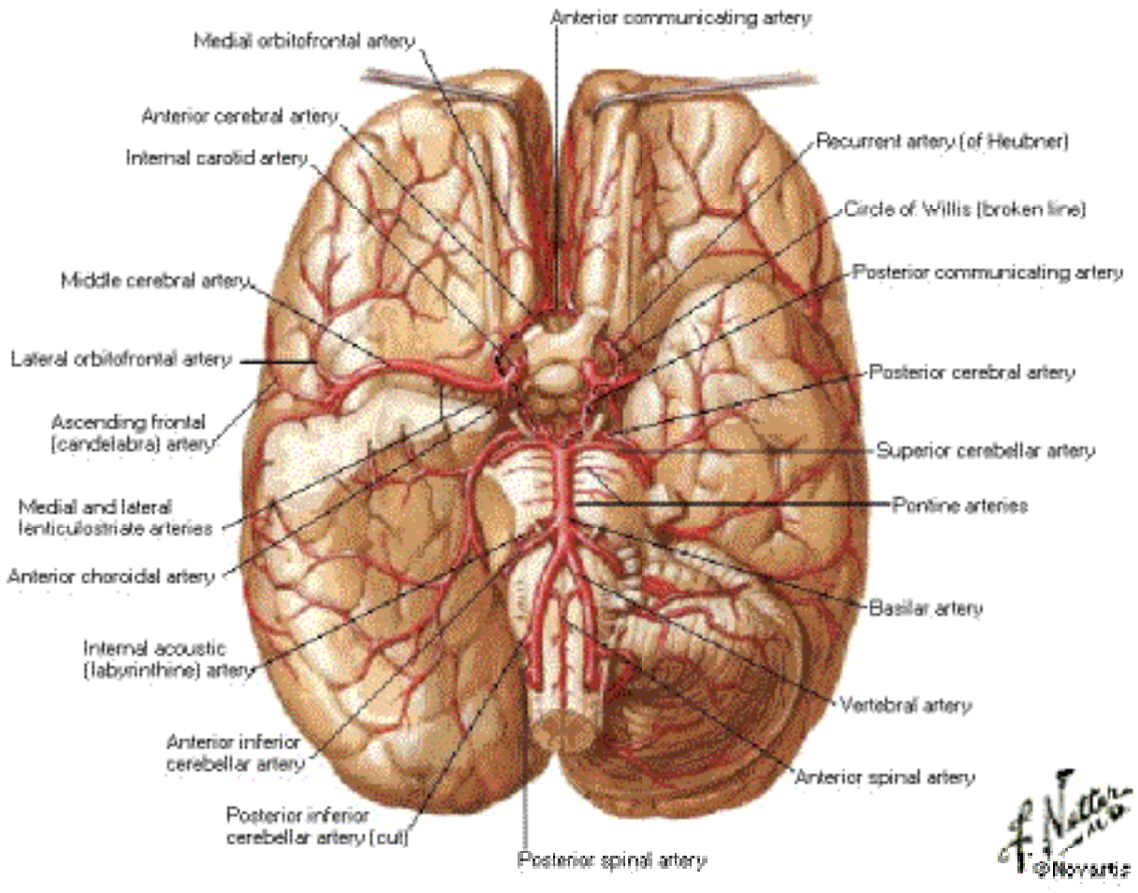
ANASTOMOSES

1. **Right-Left**
2. **Carotid-Vertebral**
3. **Internal carotid - External carotid**
4. **Subclavian - Carotid**
5. **Subclavian - Vertebral**

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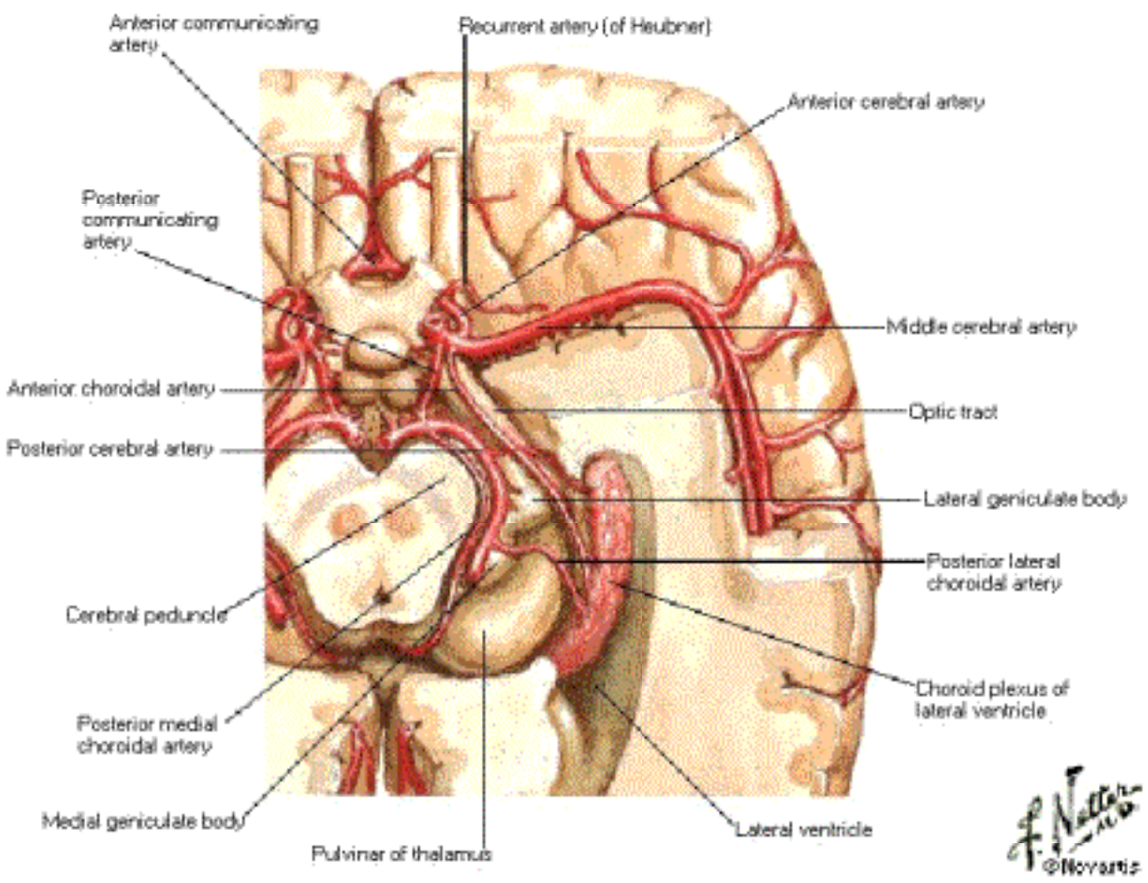
Arteries of Brain

Inferior View



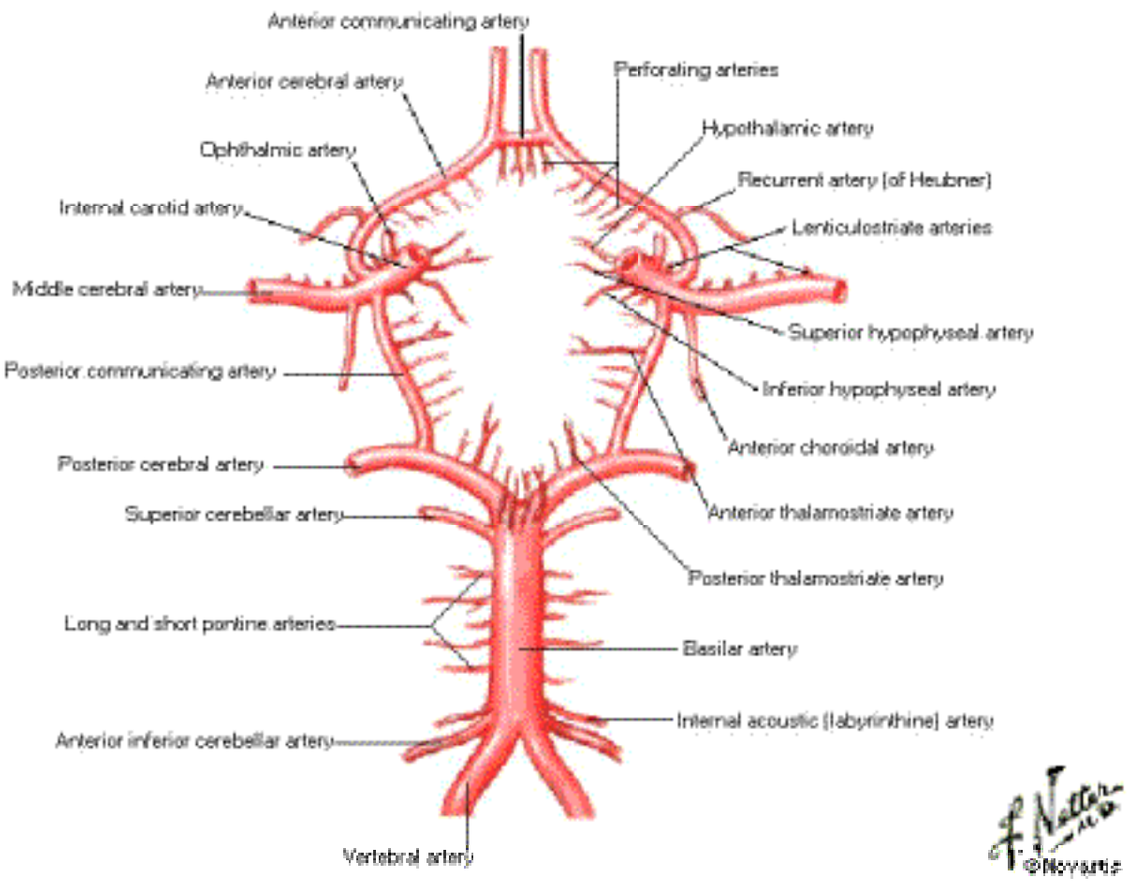
Arteries of Brain [Continued]

Inferior View



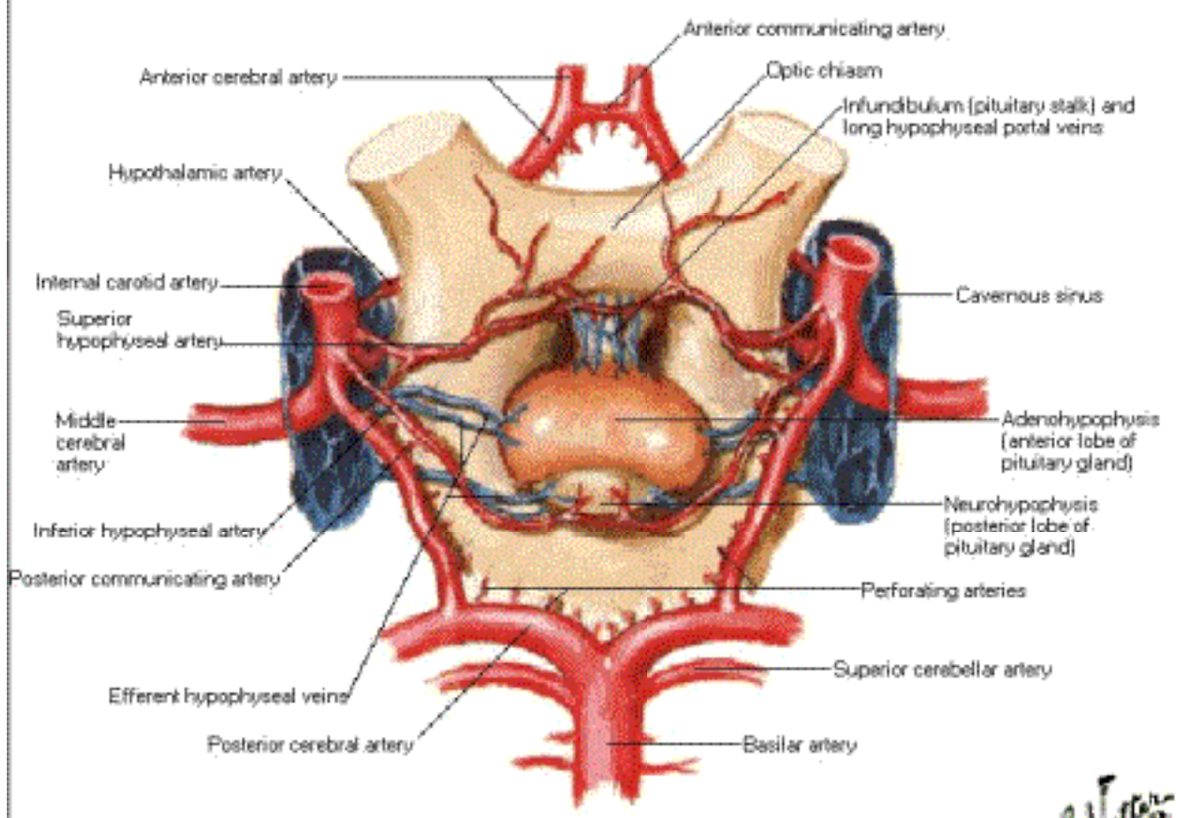
Circle of Willis - Vessels Dissected Out

Inferior View



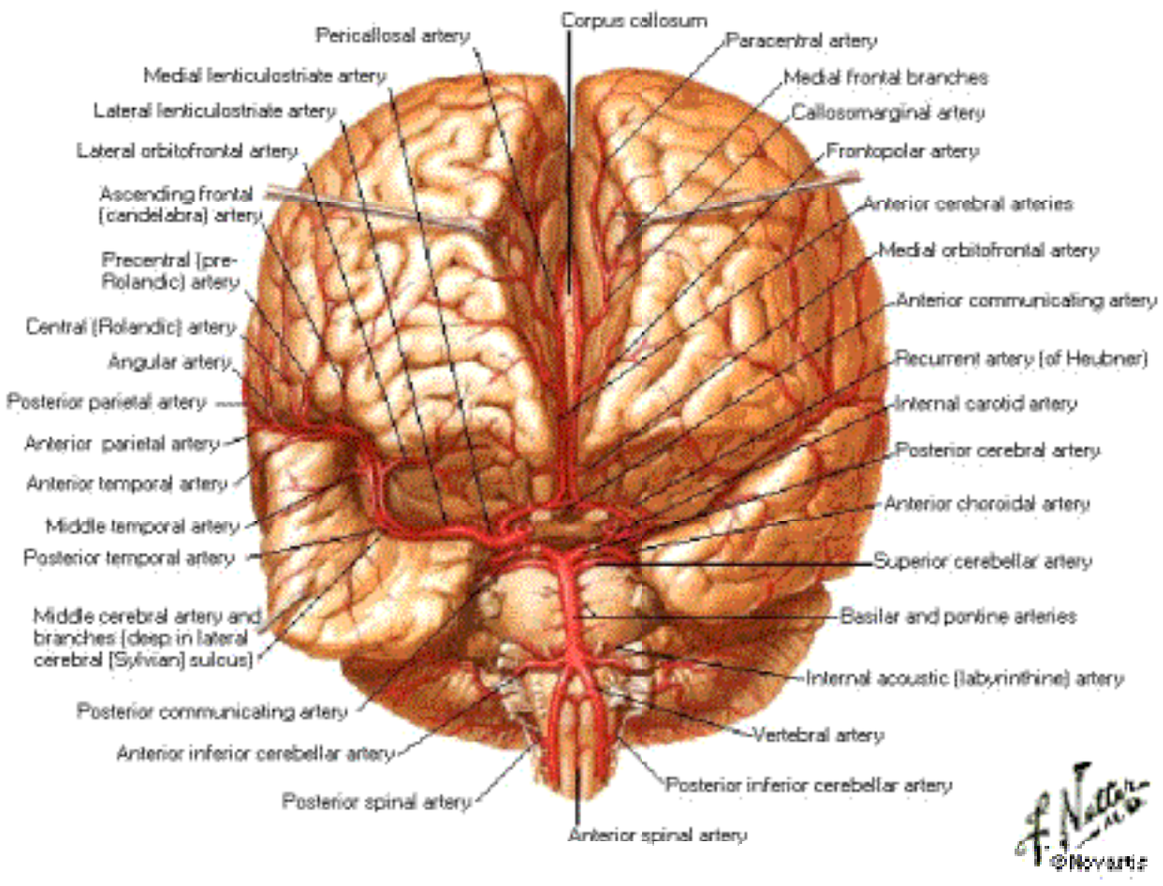
Circle of Willis - Vessels in Situ

Inferior View



Arteries of Brain

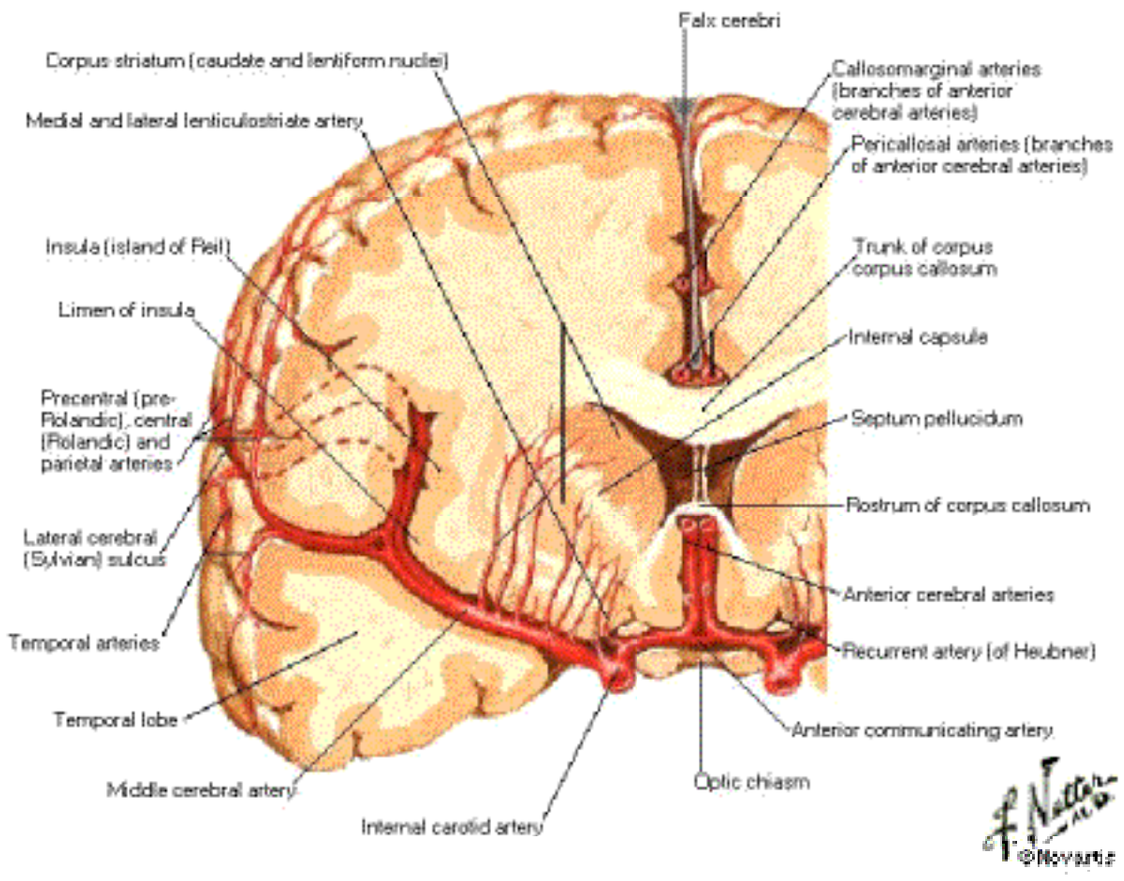
Frontal View



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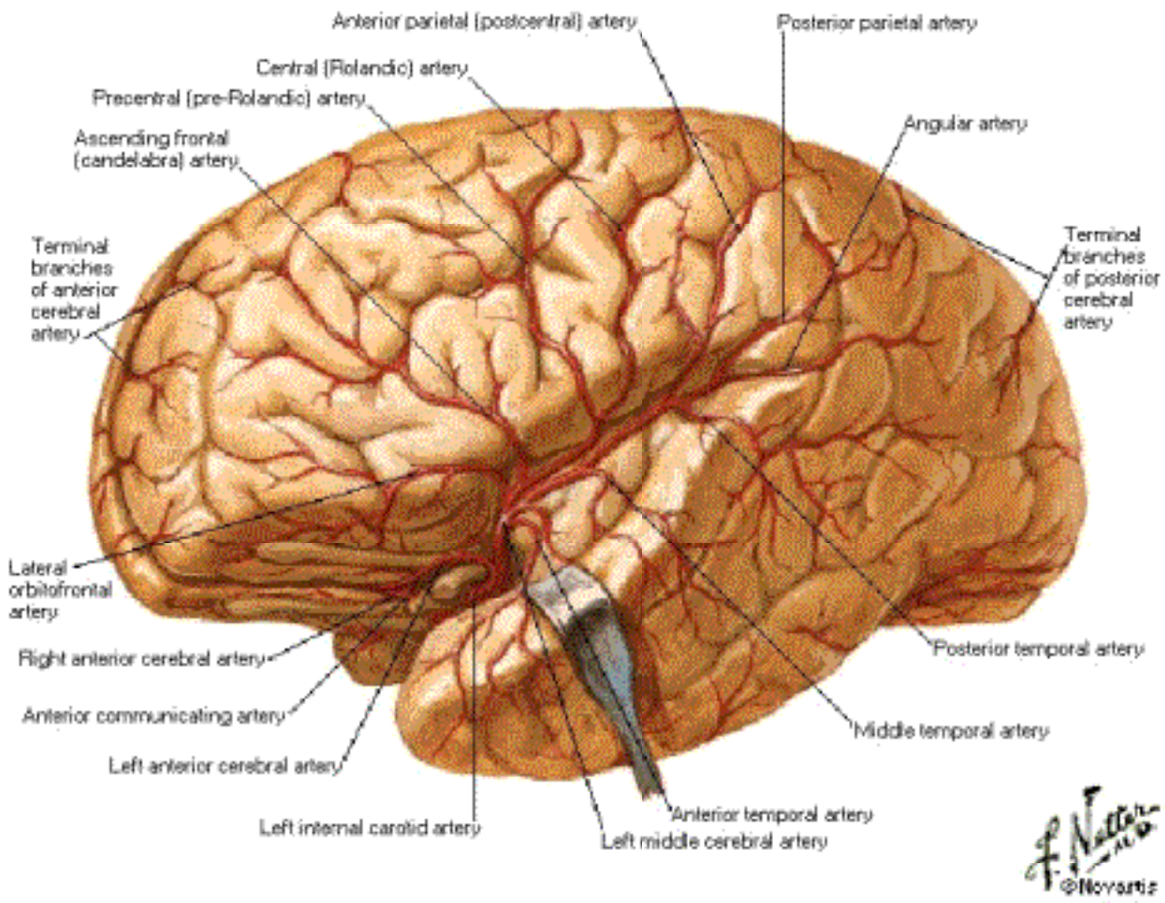
Arteries of Brain

Frontal Section



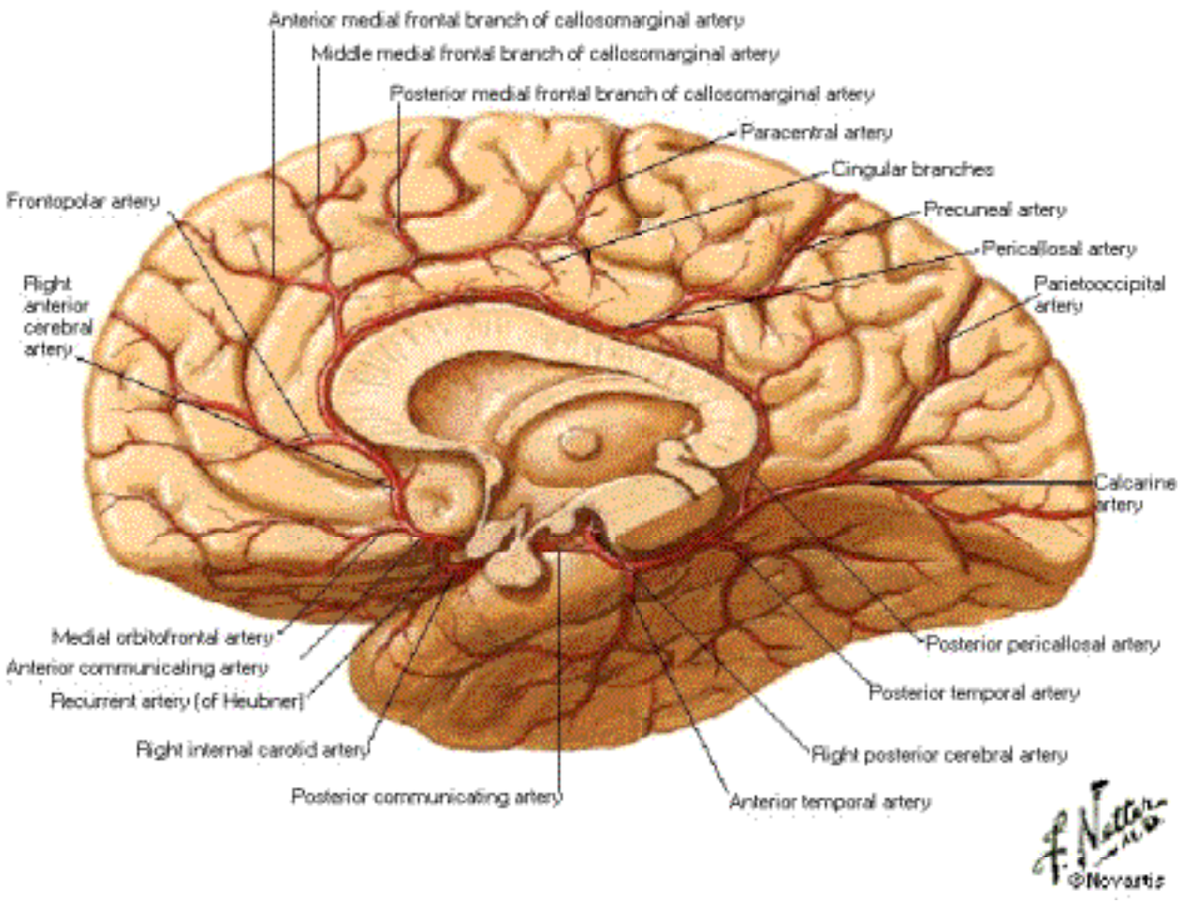
Arteries of Brain

Lateral View

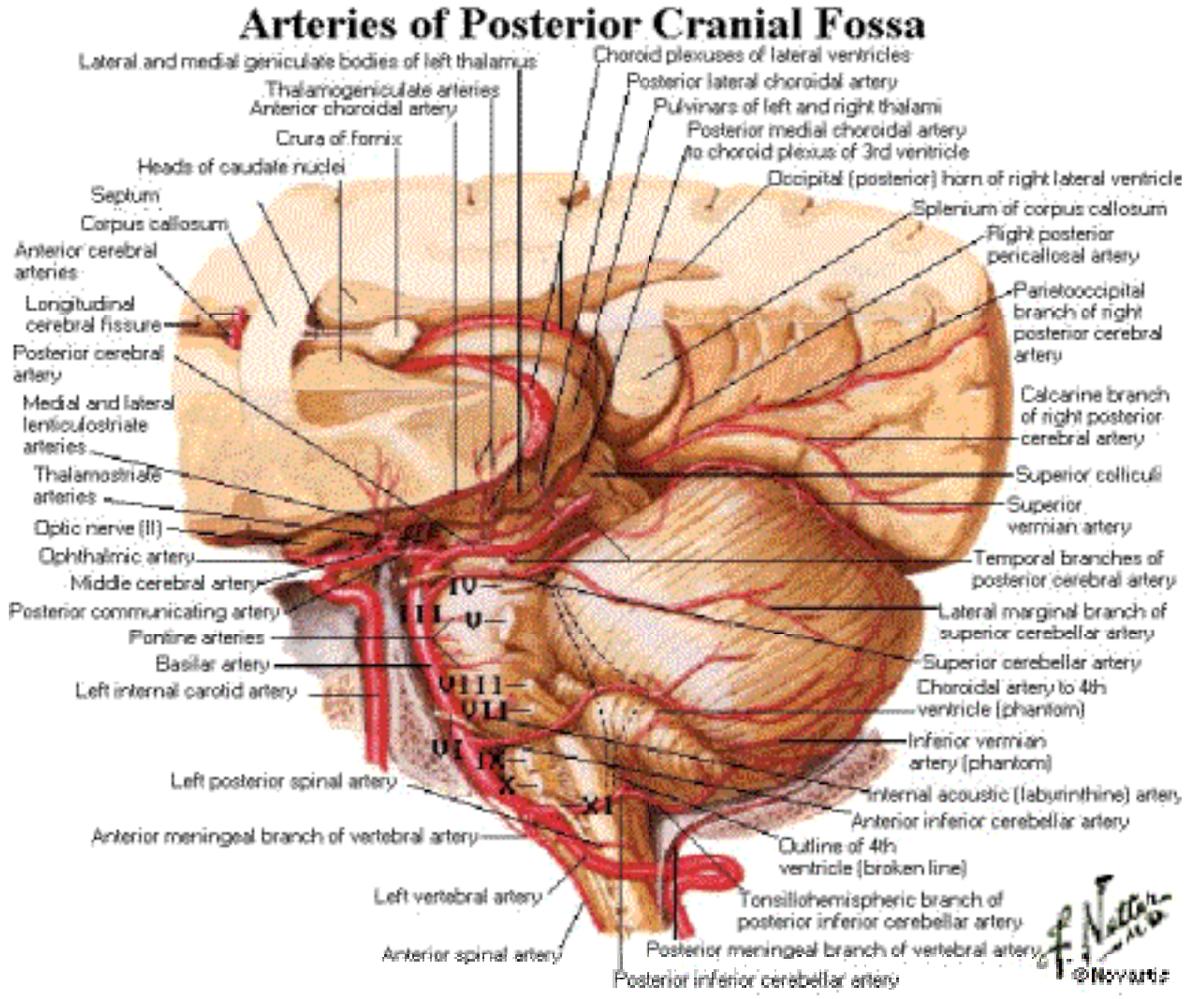


Arteries of Brain

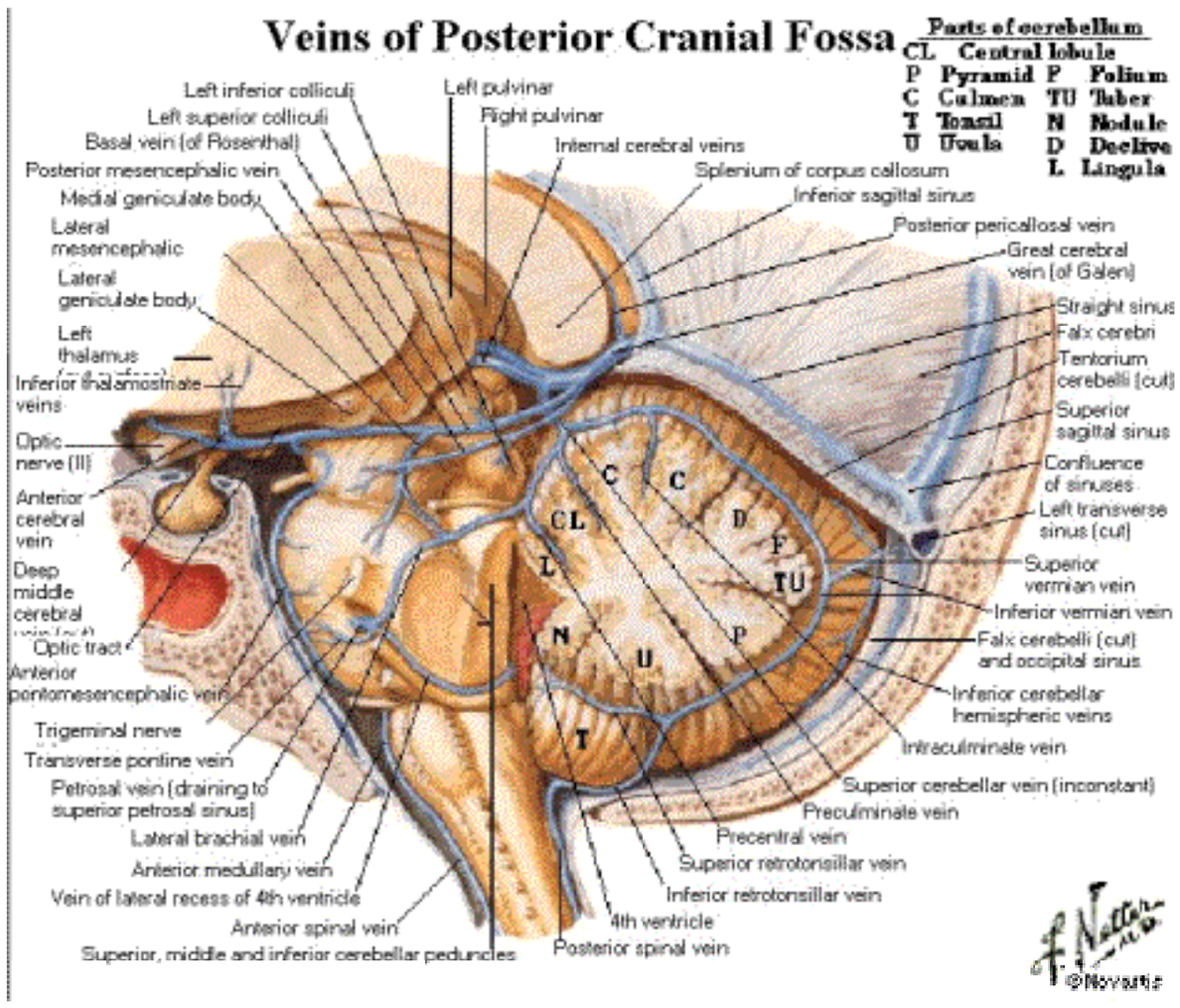
Medial View



Arteries of Posterior Cranial Fossa

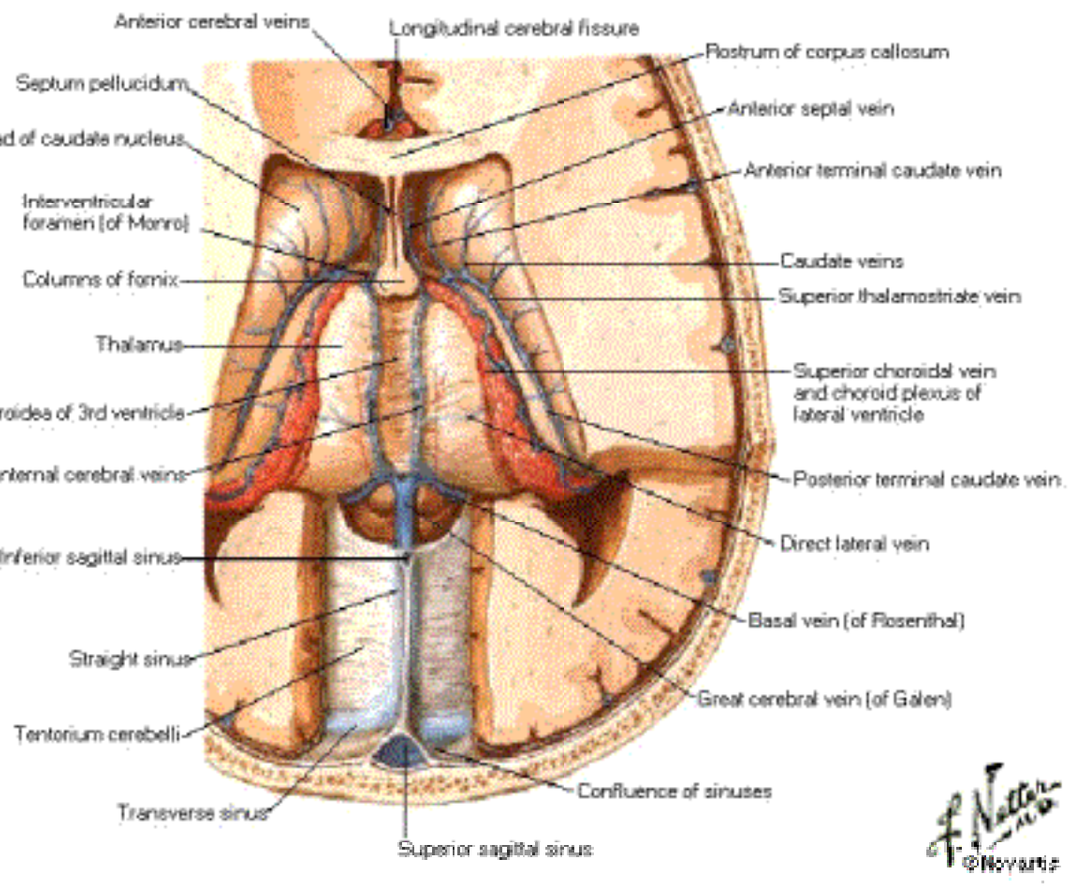


Veins of Posterior Cranial Fossa



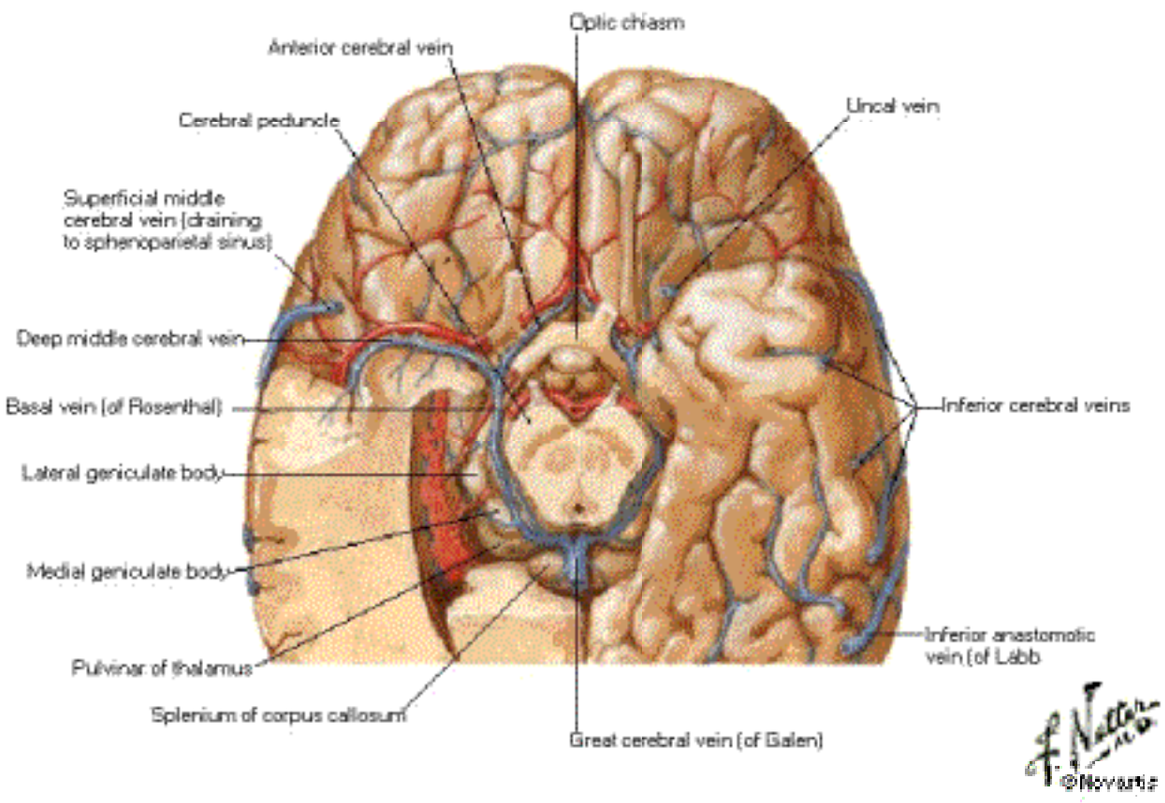
Deep Veins of Brain - Dissection

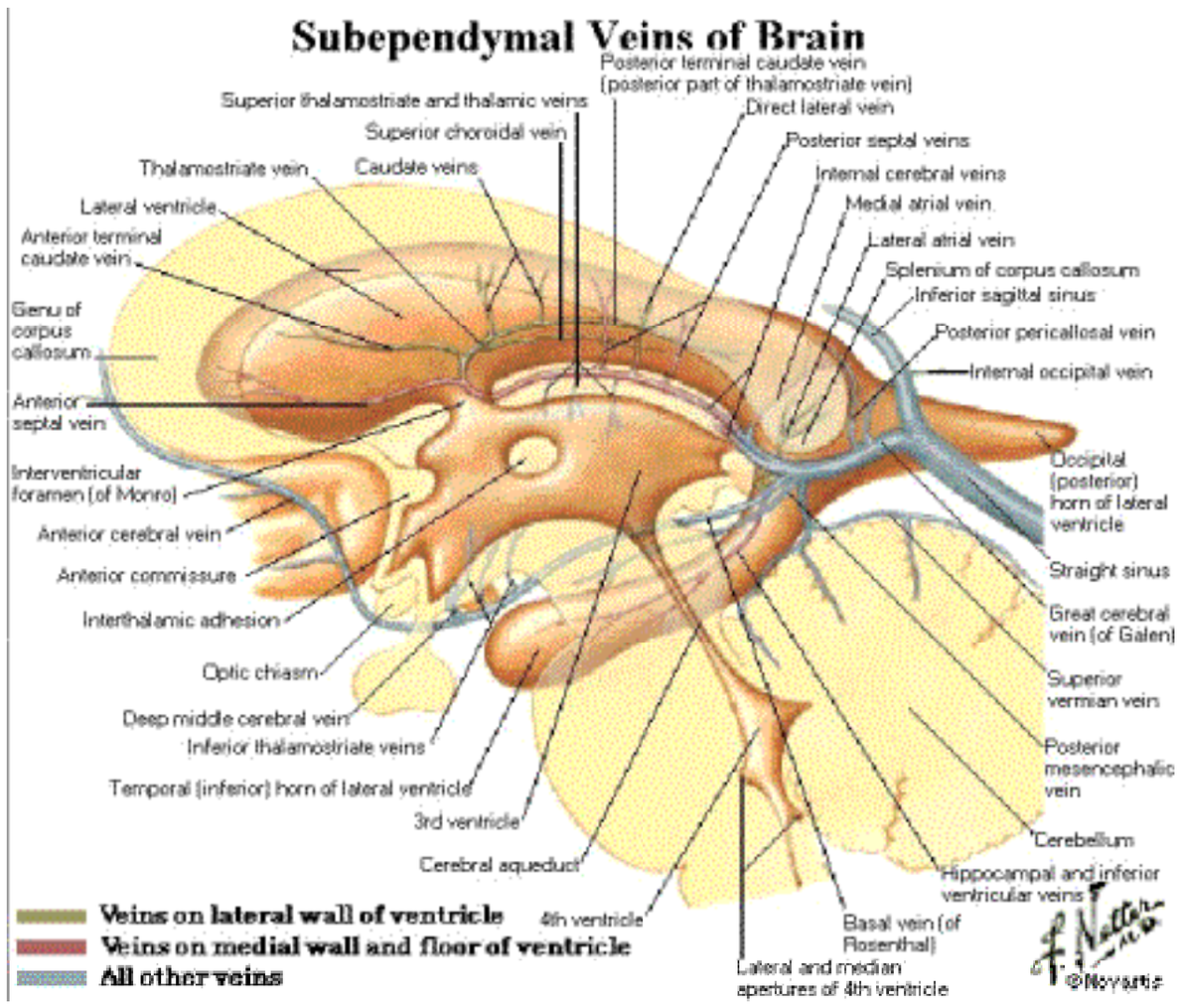
Superior View



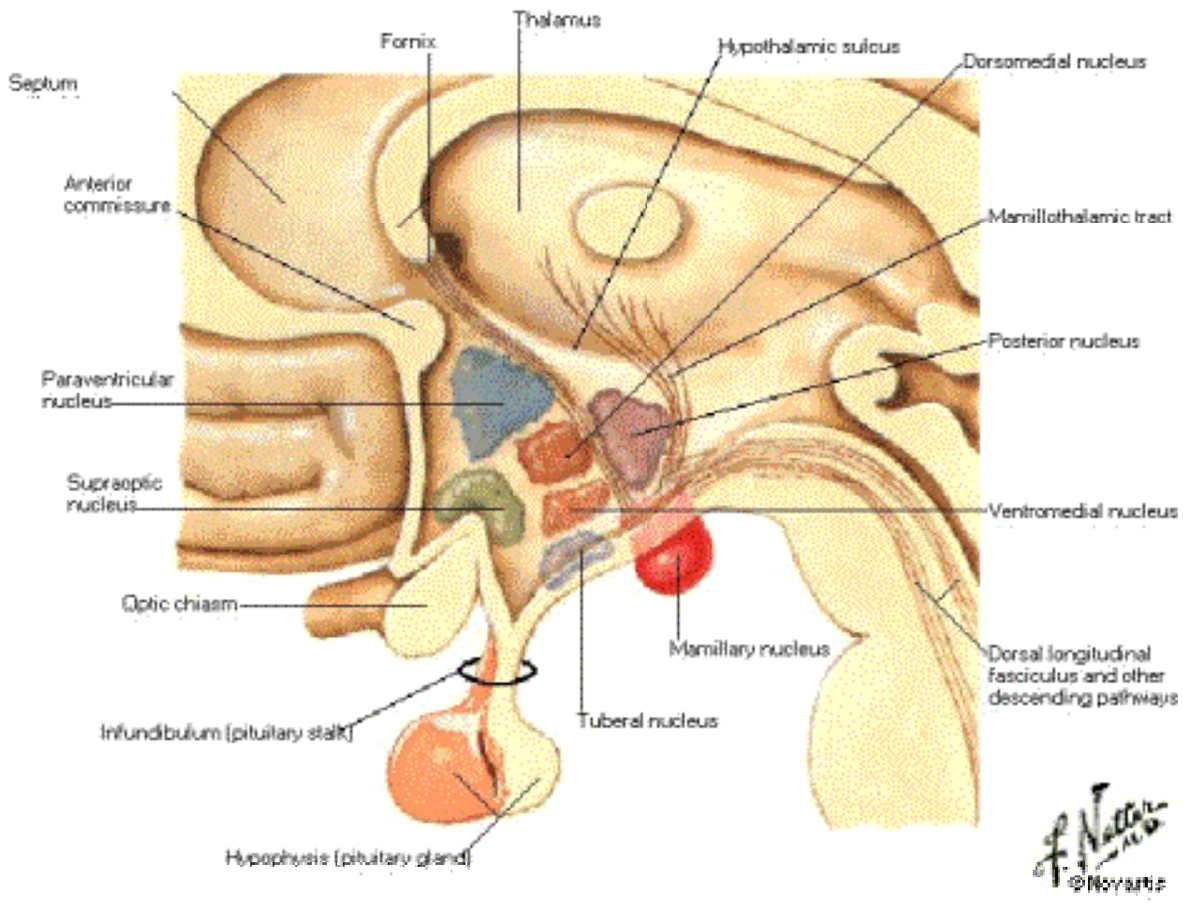
Deep Veins of Brain - Dissection

Inferior View

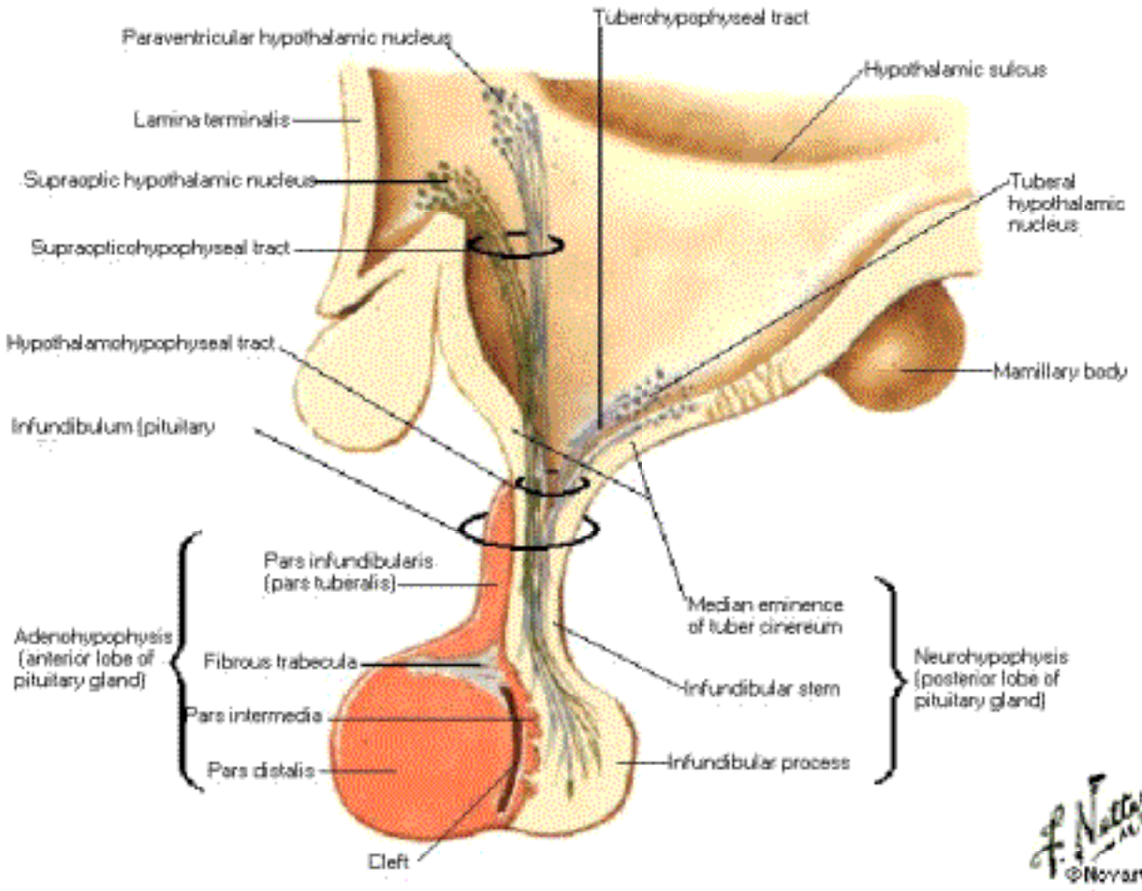



Subependymal Veins of Brain
Posterior terminal caudate vein (posterior part of thalamostriate vein)
Superior thalamostriate and thalamic veins
Direct lateral vein
Superior choroidal vein
Posterior septal veins
Thalamostriate vein
Caudate veins
Internal cerebral veins
Lateral ventricle
Medial atrial vein
Anterior terminal caudate vein
Lateral atrial vein
Splenium of corpus callosum
Inferior sagittal sinus
Genu of corpus callosum
Posterior pericallosal vein
Internal occipital vein
Anterior septal vein
Occipital (posterior) horn of lateral ventricle
Interventricular foramen (of Monro)
Straight sinus
Anterior cerebral vein
Great cerebral vein (of Galen)
Anterior commissure
Interthalamic adhesion
Superior vermian vein
Optic chiasm
Deep middle cerebral vein
Posterior mesencephalic vein
Inferior thalamostriate veins
Temporal (inferior) horn of lateral ventricle
Cerebellum
3rd ventricle
Cerebral aqueduct
Hippocampal and inferior ventricular veins
4th ventricle
Basal vein (of Rosenthal)
Lateral and median apertures of 4th ventricle
Veins on lateral wall of ventricle
Veins on medial wall and floor of ventricle
All other veins
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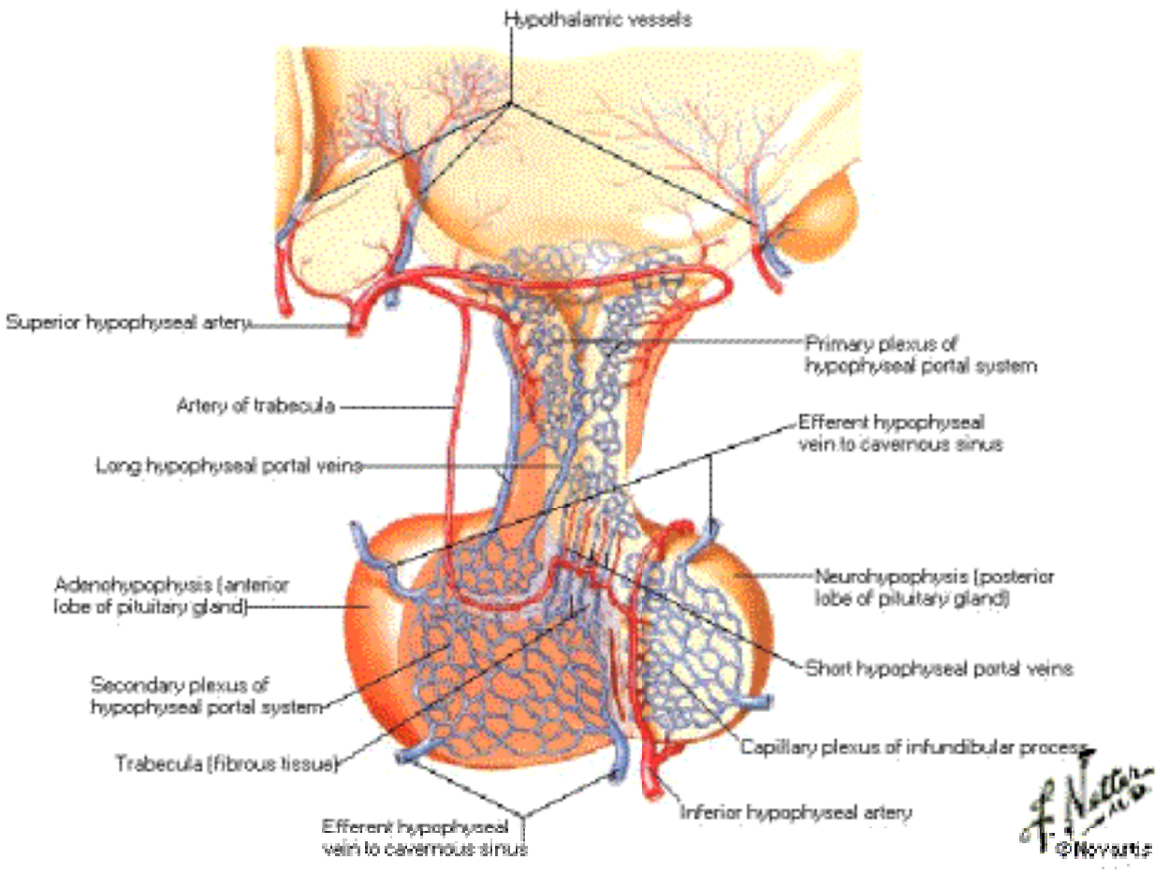
Hypothalamus - Principal Nuclei



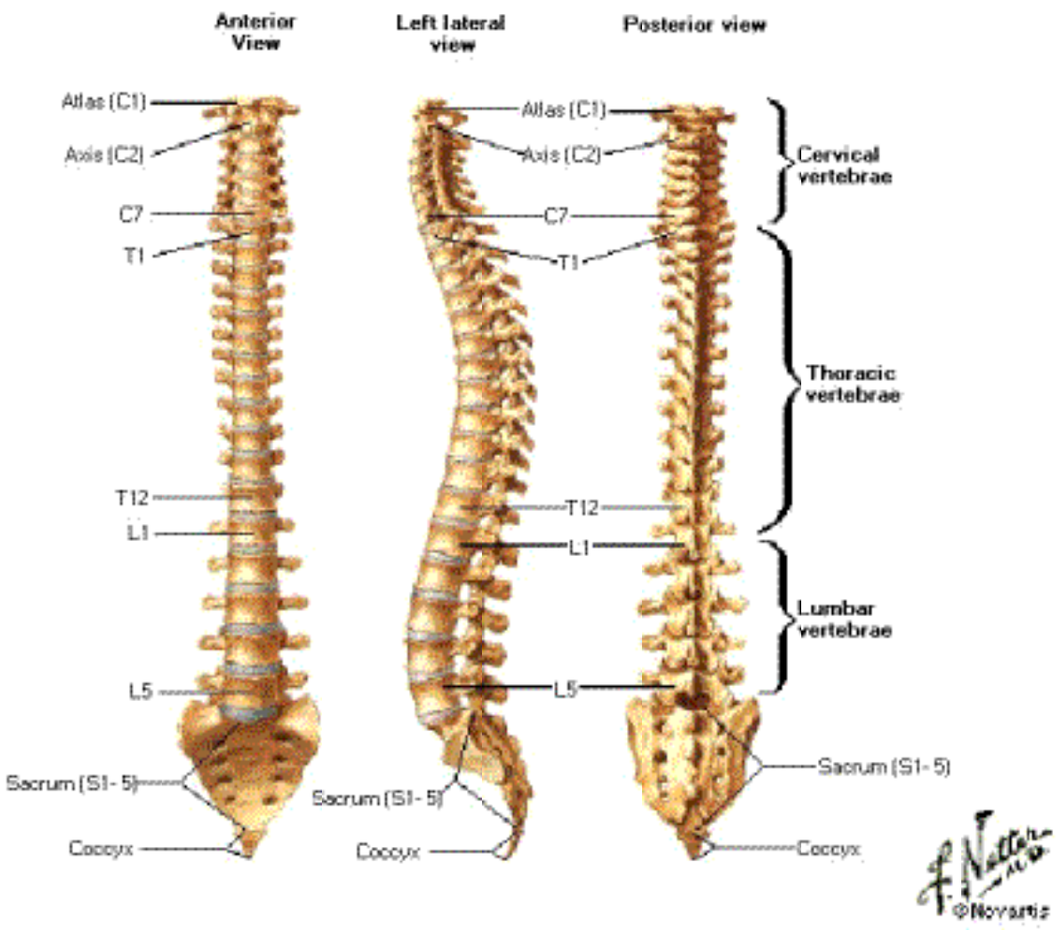
Adenohypophysis and Neurohypophysis



Arteries and Veins of Hypothalamus and Hypophysis

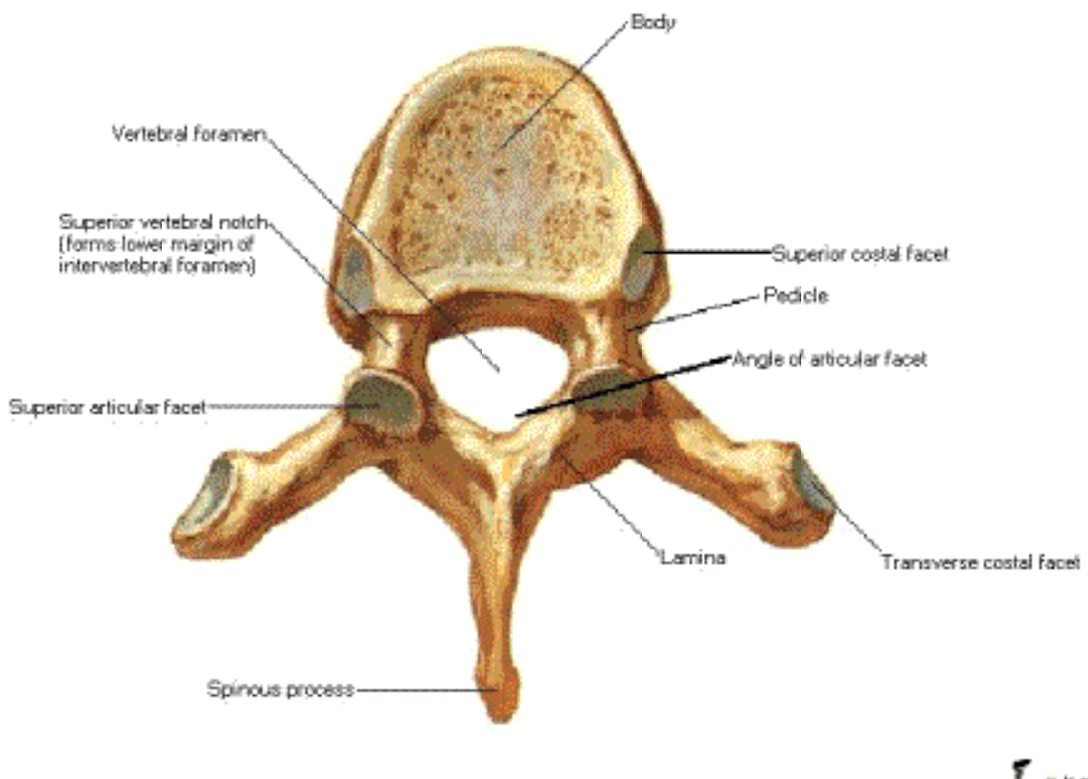


Vertebral Column



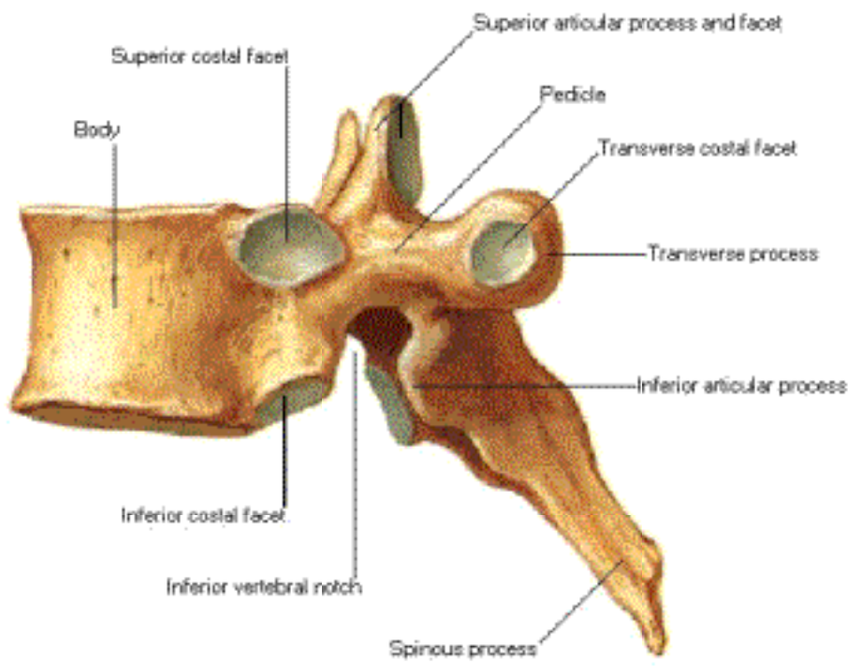
Thoracic Vertebrae [T6]

Superior View



Thoracic Vertebrae [T6]

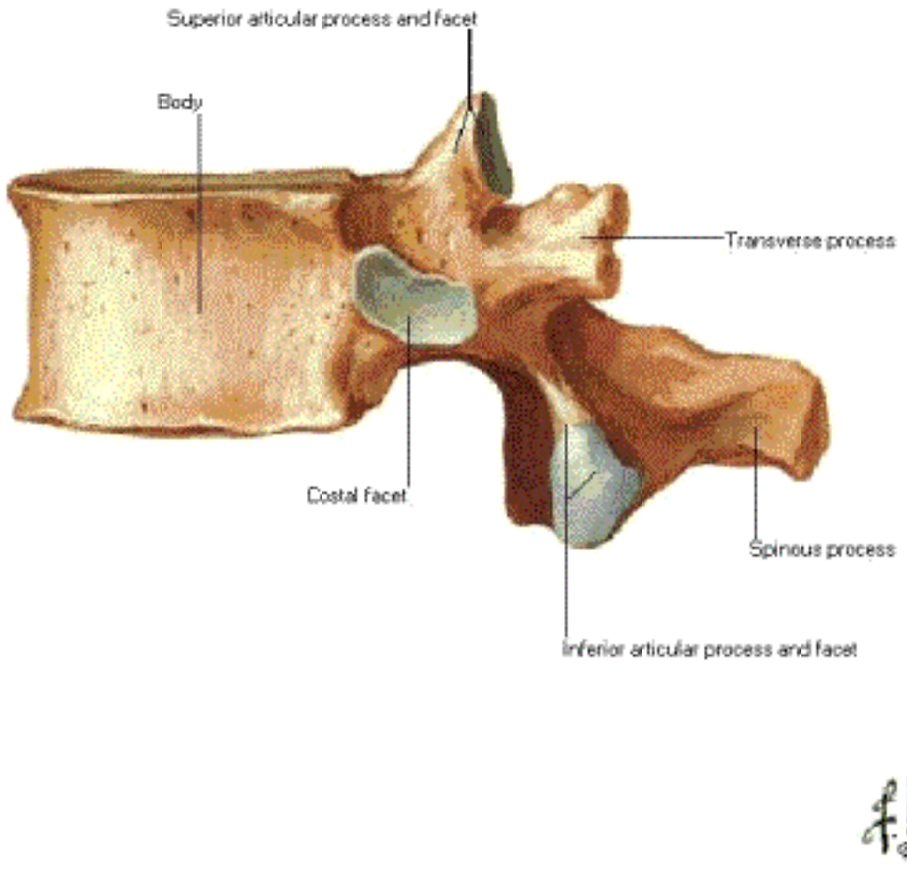
Lateral View



F. Netter
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Thoracic Vertebrae [T12]

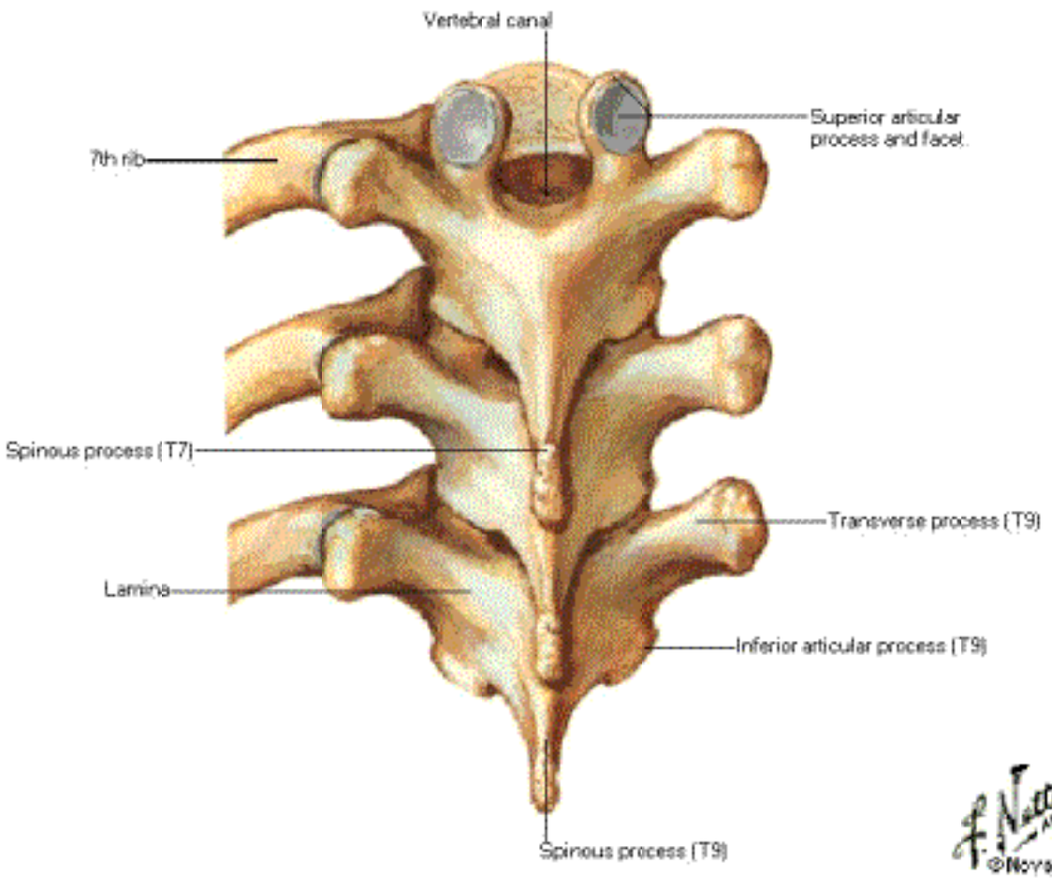
Lateral View



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Thoracic Vertebrae [T7-T9] - Assembled

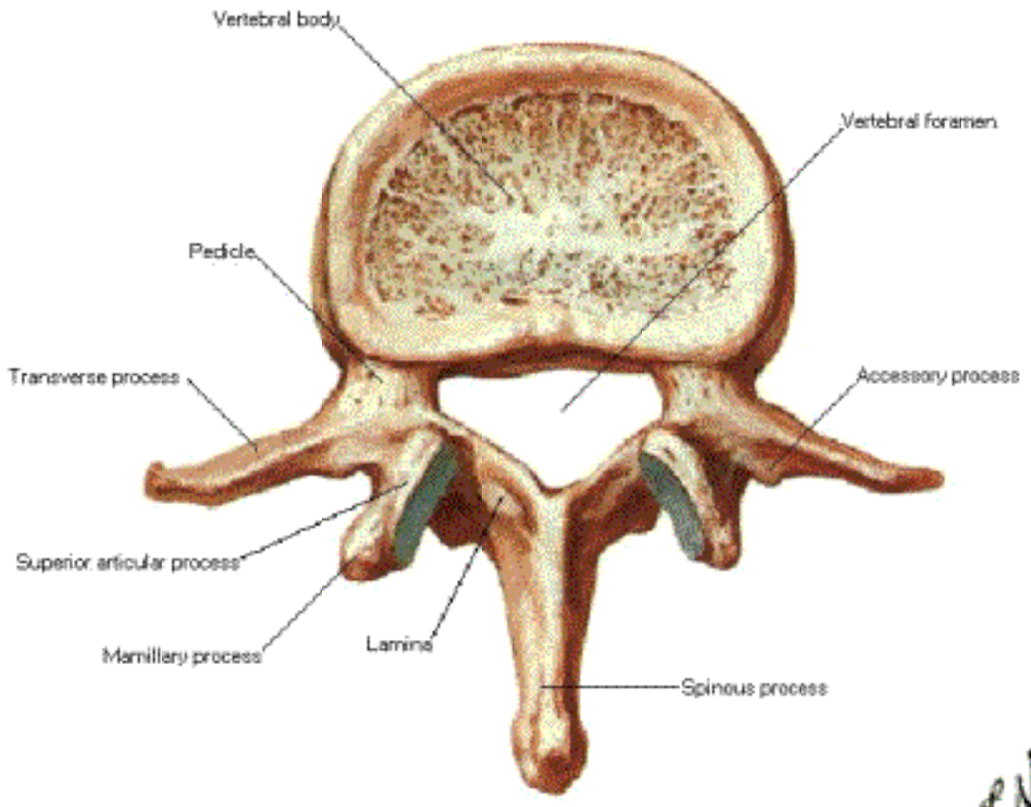
Posterior View



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Lumbar Vertebrae [L2]

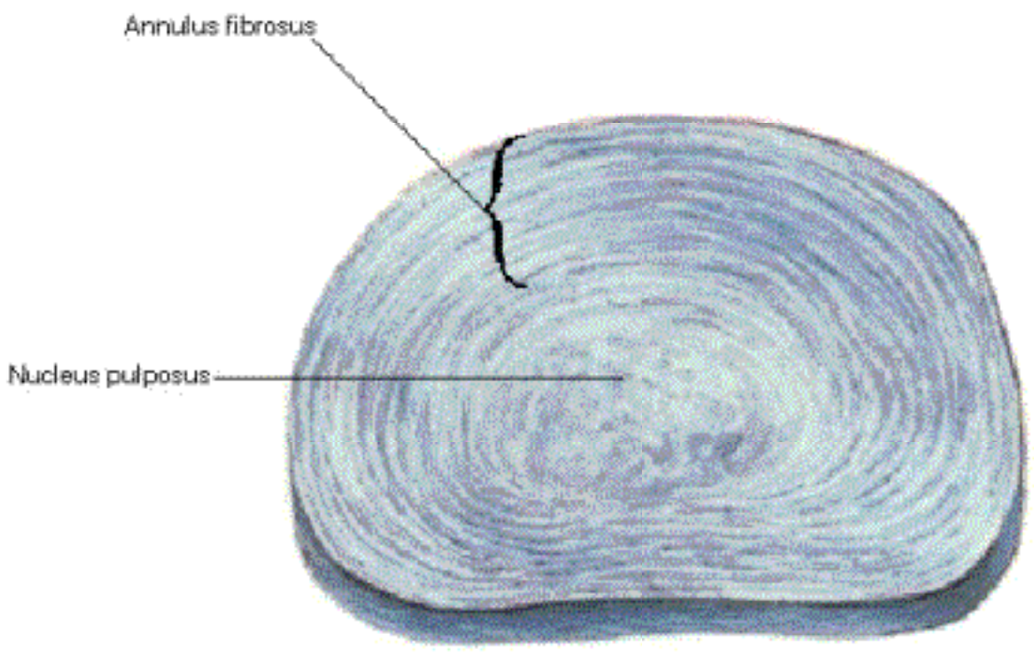
Superior View



F. Netter M.D.
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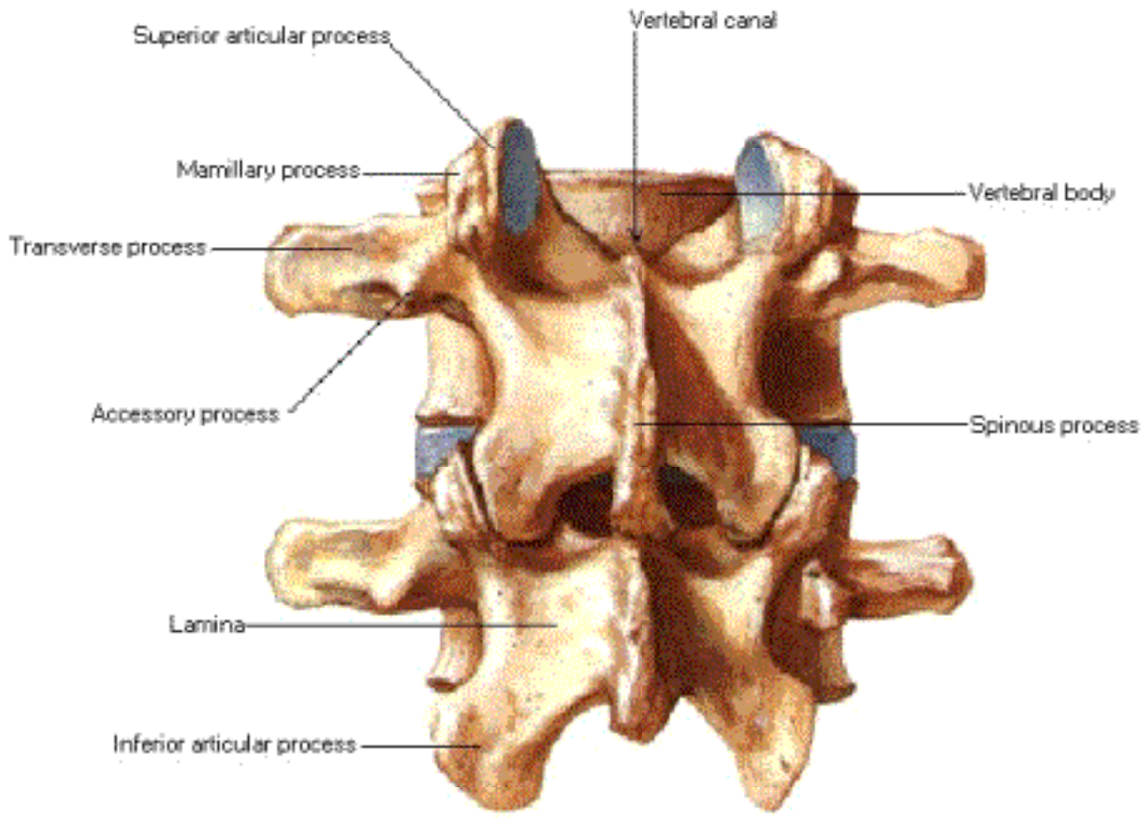
Lumbar Vertebrae

Intervertebral Disc



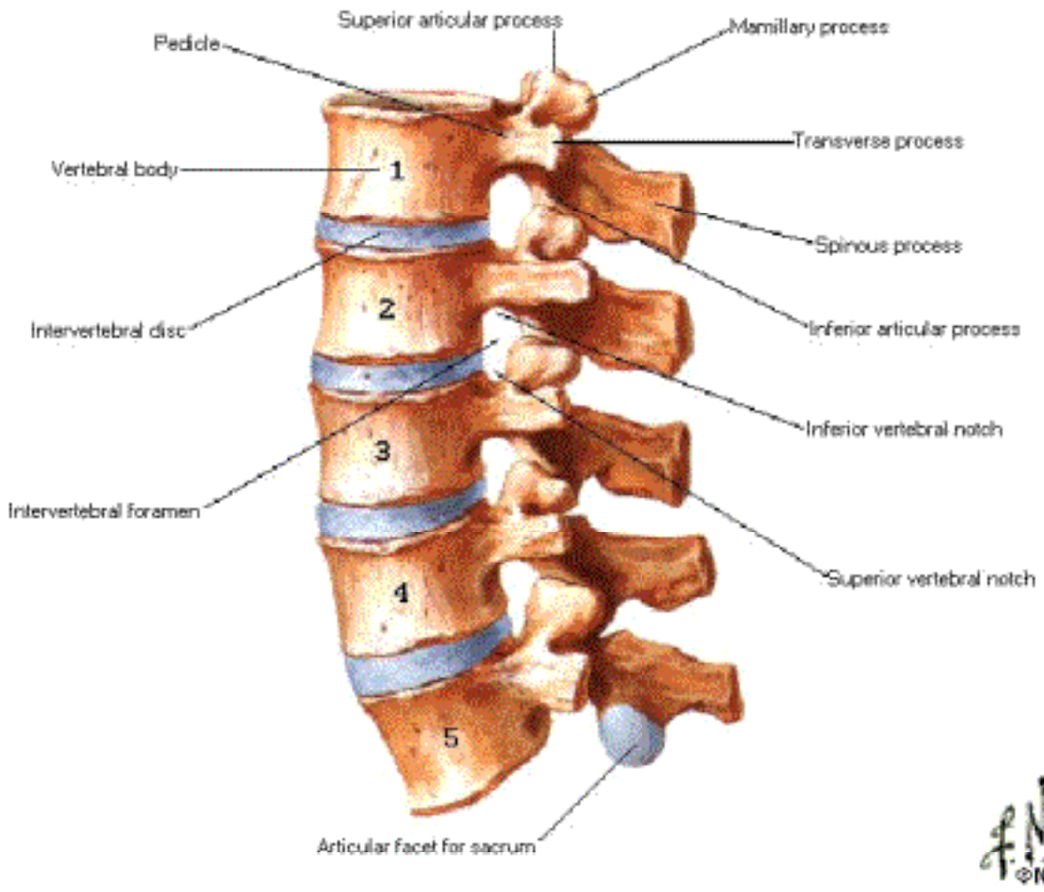
Lumbar Vertebrae [L3-L4] - Assembled

Posterior View



Lumbar Vertebrae [L1-L5] - Assembled

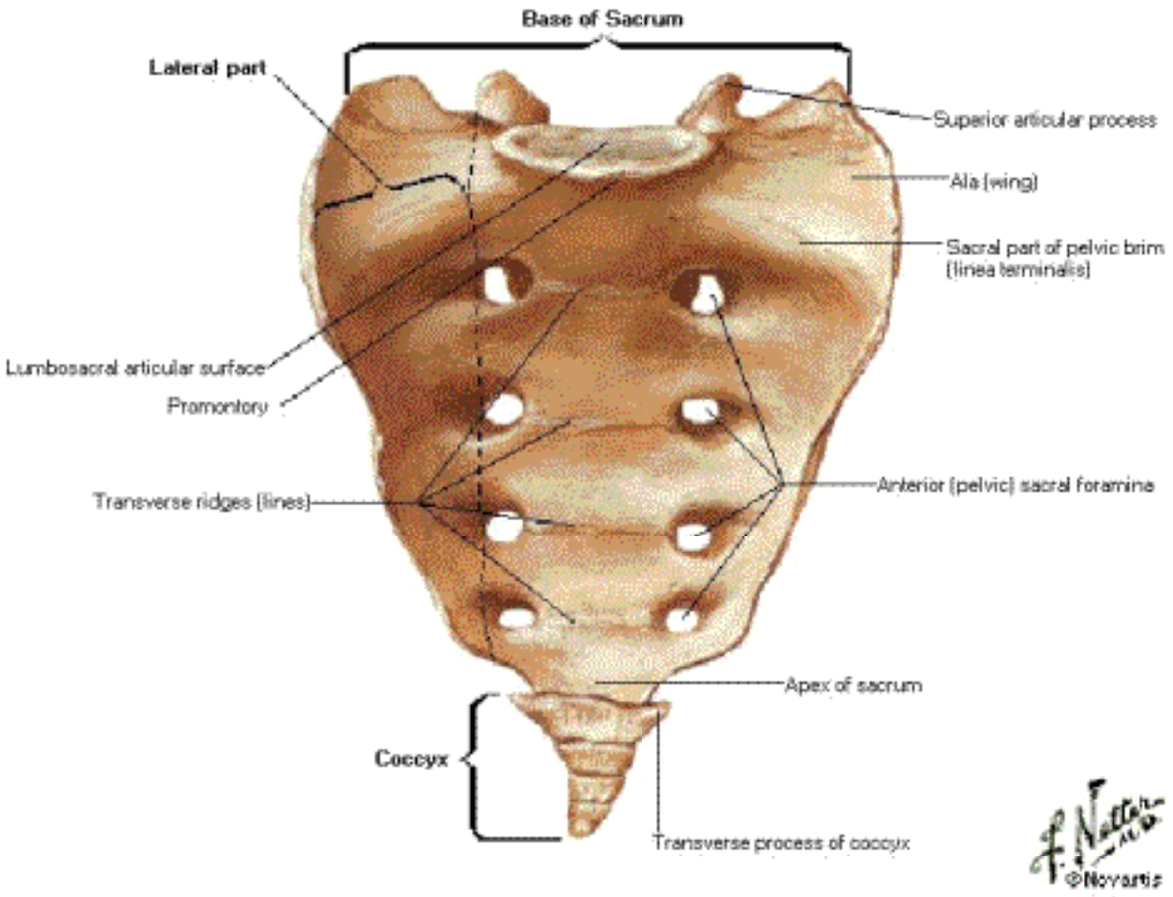
Left Lateral View



©Novartis

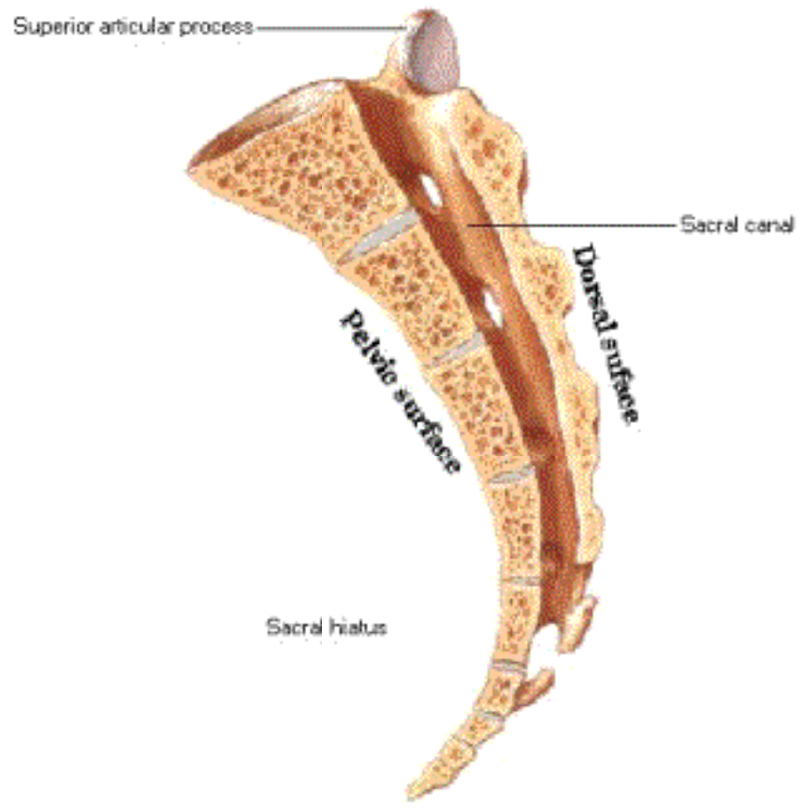
Sacrum and Coccyx

Pelvic Surface



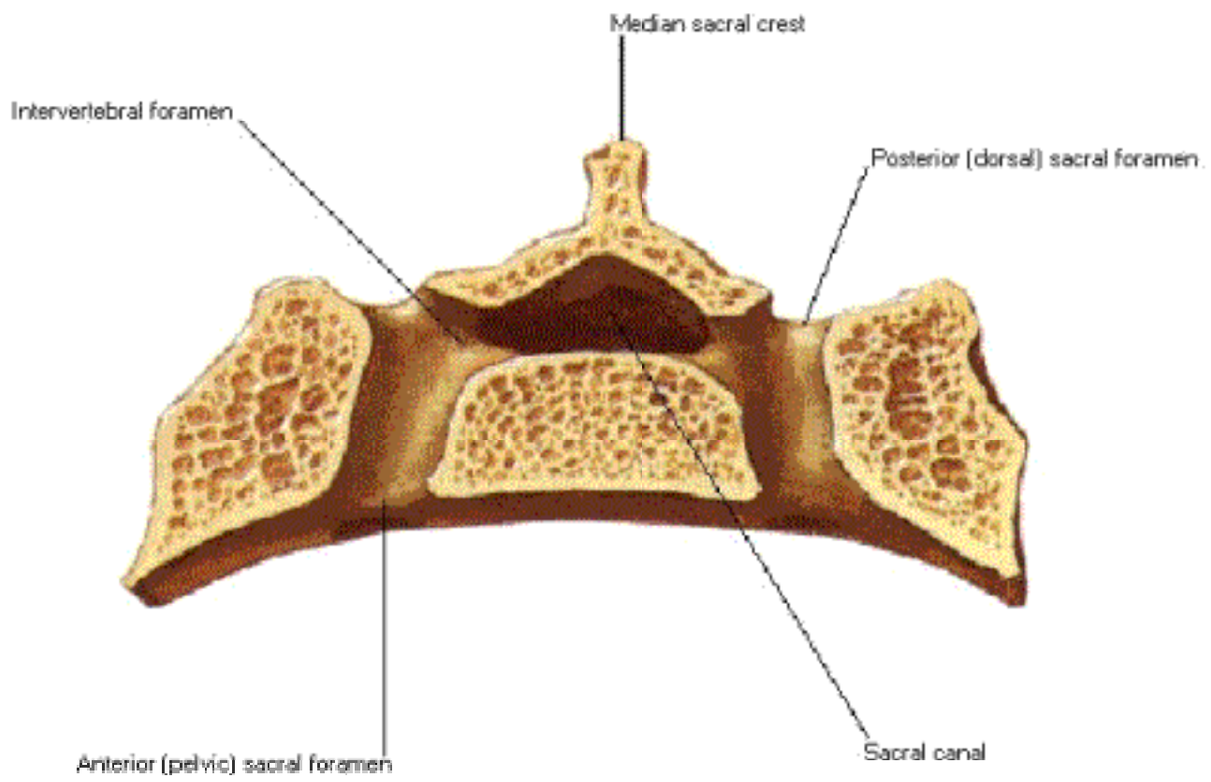
Sacrum and Coccyx

Median Sagittal Section



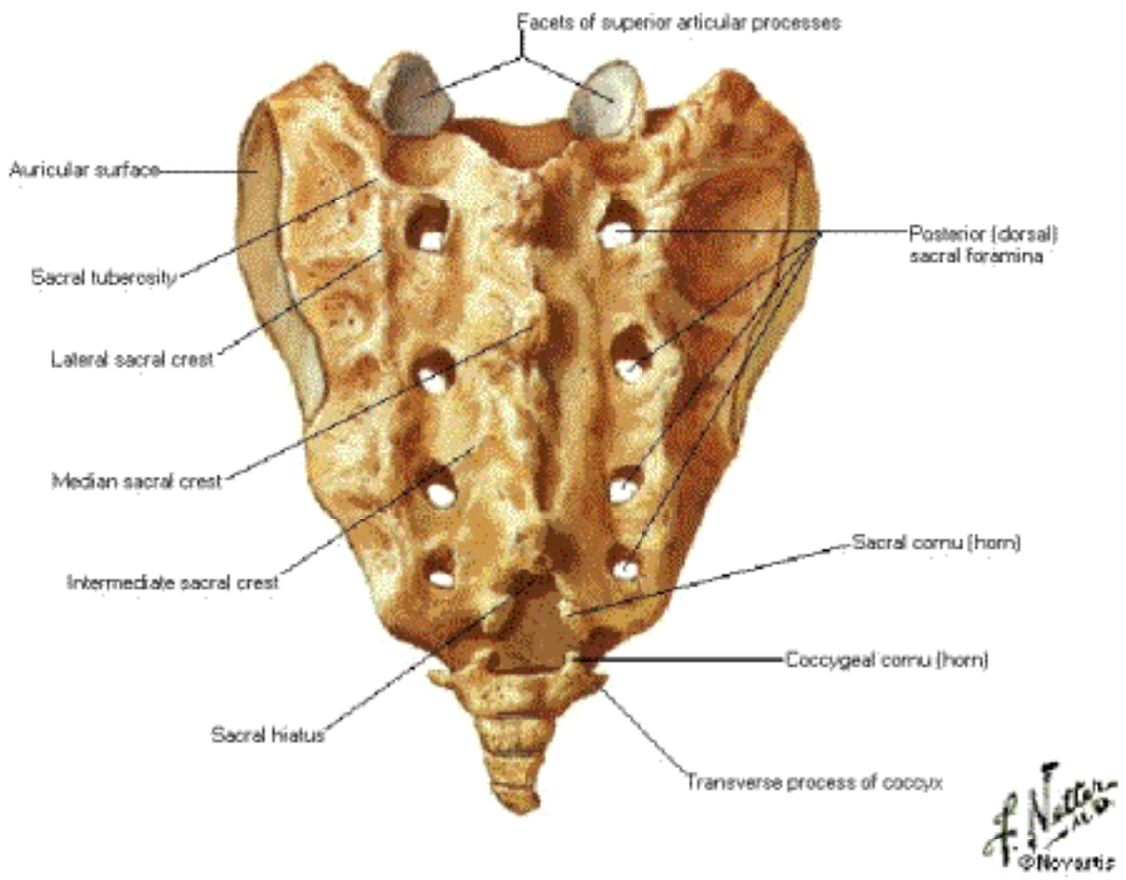
Sacrum

Transverse Section through S1 Foramina



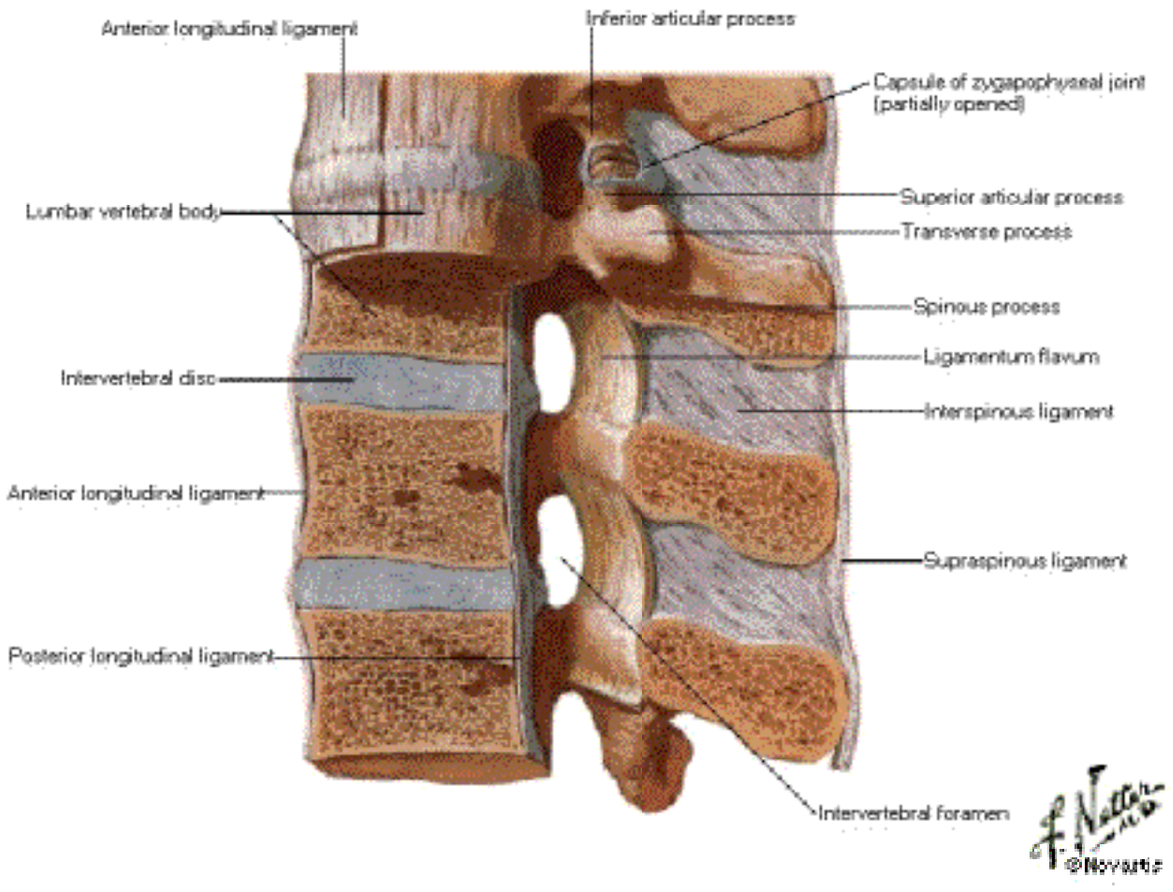
Sacrum and Coccyx

Dorsal Surface



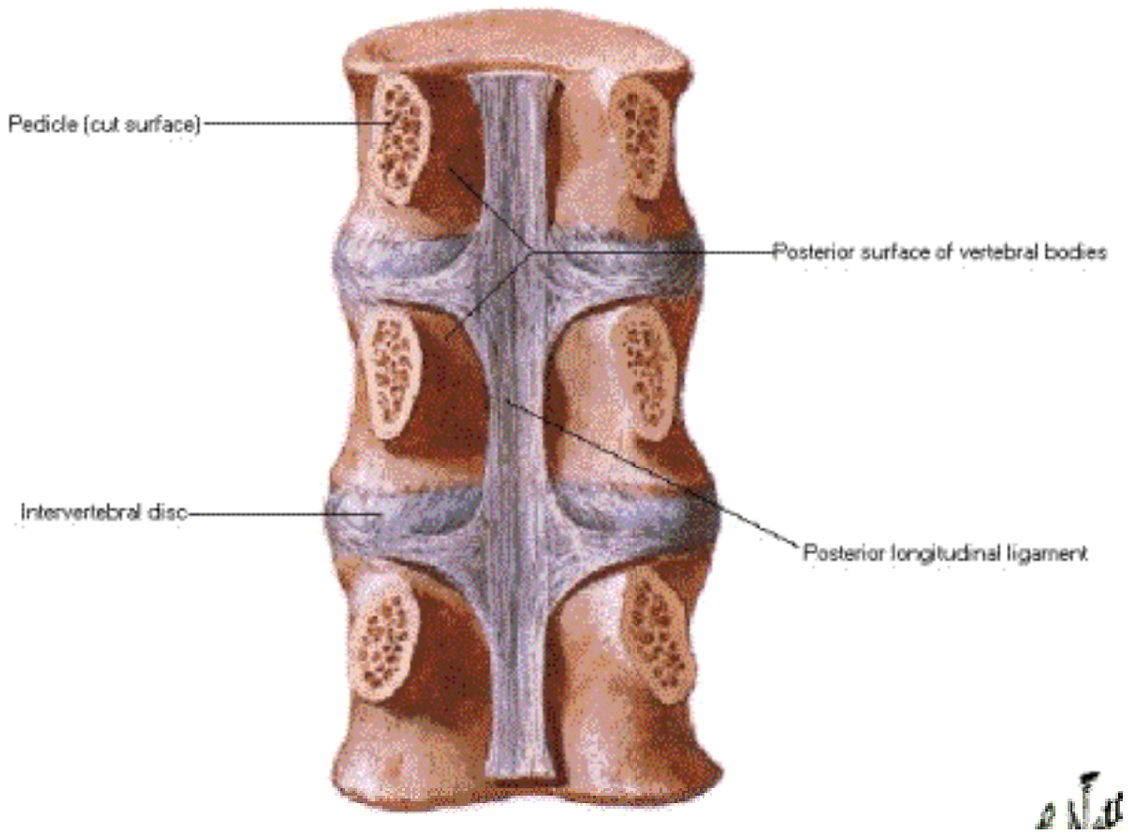
Vertebral Ligaments of Lumbar Region

Left Lateral View - Partially Sectioned



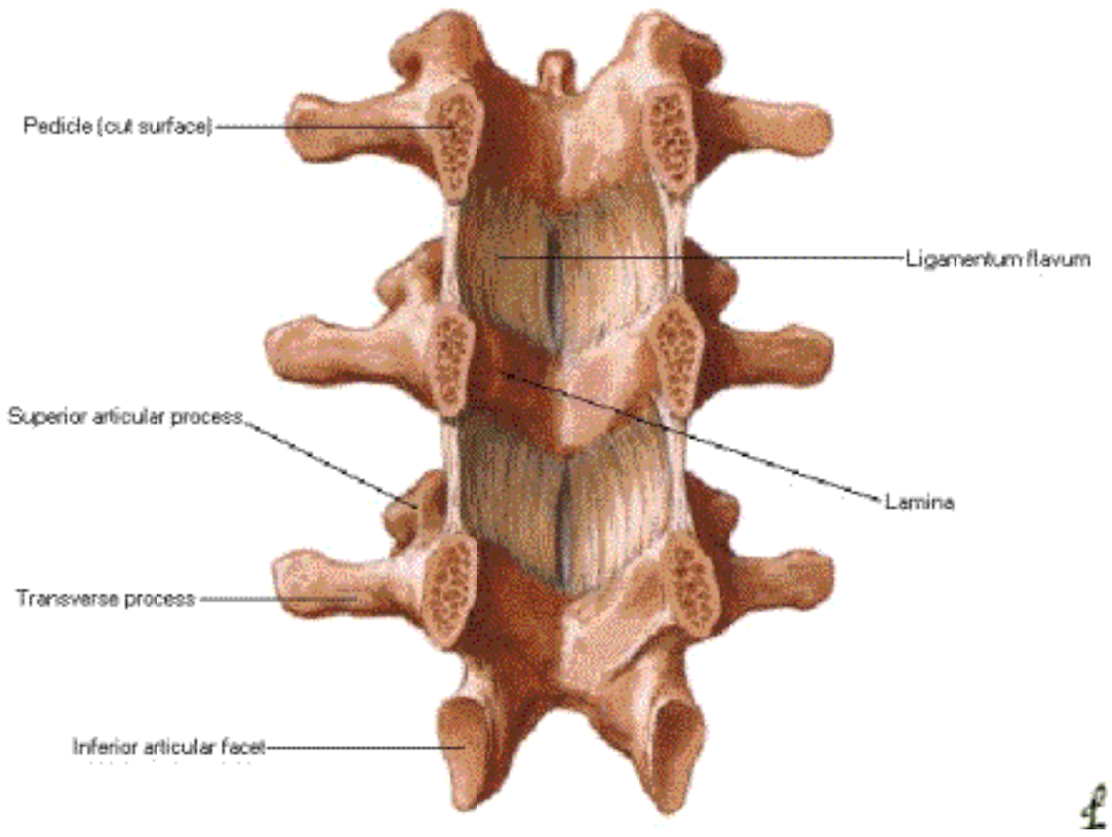
Vertebral Ligaments of Lumbar Region

Anterior Vertebral Segments - Posterior View



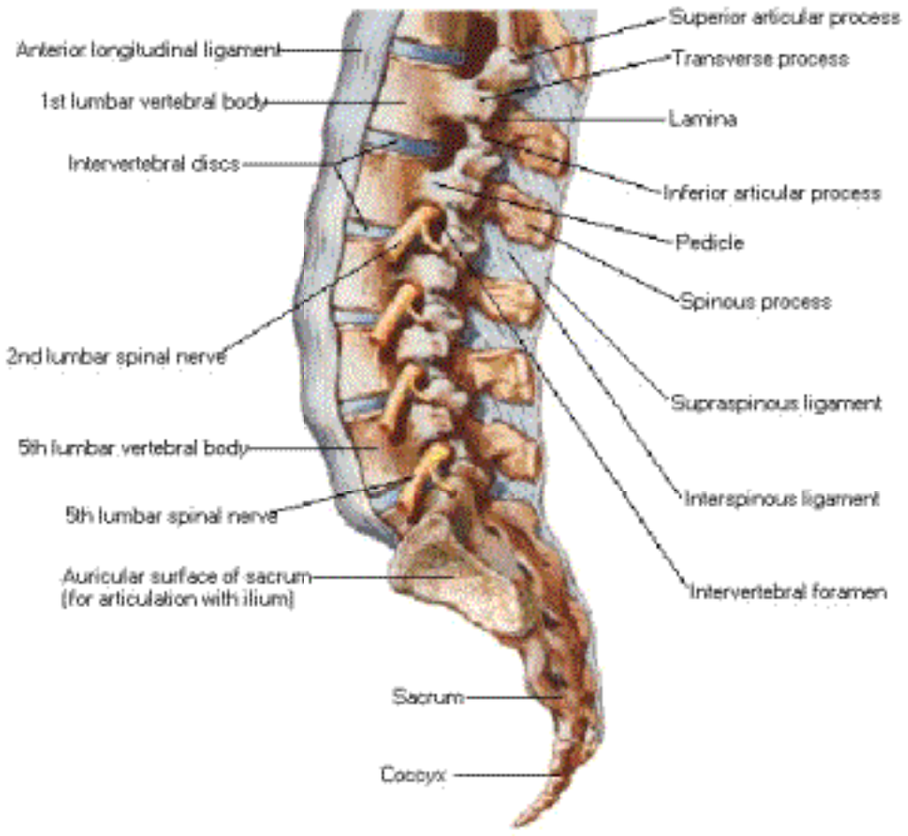
Vertebral Ligaments of Lumbar Region

Posterior Vertebral Segments - Anterior View



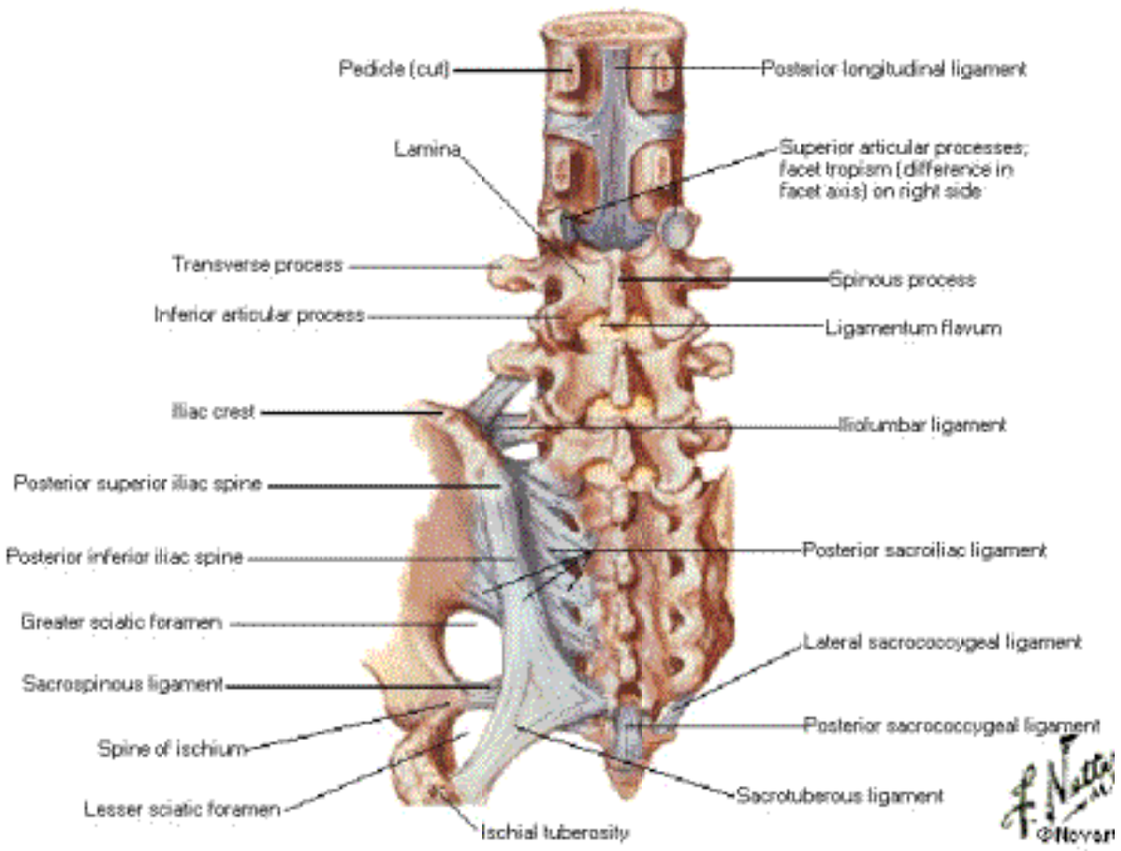
Vertebral Ligaments of Lumbosacral Region

Left Lateral View

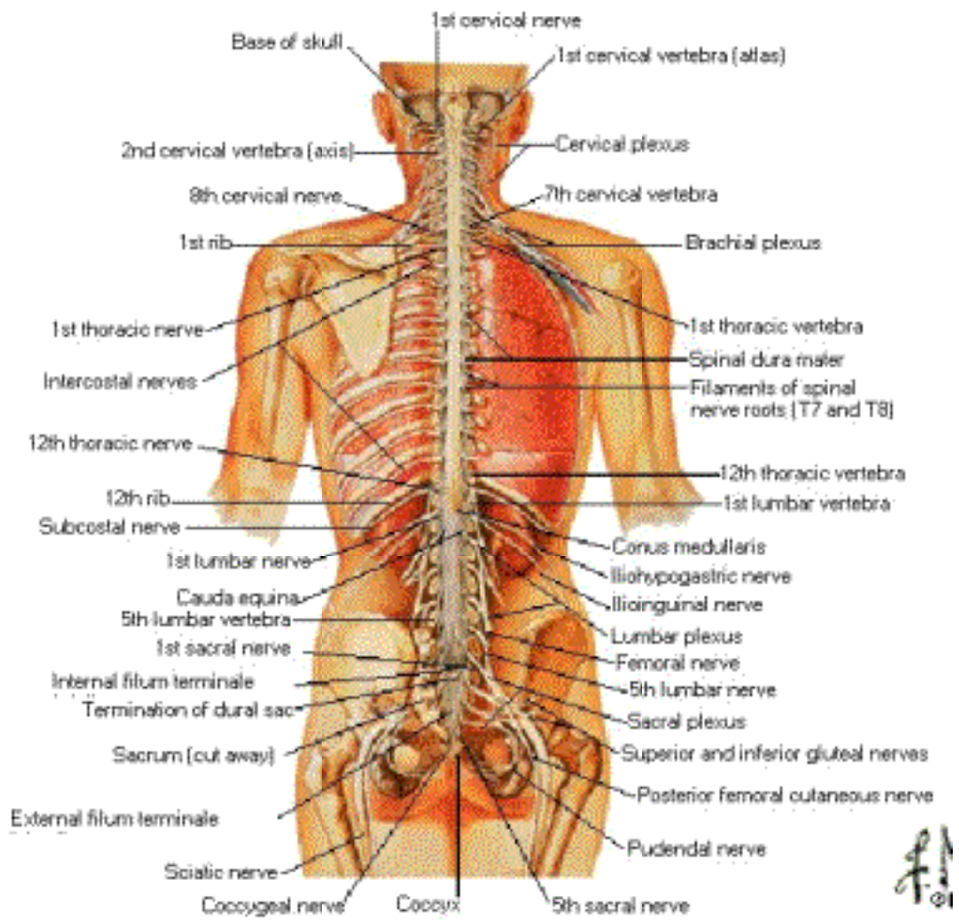


Vertebral Ligaments of Lumbosacral Region

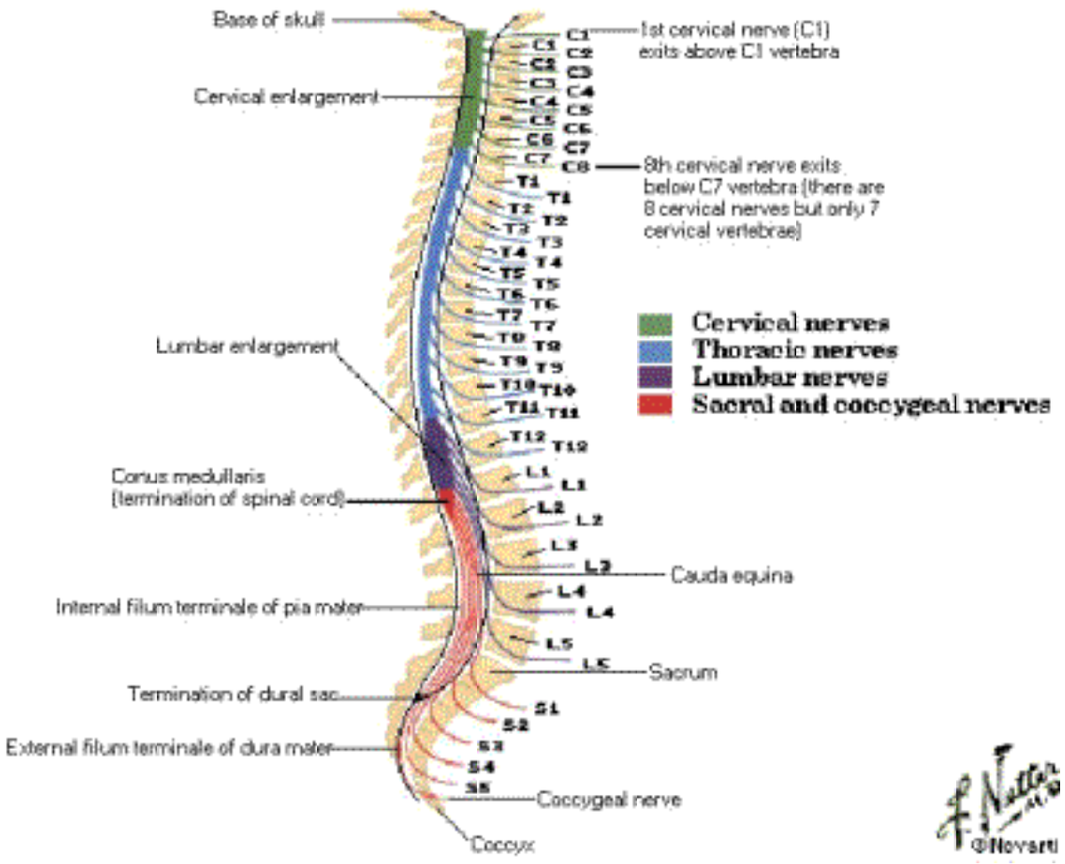
Posterior View



Spinal Cord in Situ

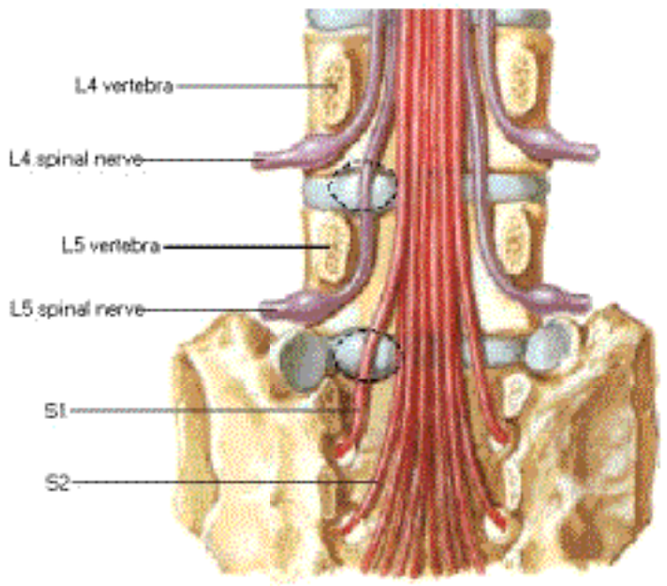


Relation of Spinal Nerve Roots to Vertebrae



Relation of Spinal Nerve Roots to Vertebrae

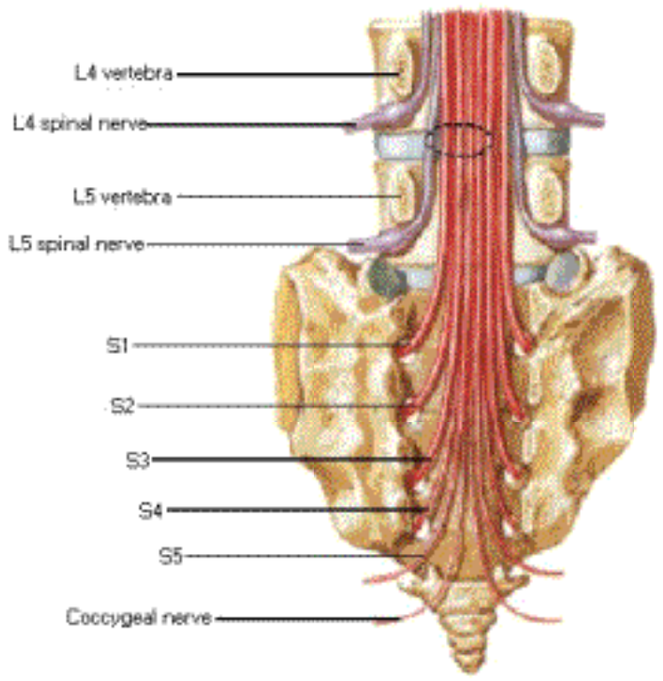
Lateral Protrusion



Lumbar disc protrusion does not usually affect nerve exiting above disc. Lateral protrusion at disc level L4- 5 affects 5th lumbar nerve, not 4th lumbar nerve. Protrusion at disc level L5- S1 affects 1st sacral nerve, not 5th lumbar nerve

Relation of Spinal Nerve Roots to Vertebrae

Medial Protrusion



Medial protrusion at disc level L4-5 rarely affects 4th lumbar nerve but may affect 5th lumbar nerve and sometimes 1st-4th sacral nerves

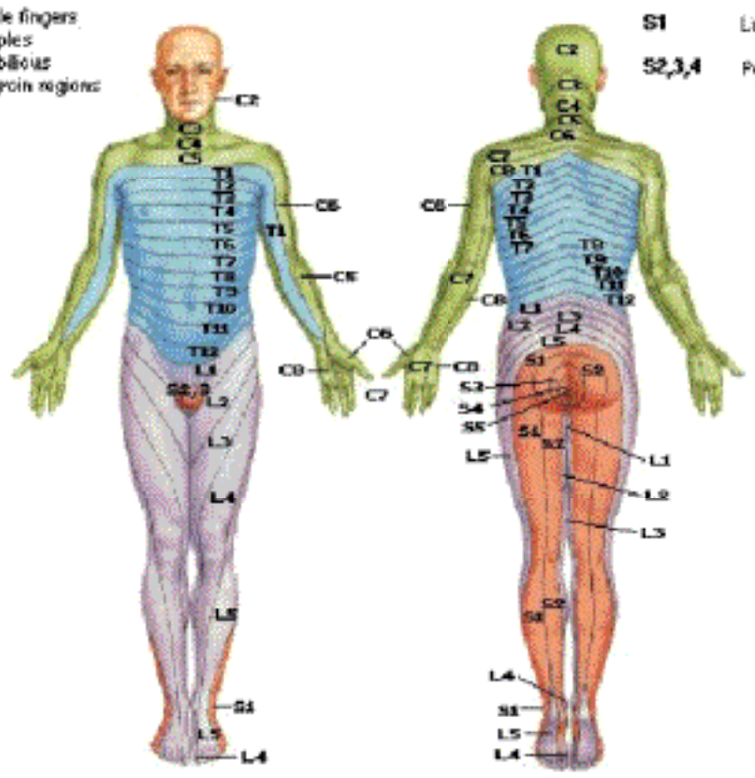
Dermatomes

Levels of principal dermatomes

C5	Clavicles
C5,6,7	Lateral parts of upper limbs
C8,T1	Medial sides of upper limbs
C6	Thumb
C6,7,8	Hand
C8	Ring and little fingers
T4	Level of nipples
T10	Level of umbilicus
T12	Inguinal or groin regions

Levels of principal dermatomes

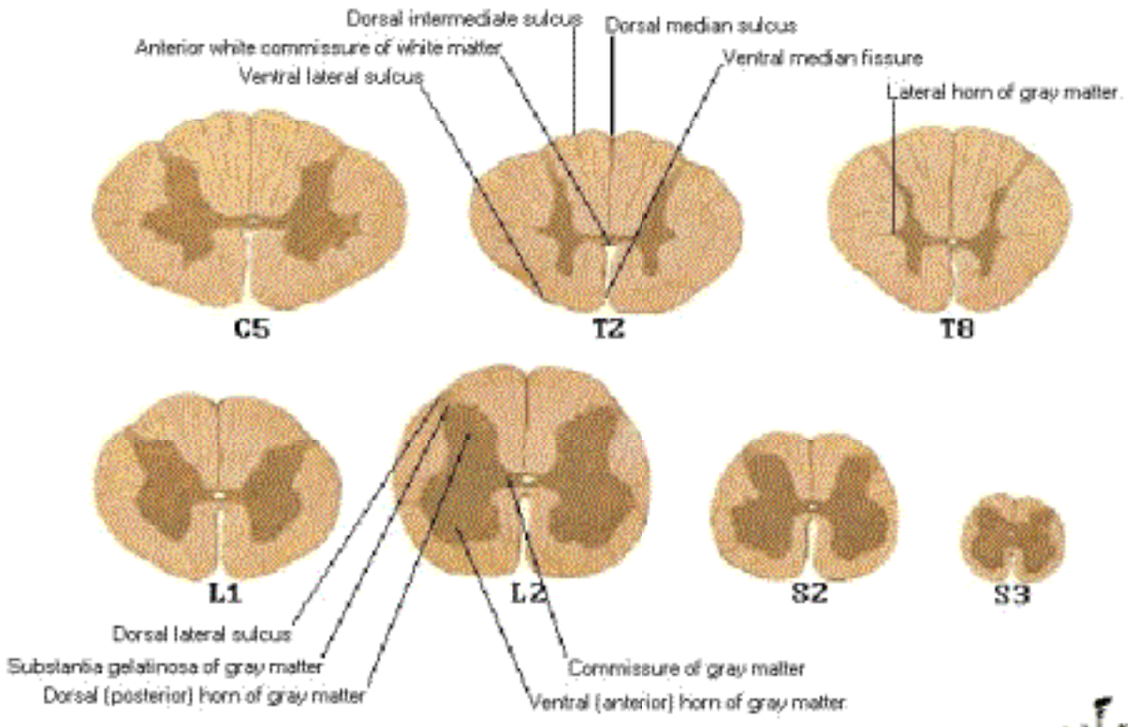
L1,2,3,4	Anterior and inner surfaces of lower limbs
L4,5,S1	Foot
L4	Medial side of great toe
S1,2,L5	Posterior and outer surfaces of lower limbs
S1	Lateral margin of foot and little toe
S2,3,4	Perineum



Schematic demarcation of dermatomes shown as distinct segments. There is actually considerable overlap between any two adjacent dermatomes

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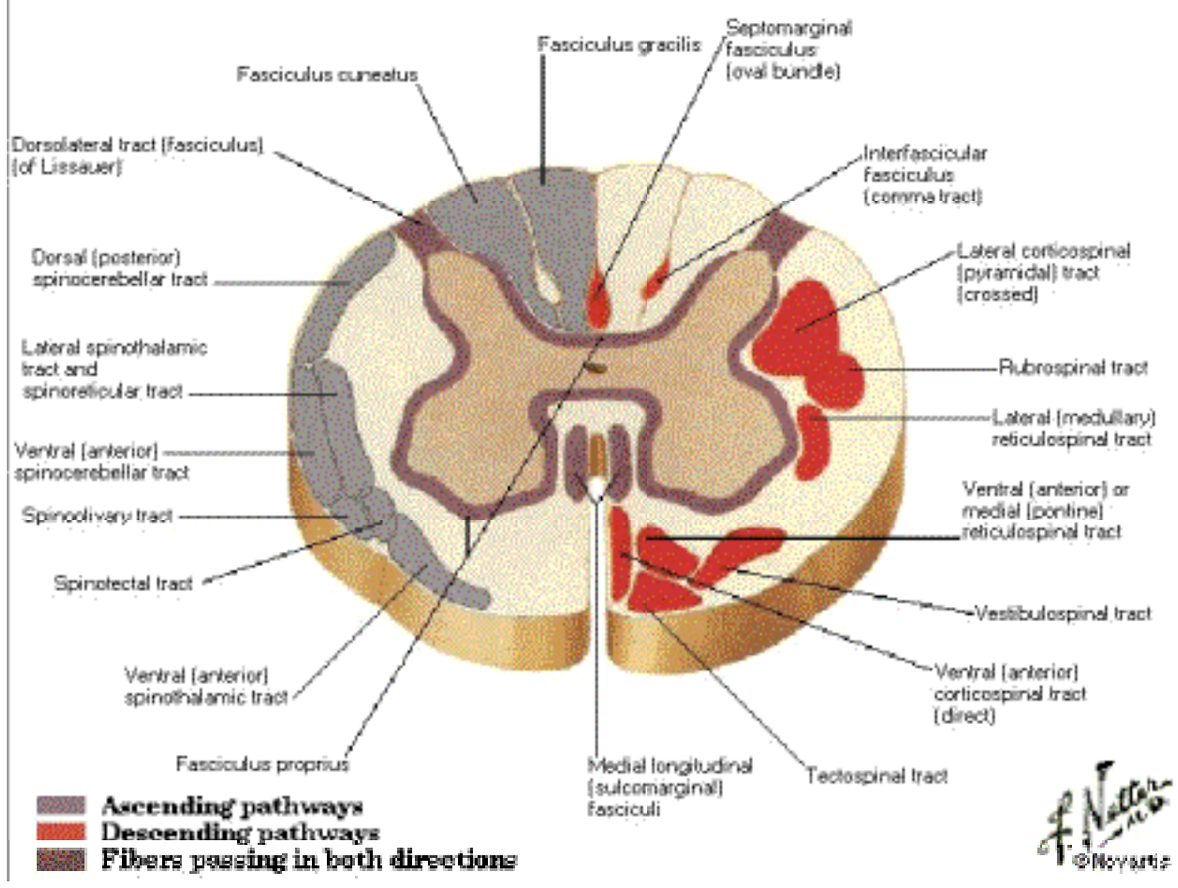
Spinal Cord Cross Sections



Sections through spinal cord at various levels

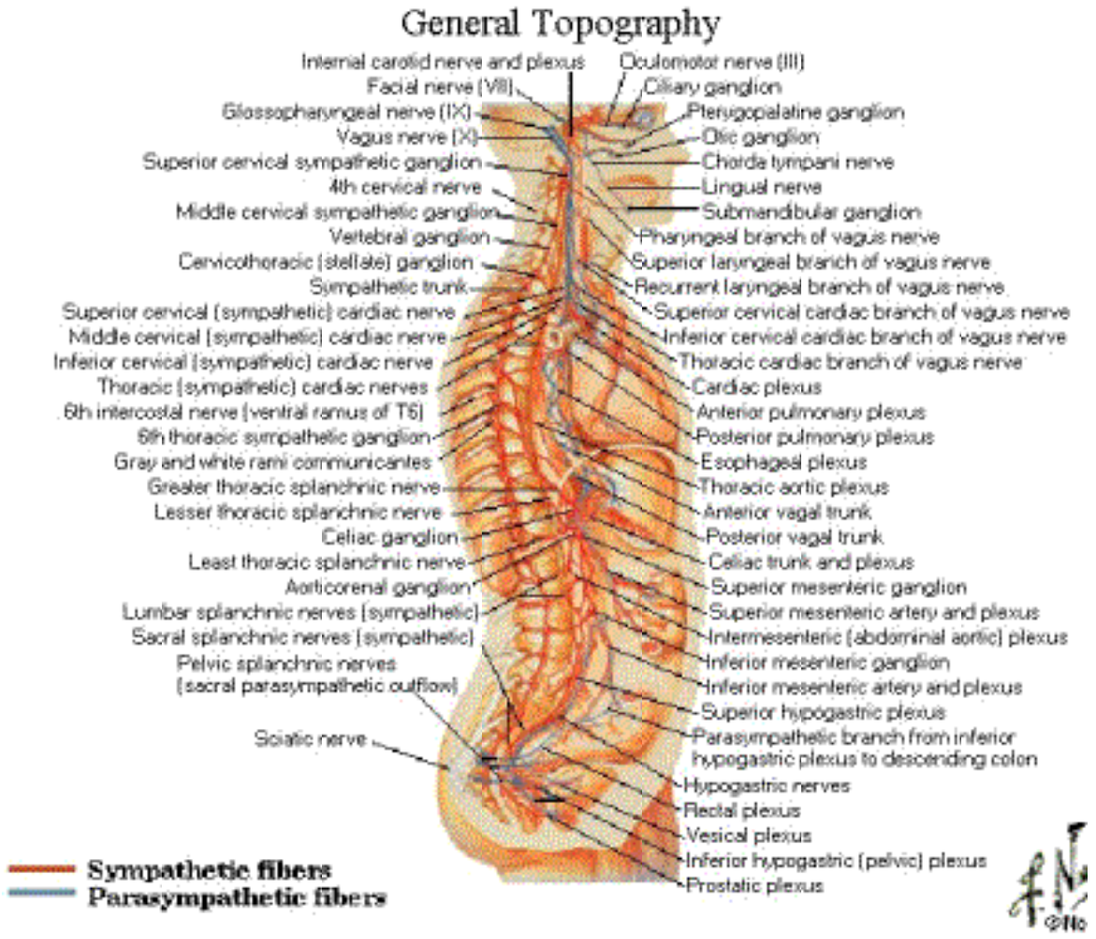
Spinal Cord Cross Sections

Fiber Tracts



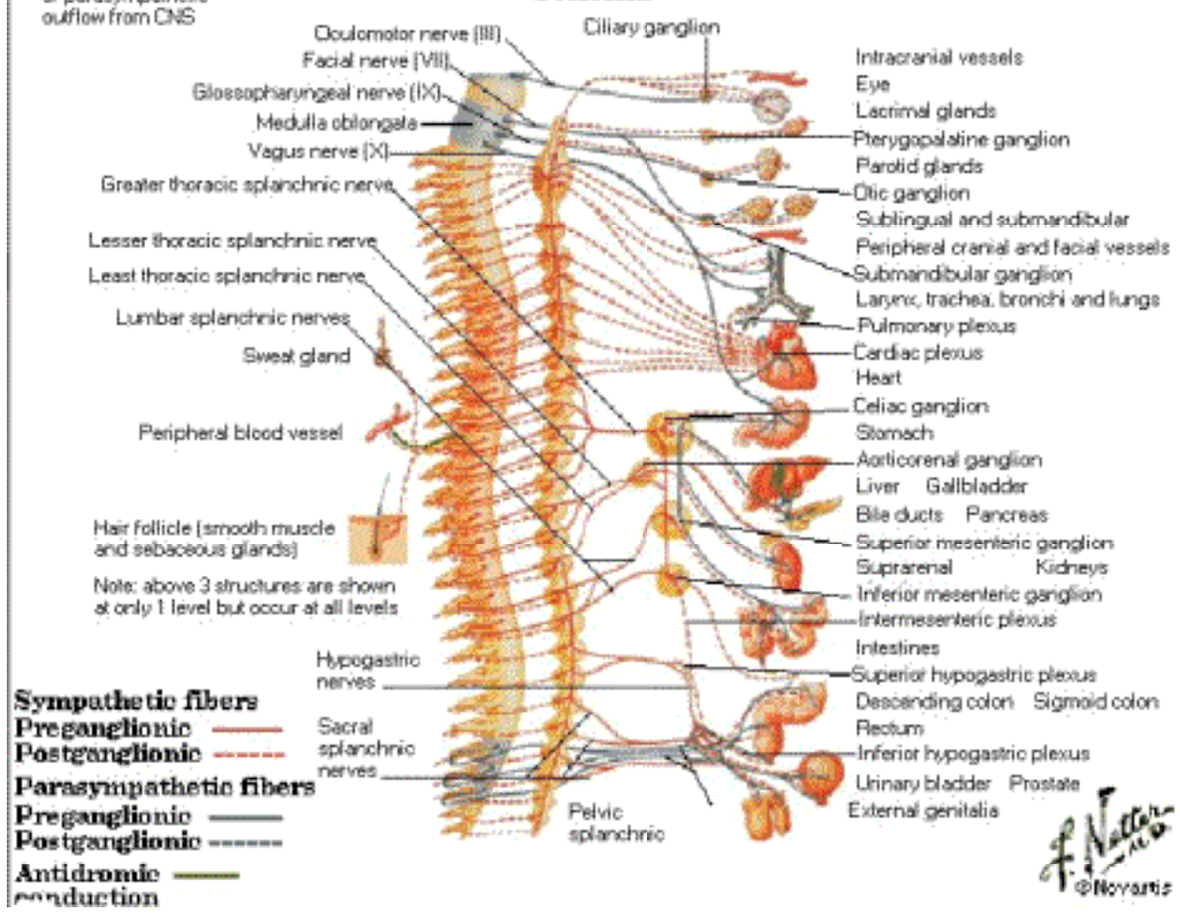
Autonomic Nervous System

General Topography

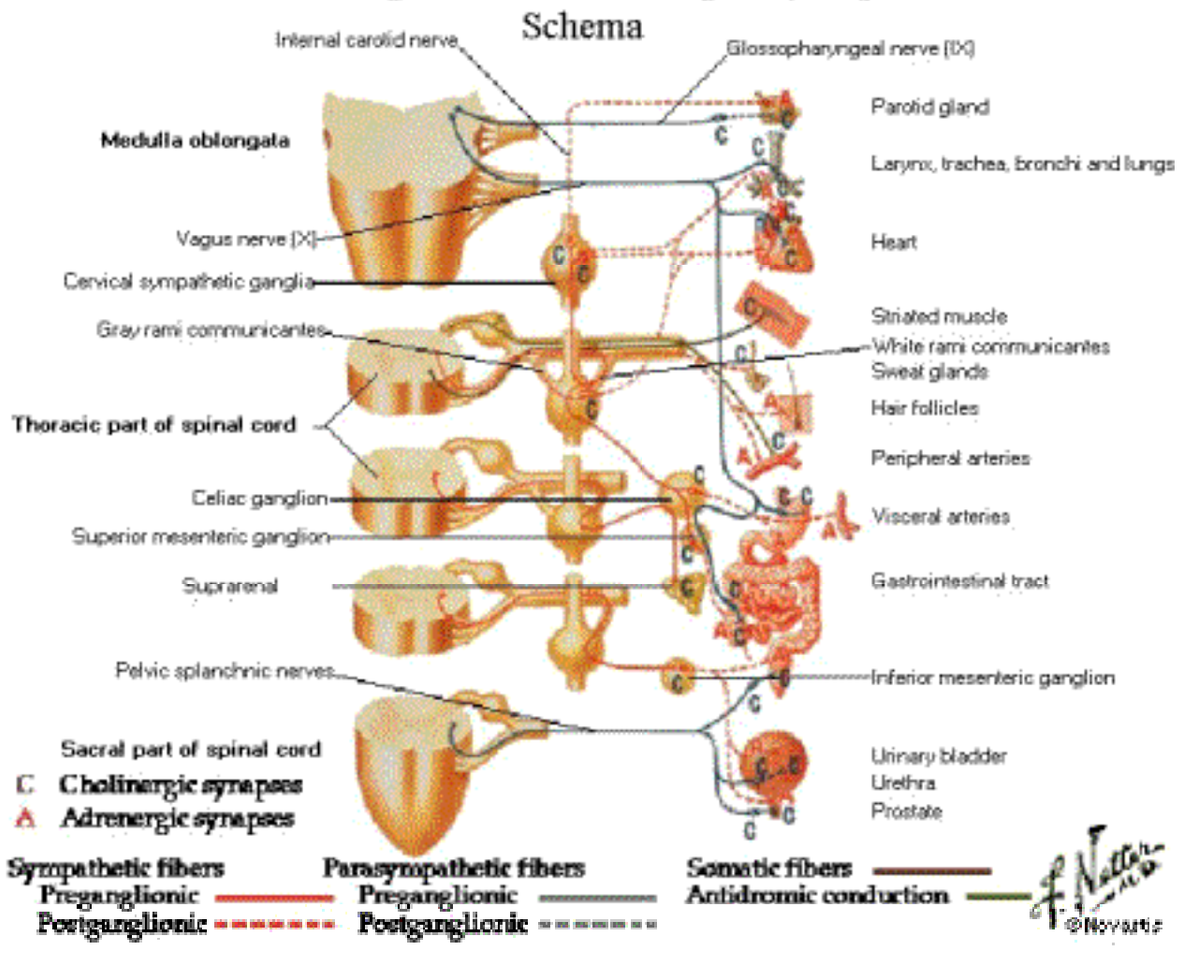


Autonomic Nervous System

Schema

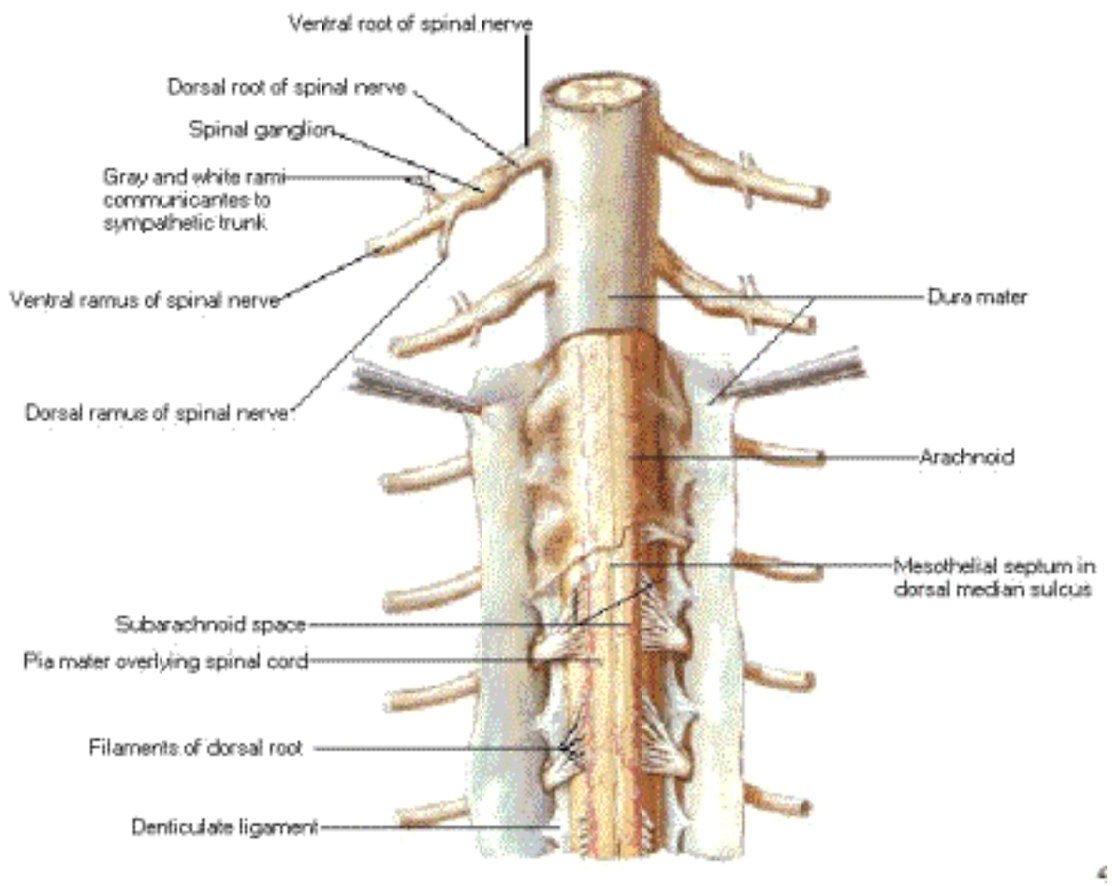


Cholinergic and Adrenergic Synapses



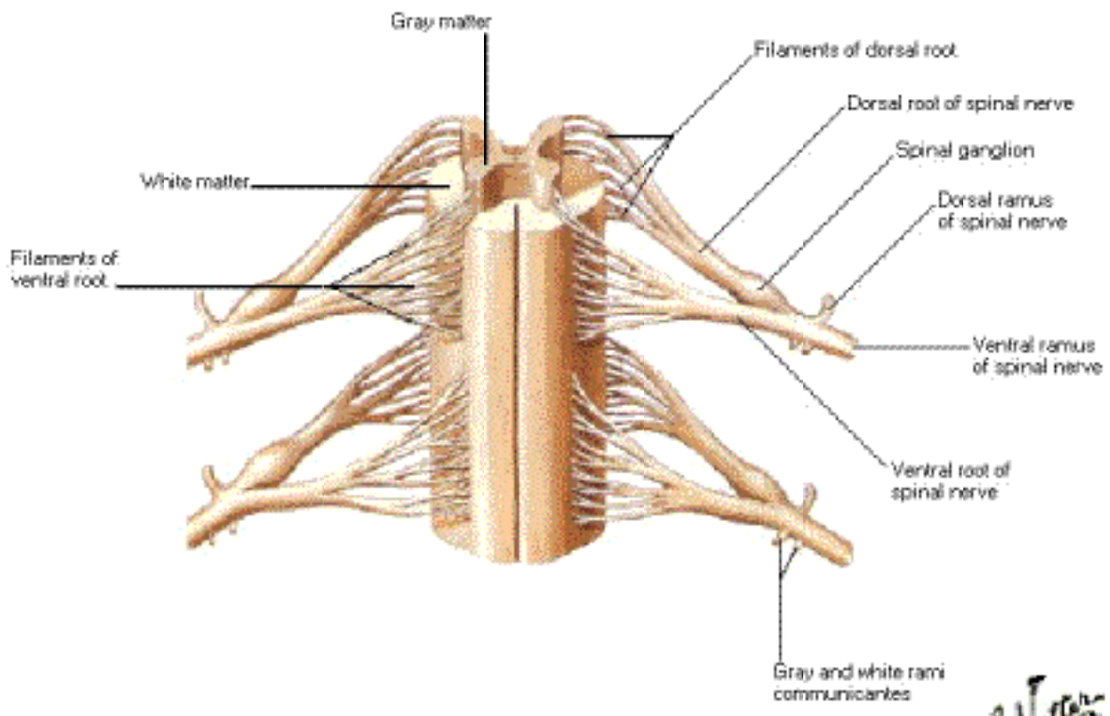
Spinal Membranes and Nerve Roots

Posterior View



Spinal Membranes and Nerve Roots

Anterior View

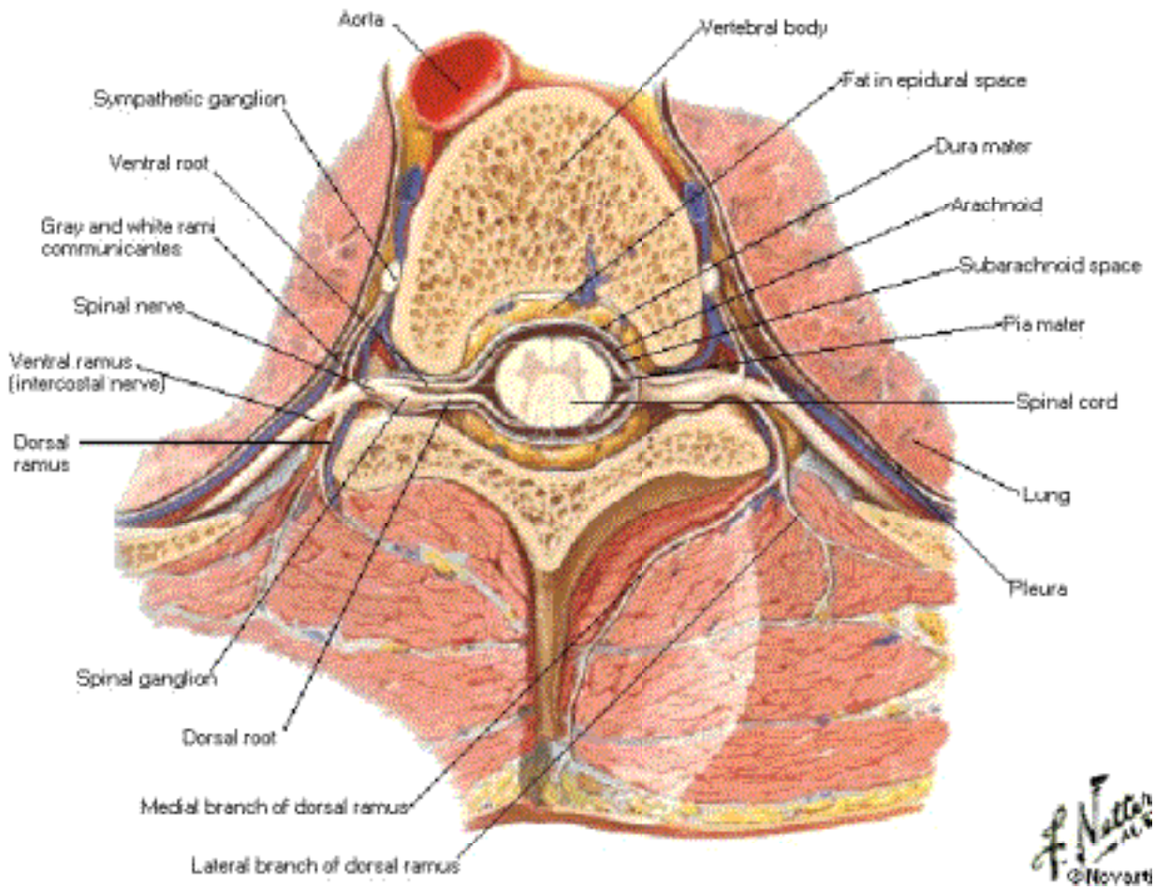


Membranes removed (greatly magnified)

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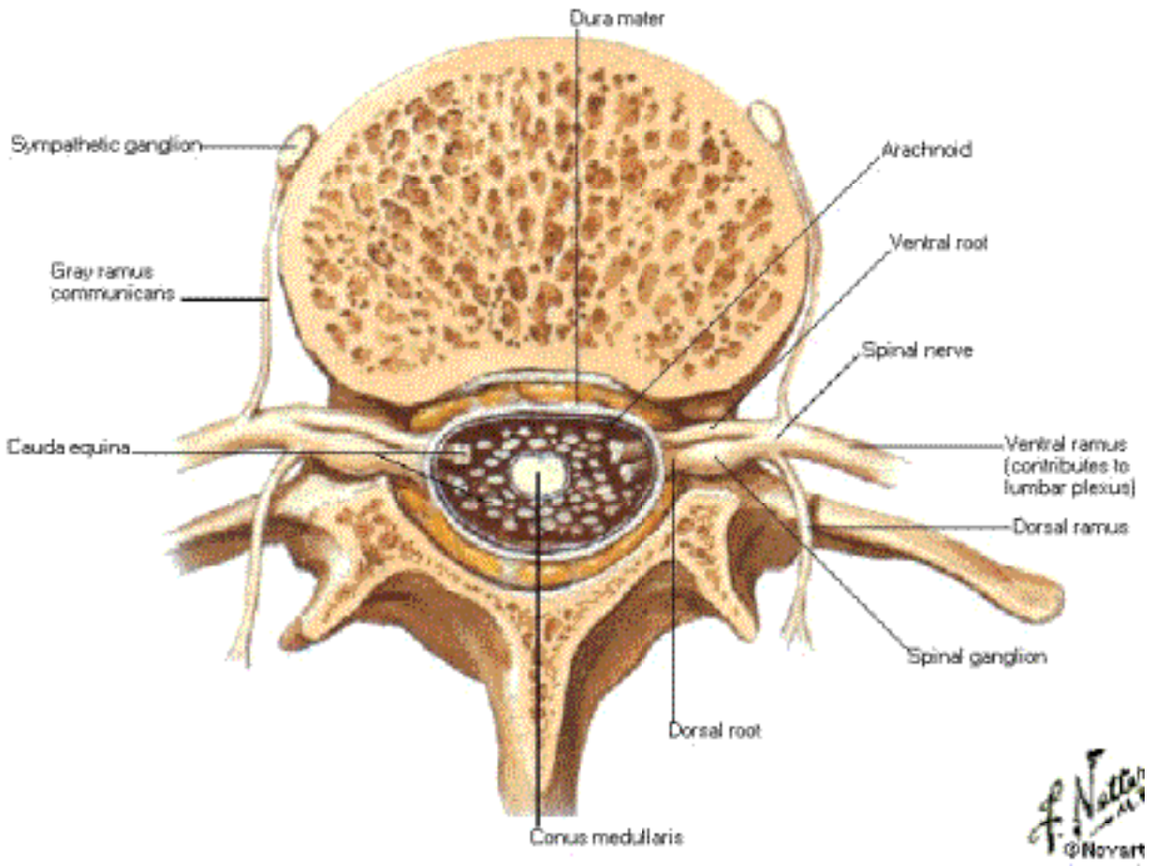
Spinal Nerve Origin

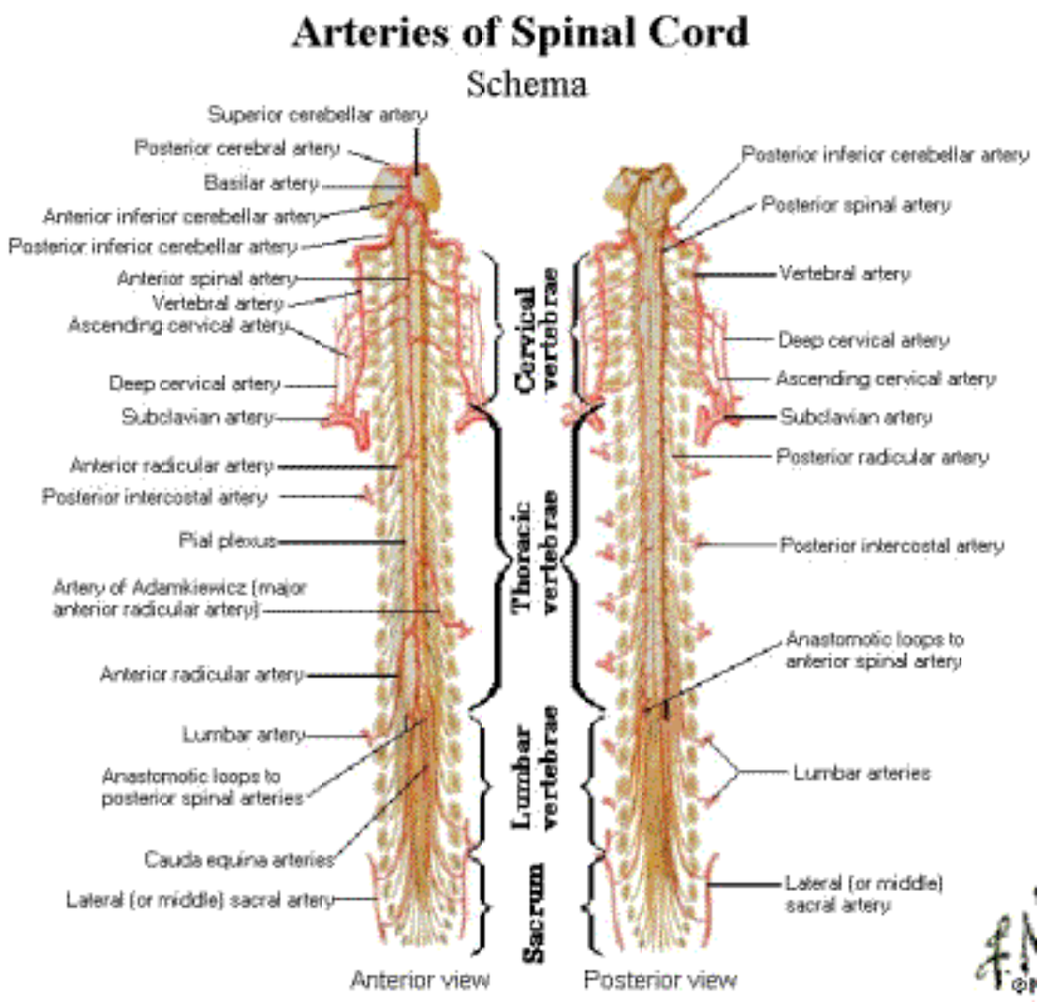
Section through Thoracic Vertebra



Spinal Nerve Origin

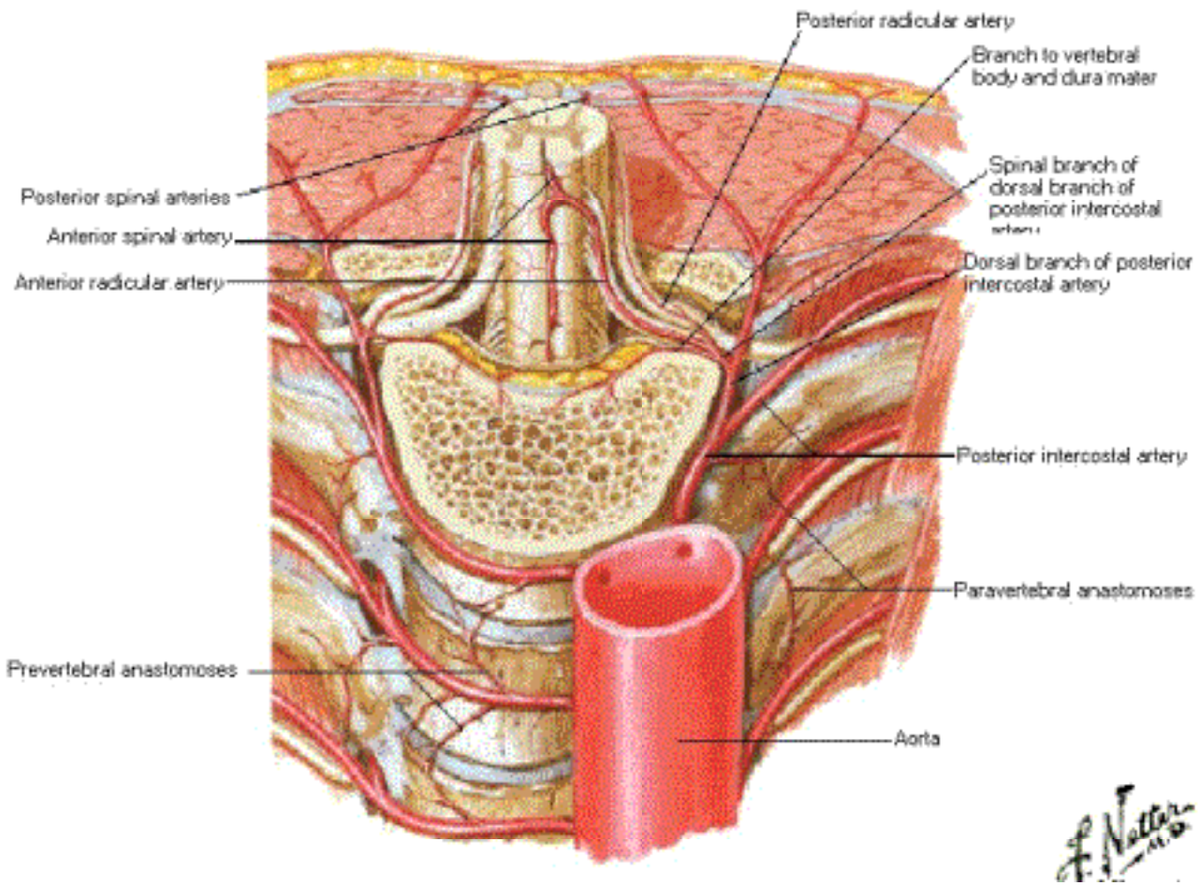
Section through Lumbar Vertebra




Arteries of Spinal Cord
Schema
Superior cerebellar artery
Posterior cerebral artery
Basilar artery
Anterior inferior cerebellar artery
Posterior inferior cerebellar artery
Anterior spinal artery
Vertebral artery
Ascending cervical artery
Deep cervical artery
Subclavian artery
Anterior radicular artery
Posterior intercostal artery
Pial plexus
Artery of Adamkiewicz (major anterior radicular artery)
Anterior radicular artery
Lumbar artery
Anastomotic loops to posterior spinal arteries
Cauda equina arteries
Lateral (or middle) sacral artery
Cervical vertebrae
Thoracic vertebrae
Lumbar vertebrae
Sacrum
Anterior view
Posterior inferior cerebellar artery
Posterior spinal artery
Vertebral artery
Deep cervical artery
Ascending cervical artery
Subclavian artery
Posterior radicular artery
Posterior intercostal artery
Anastomotic loops to anterior spinal artery
Lumbar arteries
Lateral (or middle) sacral artery
Posterior view

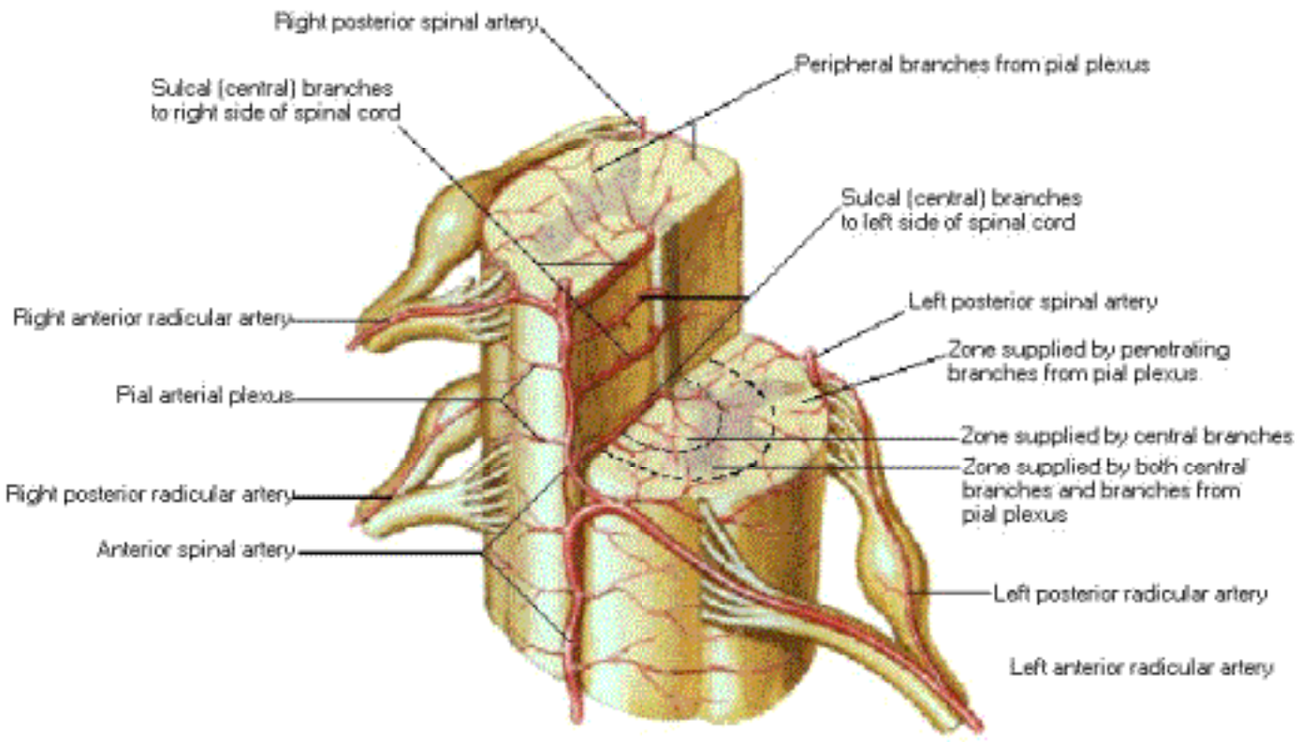
Arteries of Spinal Cord - Intrinsic Distribution

Thoracic Section



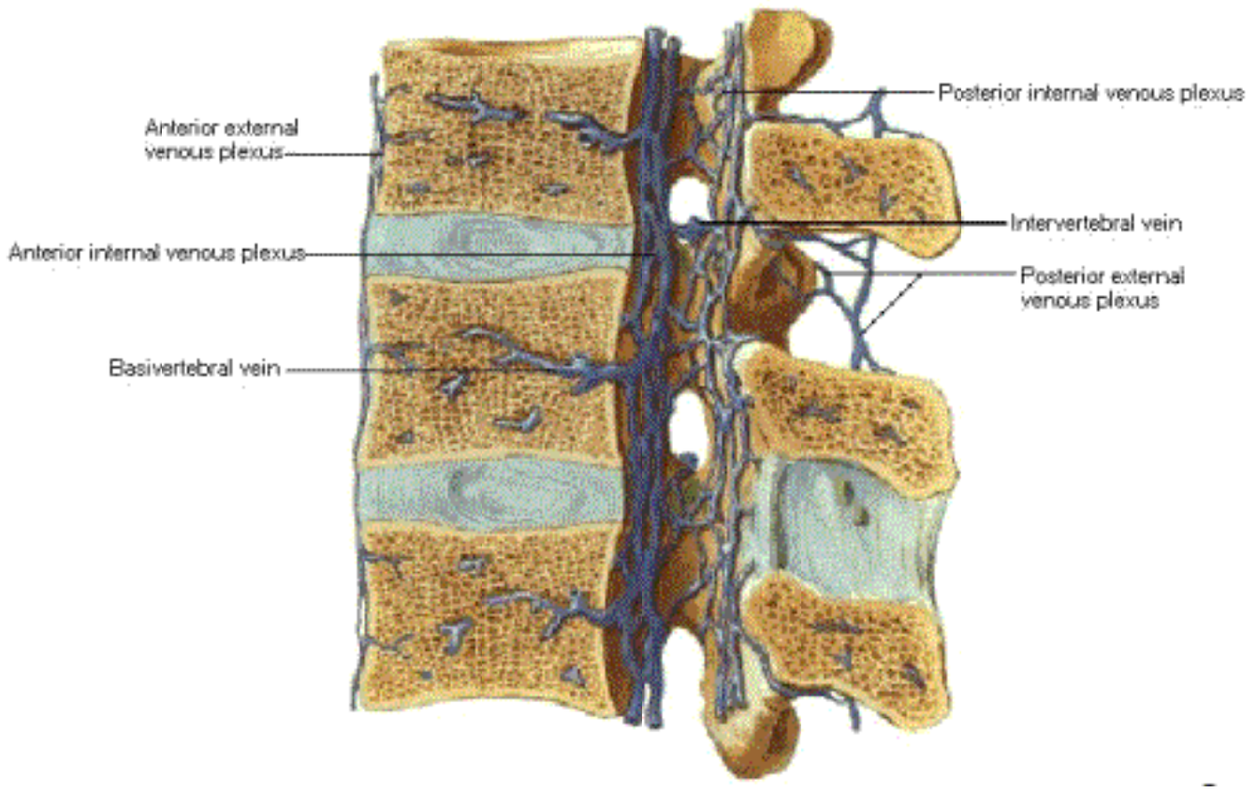
Arteries of Spinal Cord - Intrinsic Distribution

Schema



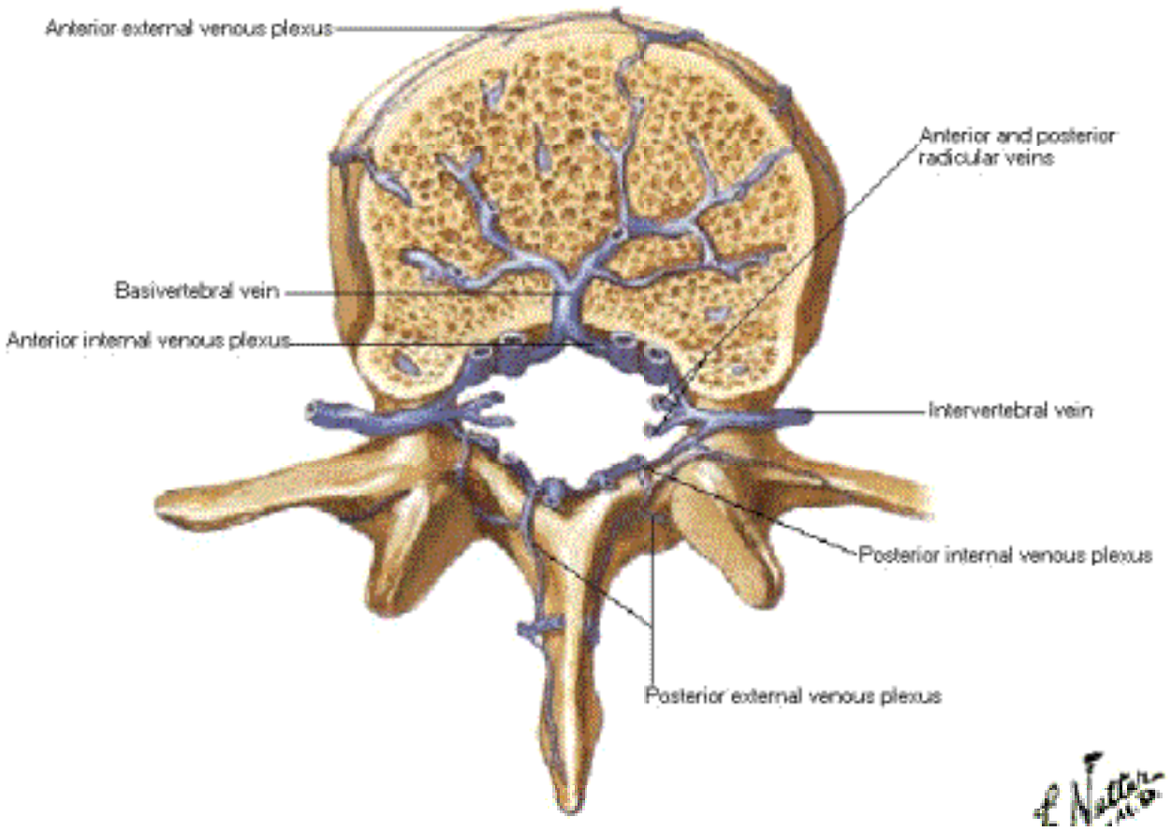
Veins of Spinal Cord

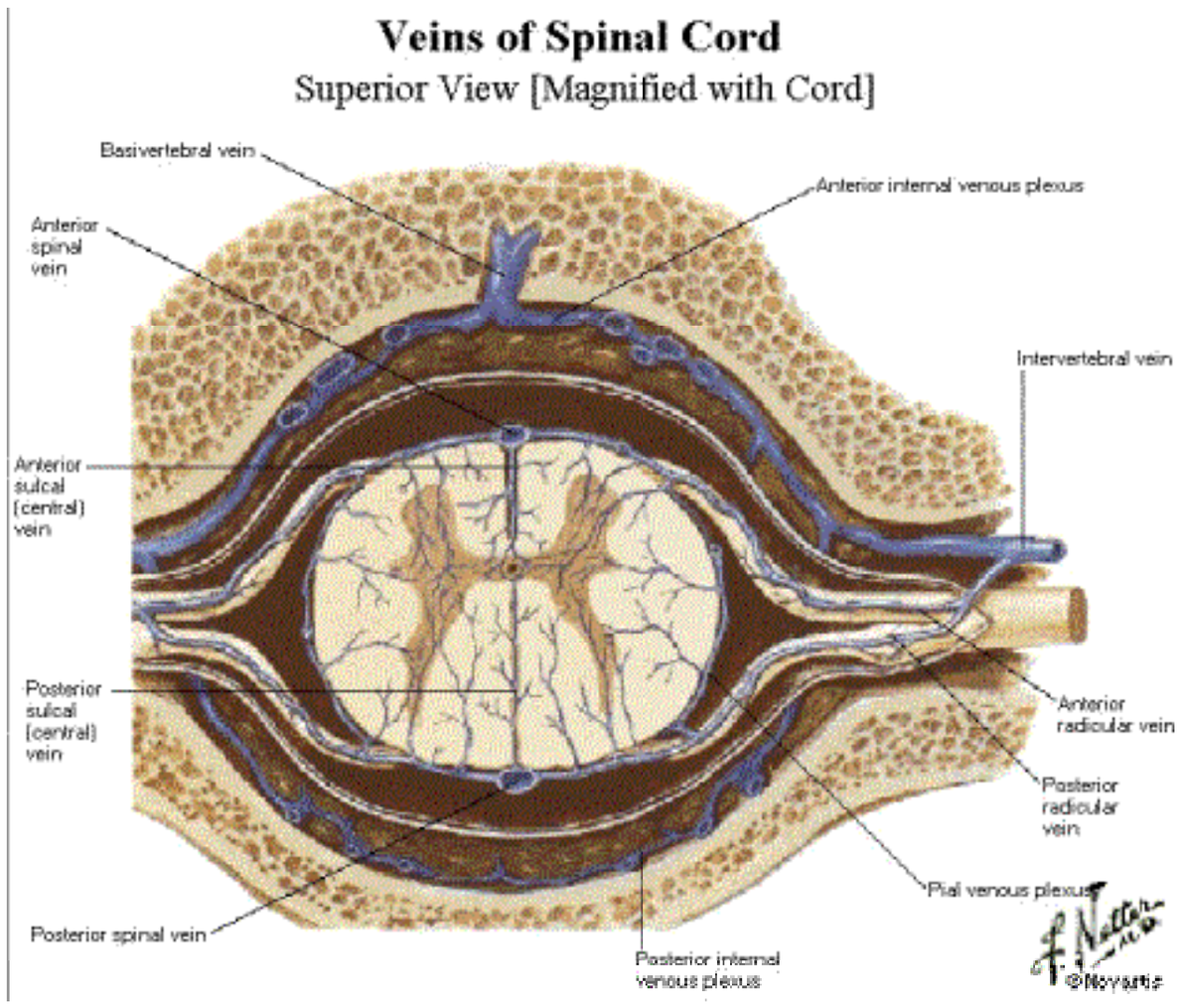
Sagittal Section [without Cord]



Veins of Spinal Cord

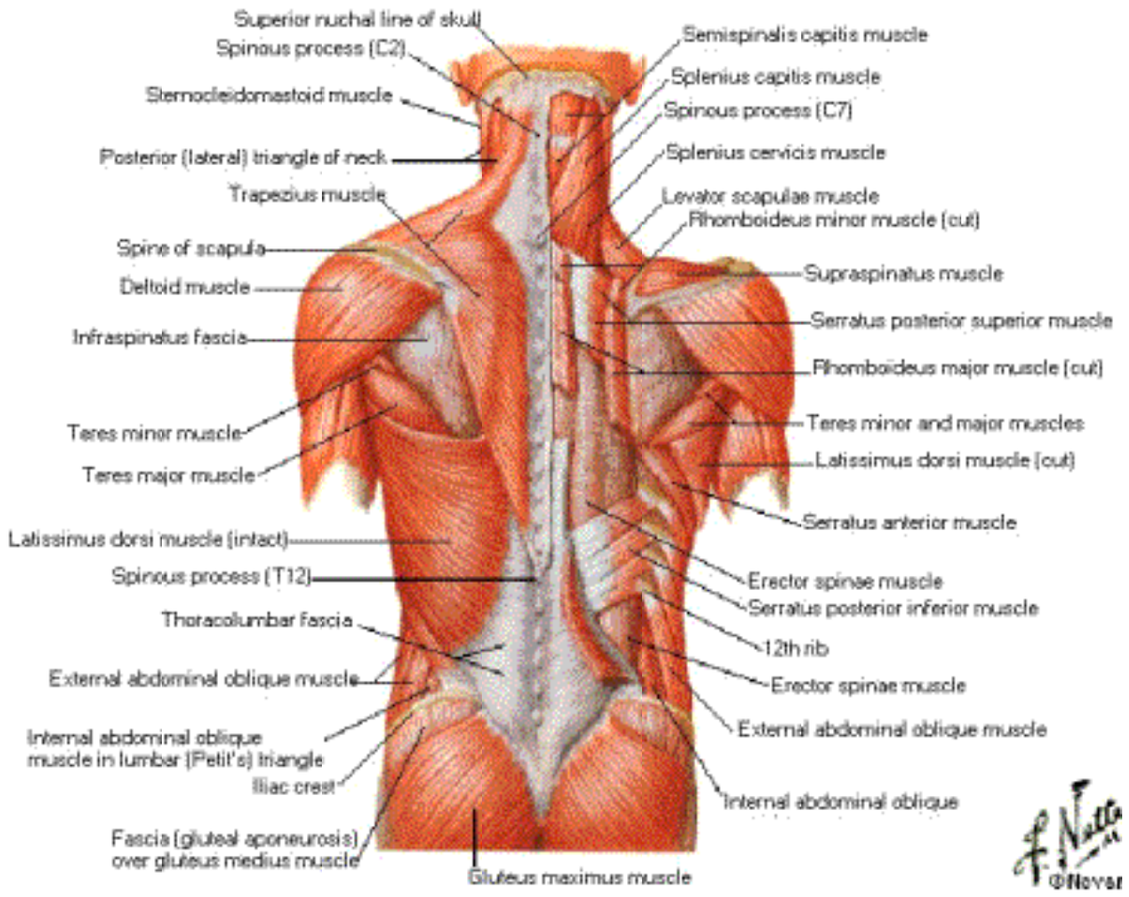
Superior View [without Cord]




Veins of Spinal Cord
Superior View [Magnified with Cord]
Basivertebral vein
Anterior internal venous plexus
Anterior spinal vein
Intervertebral vein
Anterior sulcal (central) vein
Posterior sulcal (central) vein
Anterior radicular vein
Posterior radicular vein
Pial venous plexus
Posterior spinal vein
Posterior internal venous plexus
©Novartis

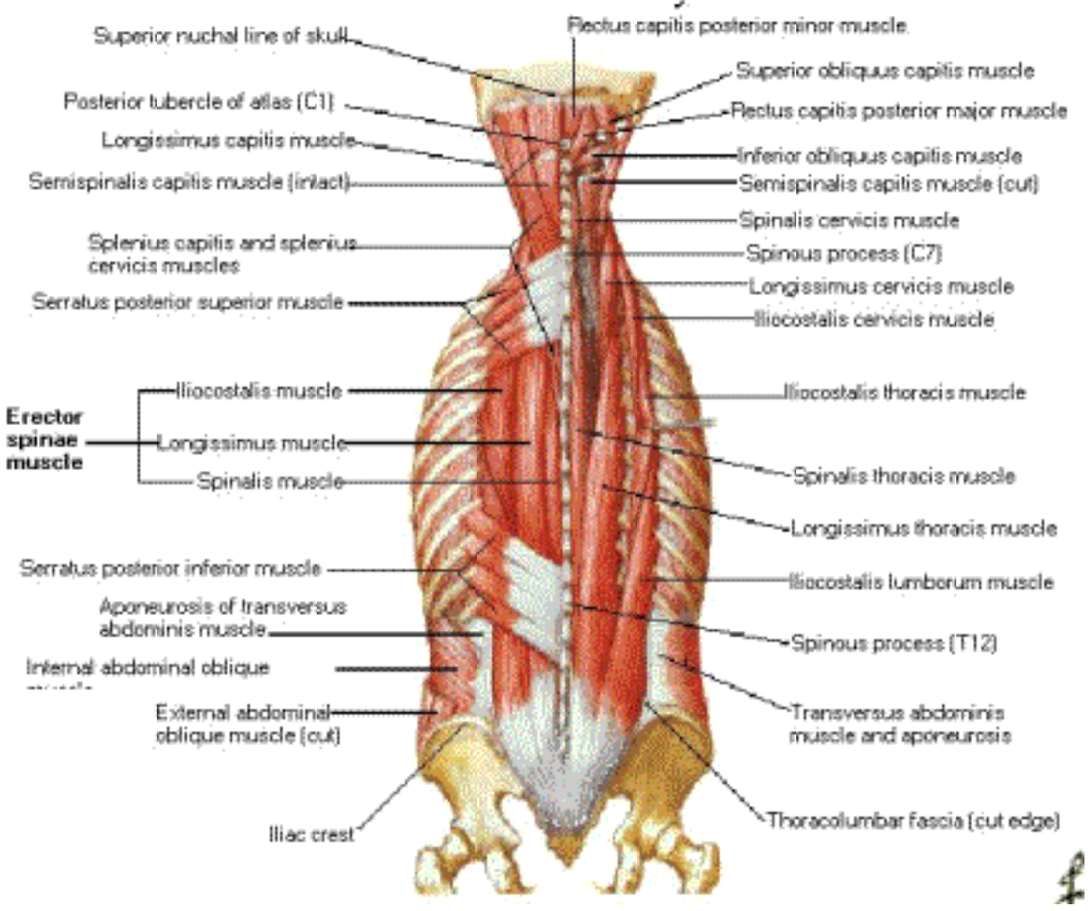
Muscles of Back

Superficial Layers



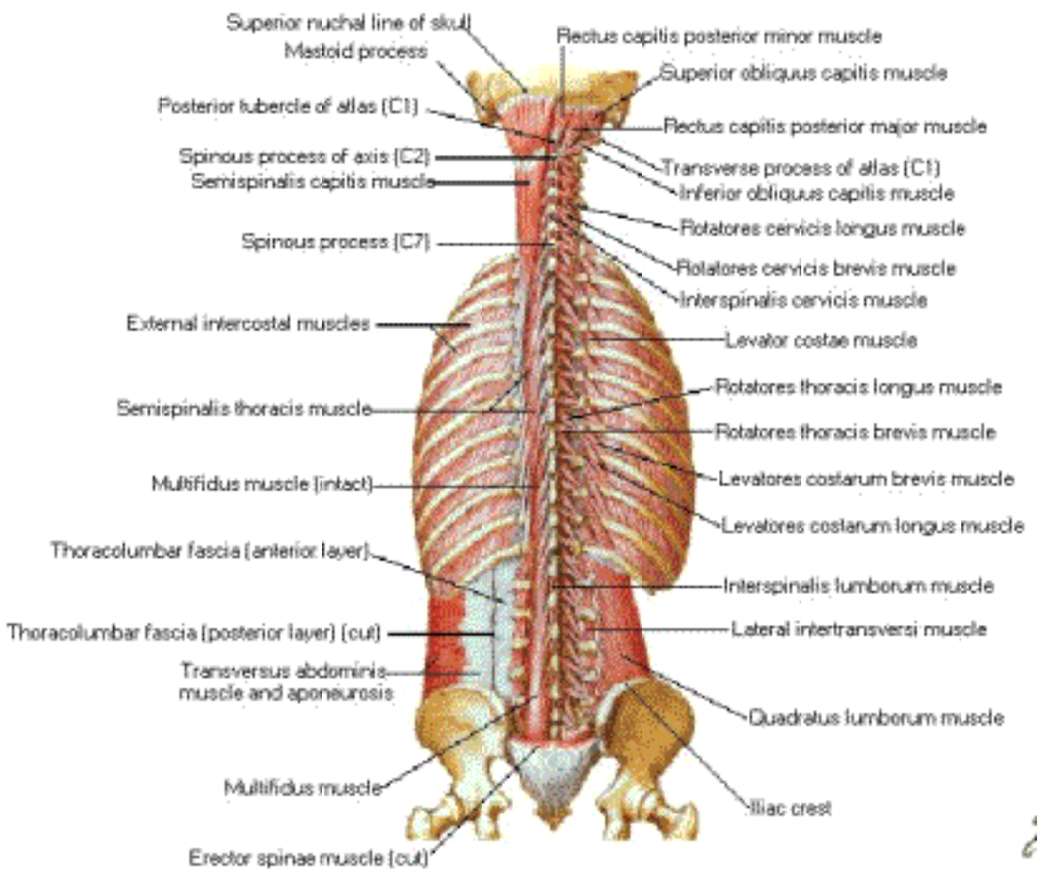
Muscles of Back

Intermediate Layers

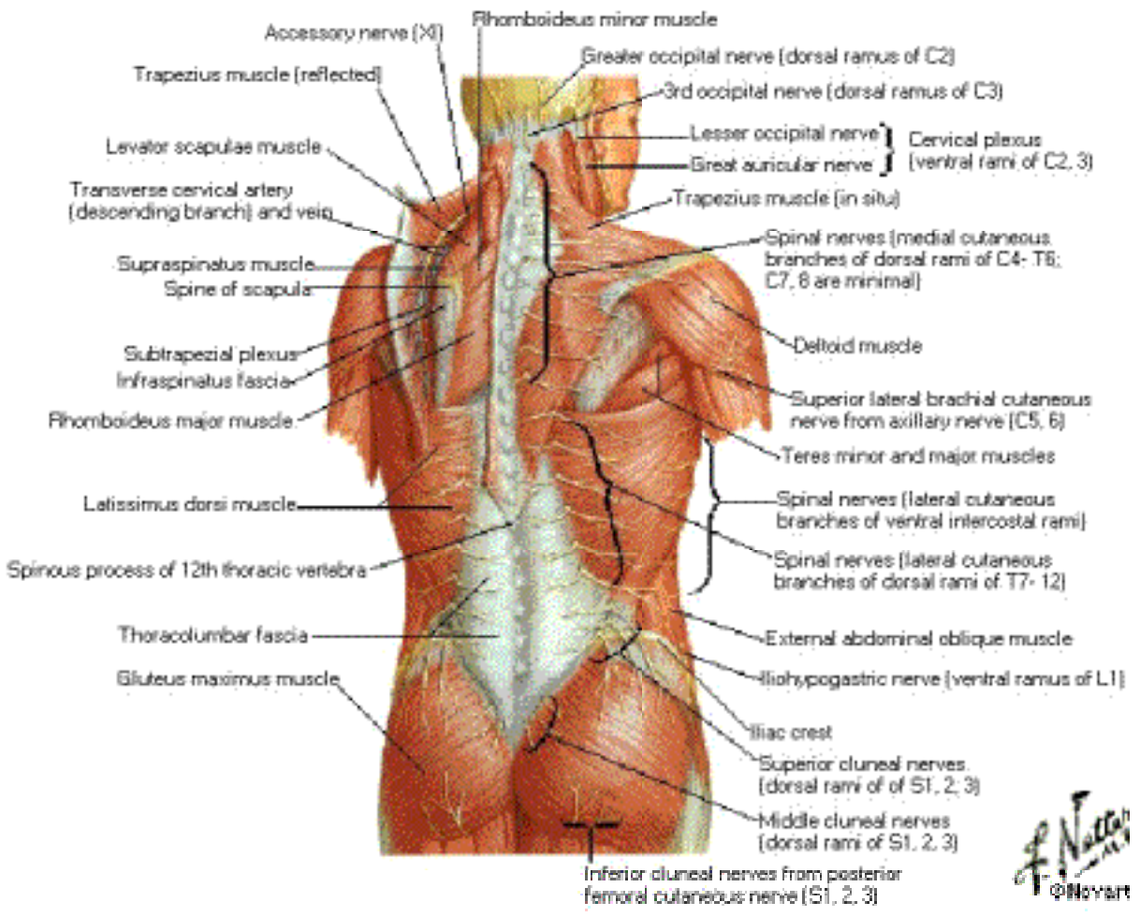


Muscles of Back

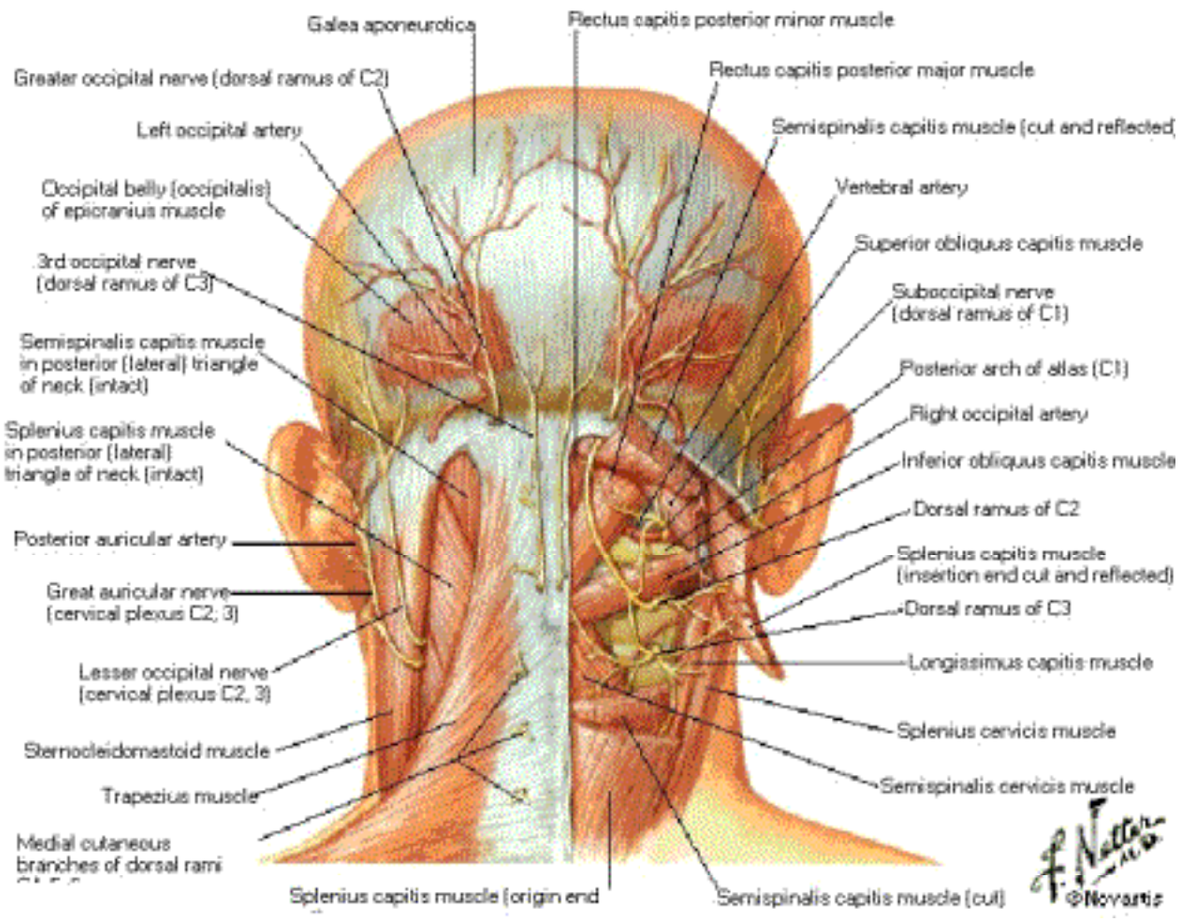
Deep Layers



Nerves of Back

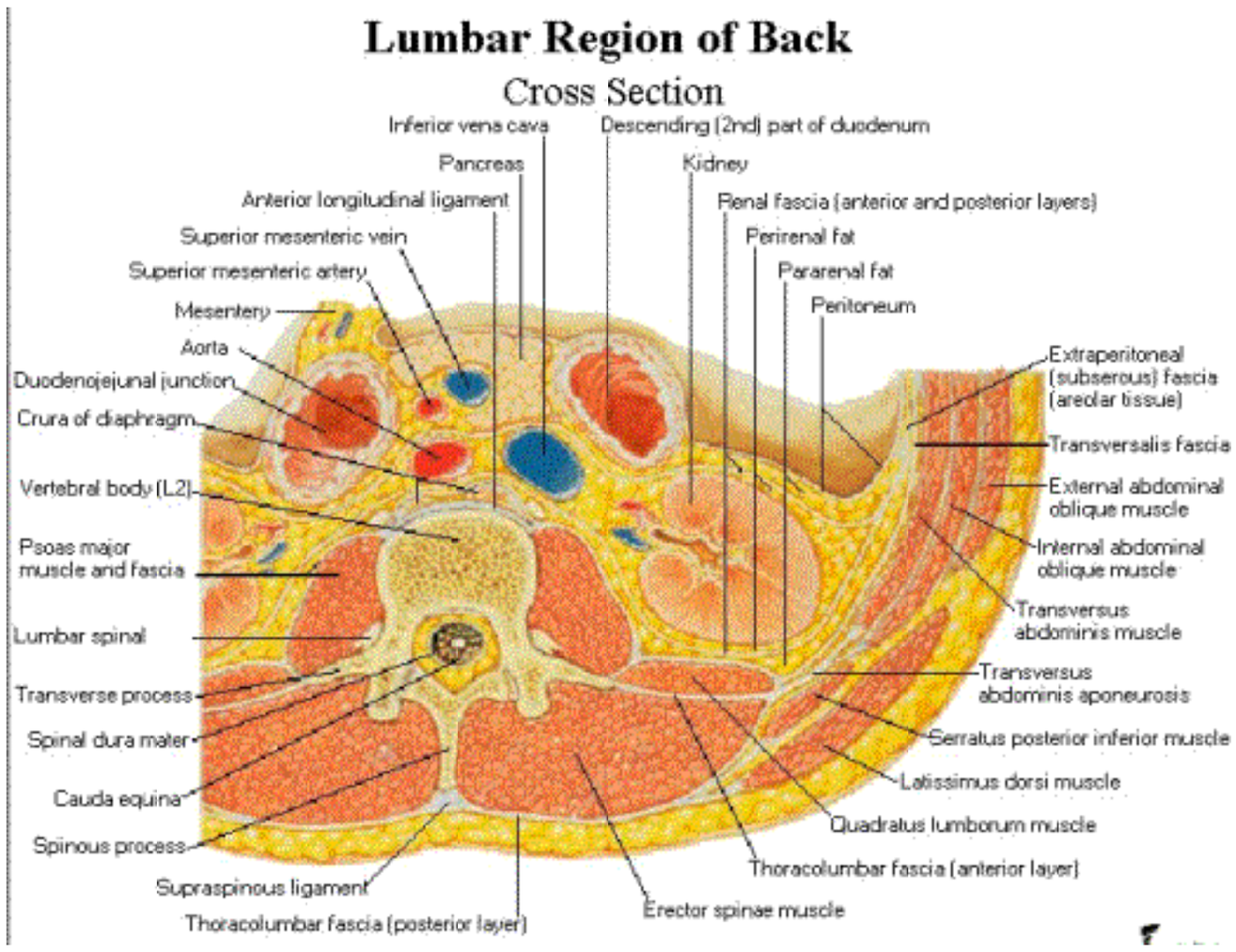


Suboccipital Triangle

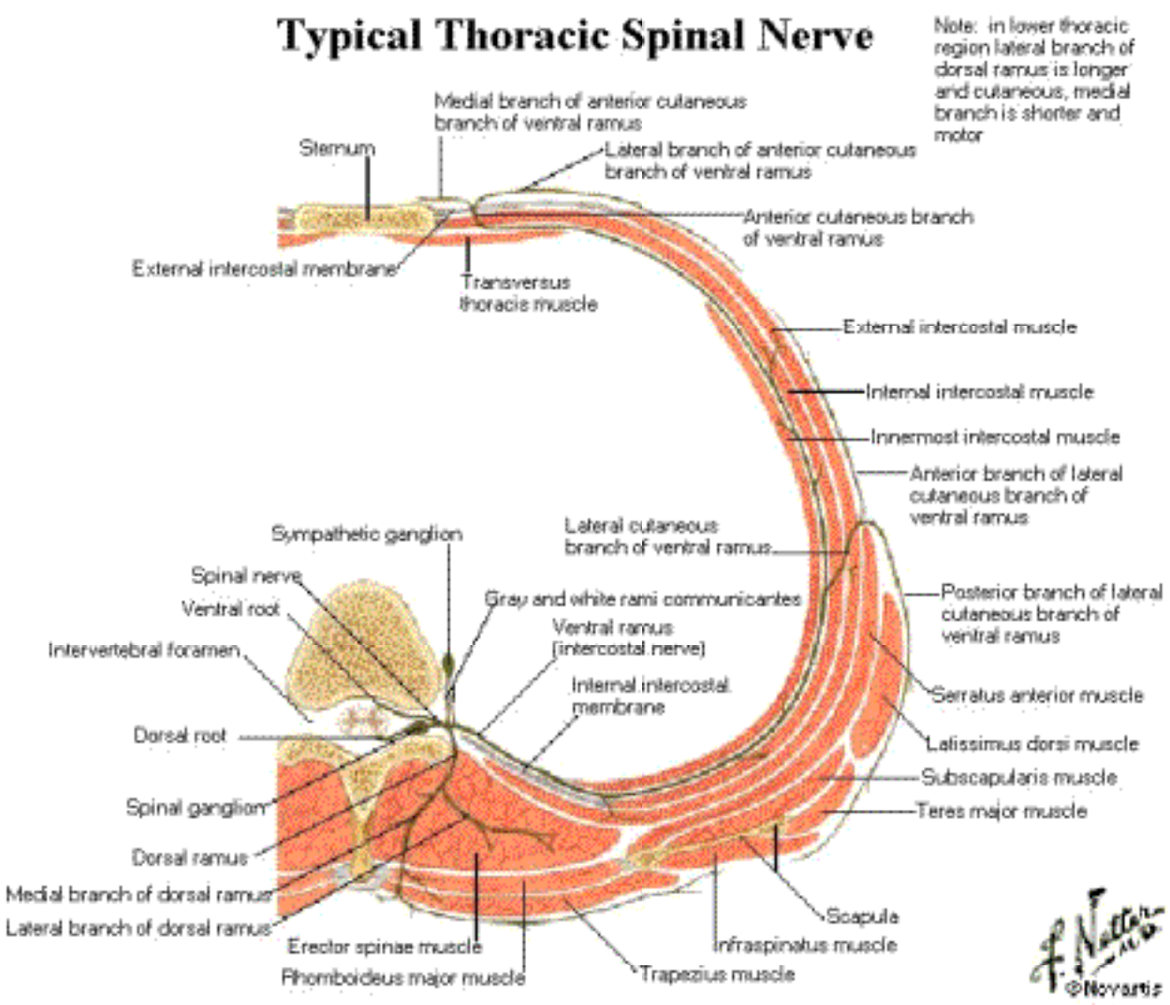


Lumbar Region of Back

Cross Section

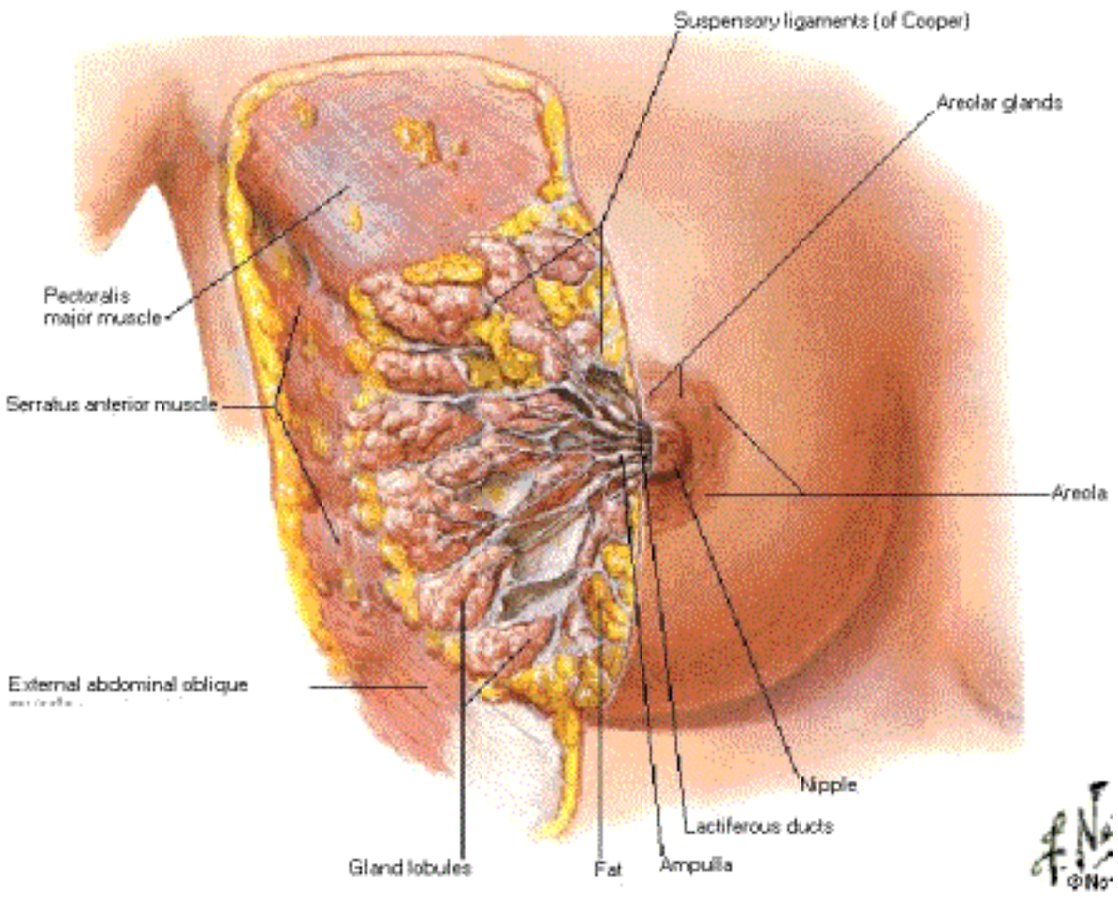


Typical Thoracic Spinal Nerve



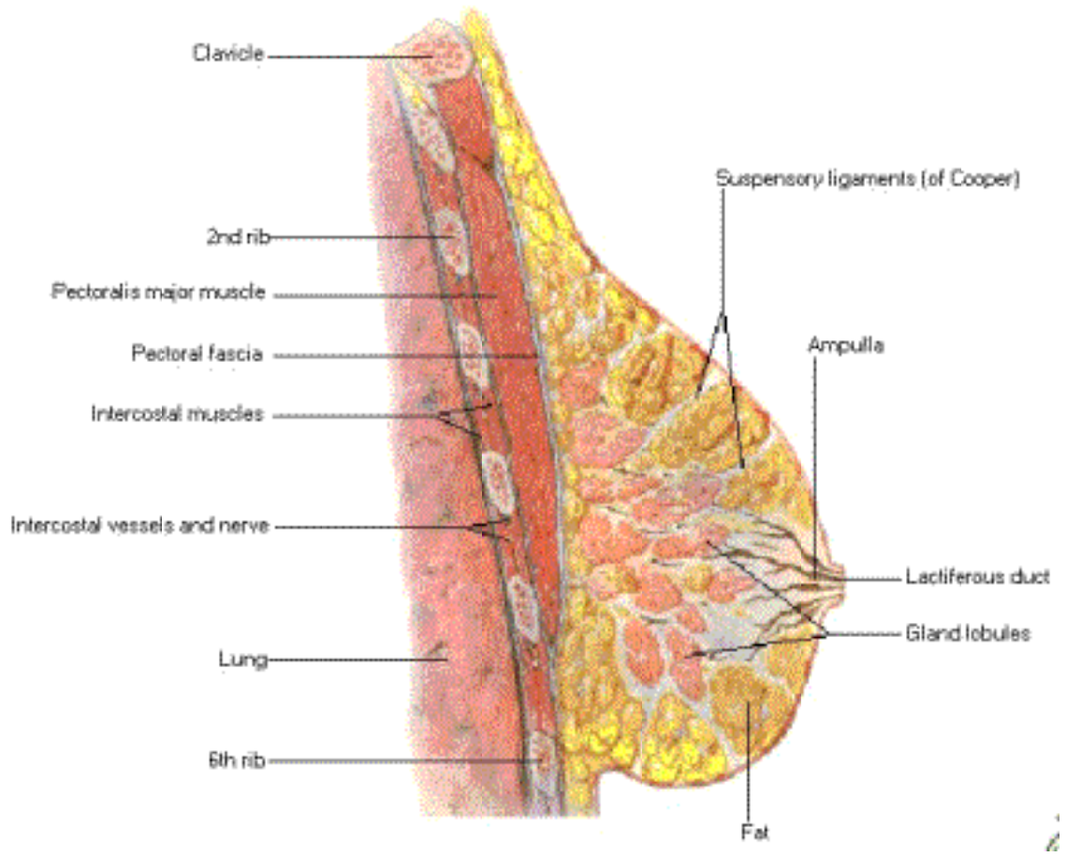
Mammary Gland

Anterolateral Dissection

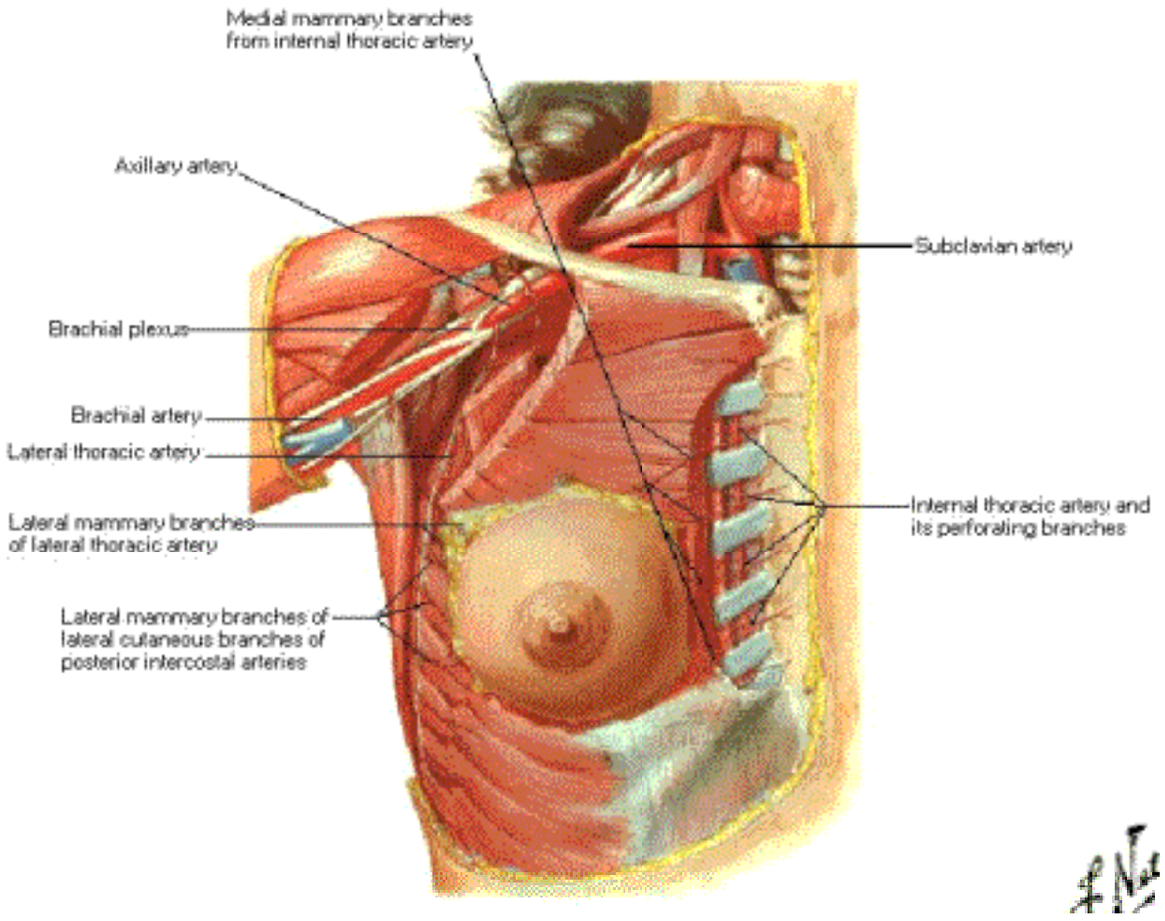


Mammary Gland

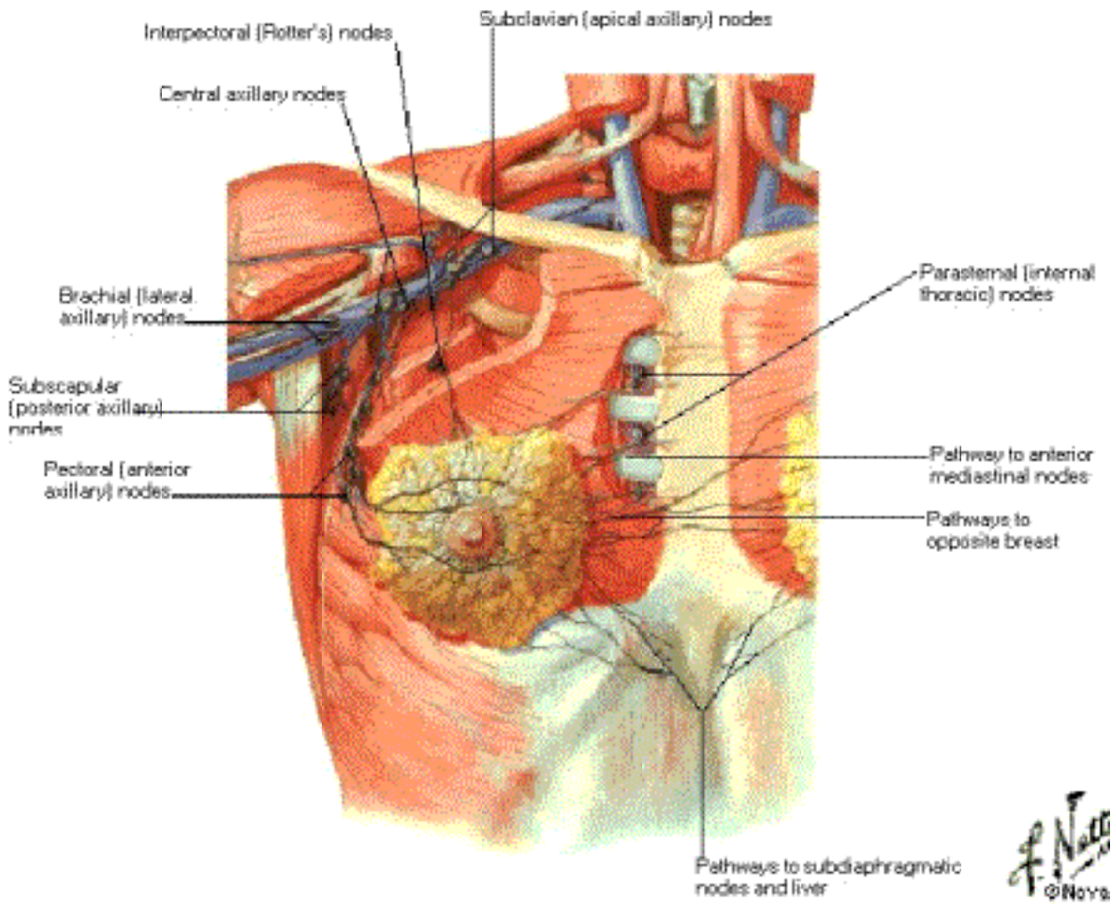
Sagittal Section



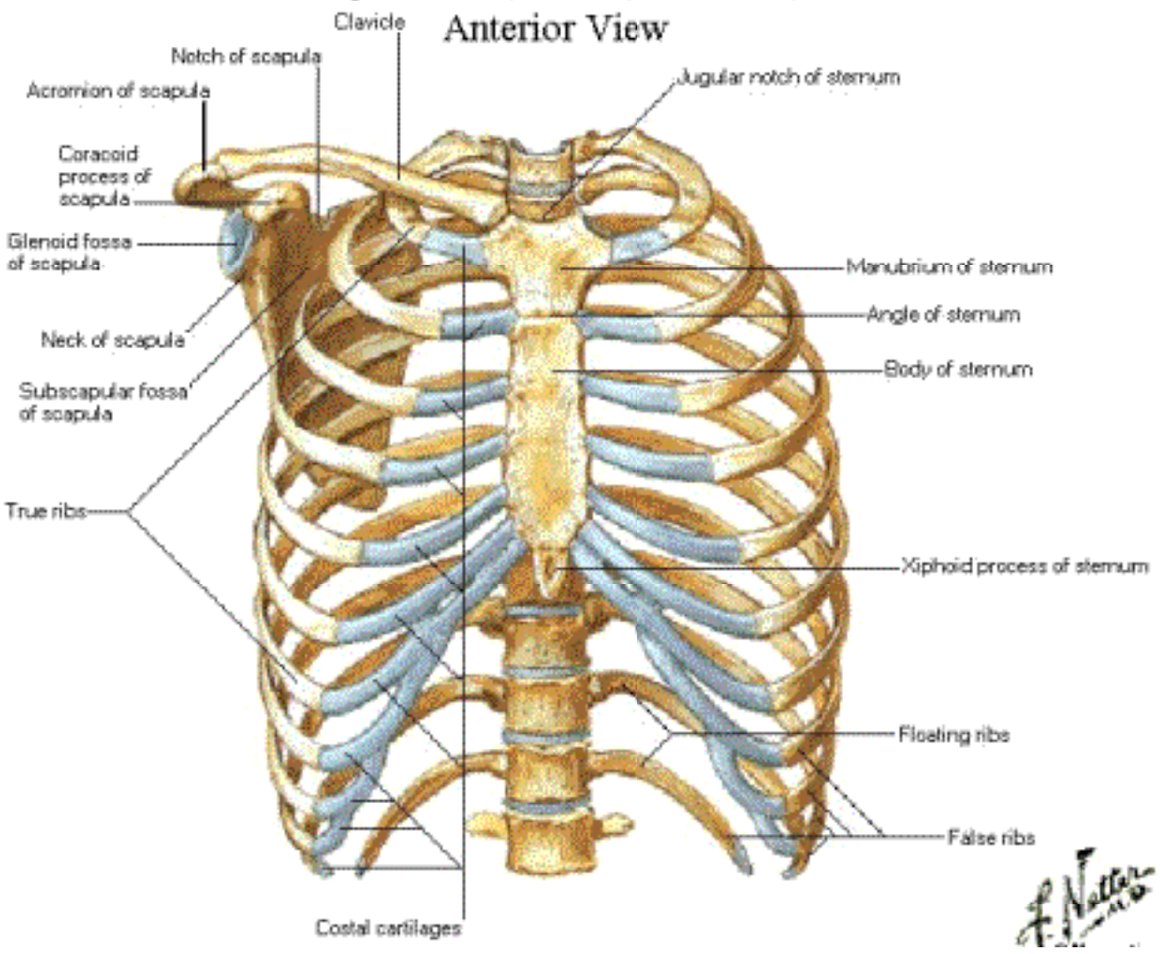
Arteries of Mammary Gland



Lymph Vessels and Nodes of Mammary Gland

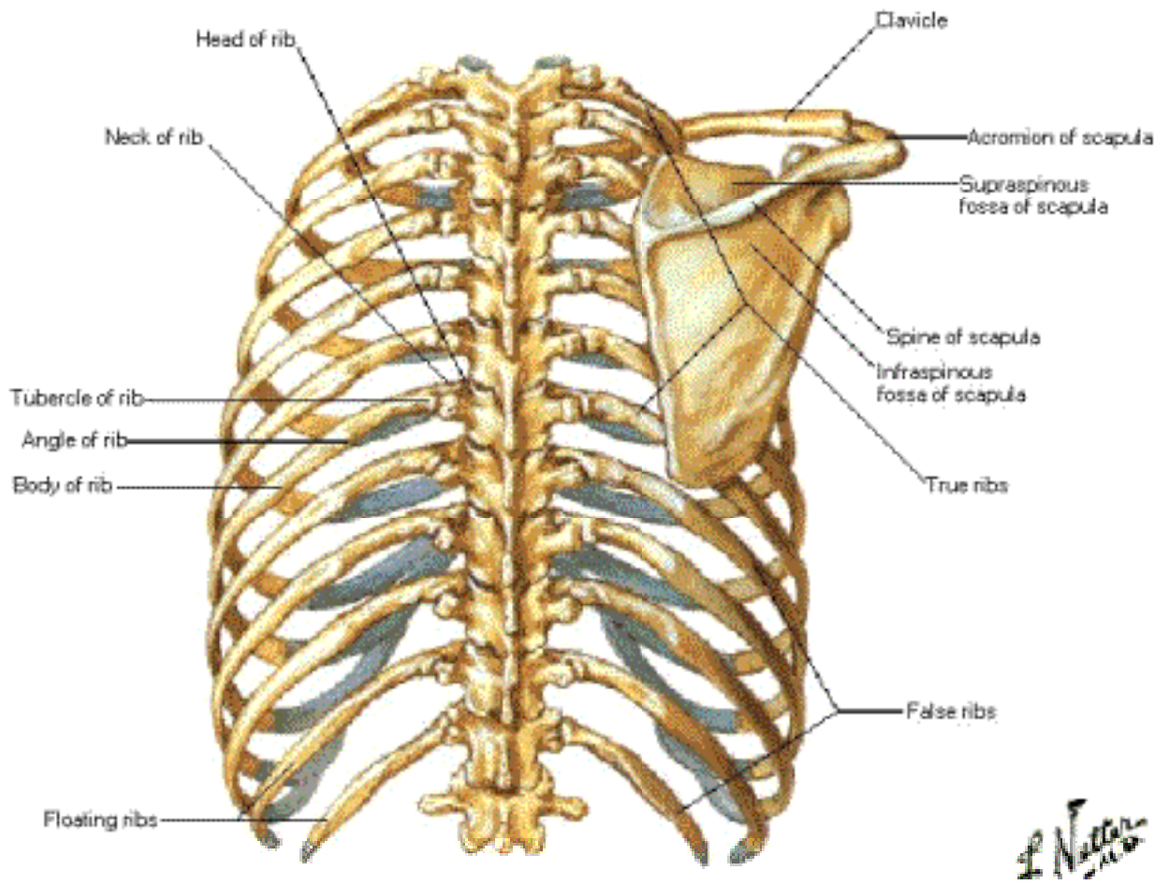


Bony Framework of Thorax



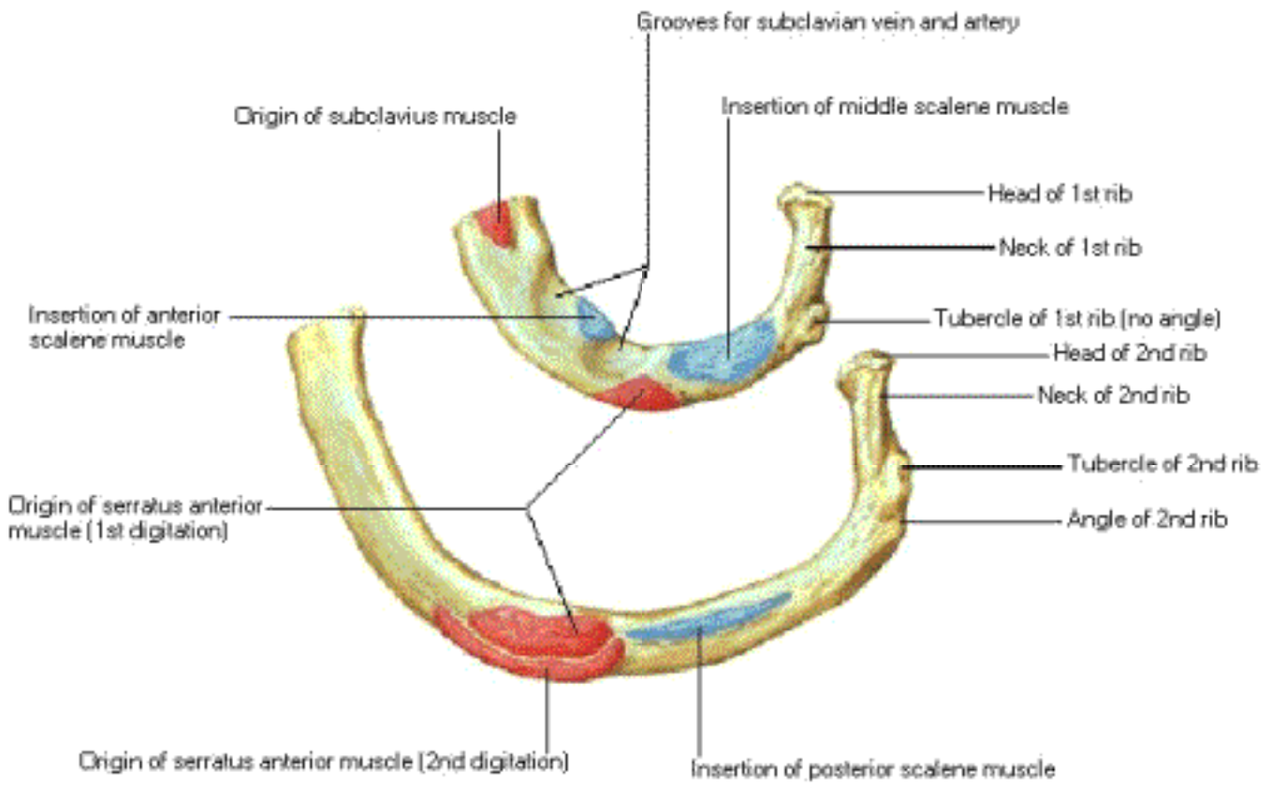
Bony Framework of Thorax

Posterior View



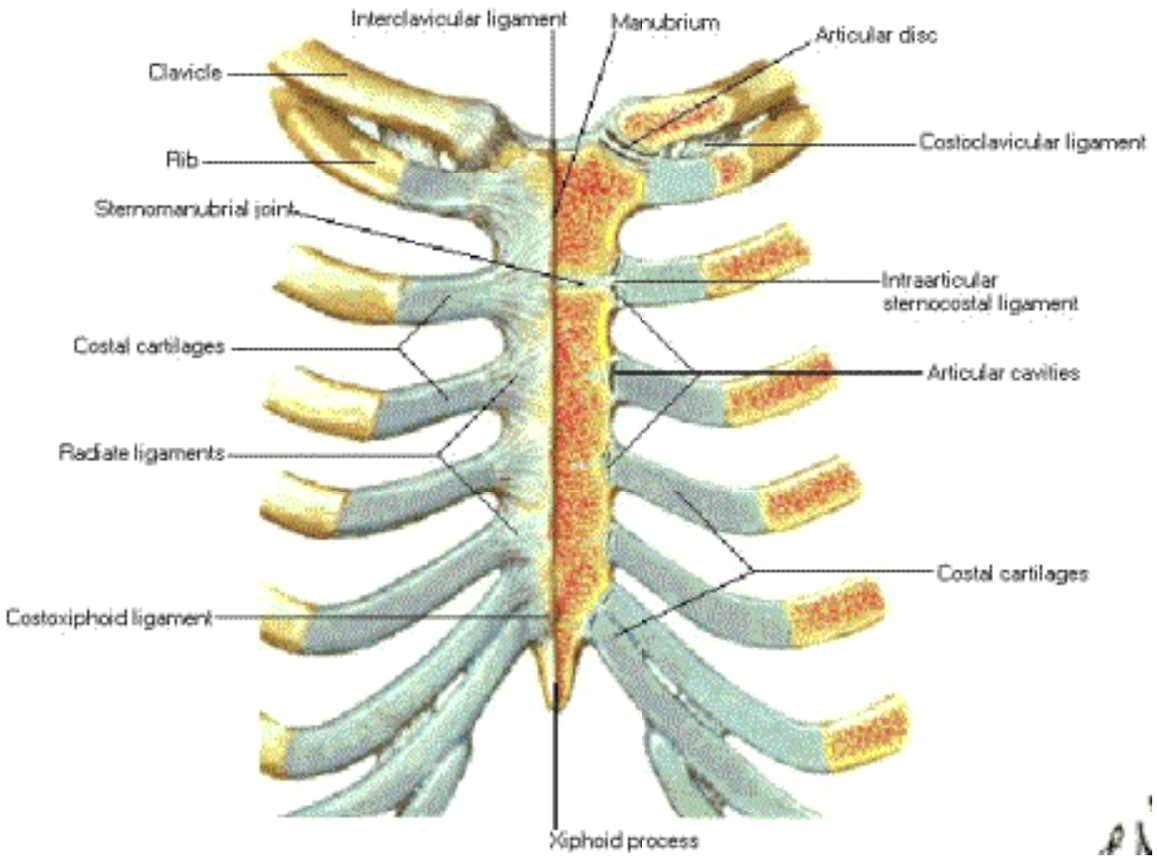
Left 1st and 2nd Ribs

Superior Views



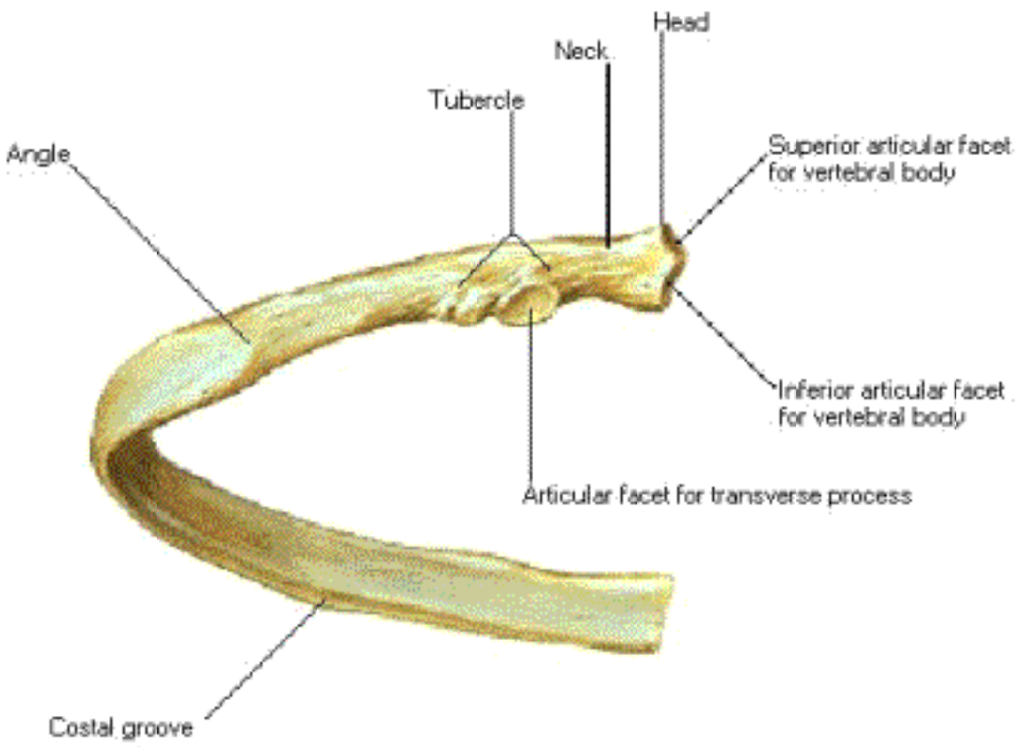
Sternocostal Articulations

Anterior View



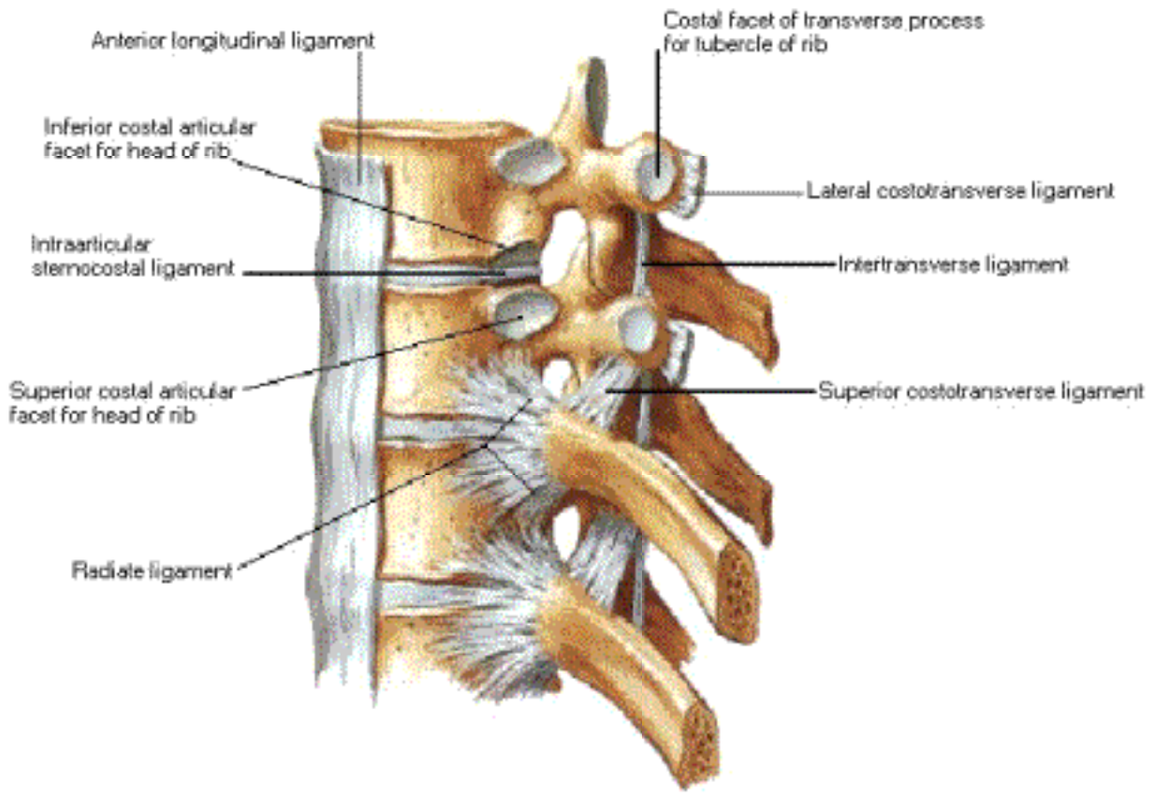
Middle Rib

Posterior View



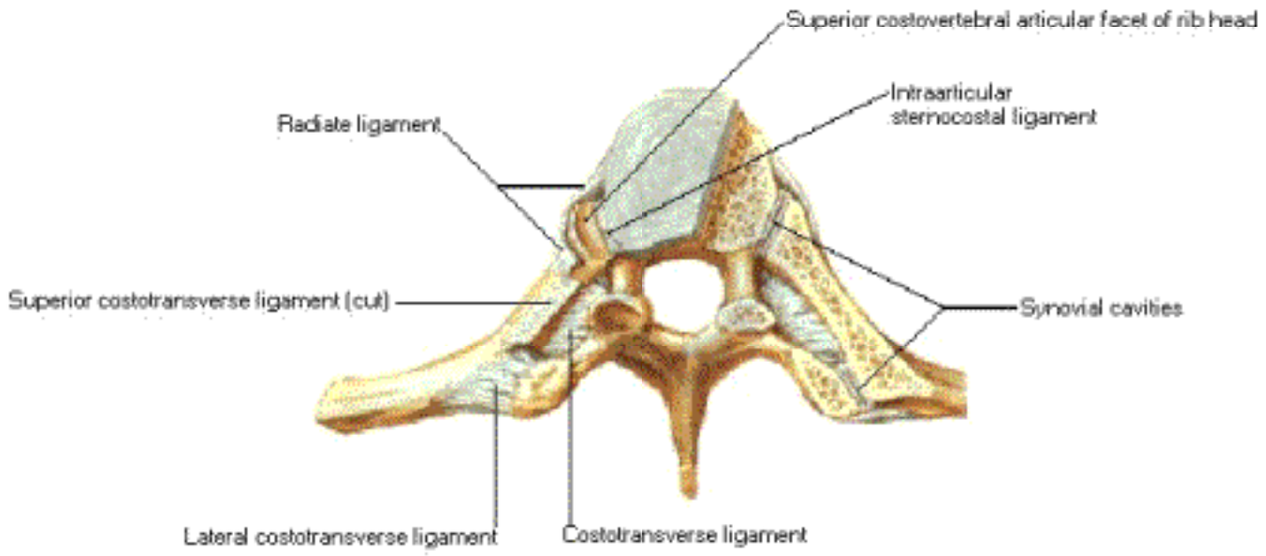
Costovertebral Joints

Left Lateral View



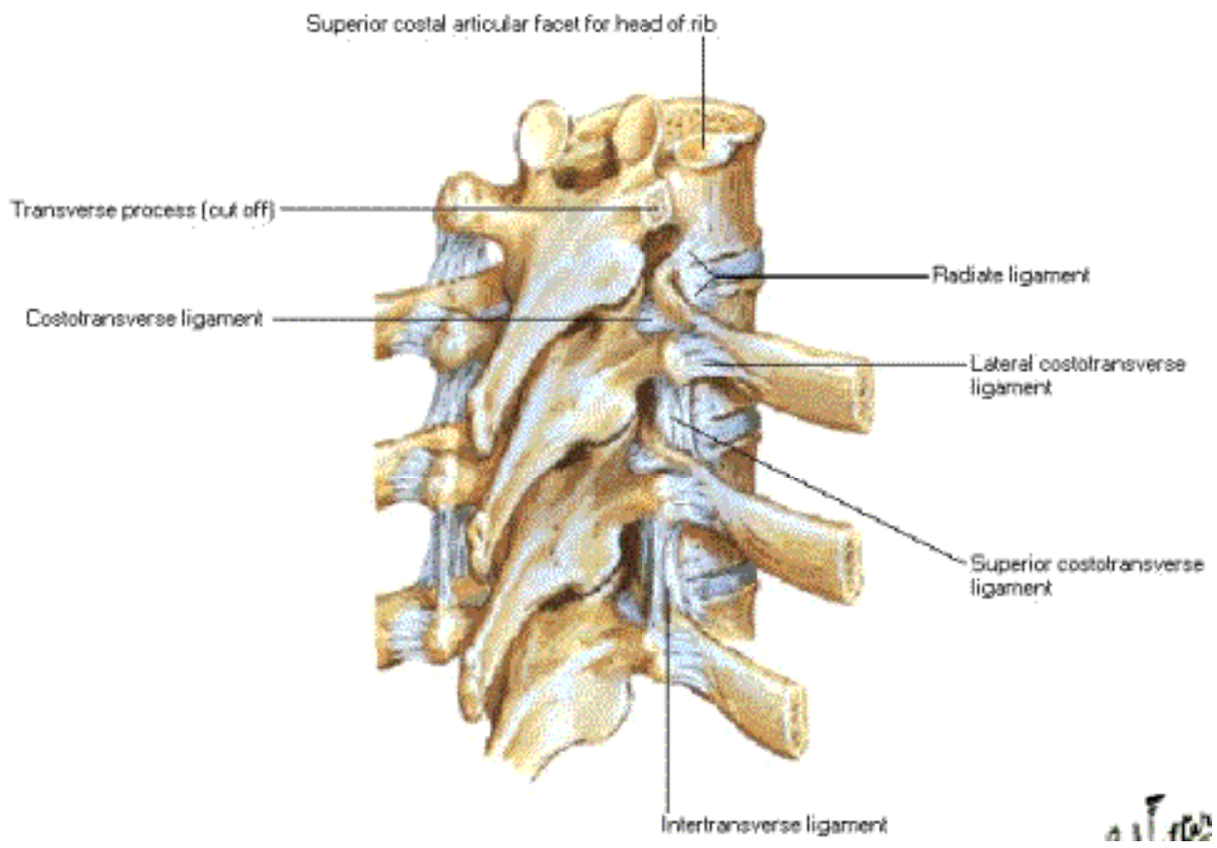
Costovertebral Joints

Transverse Section - Superior View

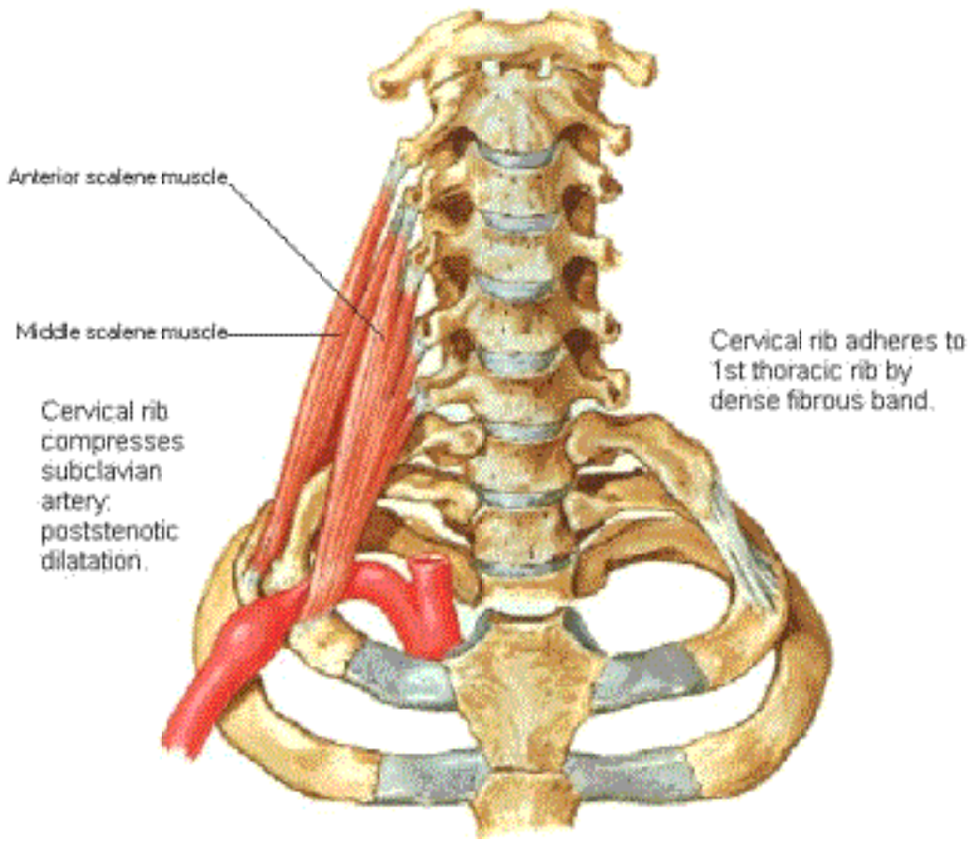


Costovertebral Joints

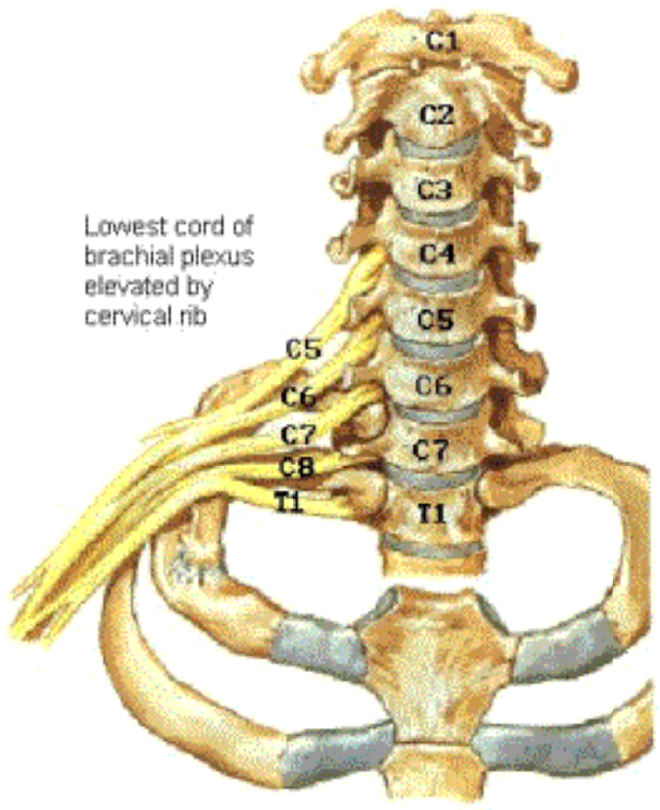
Right Posterolateral View



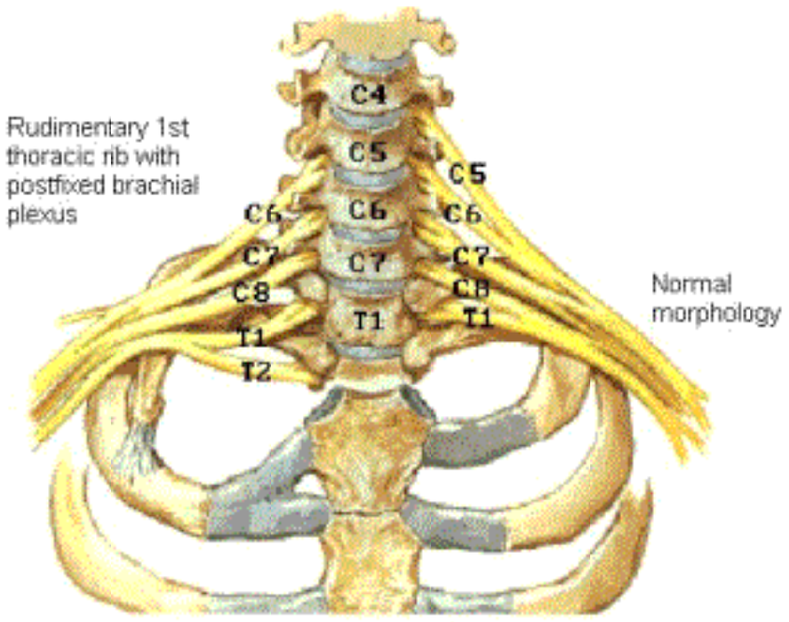
Cervical Ribs and Related Anomalies 1



Cervical Ribs and Related Anomalies 2

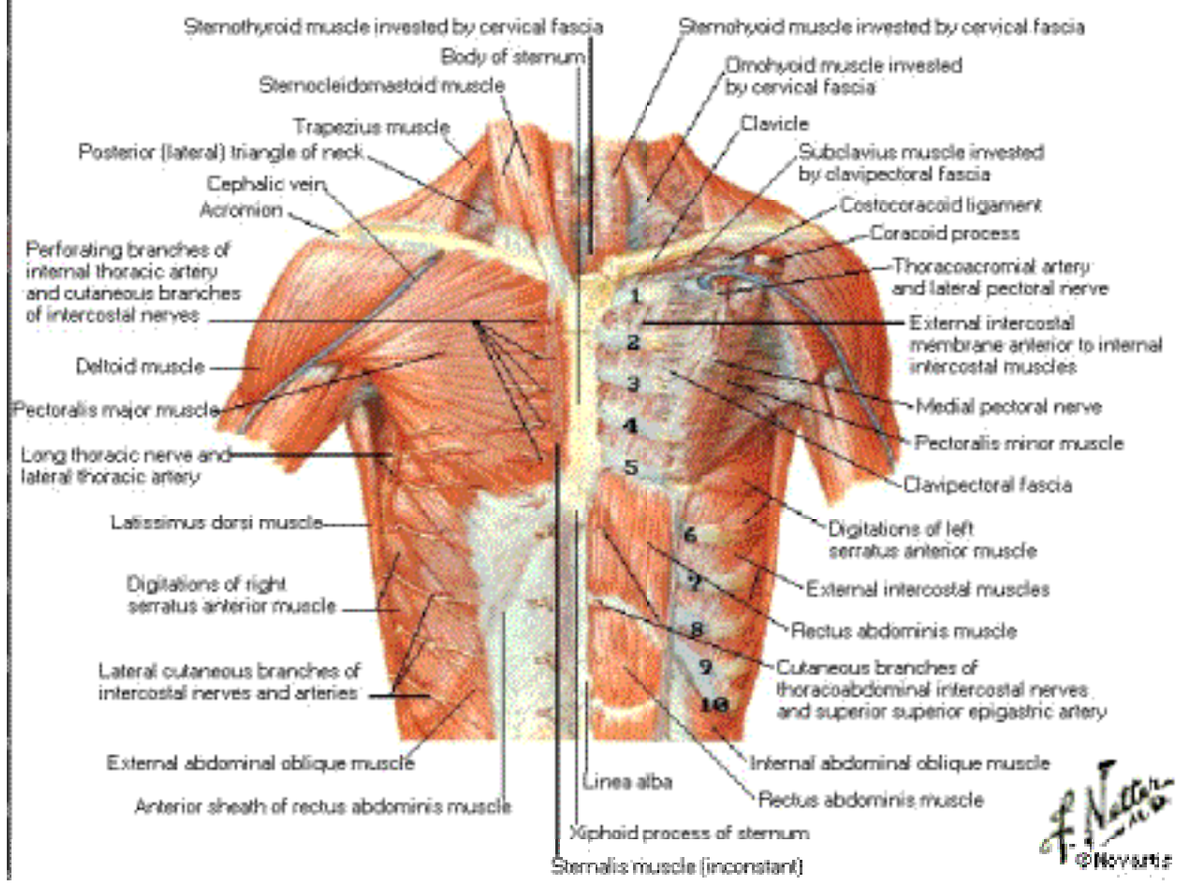


Cervical Ribs and Related Anomalies 3

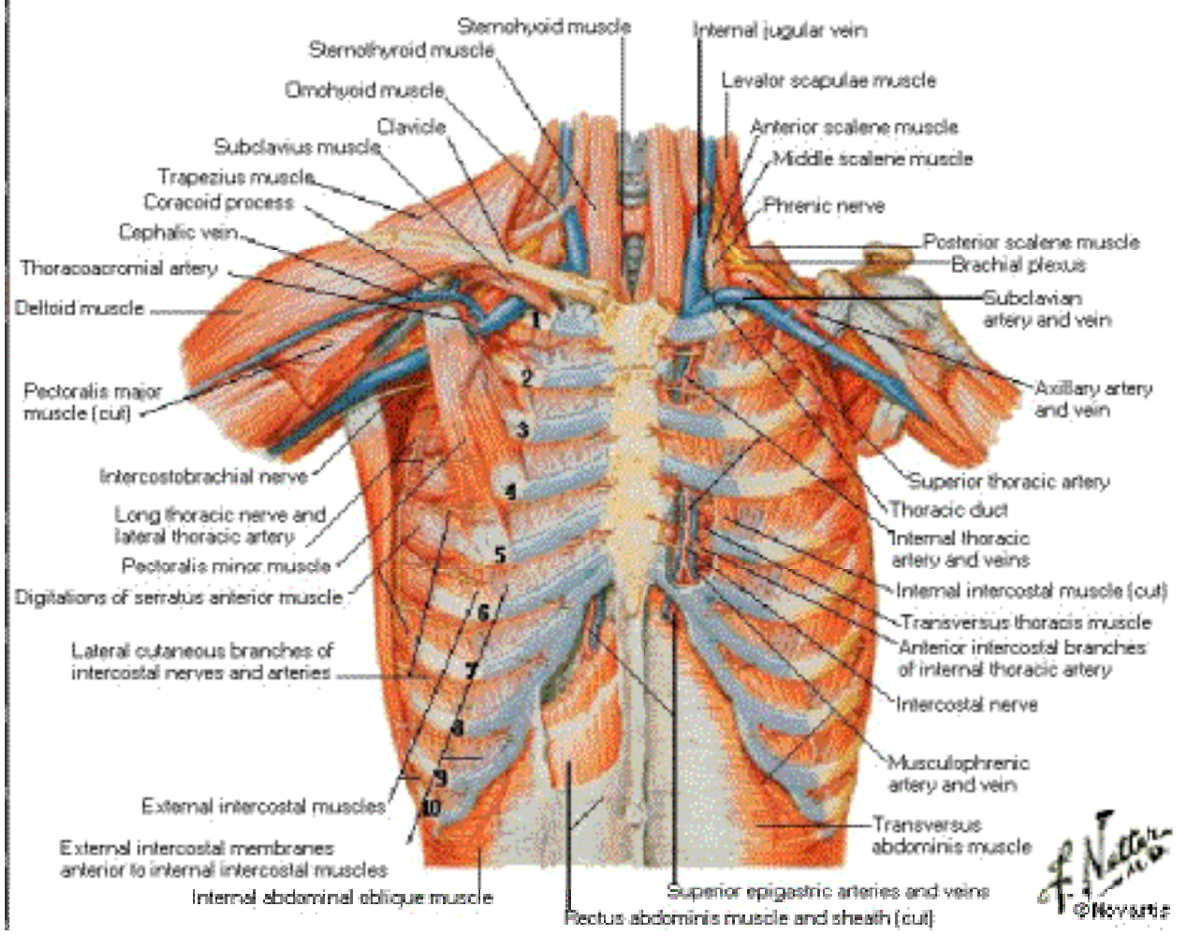


Note: cervical rib also often asymptomatic

Anterior Thoracic Wall

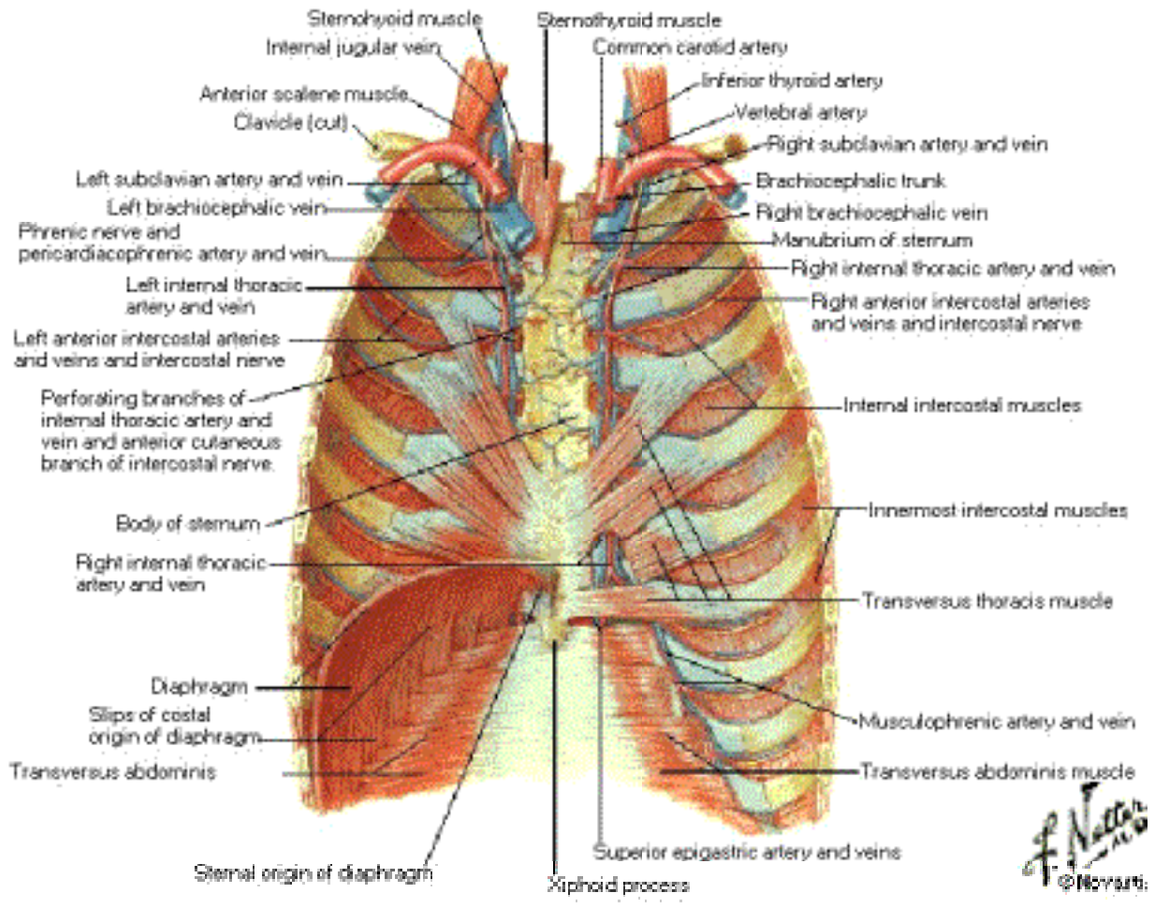


Anterior Thoracic Wall [Continued]

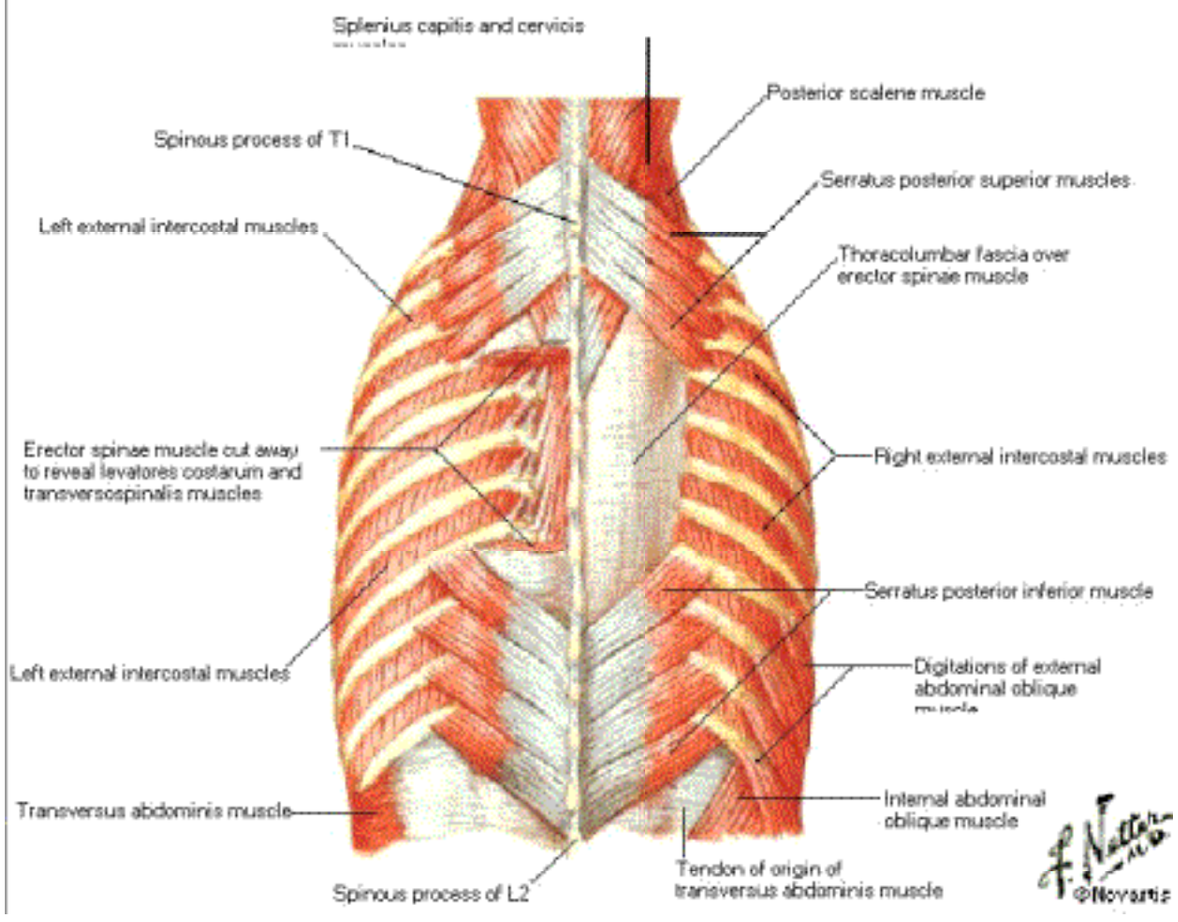


Anterior Thoracic Wall

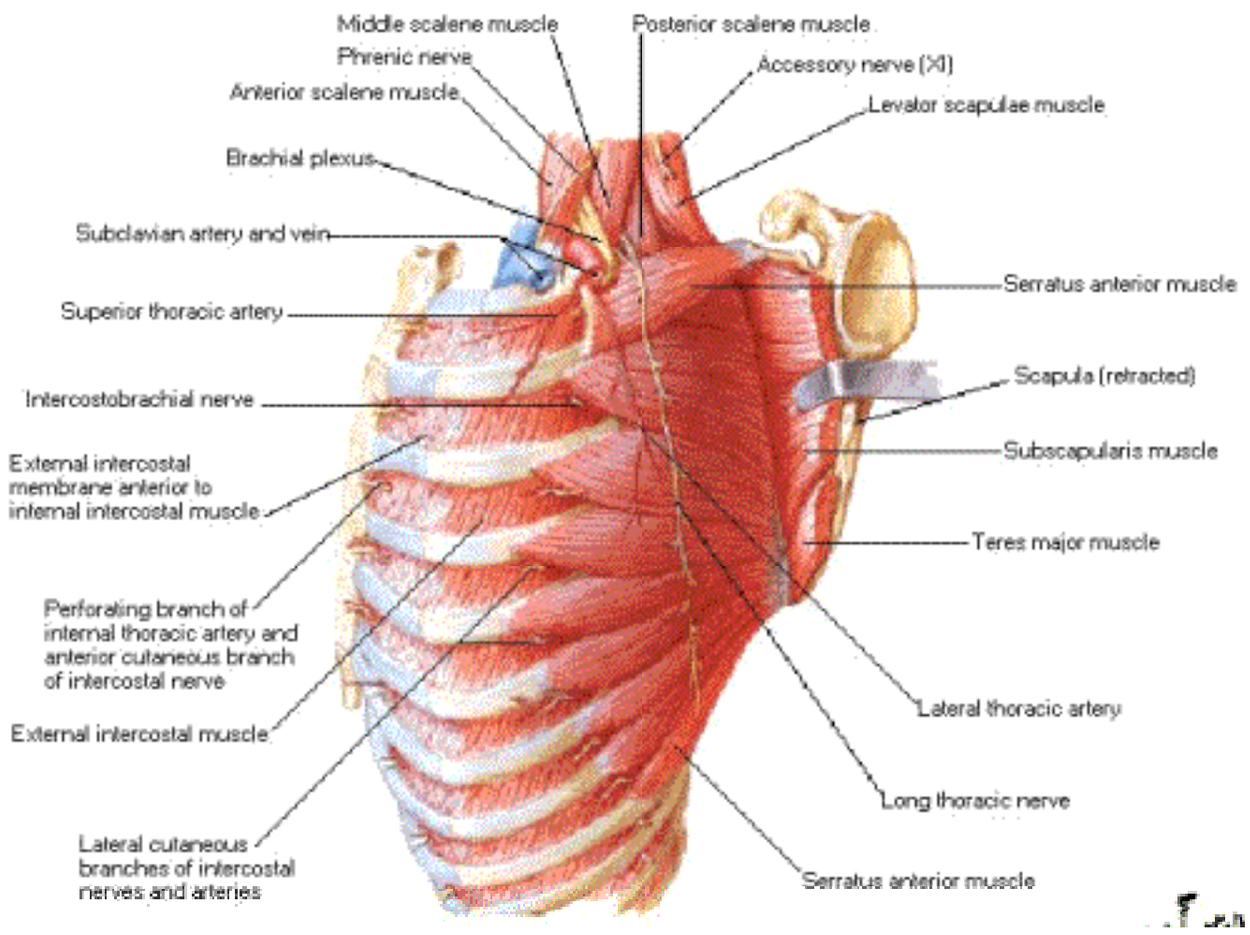
Internal View



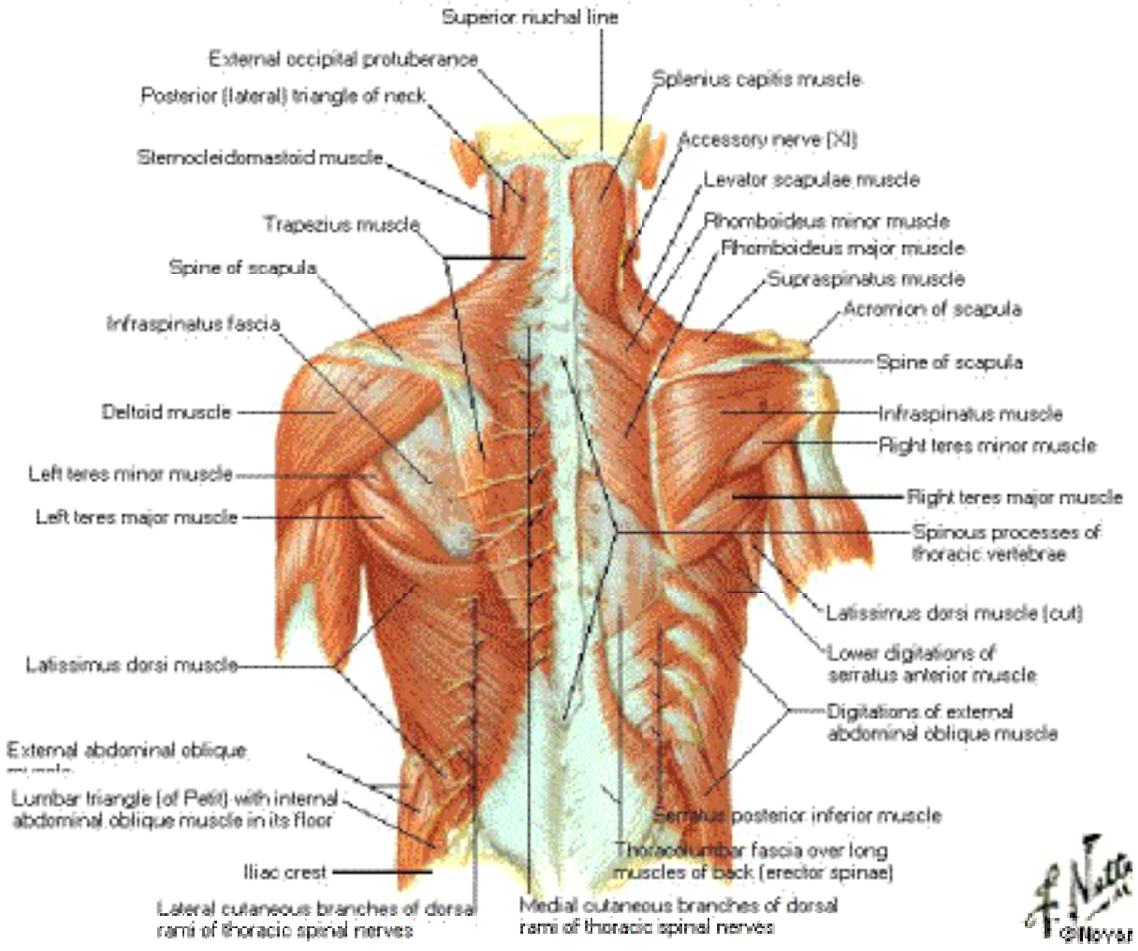
Deep Posterior Thoracic Wall



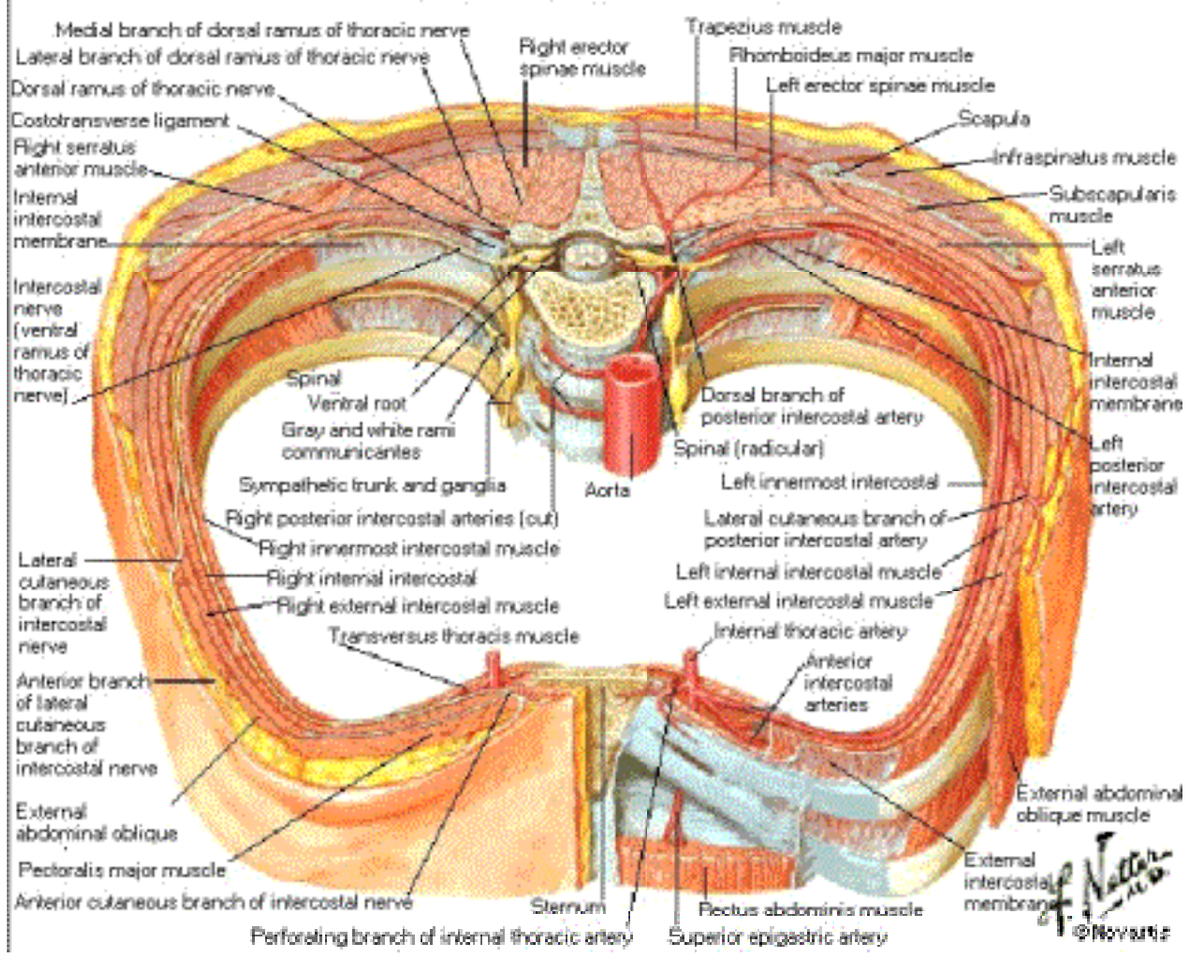
Lateral Thoracic Wall

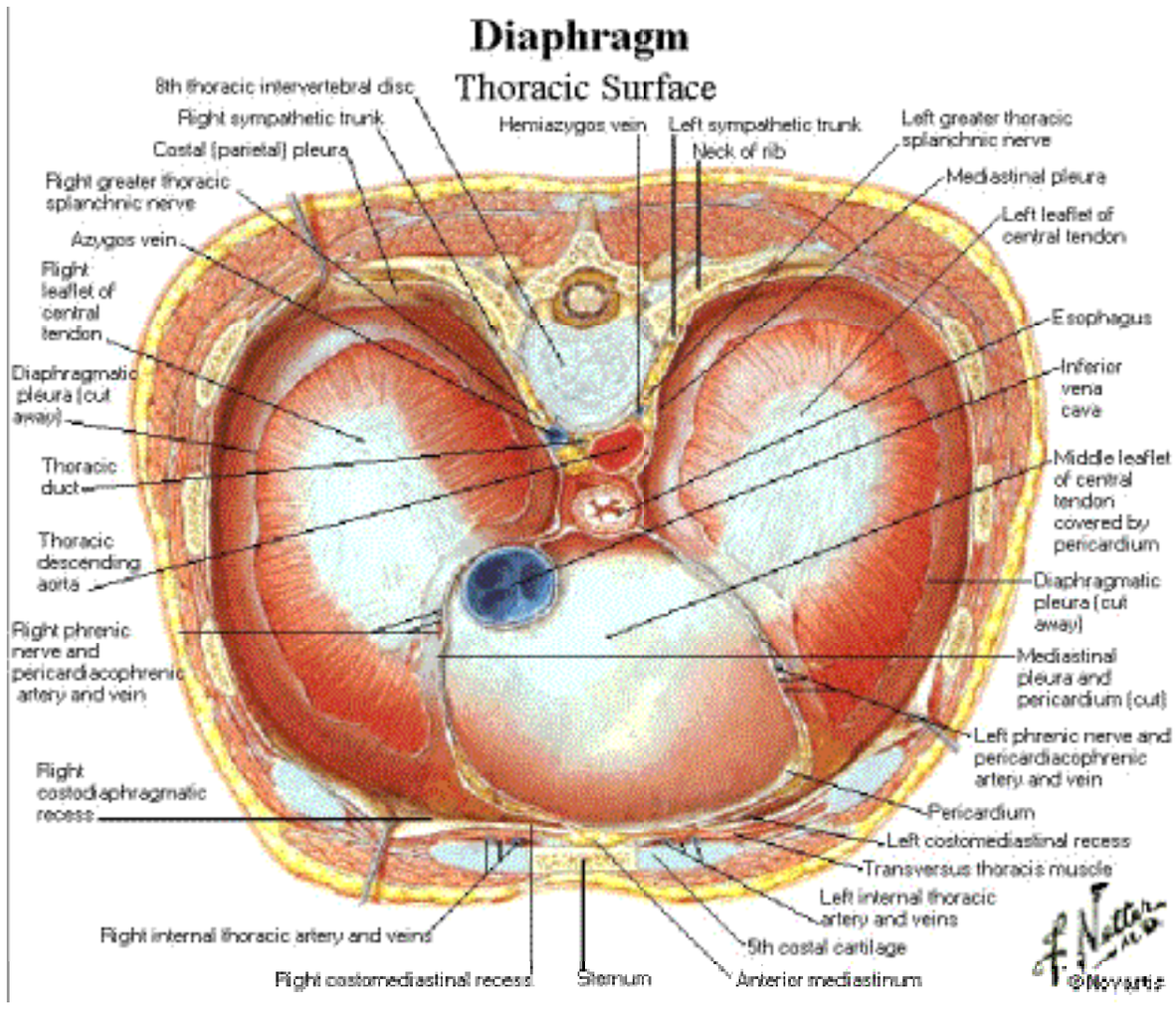


Posterior Thoracic Wall



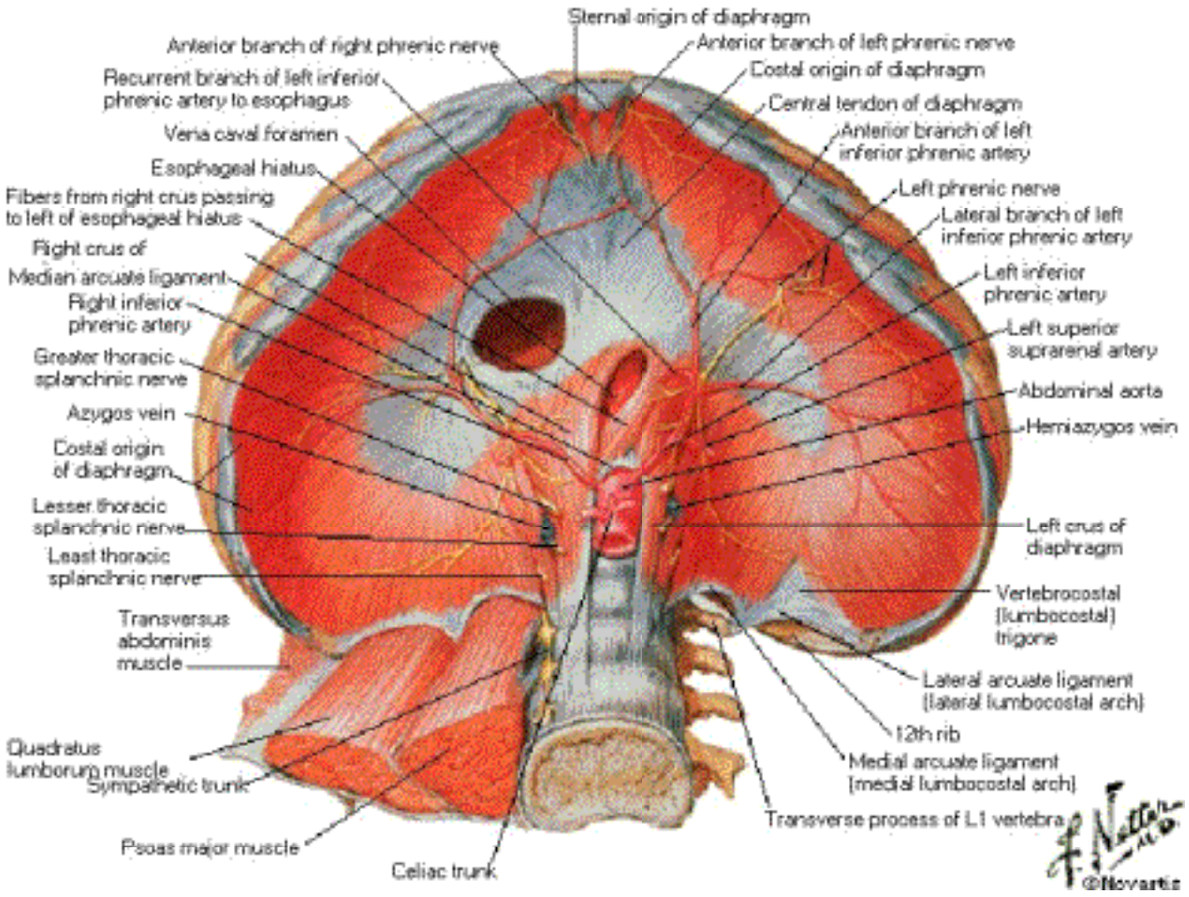
Intercostal Nerves and Arteries



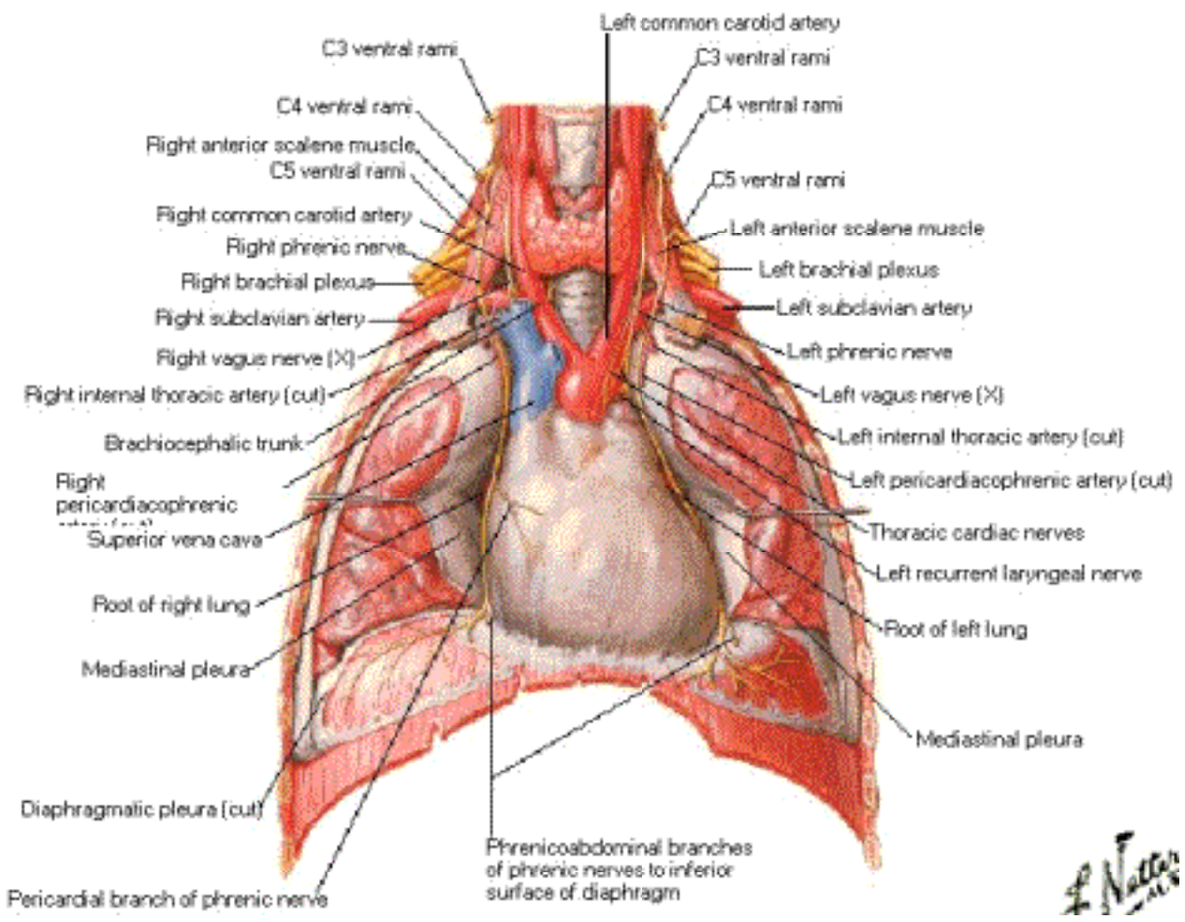

Diaphragm
Thoracic Surface
8th thoracic intervertebral disc
Right sympathetic trunk
Costal (parietal) pleura
Right greater thoracic splanchnic nerve
Azygos vein
Right leaflet of central tendon
Diaphragmatic pleura (cut away)
Thoracic duct
Thoracic descending aorta
Right phrenic nerve and pericardiacophrenic artery and vein
Right costodiaphragmatic recess
Right internal thoracic artery and veins
Right costomediastinal recess
Sternum
Hemiazygos vein
Left sympathetic trunk
Neck of rib
Left greater thoracic splanchnic nerve
Mediastinal pleura
Left leaflet of central tendon
Esophagus
Inferior vena cava
Middle leaflet of central tendon covered by pericardium
Diaphragmatic pleura (cut away)
Mediastinal pleura and pericardium (cut)
Left phrenic nerve and pericardiacophrenic artery and vein
Pericardium
Left costomediastinal recess
Transversus thoracis muscle
Left internal thoracic artery and veins
5th costal cartilage
Anterior mediastinum
©Novartis

Diaphragm

Abdominal Surface

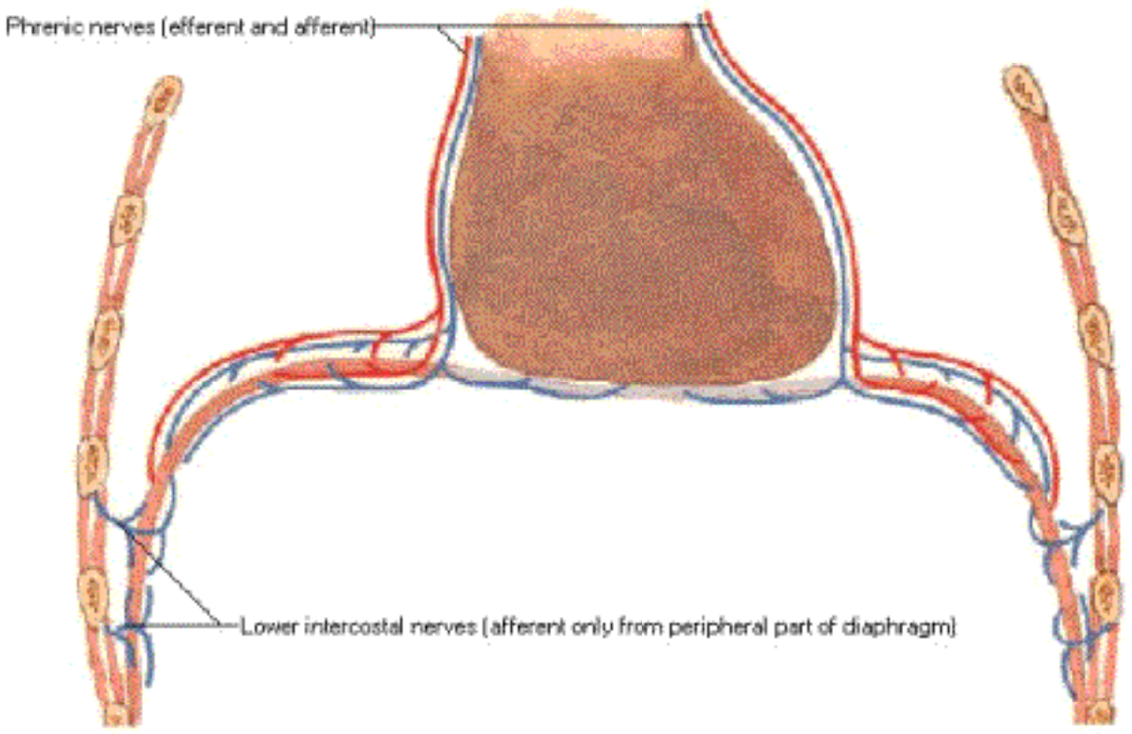


Phrenic Nerve in Situ



Phrenic Nerve

Schema



Muscles of Respiration

Muscles of inspiration

Accessory

Sternocleidomastoid

Sternocleidomastoid - This accessory muscle of inspiration elevates the sternum.

Middle scalene

Anterior scalene

Posterior scalene

Scalenes - These accessory muscles of inspiration elevate and fix the upper ribs.

Principal

External intercostals

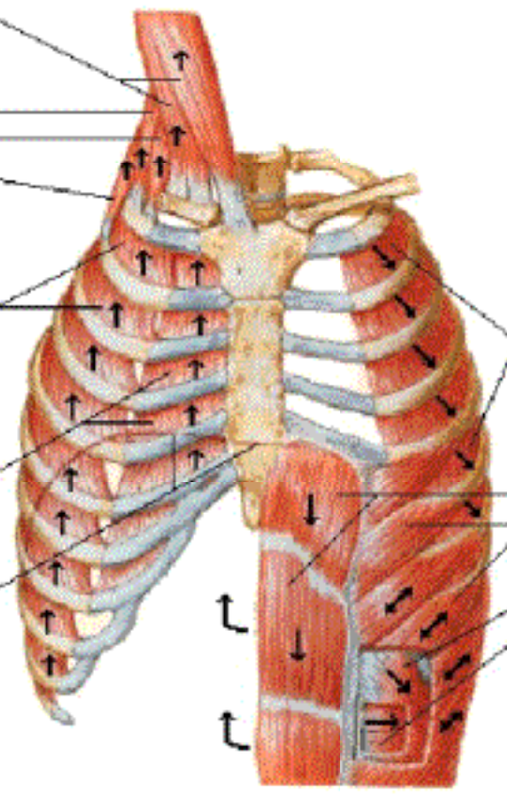
External intercostals - These principal muscles of inspiration elevate the ribs, thus increasing the width of the thoracic cavity.

Interchondral part of internal intercostals

Interchondral part - This part acts as a principal muscle of inspiration by elevating the ribs.

Diaphragm

Diaphragm - The domes of this principal muscle of inspiration descend, thus increasing the longitudinal dimension of the thoracic cavity. The diaphragm also helps in elevating the lower ribs.



Muscles of expiration

Quiet breathing

Expiration results from passive recoil of lungs

Active breathing

Internal intercostals, except interchondral part

Internal intercostals - These muscles of active expiration lower the ribs, thus decreasing the width of the thoracic cavity.

Rectus abdominis

External oblique

Internal oblique

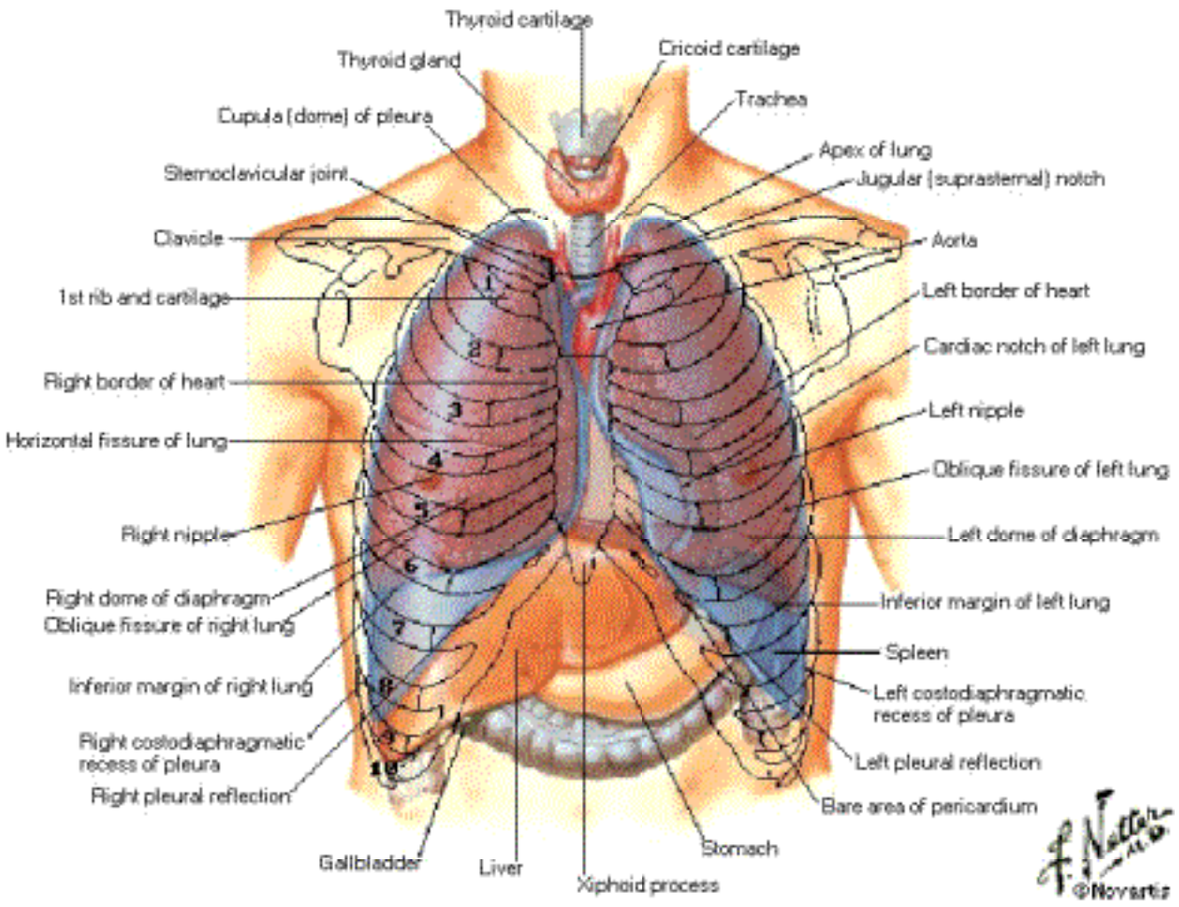
Transversus abdominis

Abdominal muscles - This muscle of active expiration depress the lower ribs and compress abdominal contents, thus pushing up the diaphragm.

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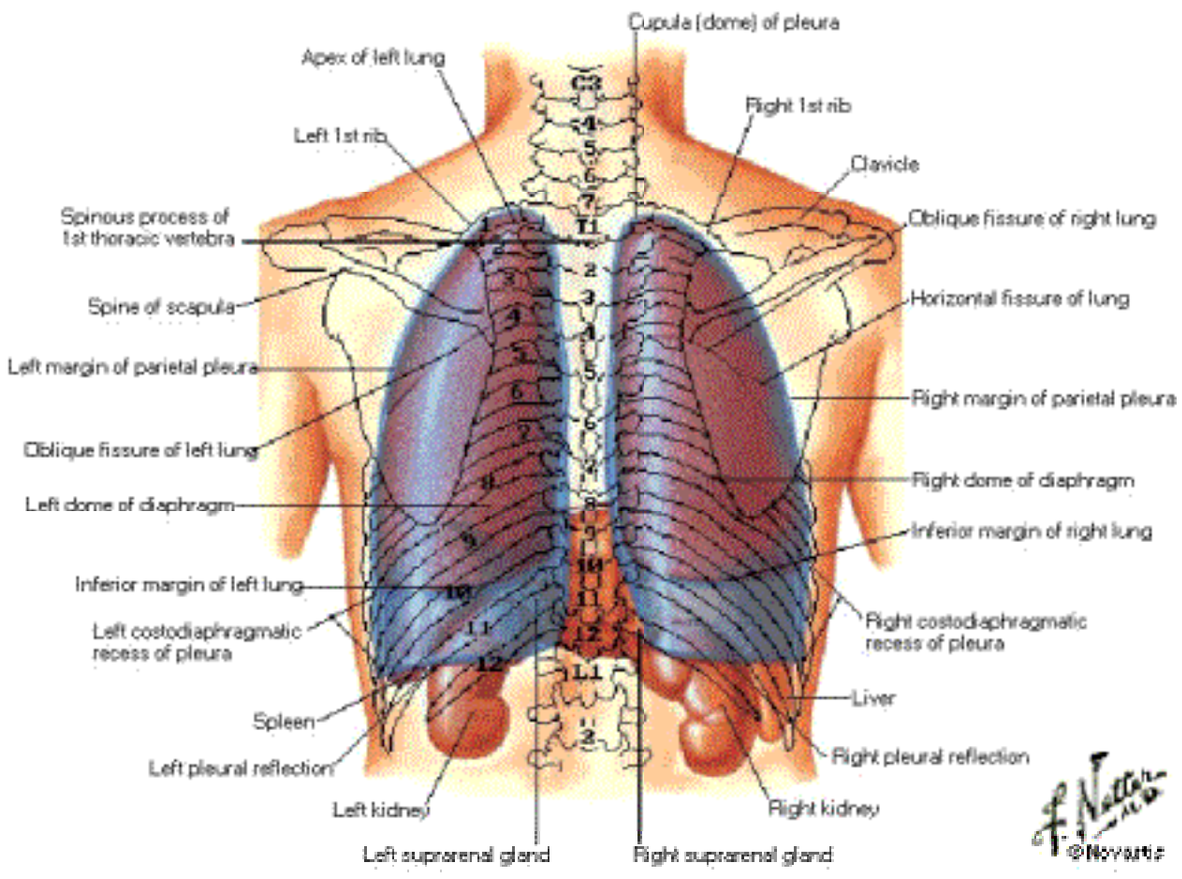
Topography of Lungs

Anterior View



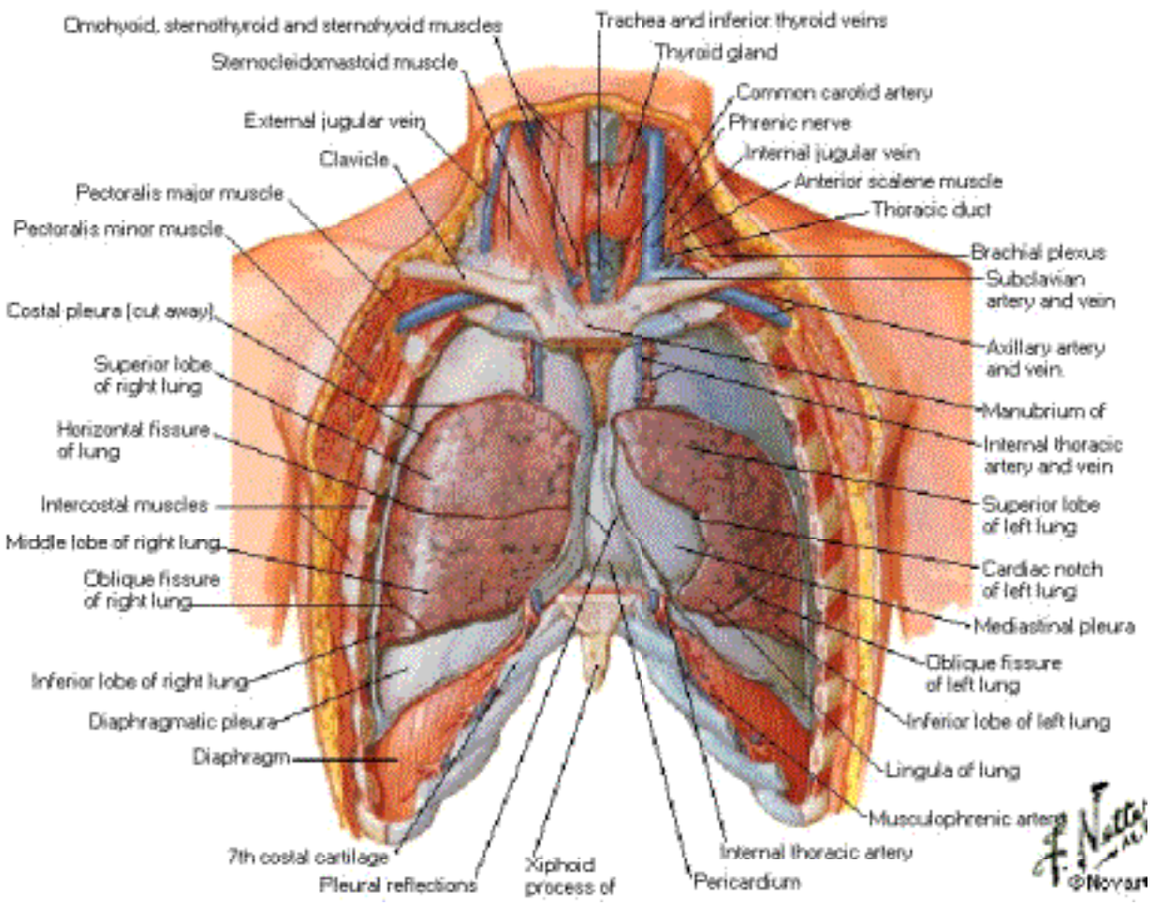
Topography of Lungs

Posterior View



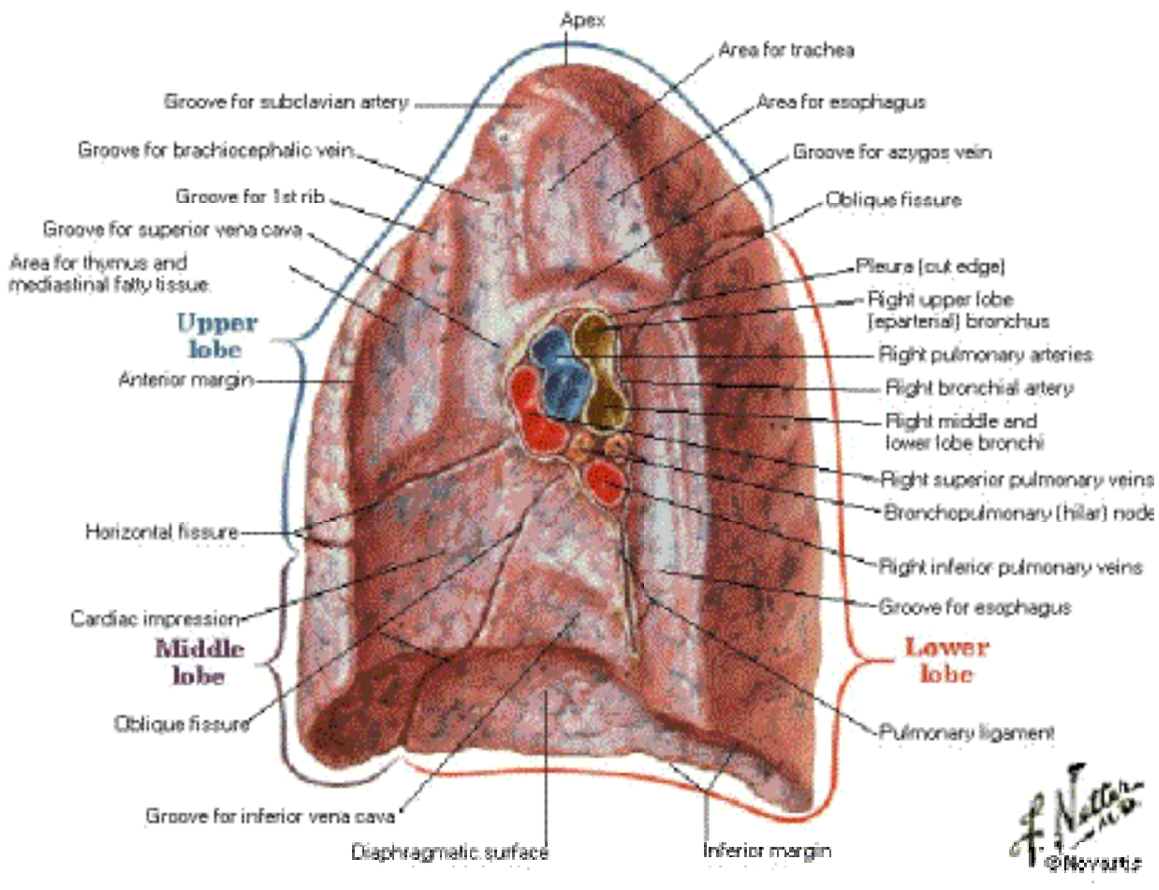
Lungs in Situ

Anterior View



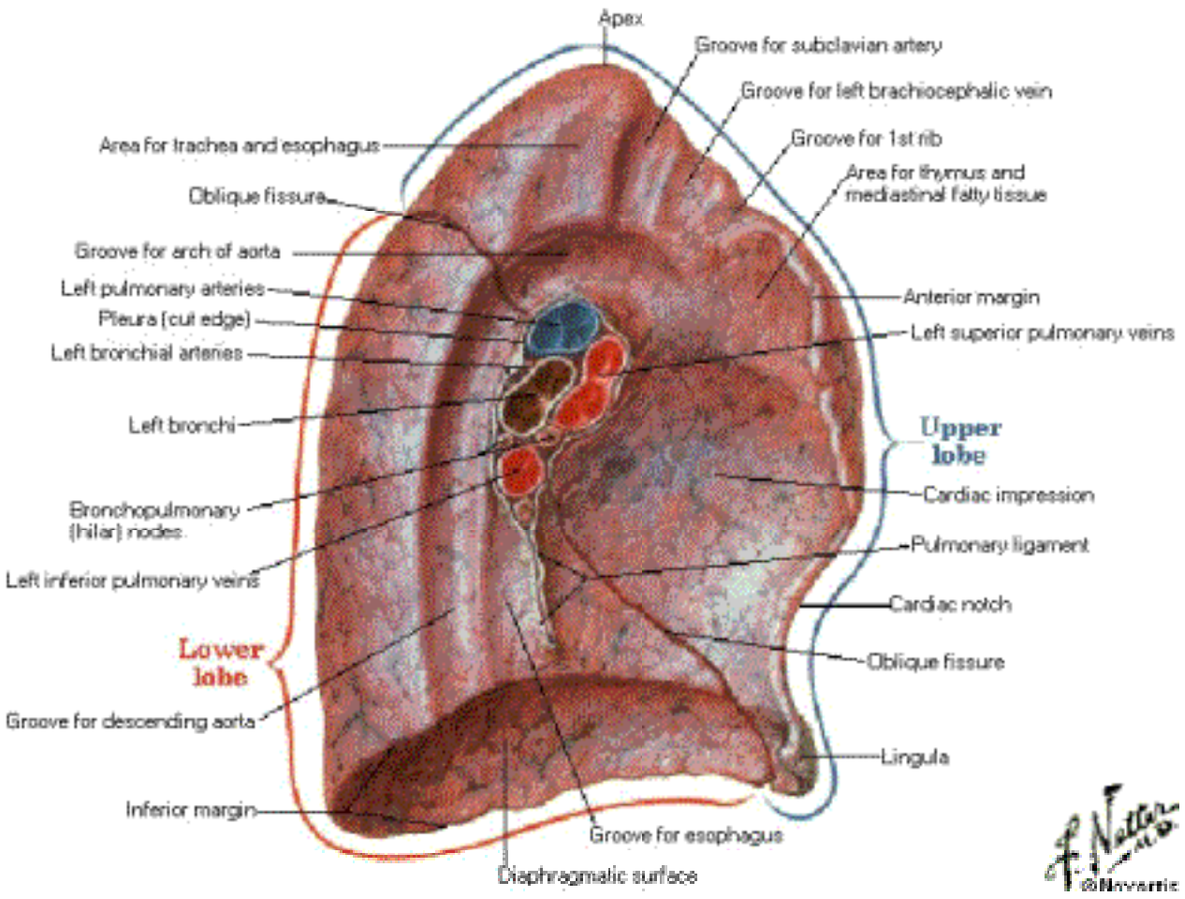
Right Lung

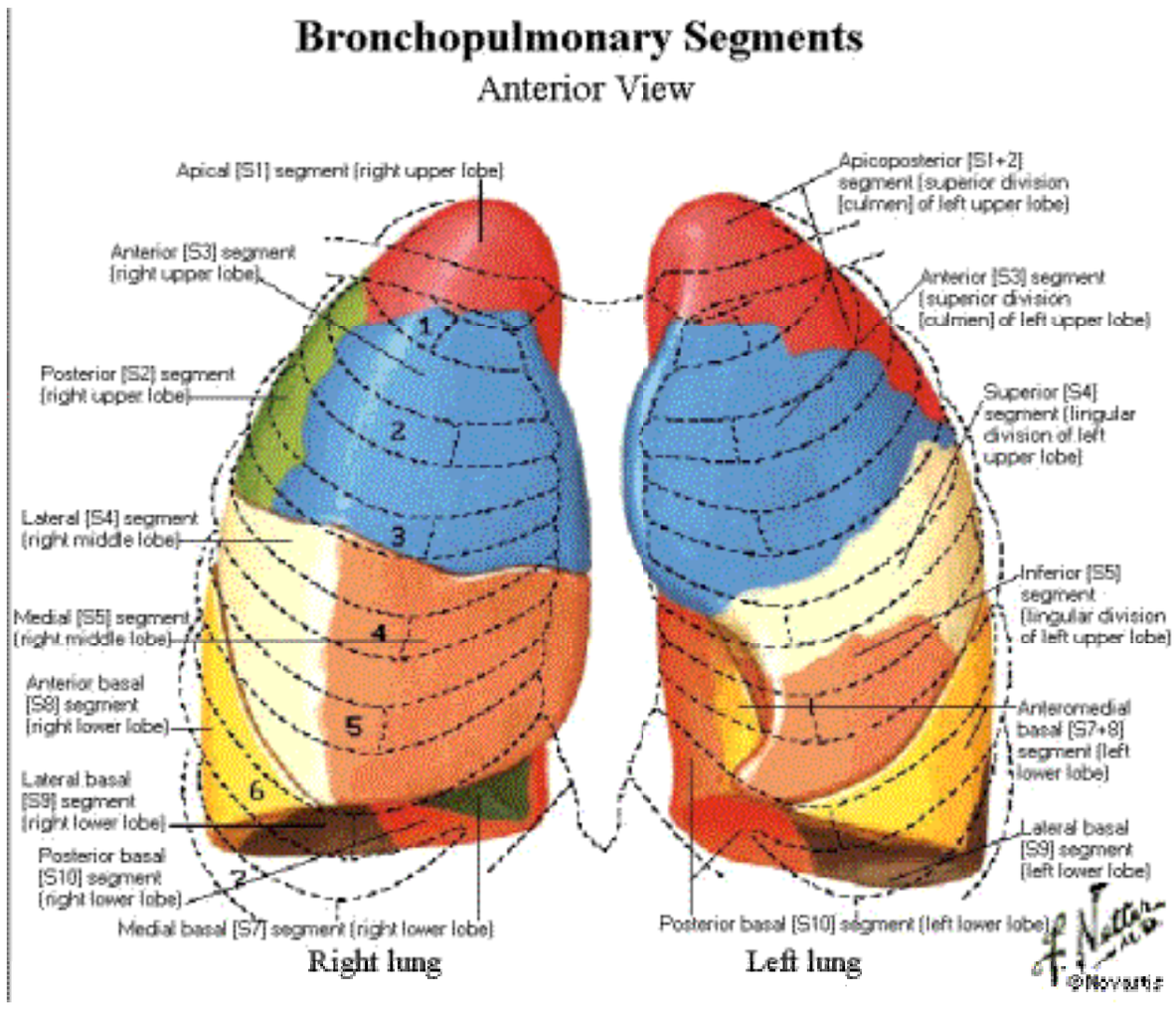
Medial View



Left Lung

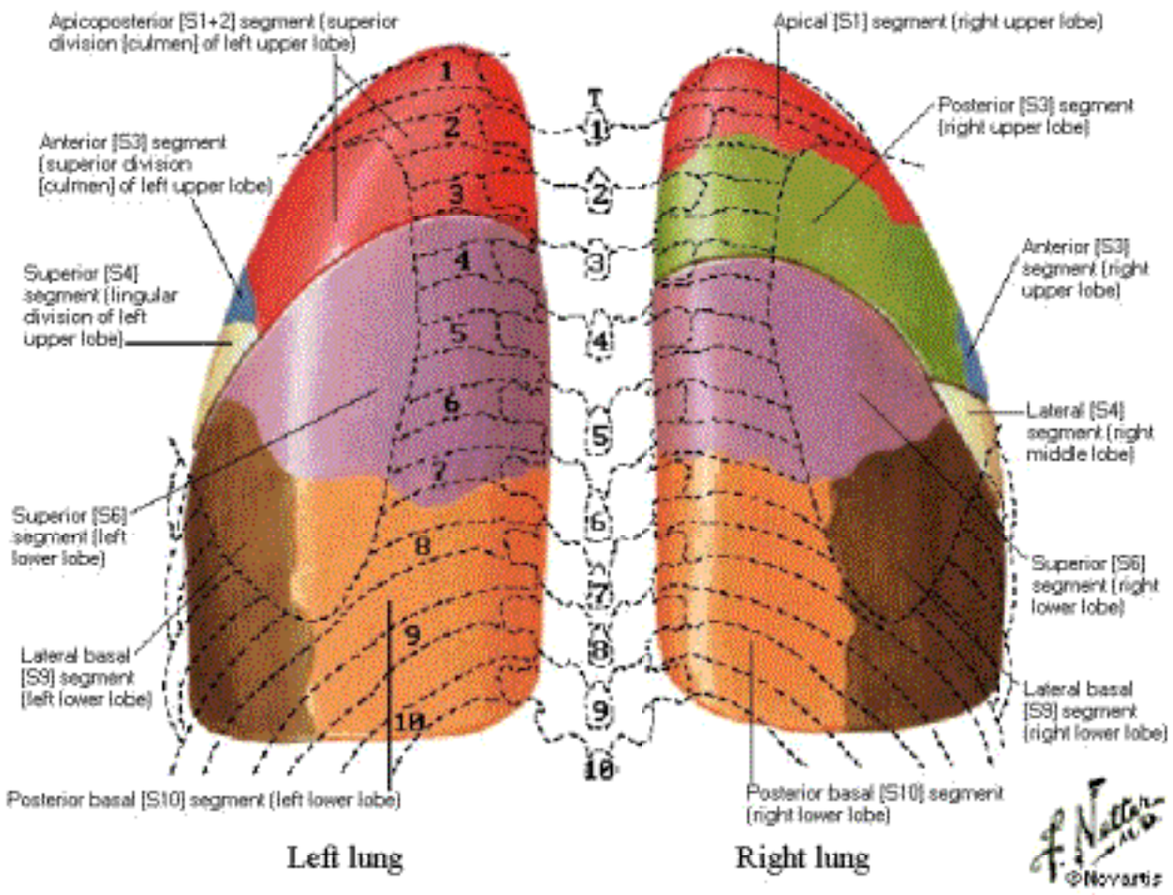
Medial View




Bronchopulmonary Segments
Anterior View
Apical [S1] segment (right upper lobe)
Anterior [S3] segment (right upper lobe)
Posterior [S2] segment (right upper lobe)
Lateral [S4] segment (right middle lobe)
Medial [S5] segment (right middle lobe)
Anterior basal [S8] segment (right lower lobe)
Lateral basal [S9] segment (right lower lobe)
Posterior basal [S10] segment (right lower lobe)
Medial basal [S7] segment (right lower lobe)
Right lung
Apicoposterior [S1+2] segment (superior division [culmen] of left upper lobe)
Anterior [S3] segment (superior division [culmen] of left upper lobe)
Superior [S4] segment (lingular division of left upper lobe)
Inferior [S5] segment (lingular division of left upper lobe)
Anteromedial basal [S7+8] segment (left lower lobe)
Lateral basal [S9] segment (left lower lobe)
Posterior basal [S10] segment (left lower lobe)
Left lung
1
2
3
4
5
6
©Netter

Bronchopulmonary Segments

Posterior View



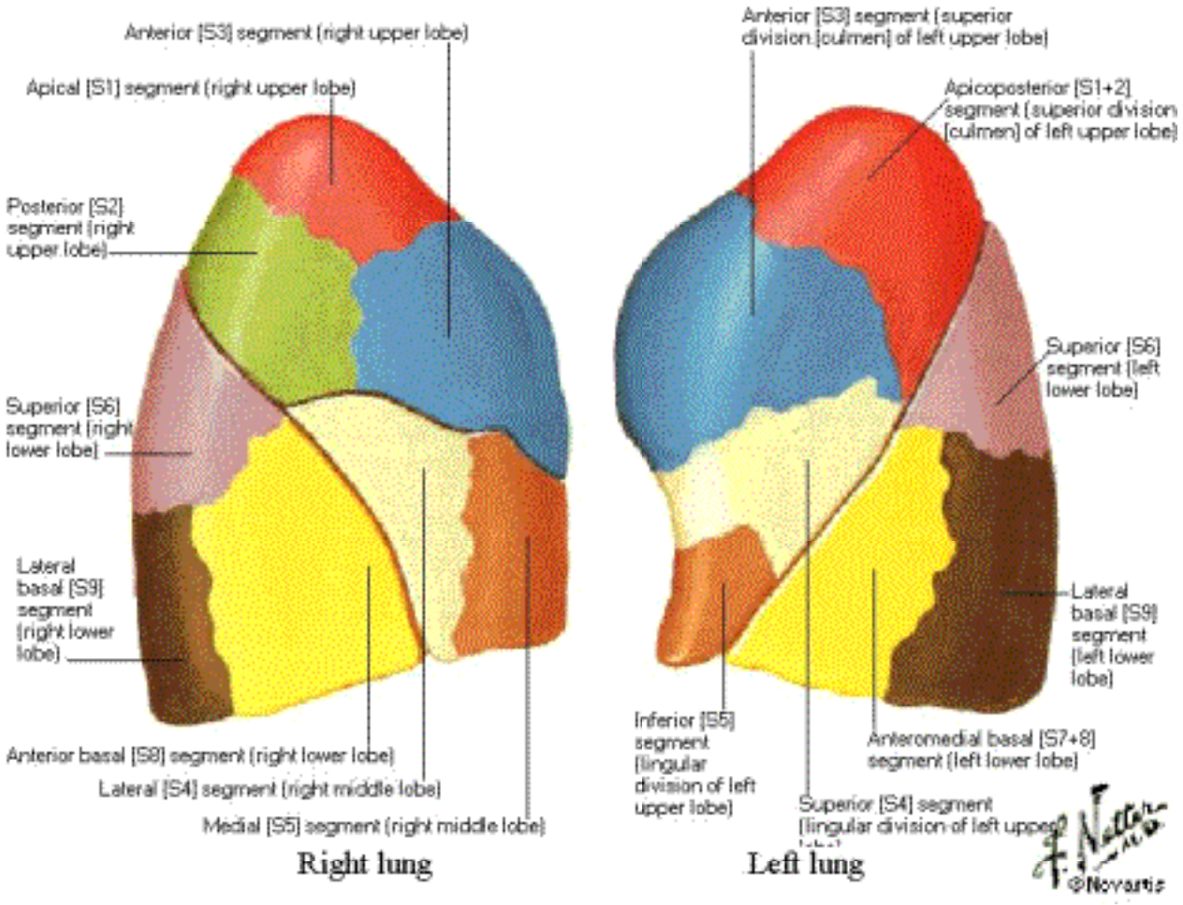
Left lung

Right lung

©Novartis

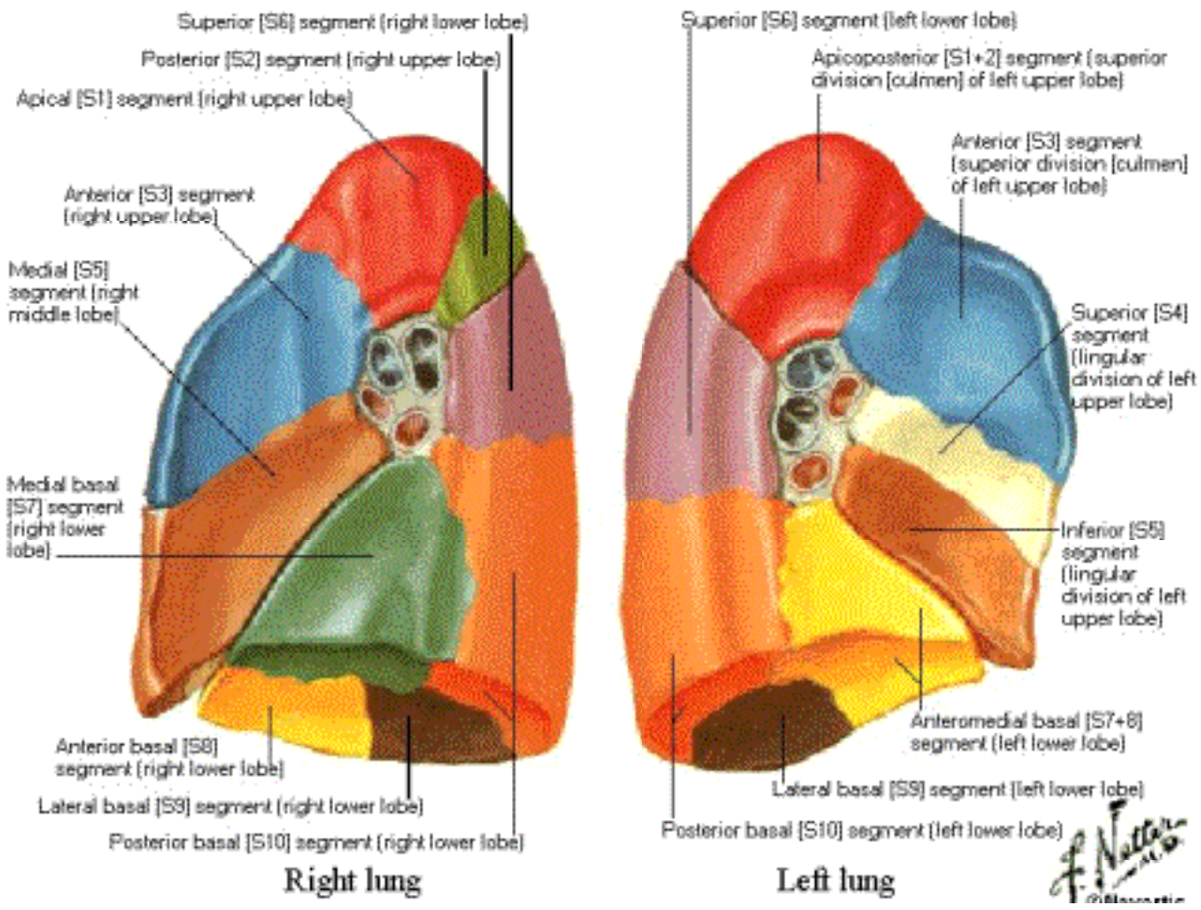
Bronchopulmonary Segments

Lateral Views



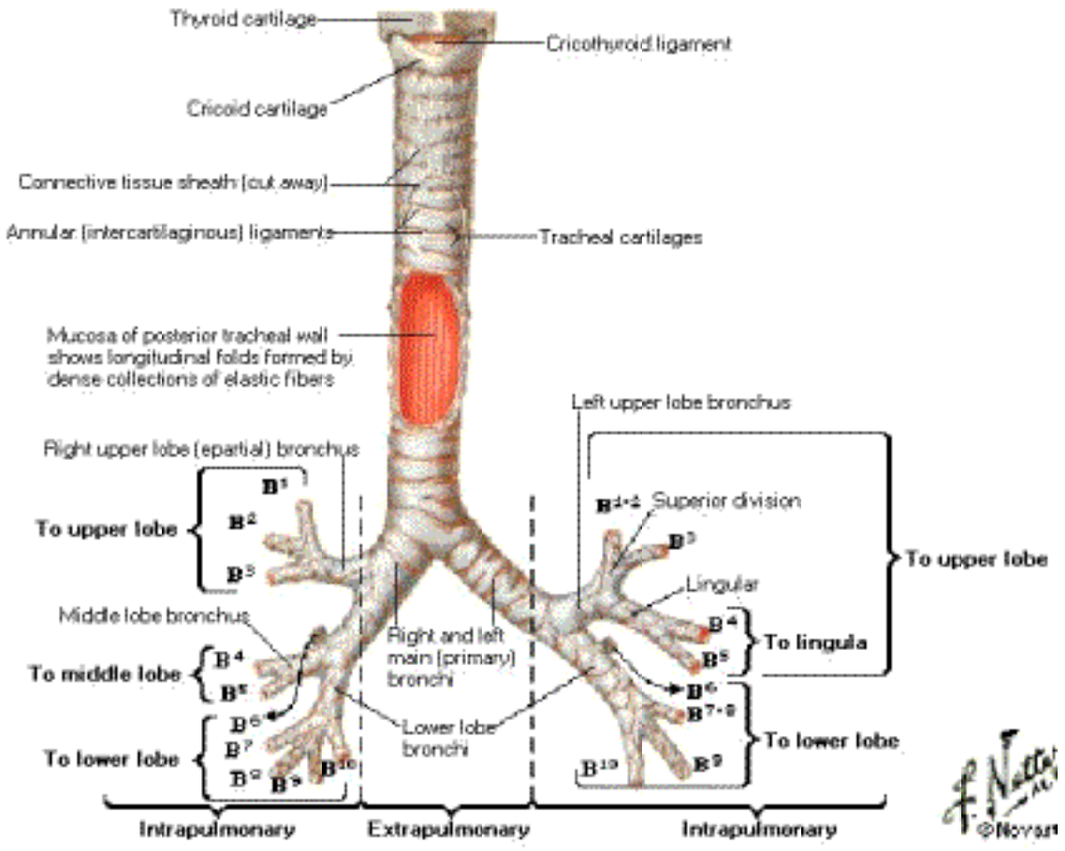
Bronchopulmonary Segments

Medial Views



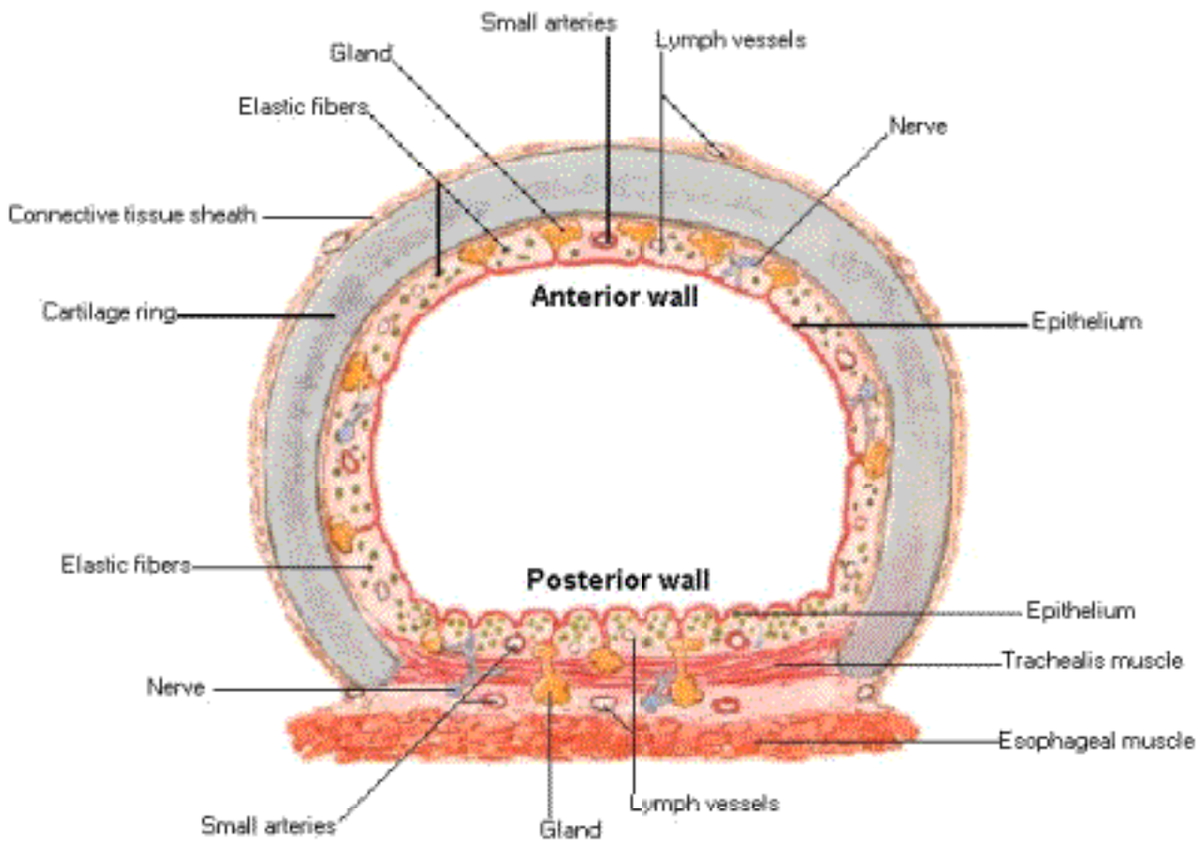
Trachea and Major Bronchi

Anterior View



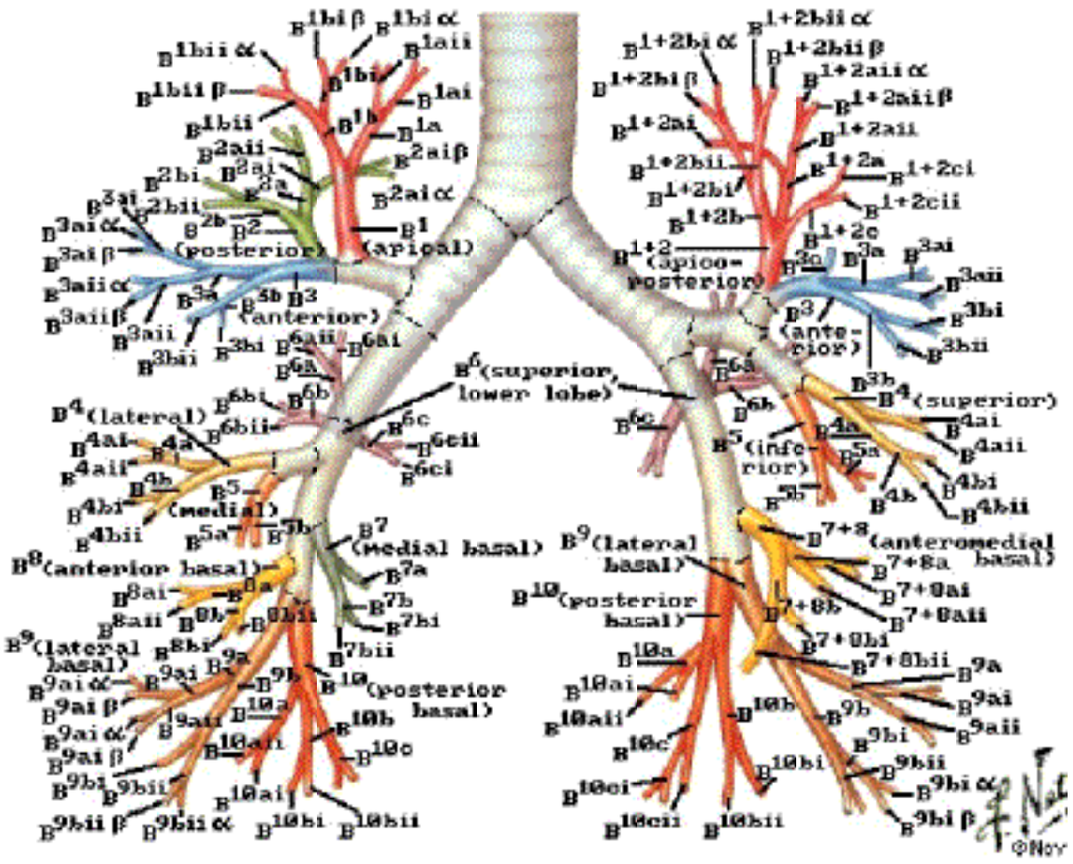
Trachea

Cross Section



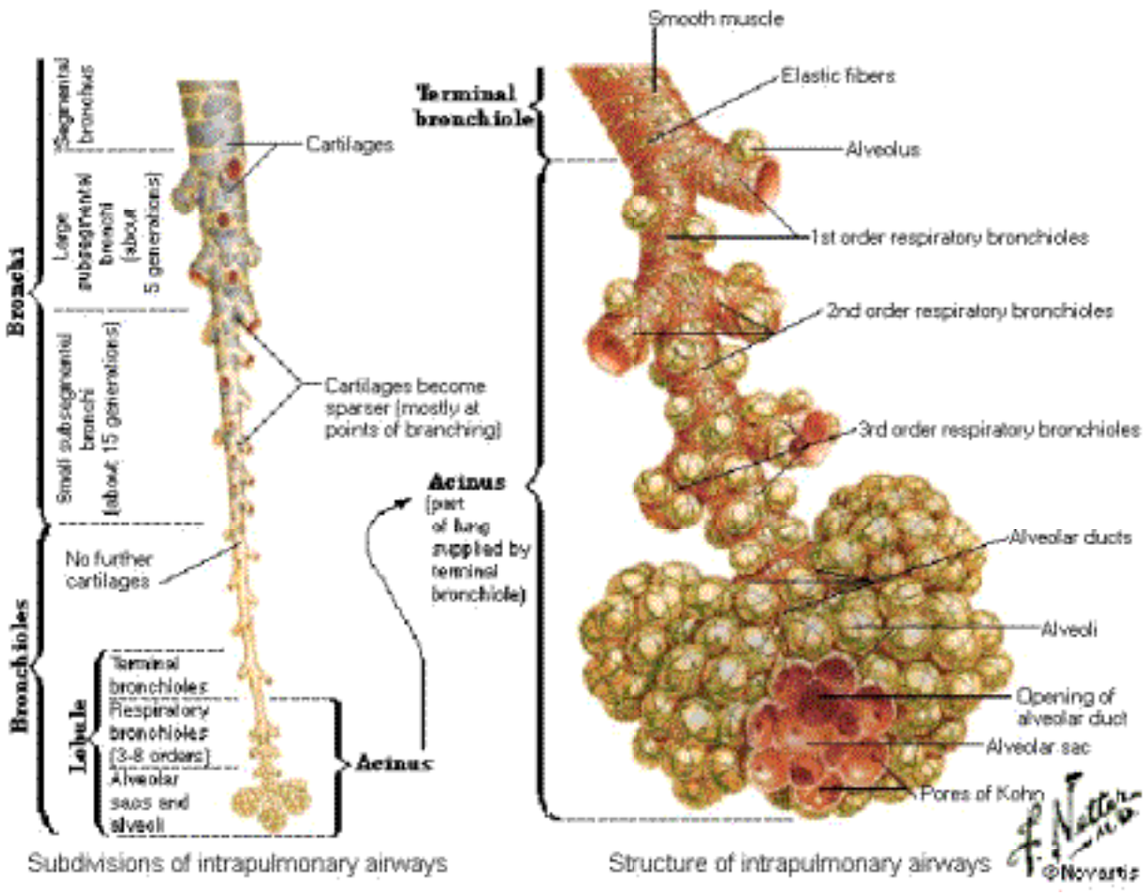
Nomenclature of Bronchi

Schema



Intrapulmonary Airways

Schema

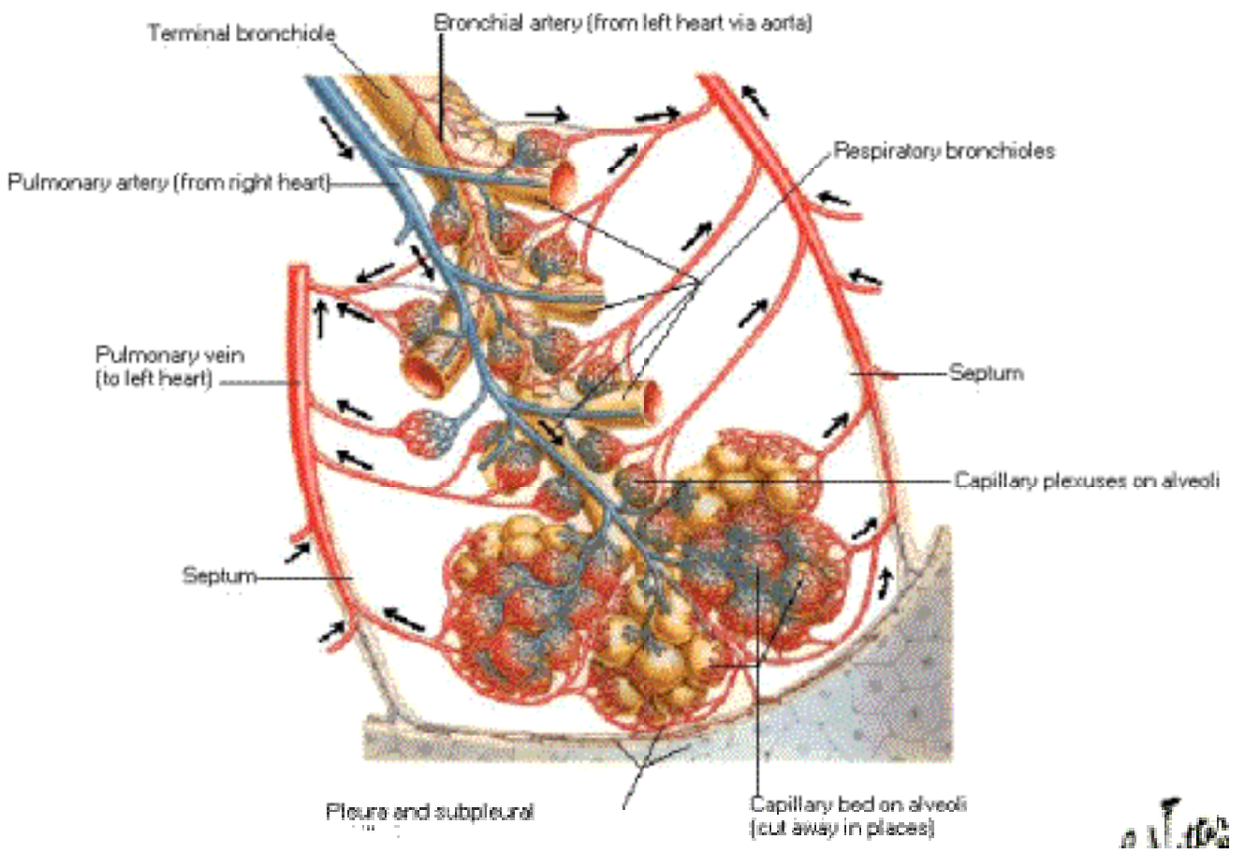


Subdivisions of intrapulmonary airways

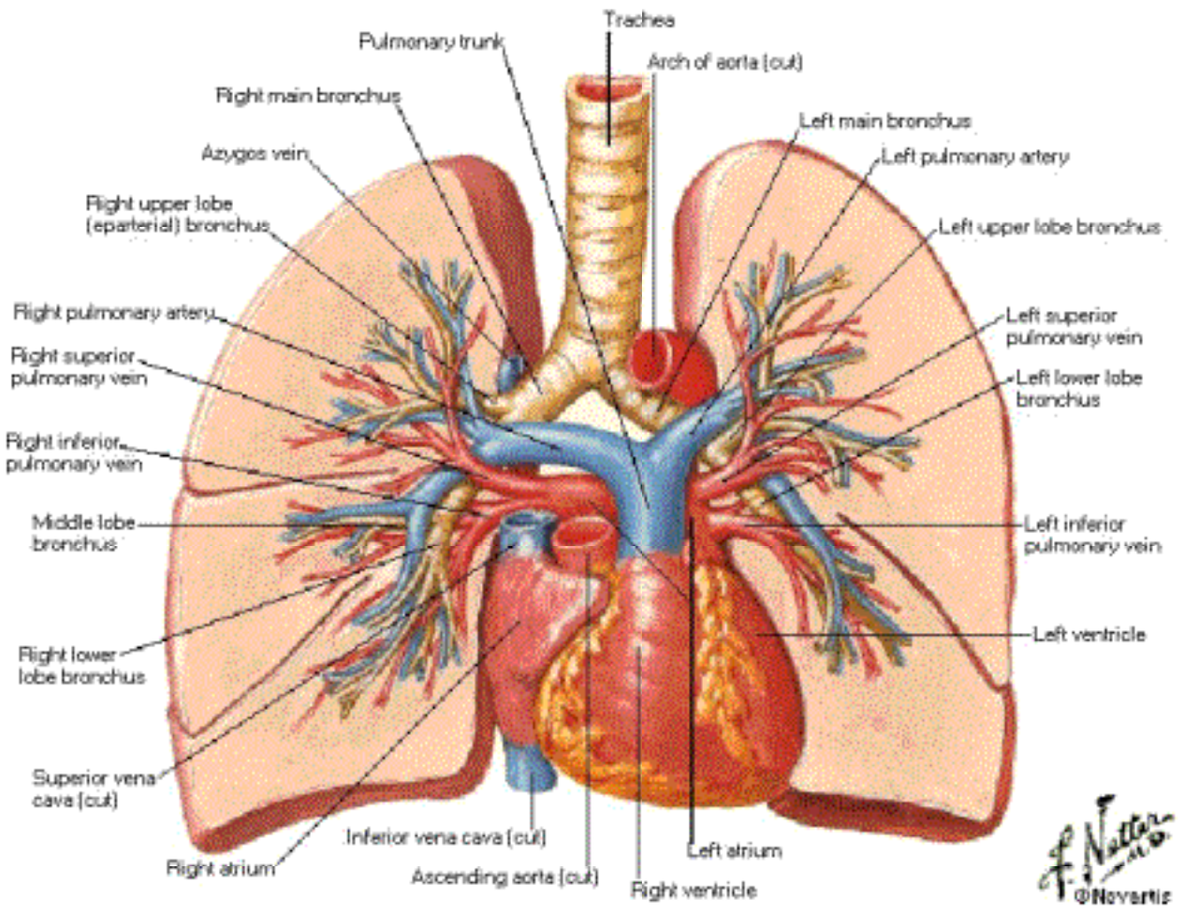
Structure of intrapulmonary airways

Intrapulmonary Blood Circulation

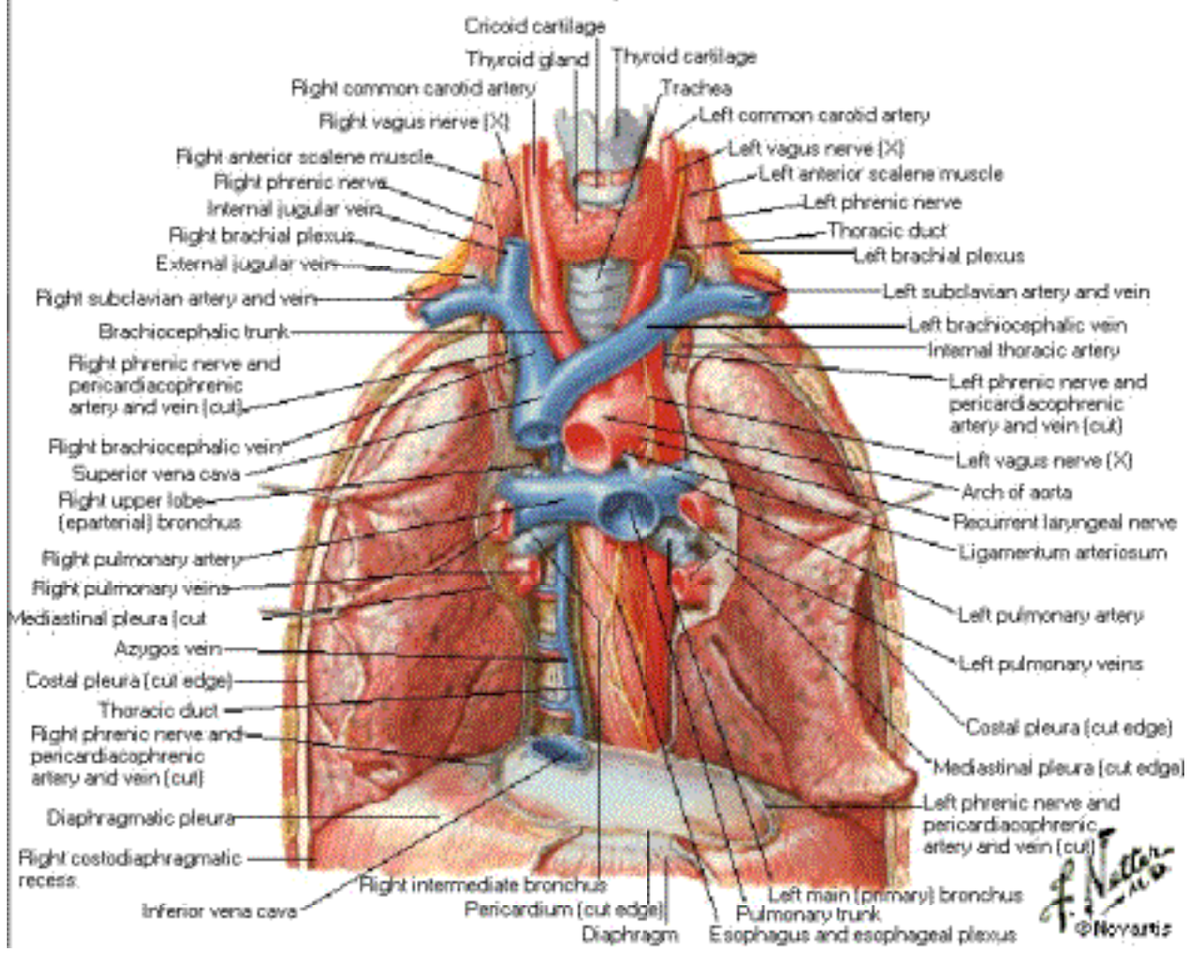
Schema



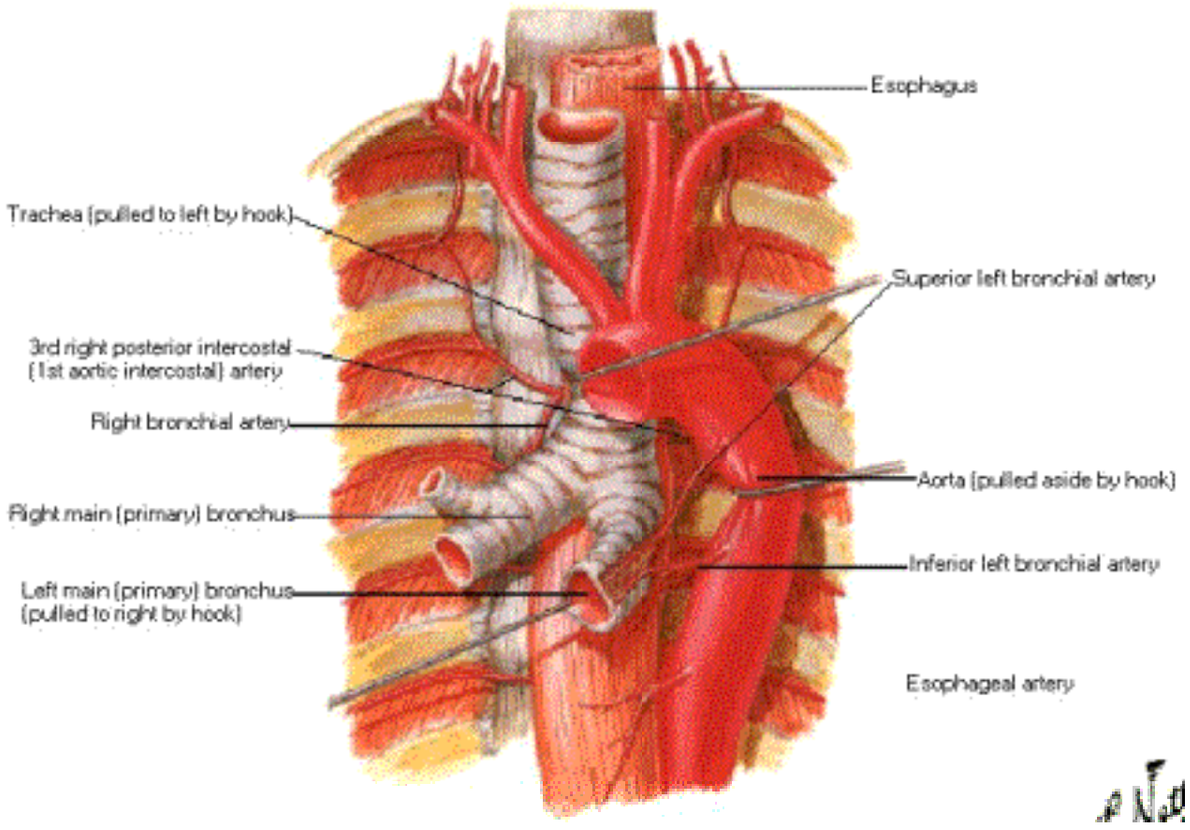
Pulmonary Arteries and Veins



Main Bronchi With Pulmonary Arteries and Veins in Situ

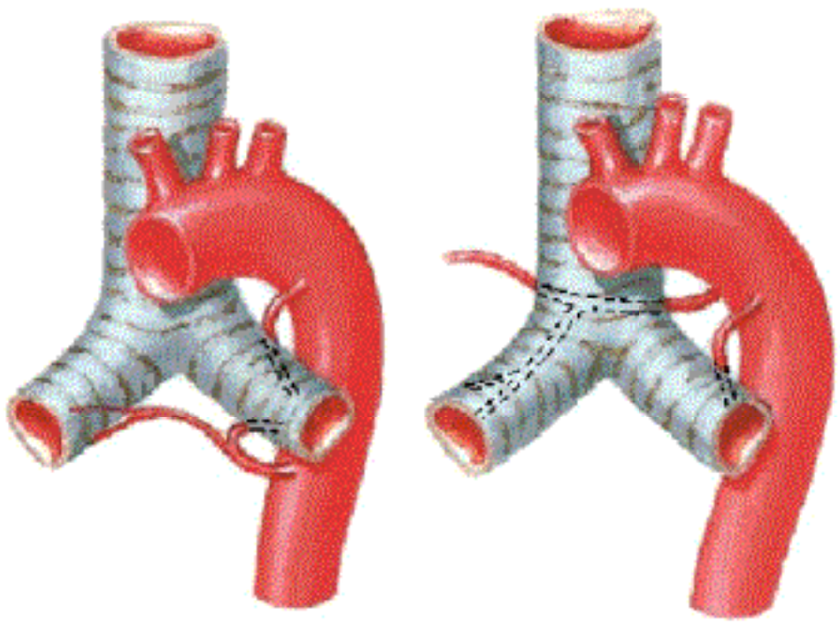


Bronchial Arteries



Bronchial Arteries

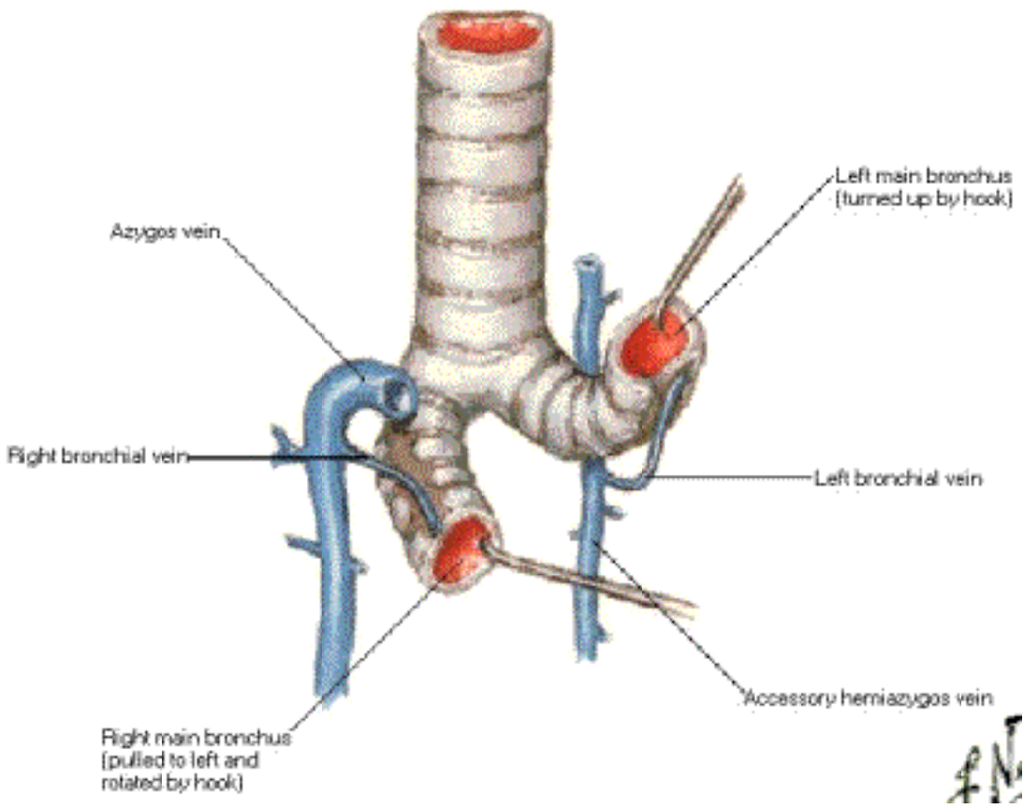
Variations



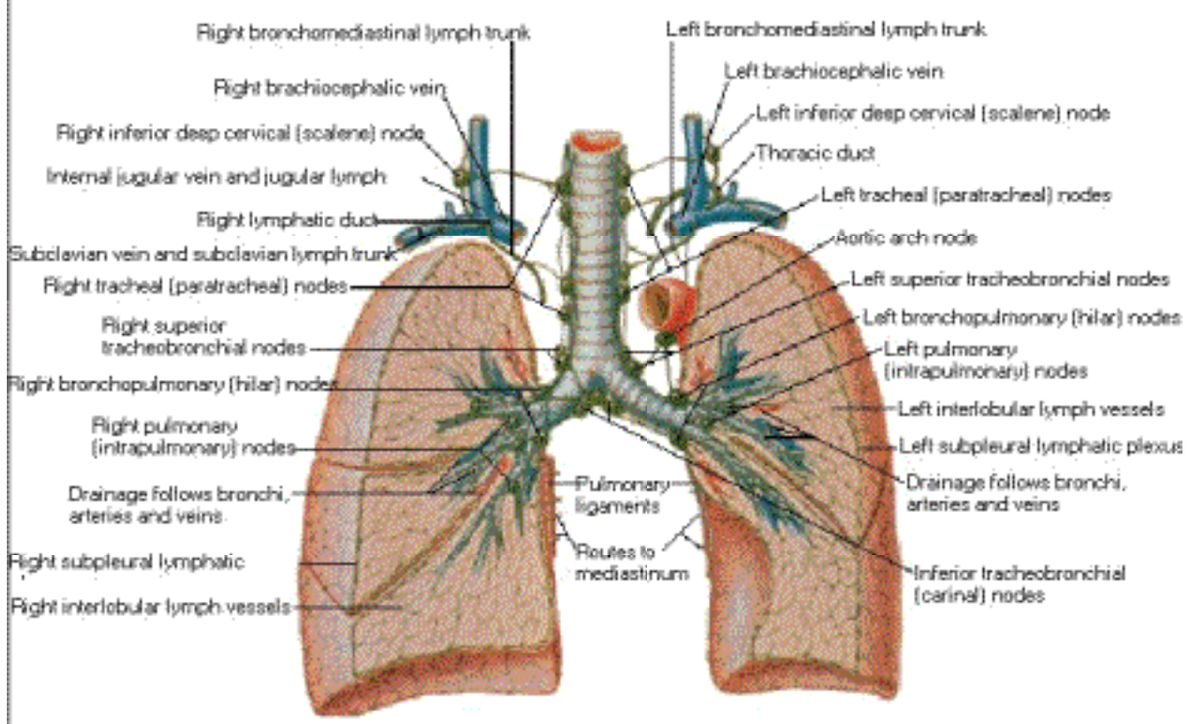
Right and left bronchial arteries originating from aorta by single stem

Only single bronchial artery to each bronchus (normally, two to left bronchus)

Bronchial Veins



Lymph Vessels and Nodes of Lung

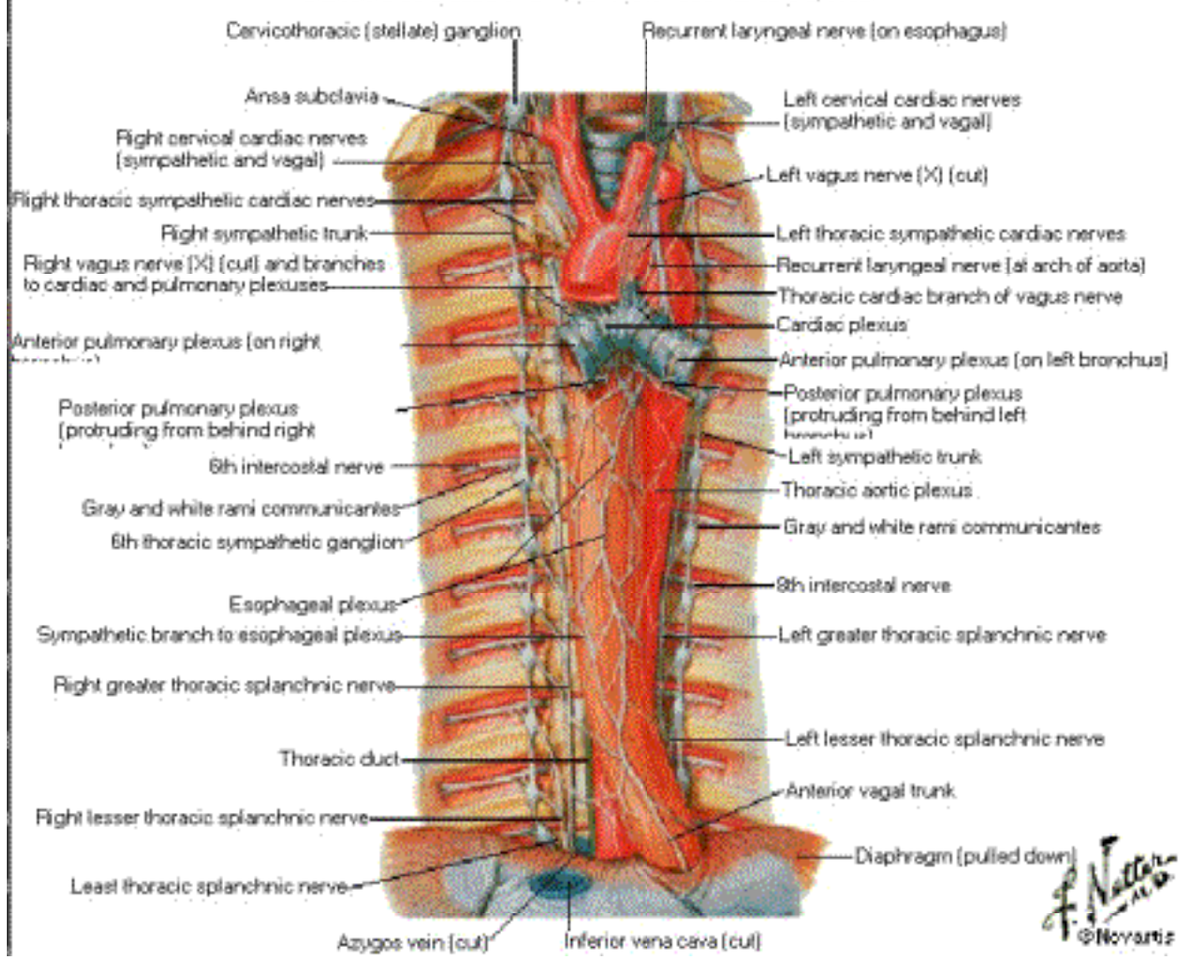


Right lung: All lobes drain to intrapulmonary and bronchopulmonary (hilar) nodes, then to inferior tracheobronchial (carinal) nodes, right superior tracheobronchial nodes and to right tracheal nodes on way to brachiocephalic vein via bronchomediastinal lymph trunk and/or scalene node.

Left lung: Upper lobe drains to pulmonary and hilar nodes, carinal nodes, left superior tracheobronchial nodes, left tracheal nodes and/or aortic arch node, then to brachiocephalic vein via left bronchomediastinal trunk and thoracic duct. Left lower lobe drains also to pulmonary and hilar nodes and to carinal nodes, but then mostly to right superior tracheobronchial nodes, where it follows same route as lymph from right lung.

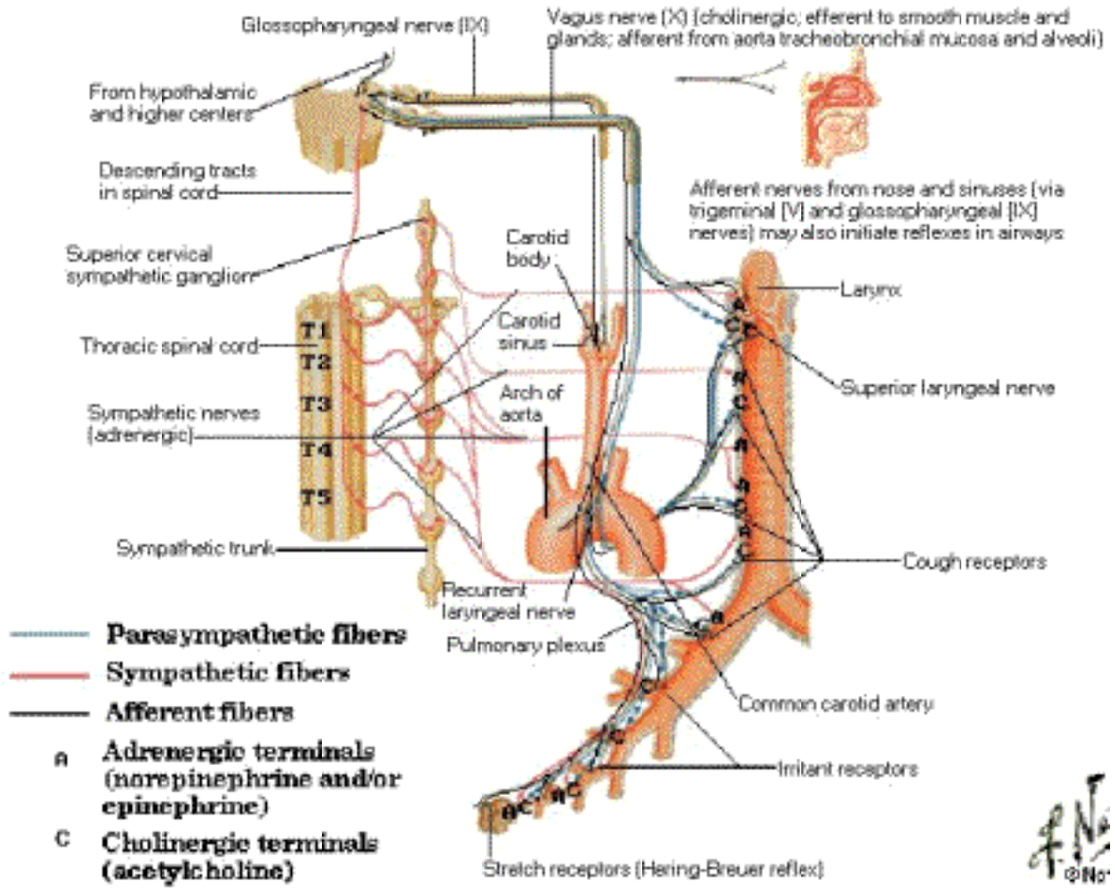
©Novartis

Autonomic Nerves in Thorax

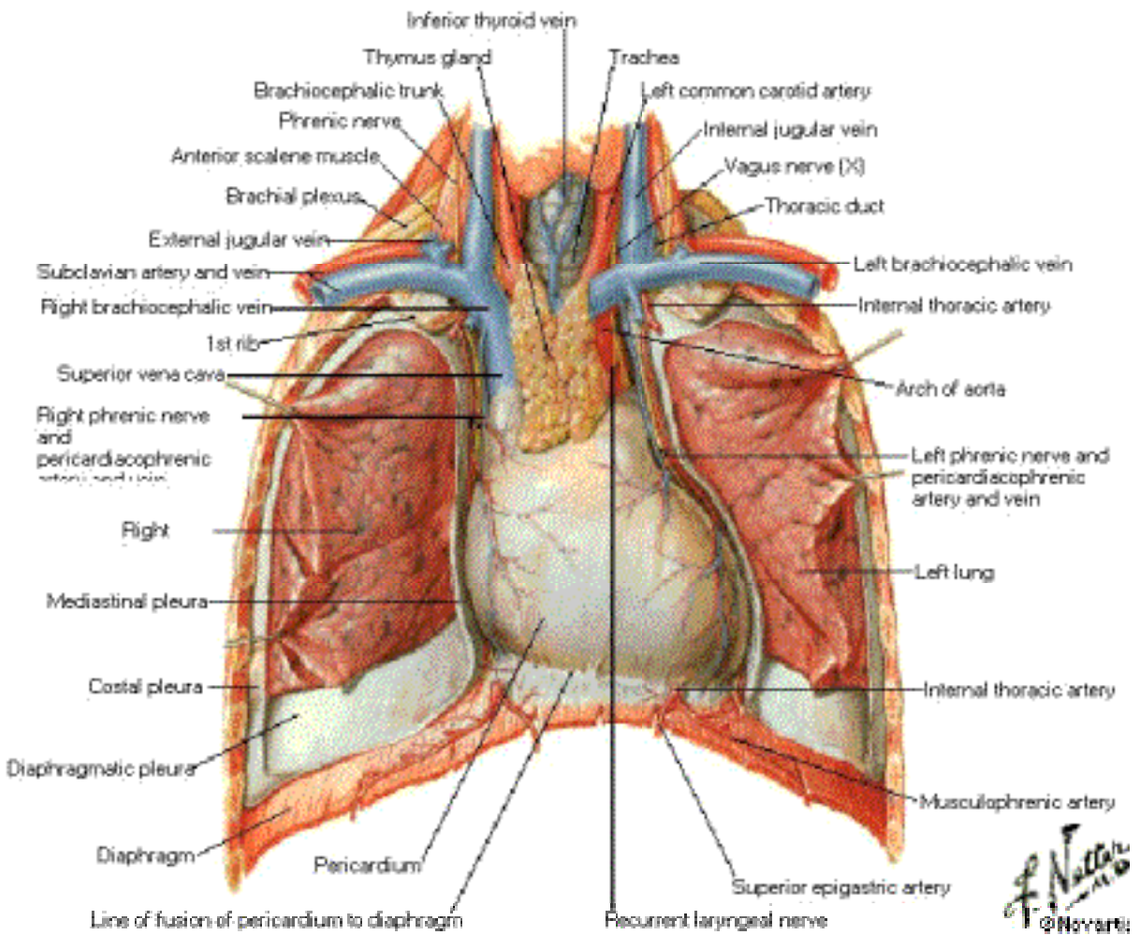


Innervation of Tracheobronchial Tree

Schema

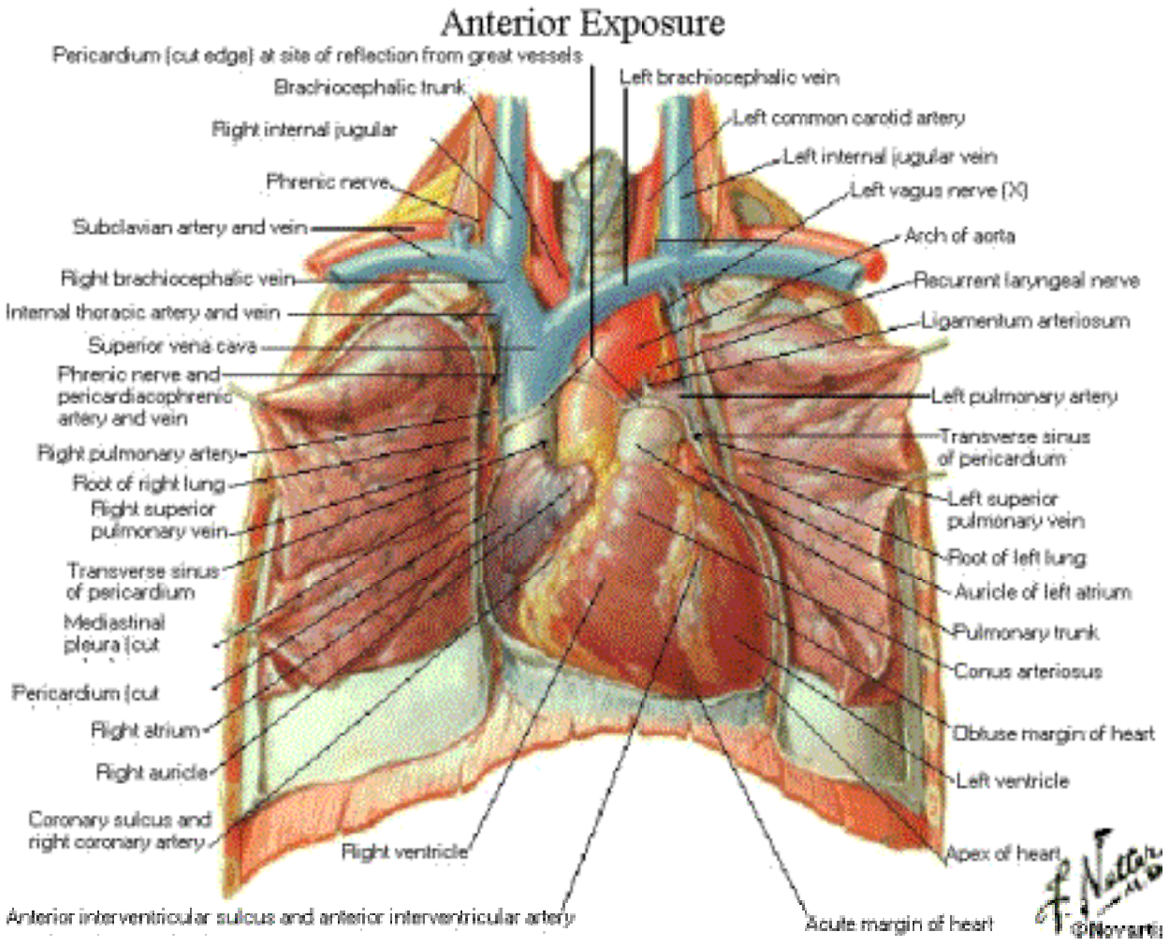


Heart in Situ



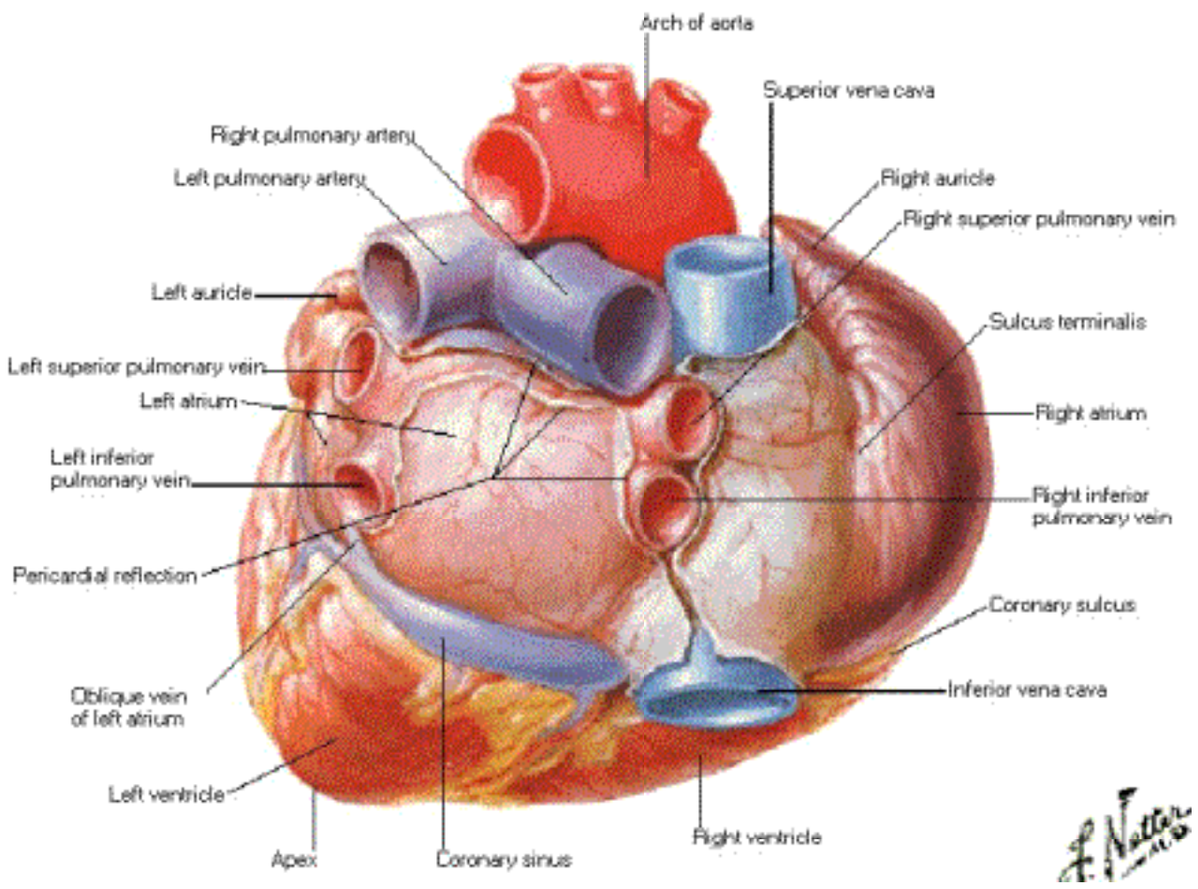
Heart

Anterior Exposure



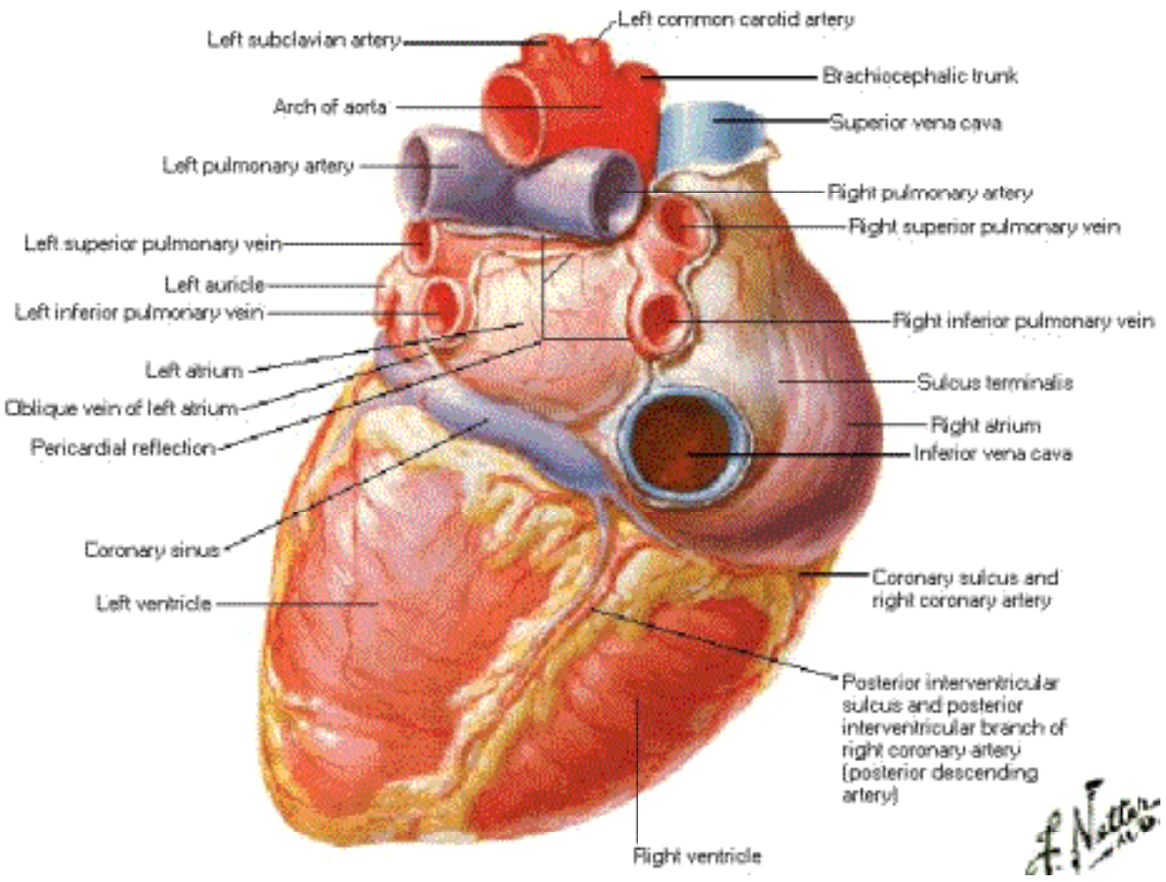
Heart - Basal Surface

Posterior View



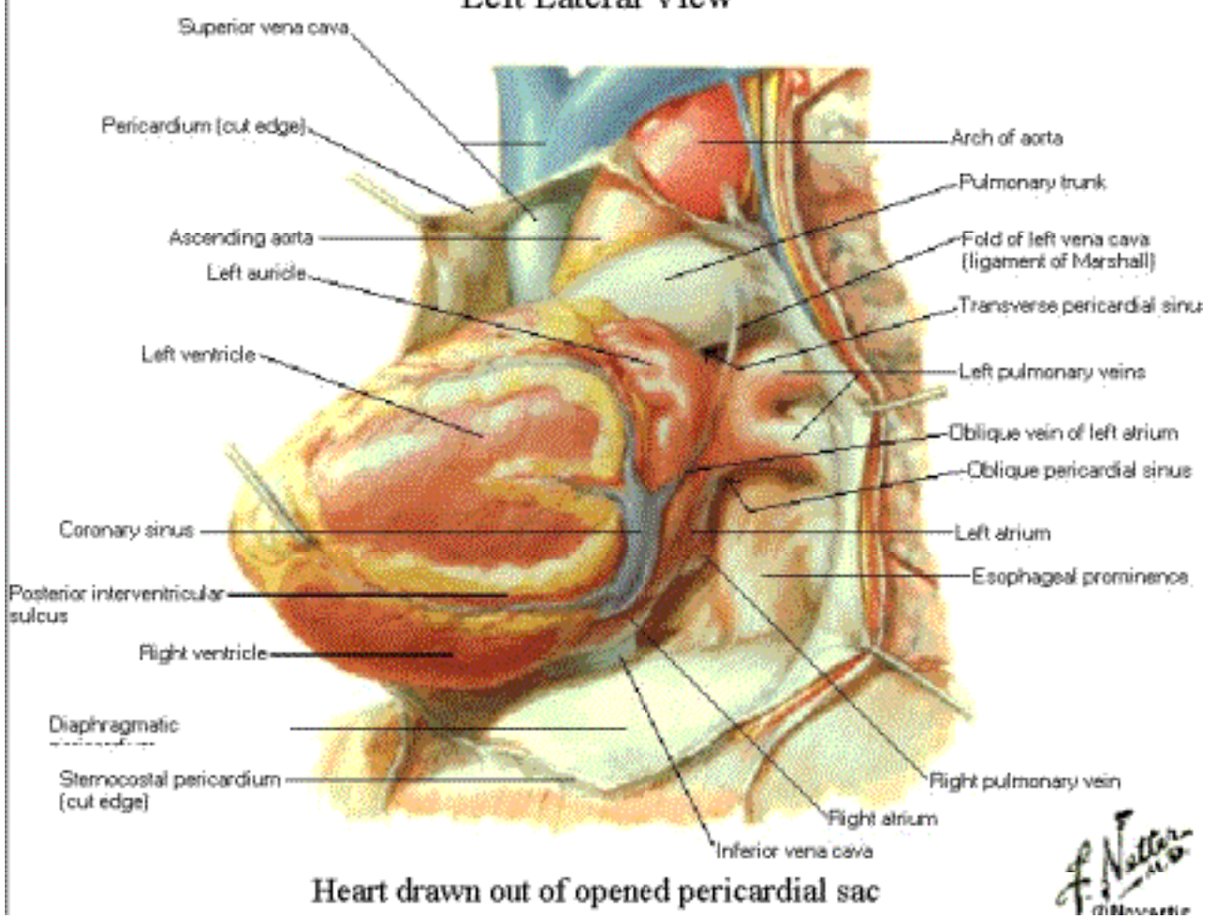
Heart - Diaphragmatic Surface

Posteroinferior View



Pericardial Sac - Heart Drawn Out

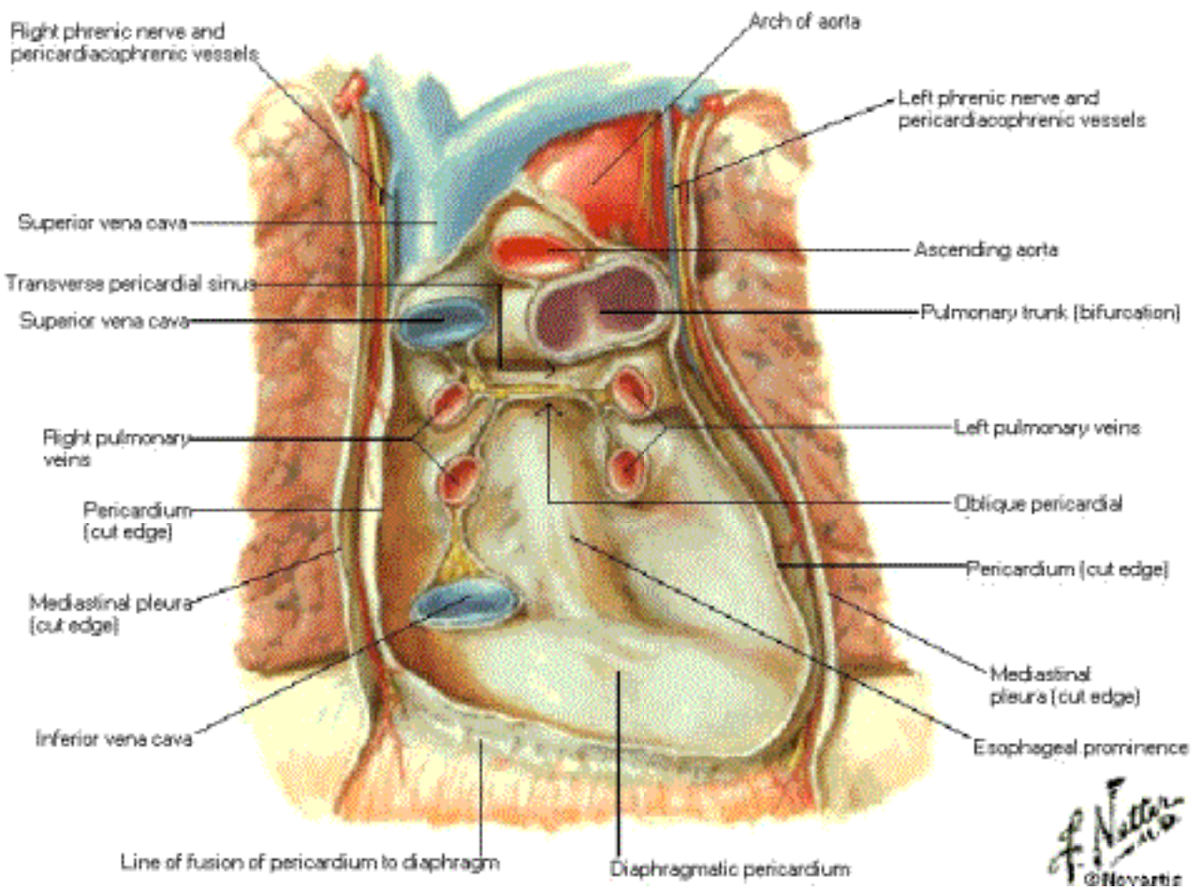
Left Lateral View



Heart drawn out of opened pericardial sac

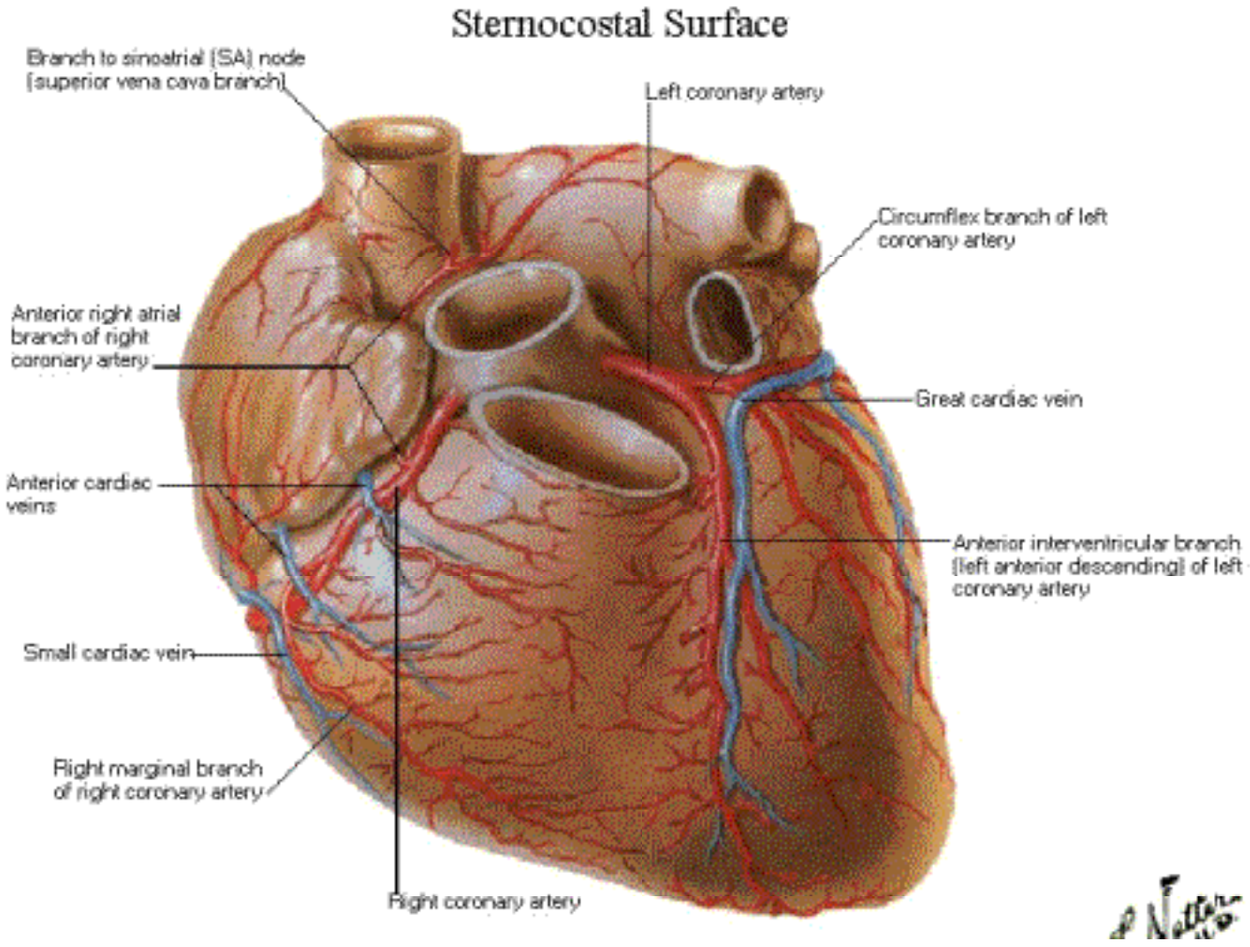
Pericardial Sac - Heart Removed

Anterior View



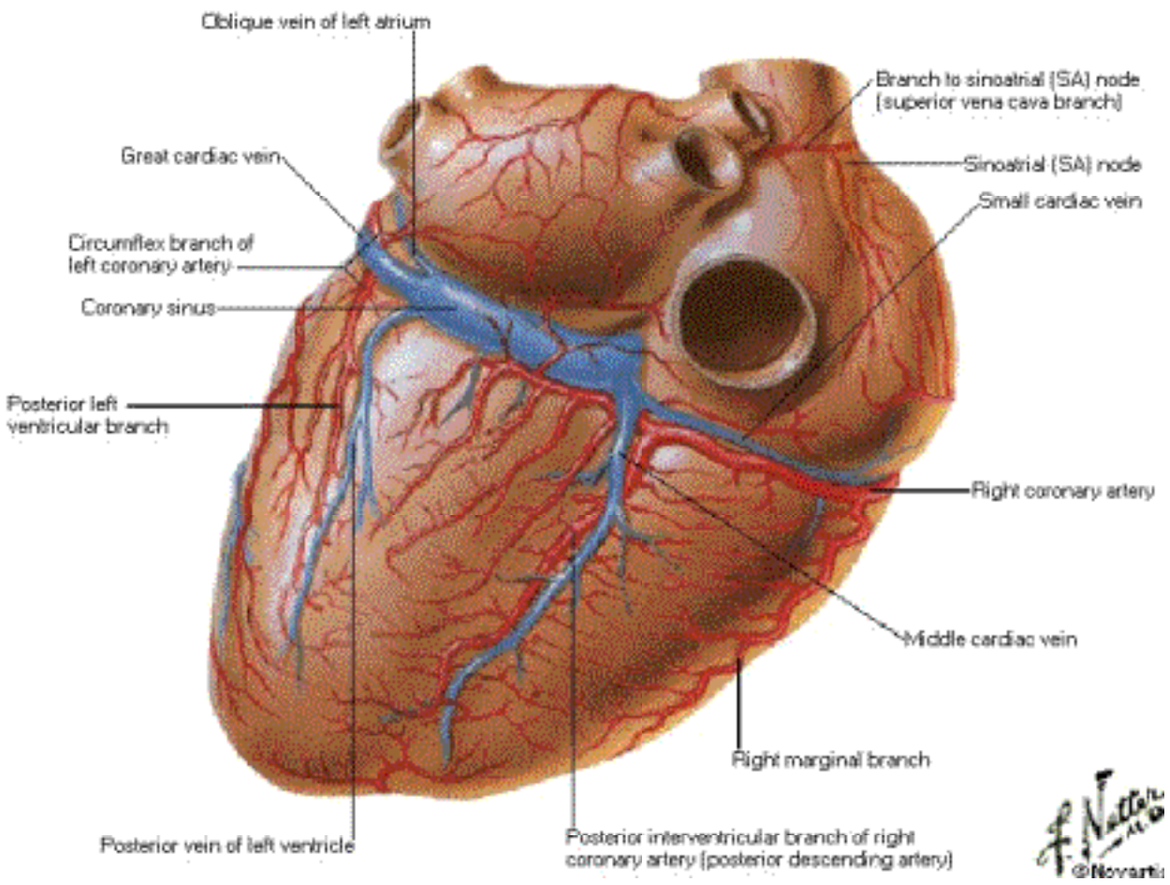
Coronary Arteries and Cardiac Veins

Sternocostal Surface



Coronary Arteries and Cardiac Veins

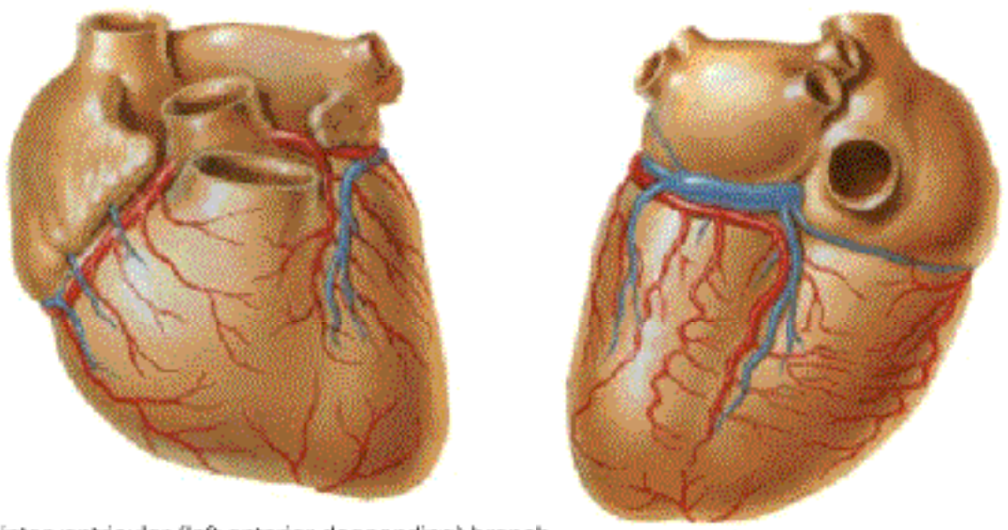
Diaphragmatic Surface



Coronary Arteries and Cardiac Veins

Variations 1

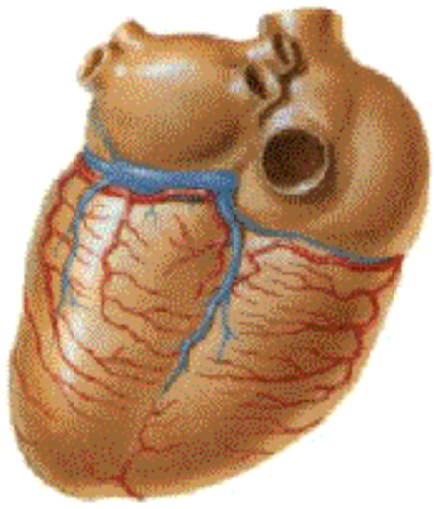
Posterior interventricular (posterior descending) branch derived from circumflex branch of left coronary artery instead of from right coronary artery.



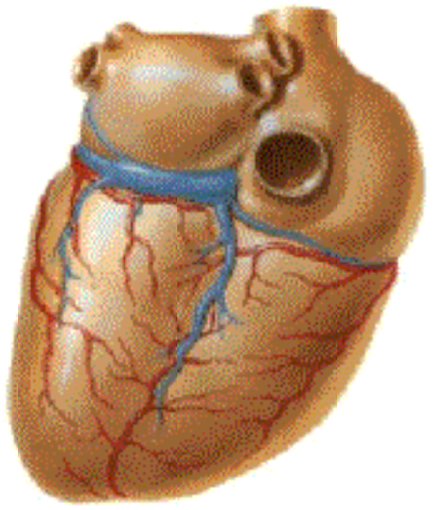
Anterior interventricular (left anterior descending) branch of left coronary artery very short. Apical part of sternocostal surface supplied by branches from posterior interventricular (posterior descending) branch of right coronary artery curving around apex.

Coronary Arteries and Cardiac Veins

Variations 2



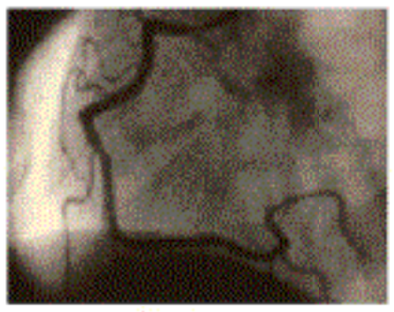
Posterior interventricular (posterior descending) branch absent. Area supplied chiefly by small branches from circumflex branch of left coronary artery and from right coronary artery.



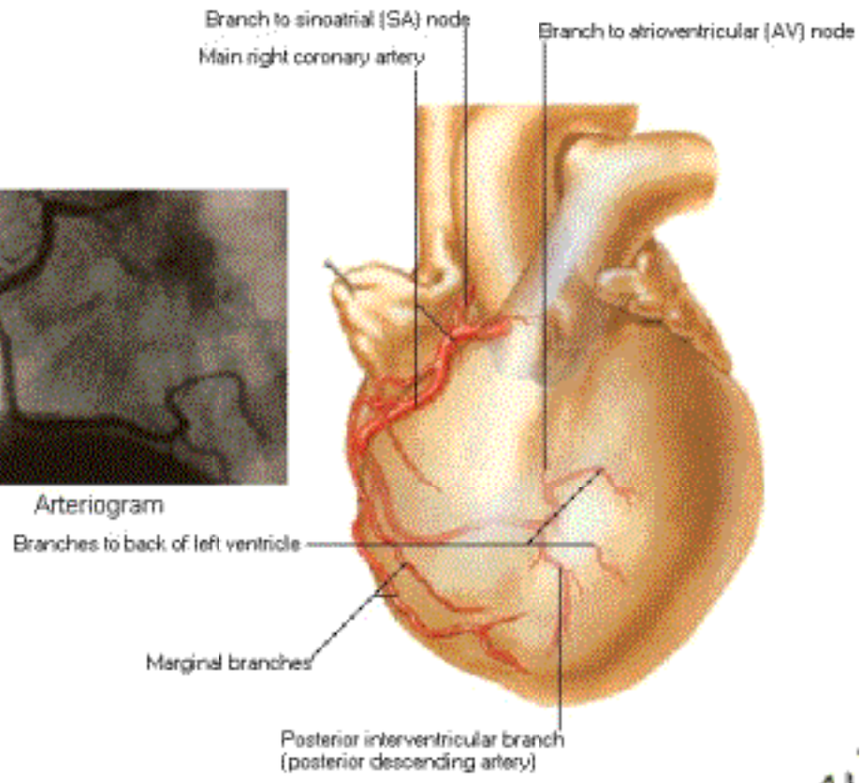
Posterior interventricular (posterior descending) branch absent. Area supplied chiefly by elongated anterior interventricular (left anterior descending) branch curving around apex.

Right Coronary Artery

Arteriographic View 1



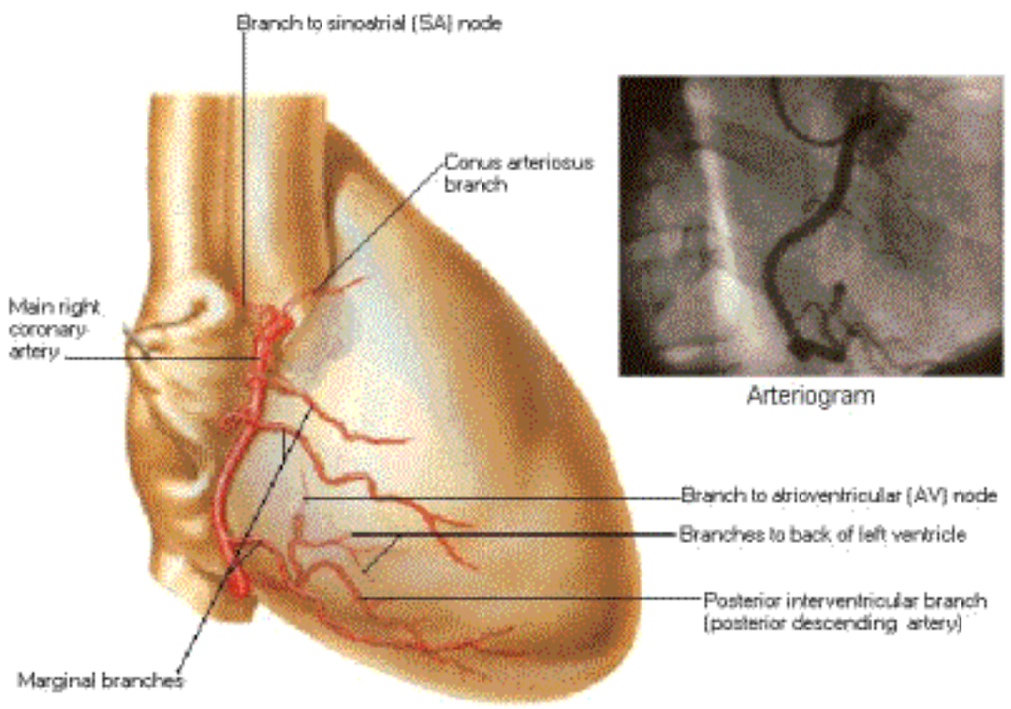
Arteriogram



Left anterior oblique view

Right Coronary Artery

Arteriographic View 2

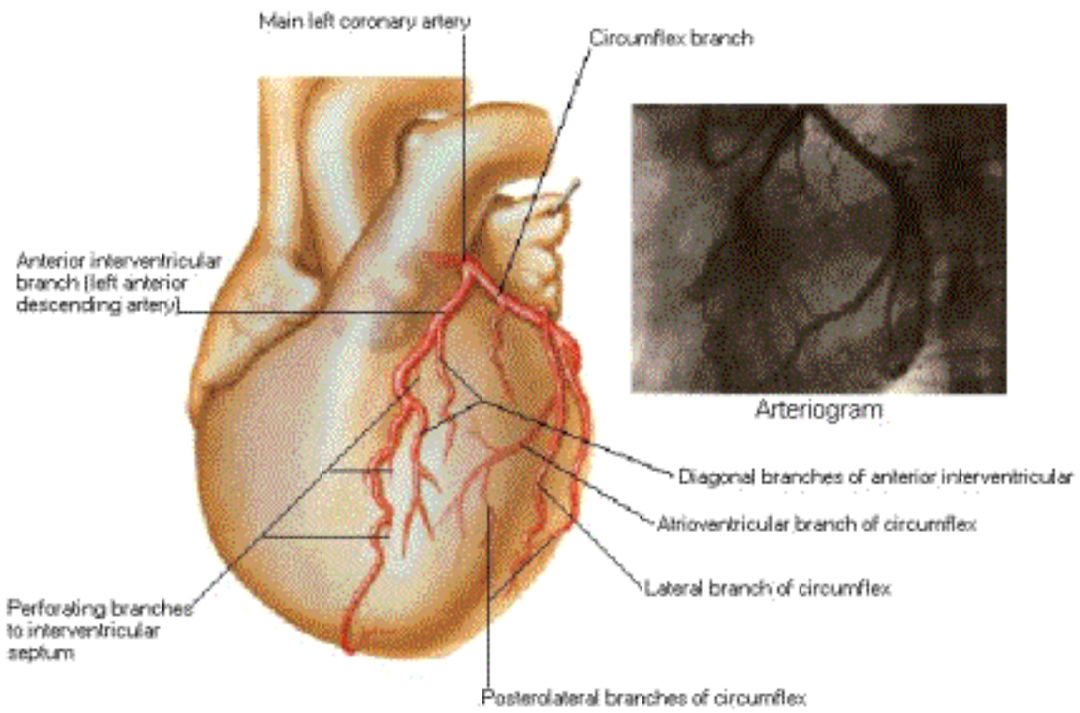


Arteriogram

Right anterior oblique view

Left Coronary Artery

Arteriographic View 1

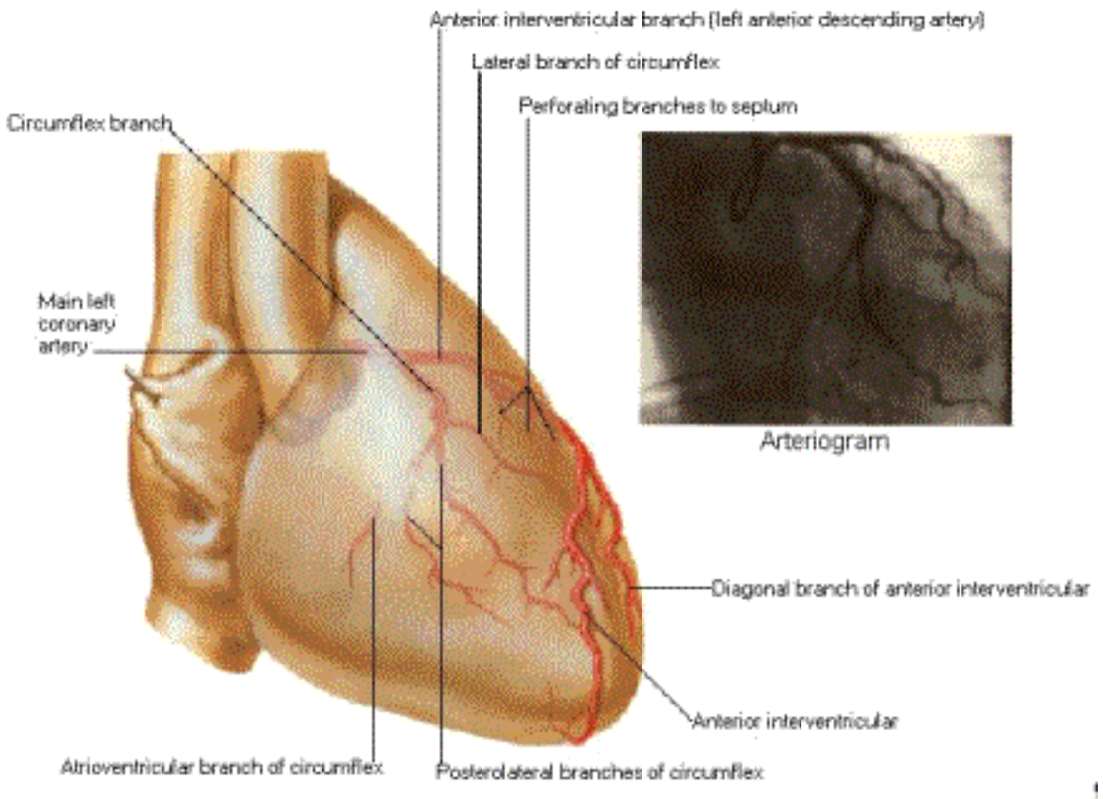


Arteriogram

Left anterior oblique view

Left Coronary Artery

Arteriographic View 2

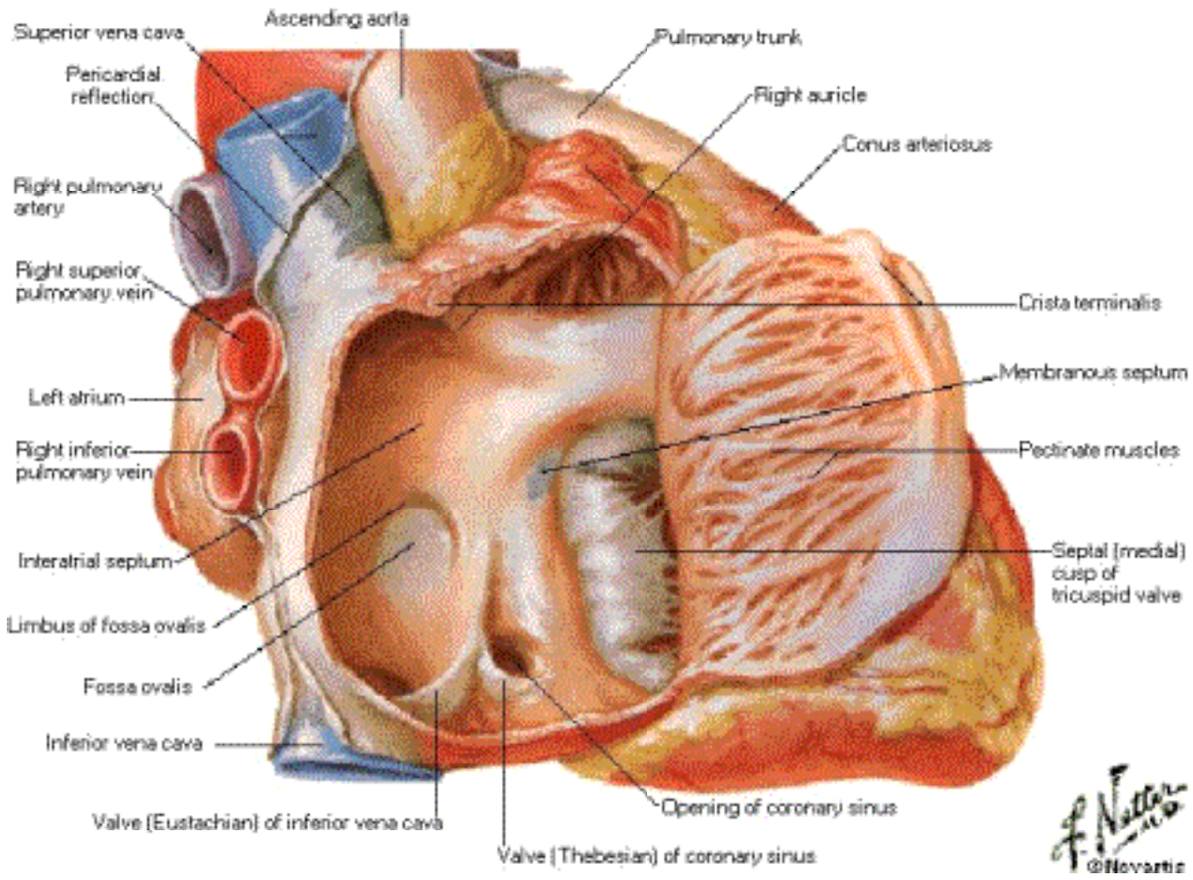


Arteriogram

Right anterior oblique view

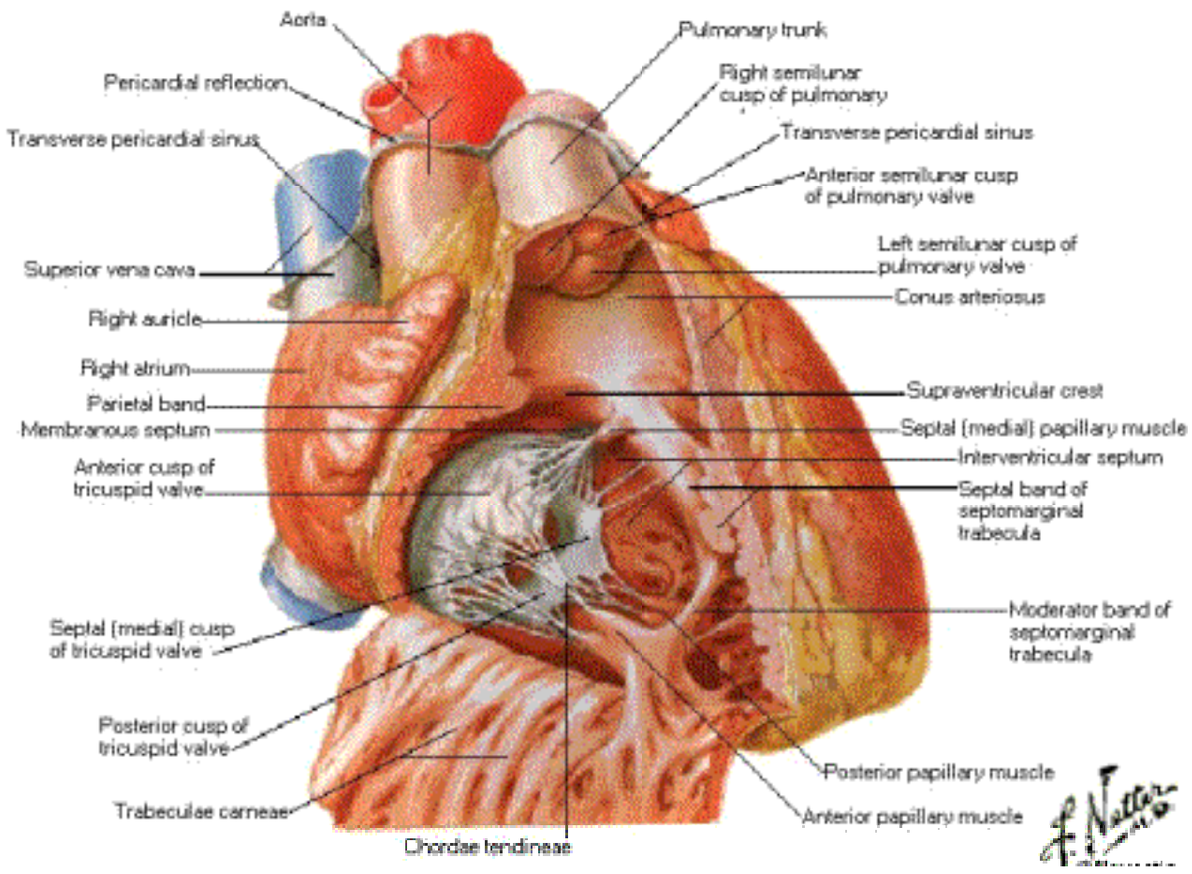
Opened Right Atrium

Right Lateral View



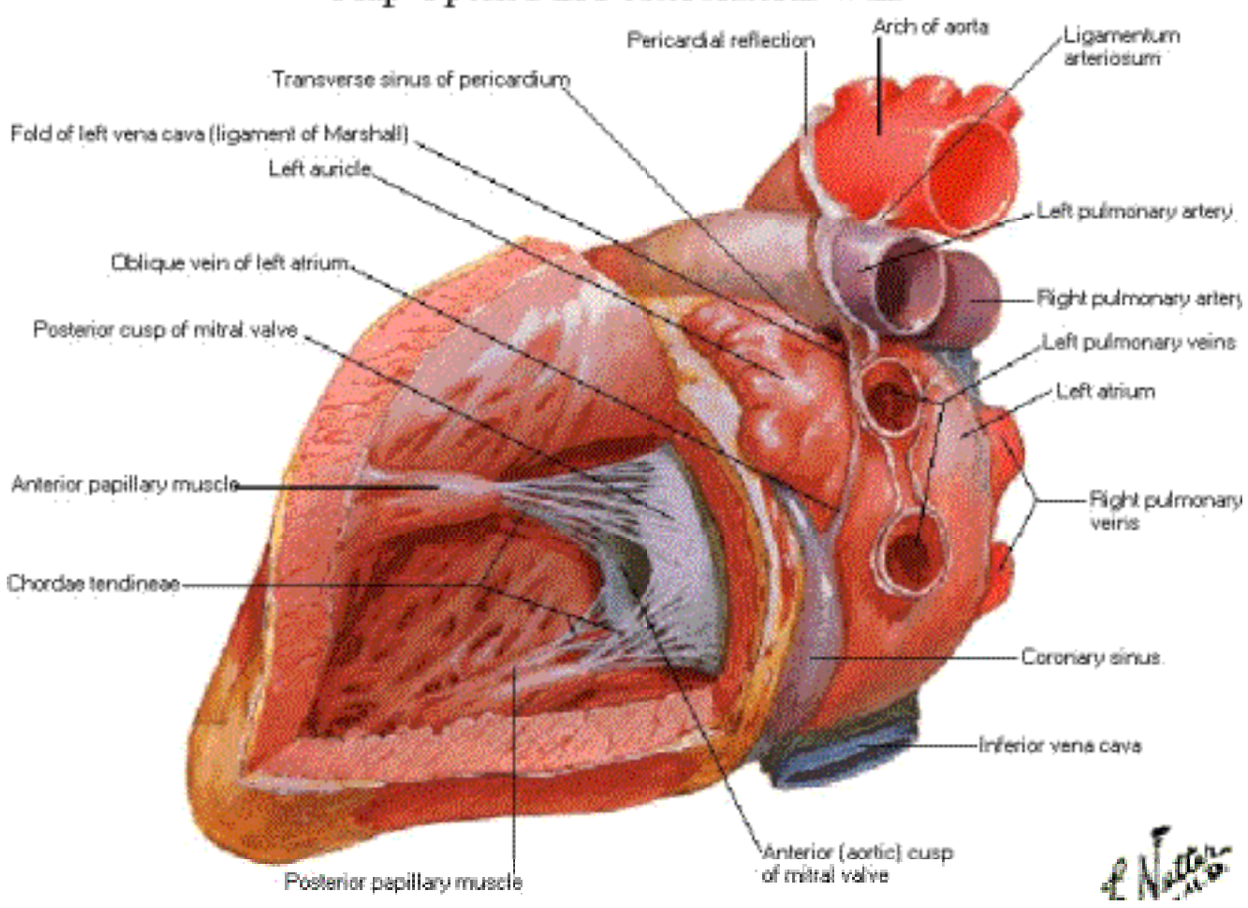
Opened Right Ventricle

Anterior View



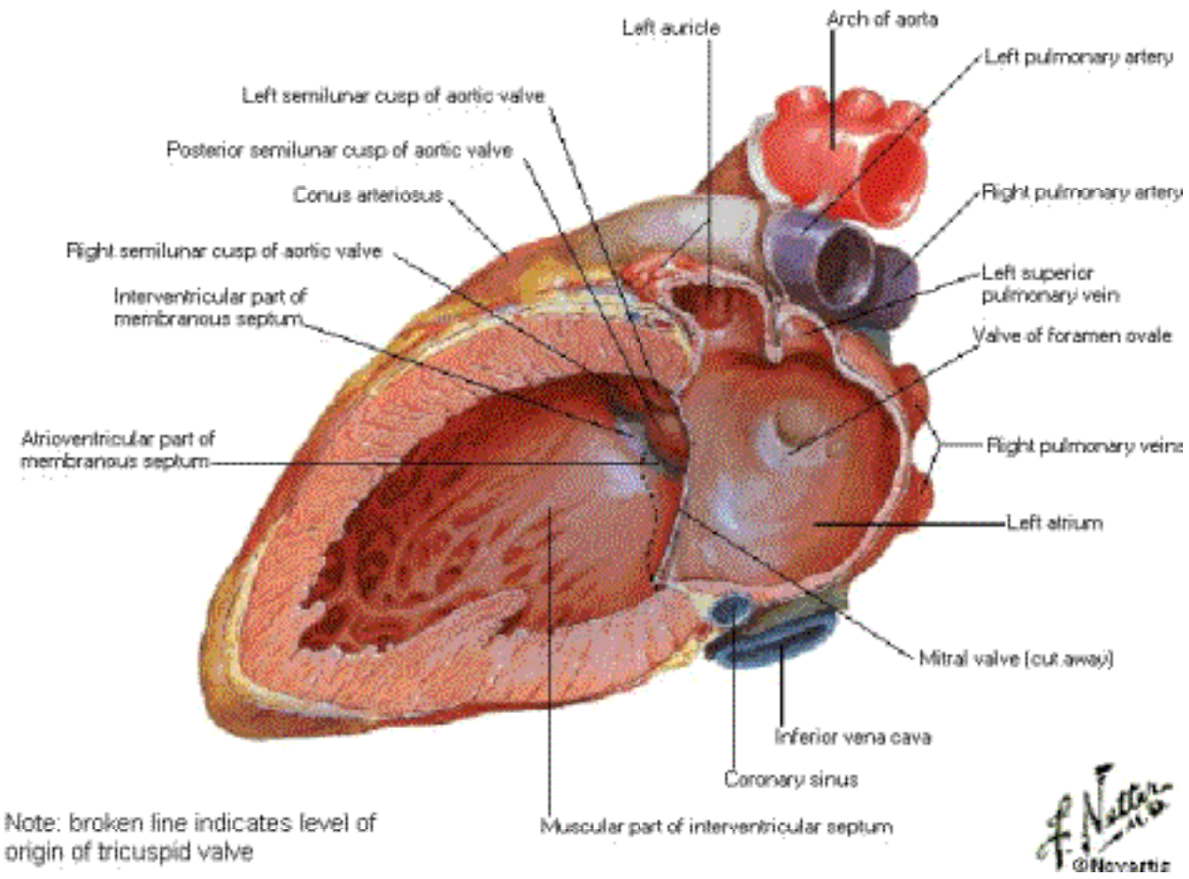
Left Ventricle

Flap Opened in Posterolateral Wall



Left Atrium and Ventricle

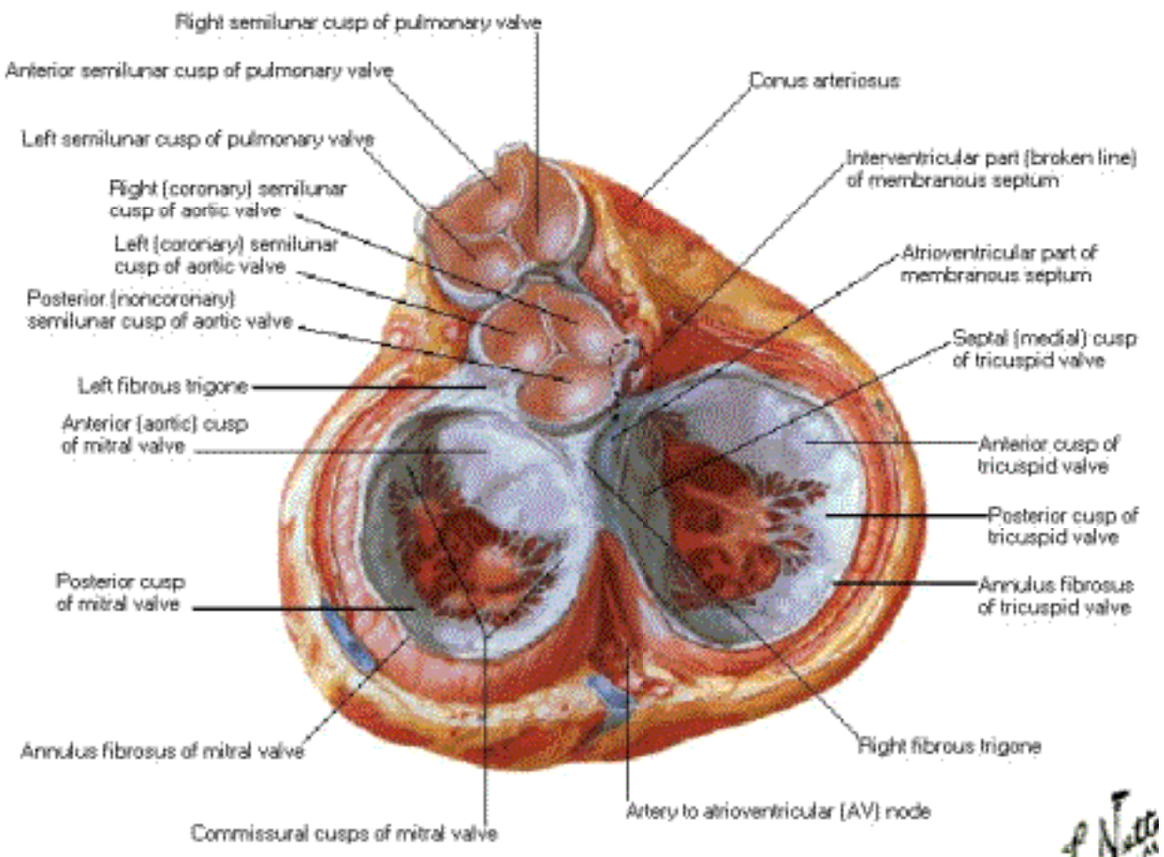
Sectioned with Mitral Valve Cut Away



Note: broken line indicates level of origin of tricuspid valve

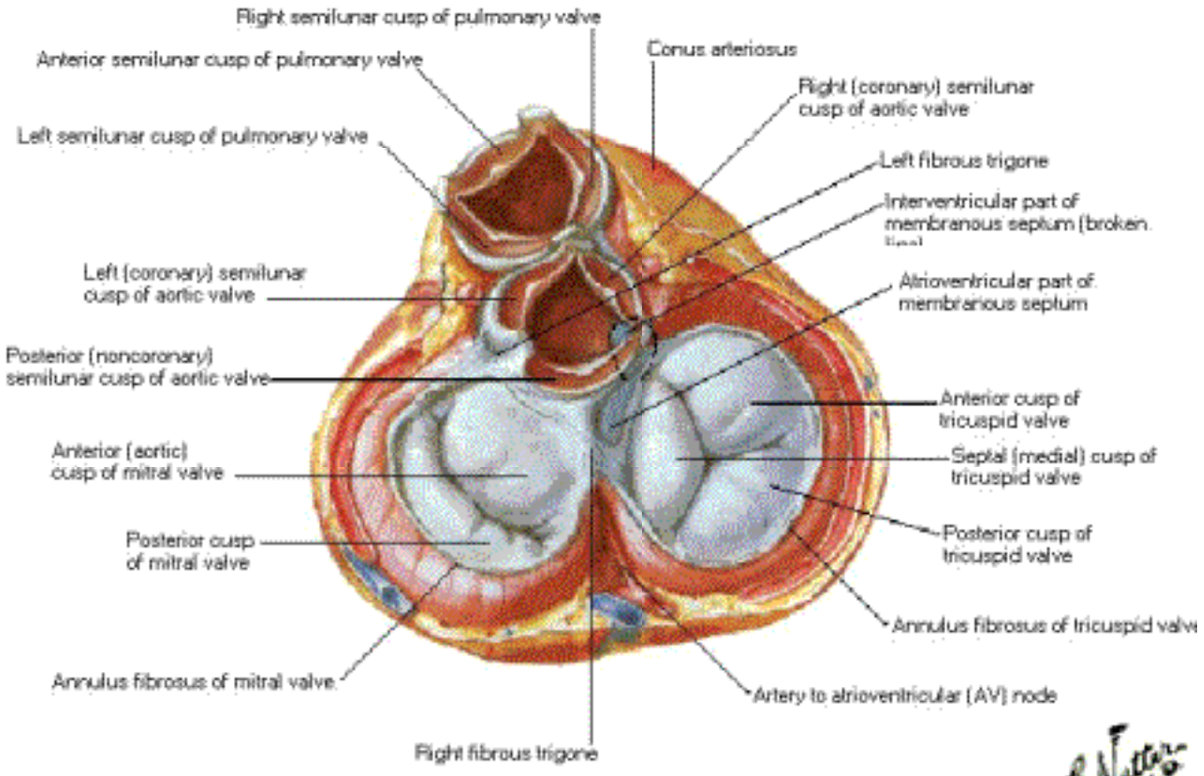
F. Netter M.D.
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Valves of Heart in Diastole



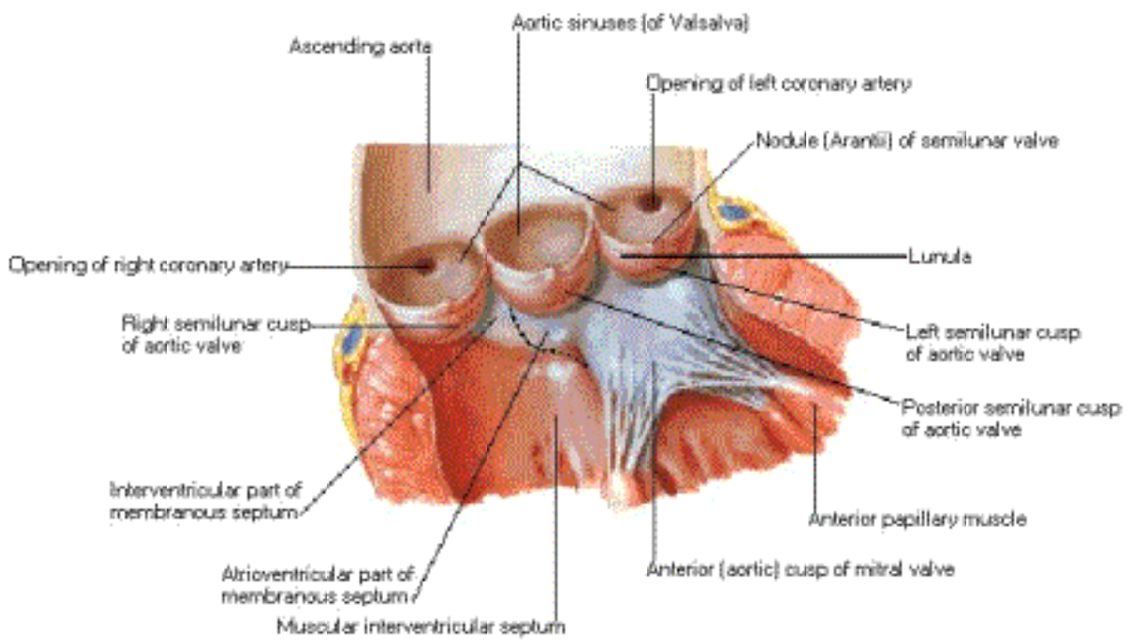
Viewed from base with atria removed

Valves of Heart in Systole



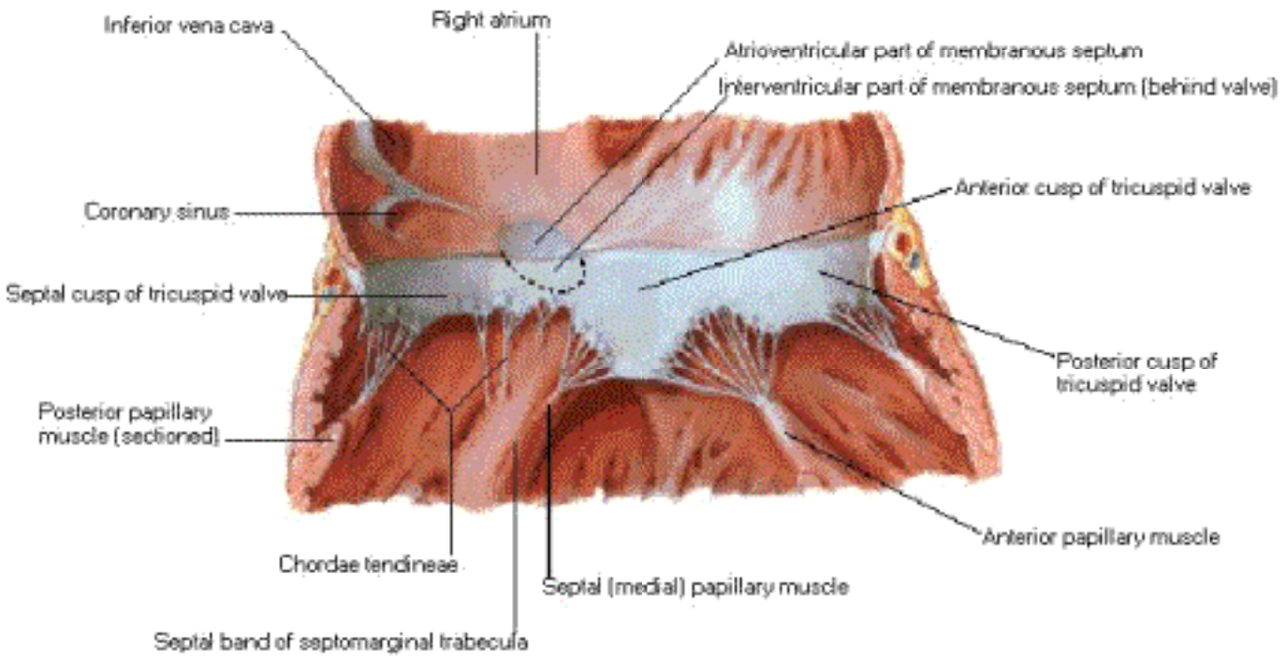
Viewed from base with atria removed

Aortic Valve

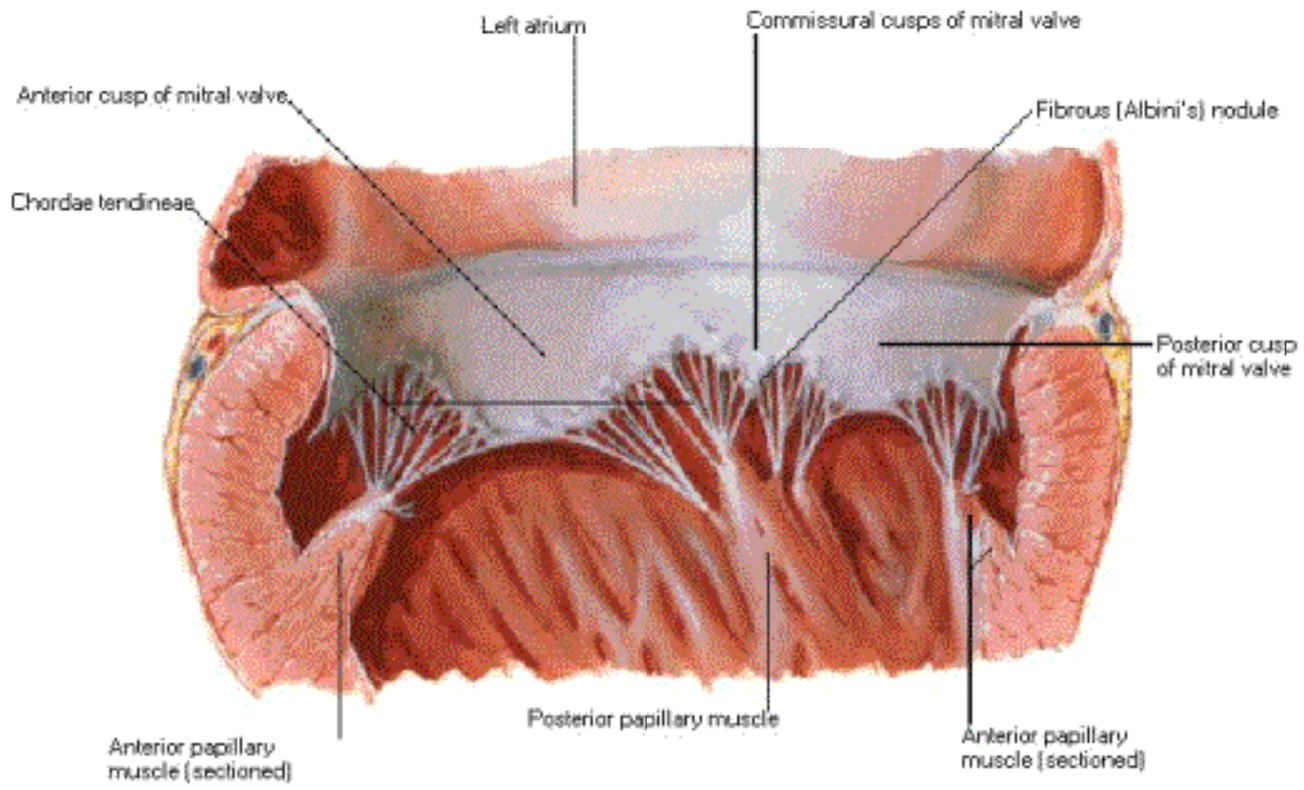


Note: broken line indicates level of origin of tricuspid valve on opposite side of septum.

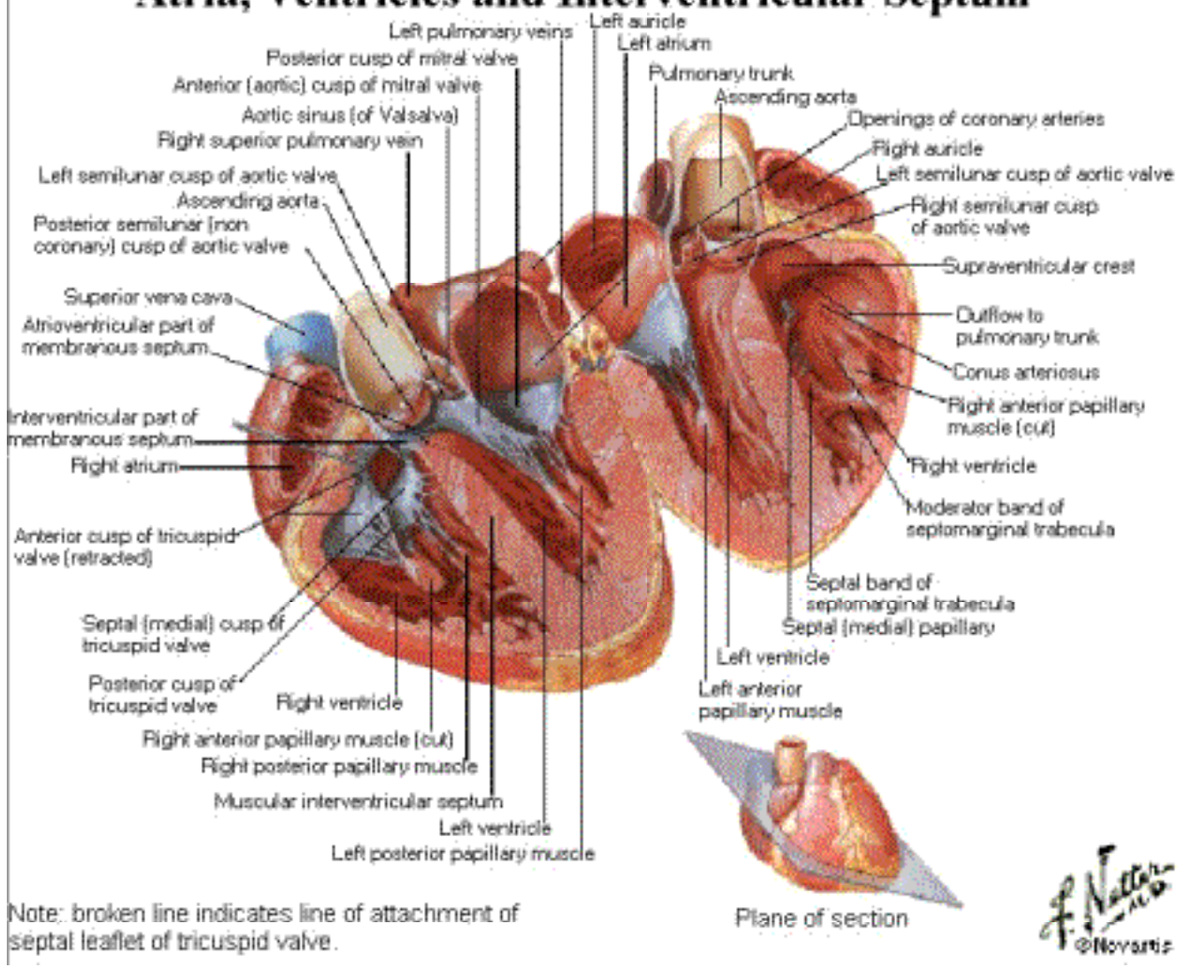
Tricuspid [Right Atrioventricular] Valve



Mitral [Left Atrioventricular] Valve



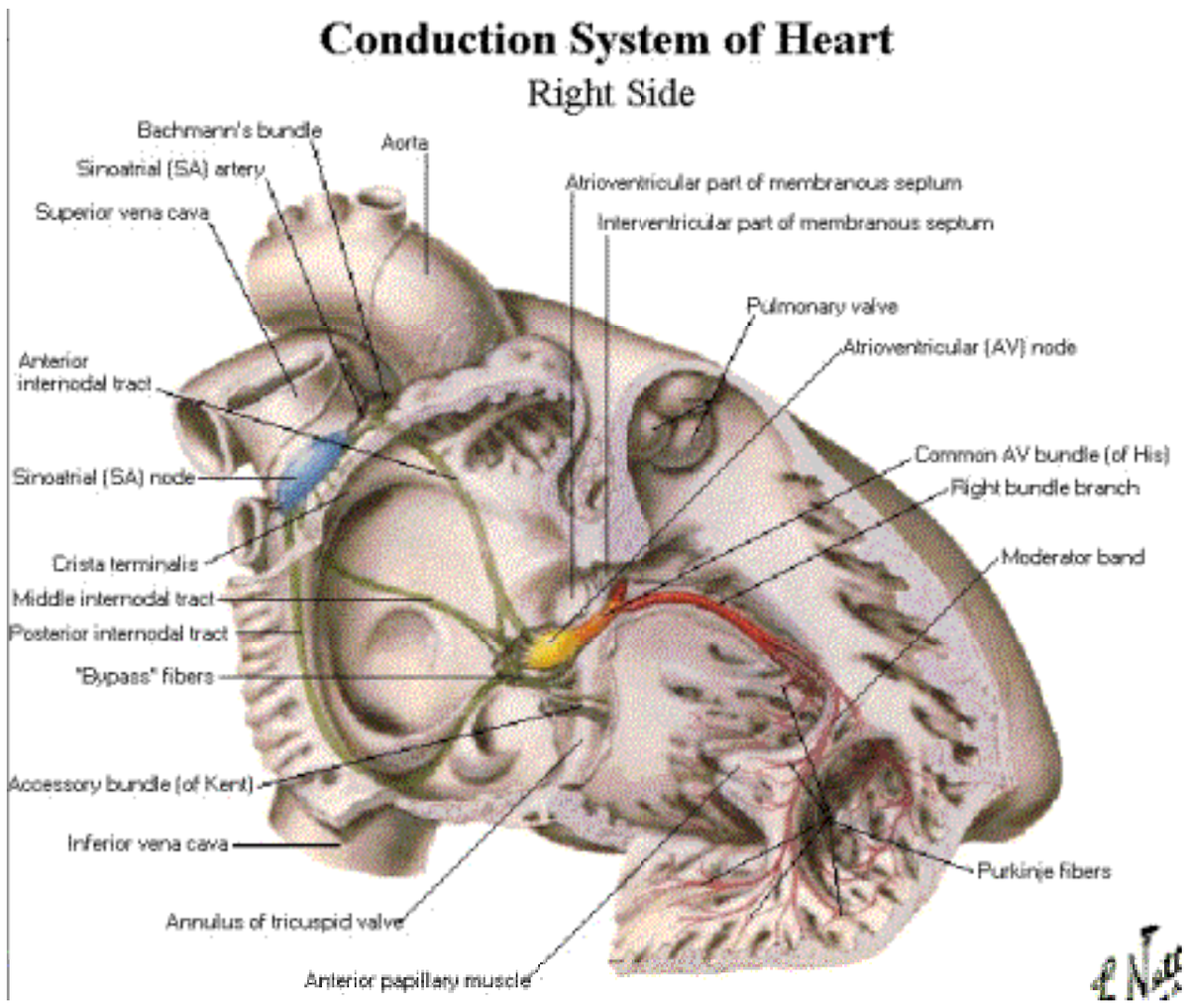
Atria, Ventricles and Interventricular Septum



Plane of section

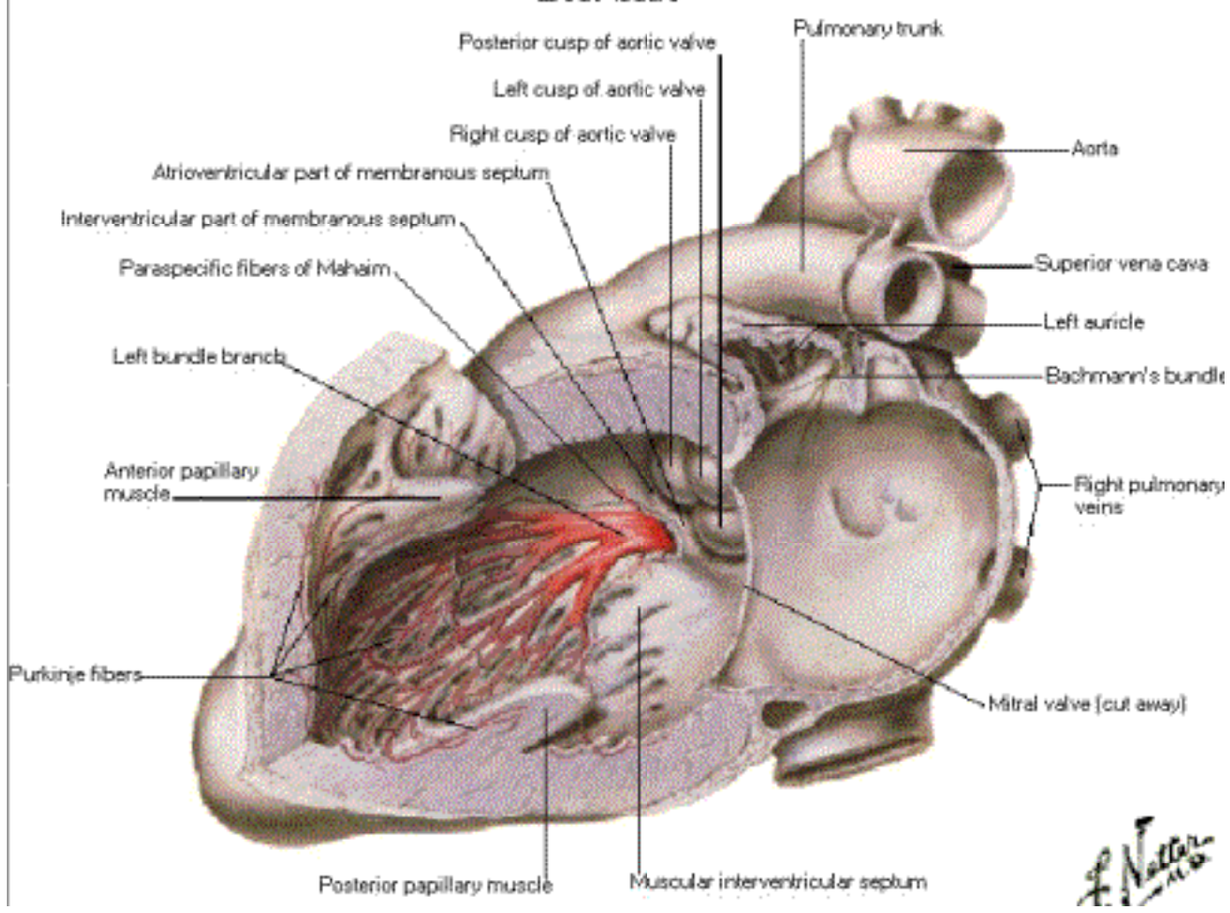
Note: broken line indicates line of attachment of septal leaflet of tricuspid valve.

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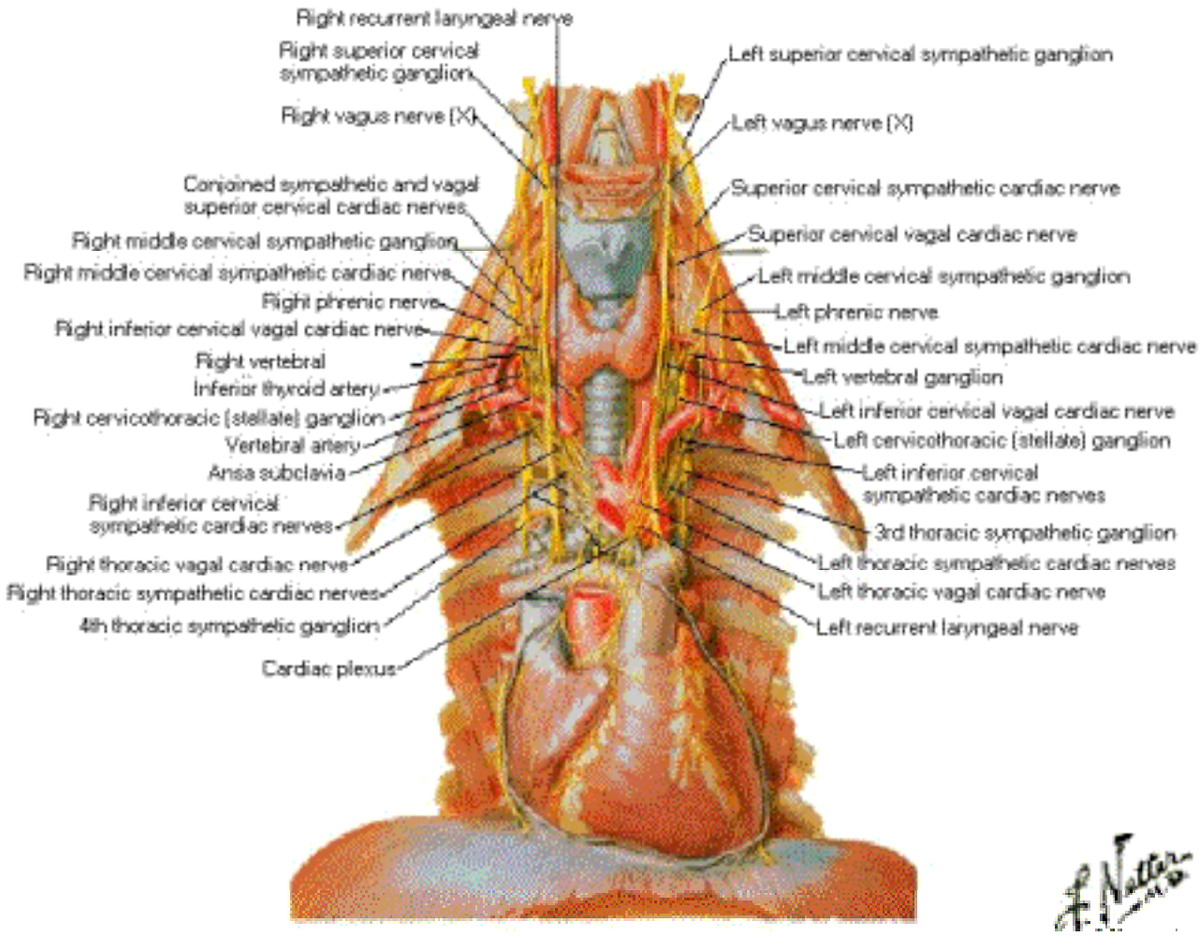

Conduction System of Heart
Right Side
Bachmann's bundle
Aorta
Sinoatrial (SA) artery
Atrioventricular part of membranous septum
Superior vena cava
Interventricular part of membranous septum
Pulmonary valve
Atrioventricular (AV) node
Anterior internodal tract
Common AV bundle (of His)
Sinoatrial (SA) node
Right bundle branch
Moderator band
Crista terminalis
Middle internodal tract
Posterior internodal tract
"Bypass" fibers
Accessory bundle (of Kent)
Inferior vena cava
Purkinje fibers
Annulus of tricuspid valve
Anterior papillary muscle

Conduction System of Heart

Left Side

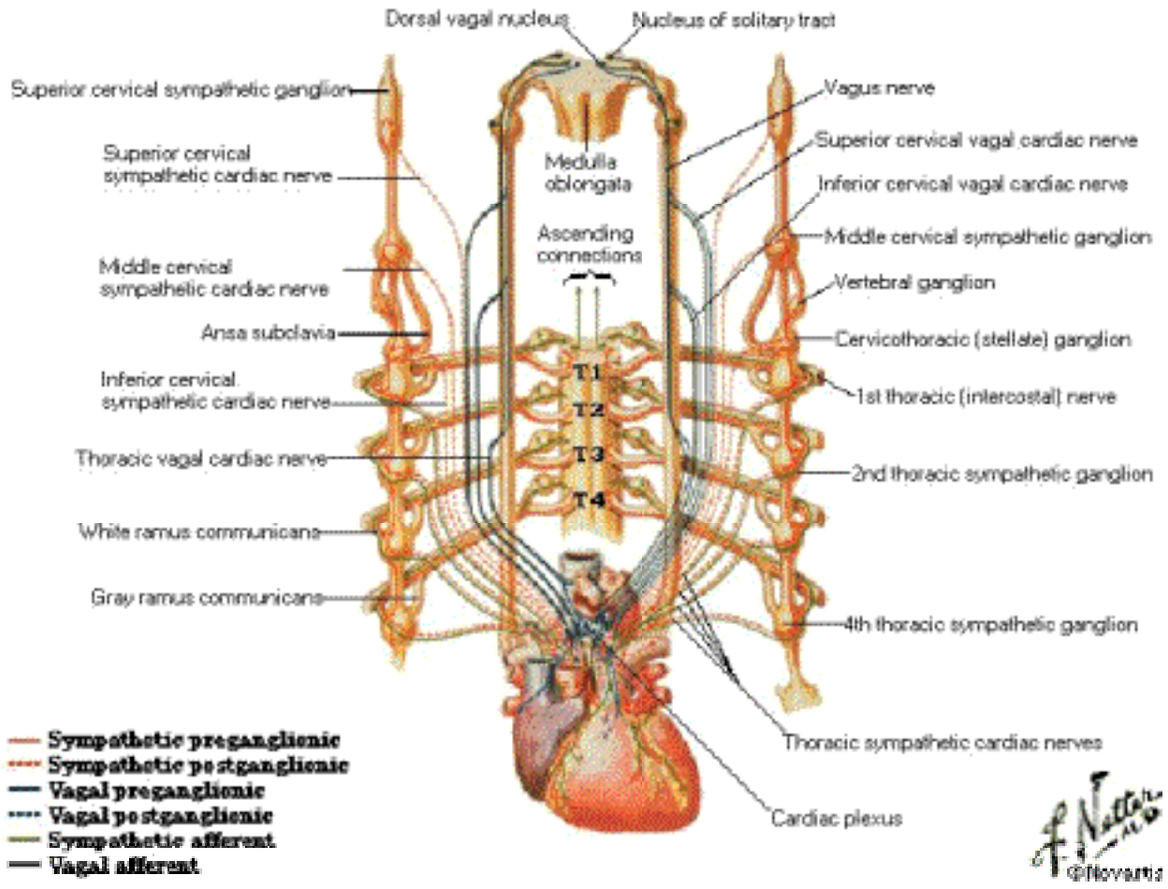


Nerves of Heart



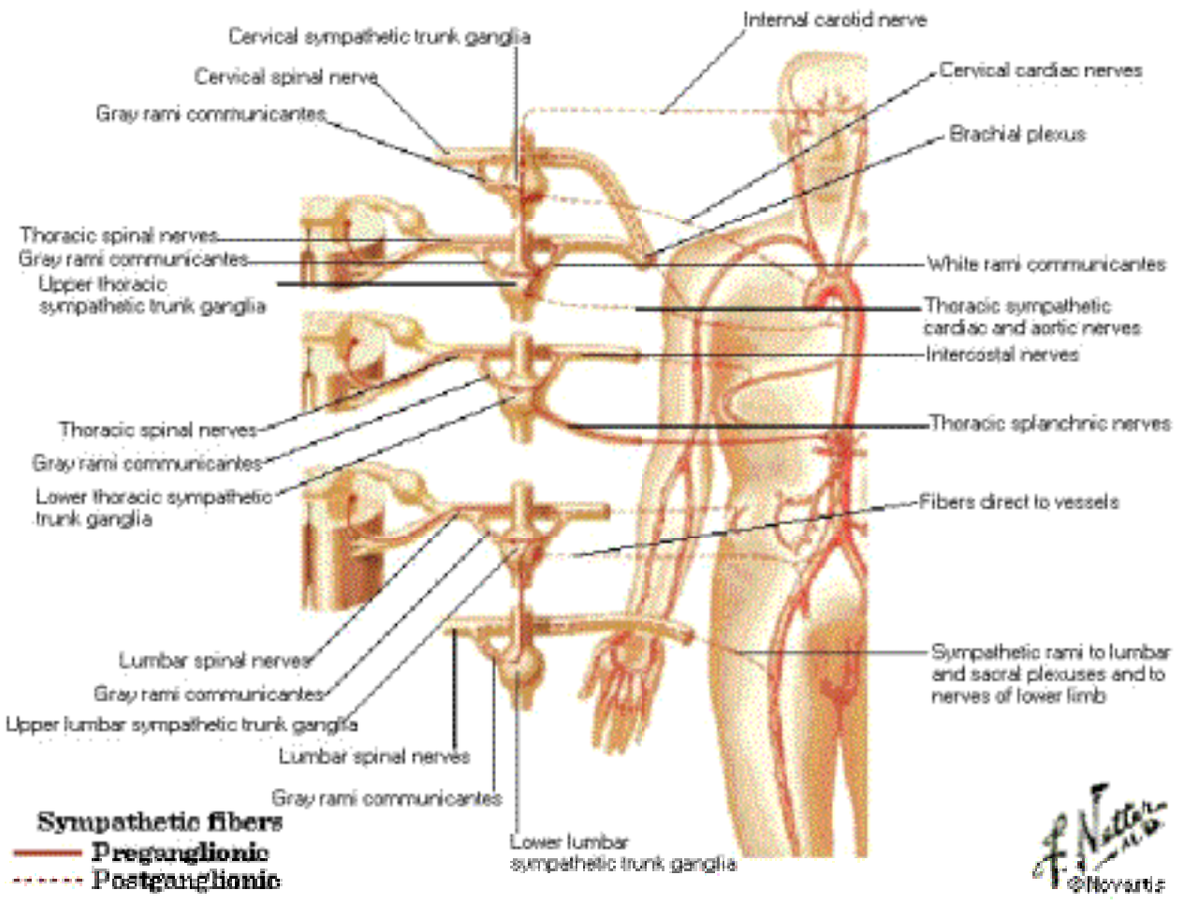
Innervation of Heart

Schema

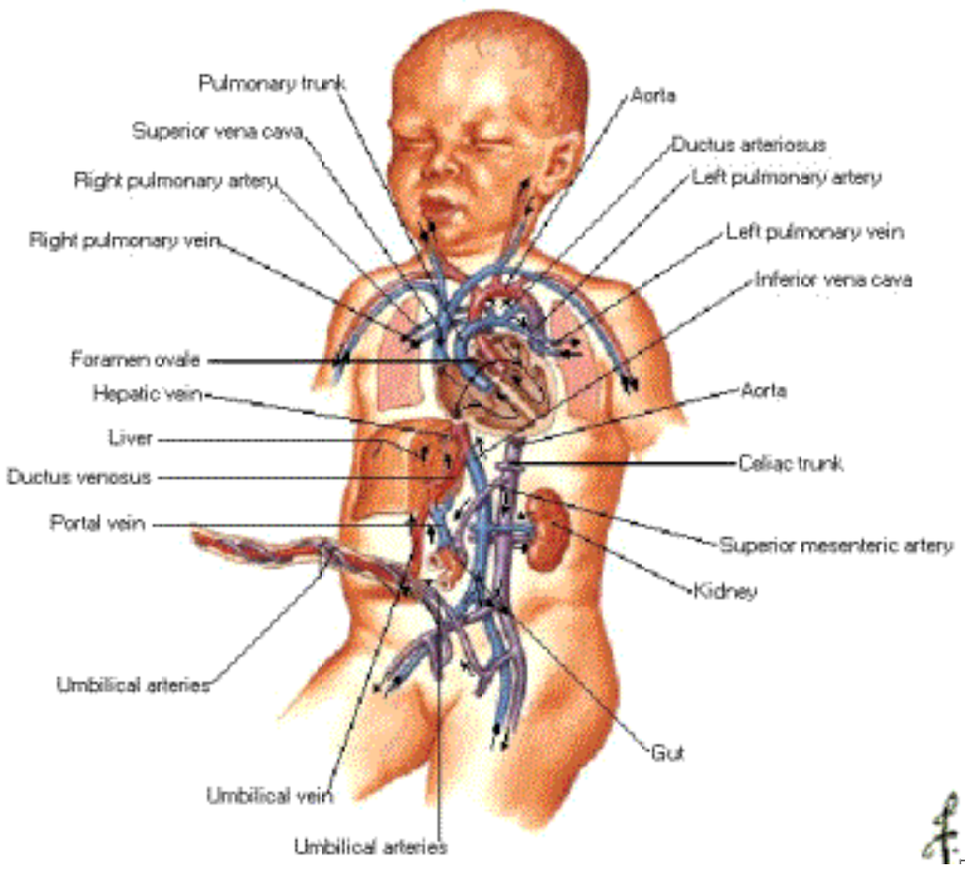


Innervation of Blood Vessels

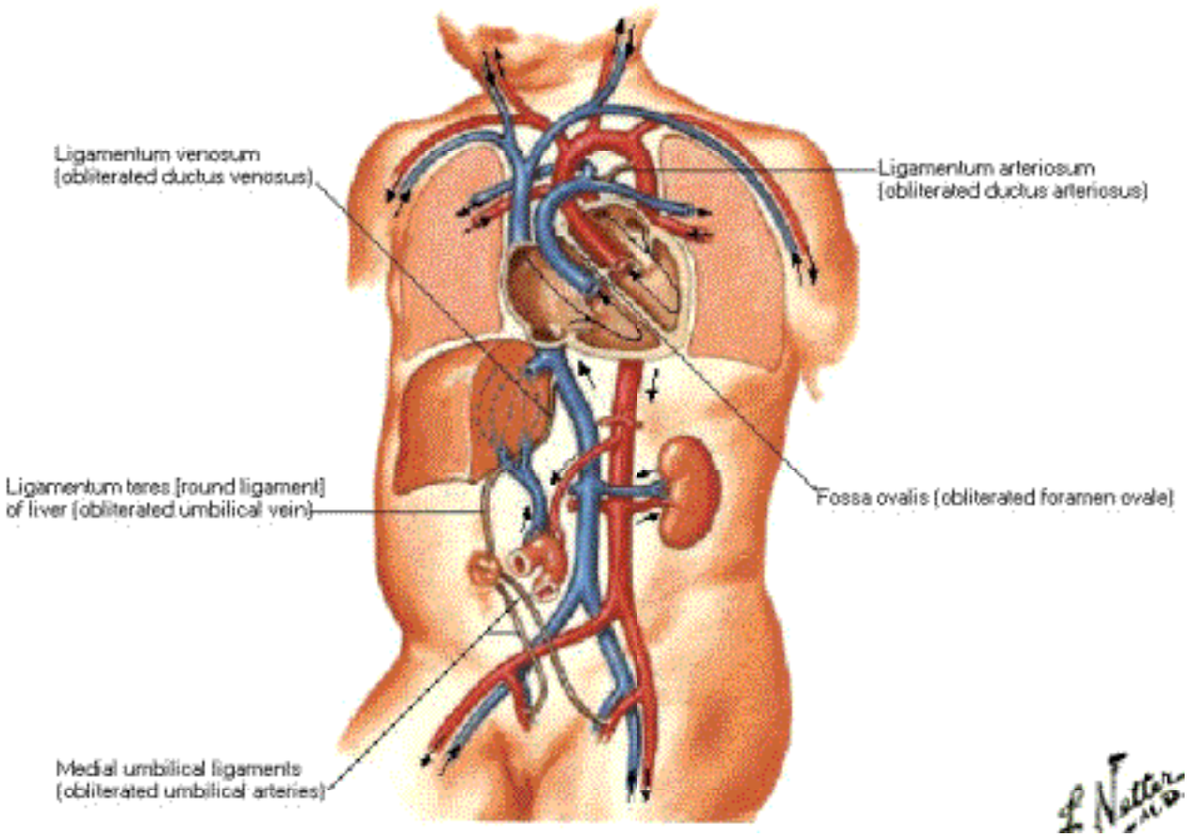
Schema



Prenatal Circulation

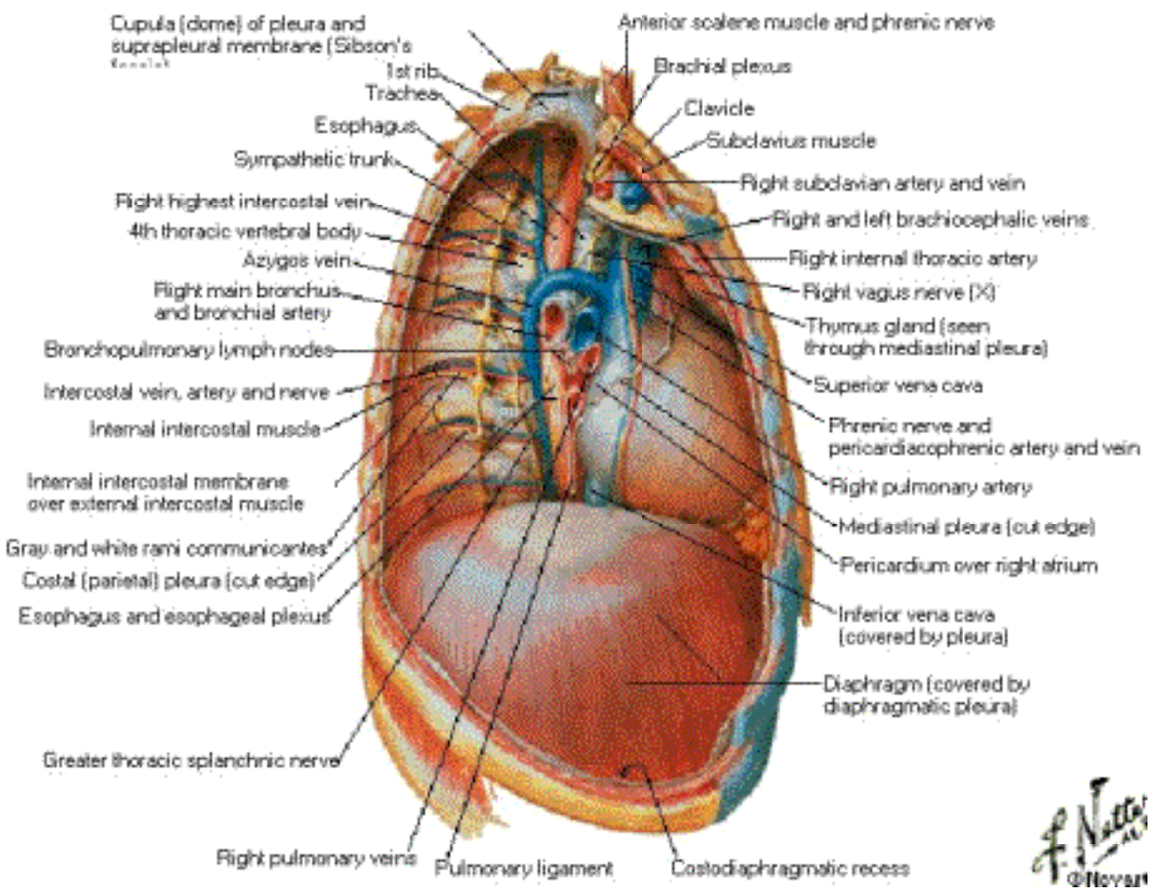


Postnatal Circulation



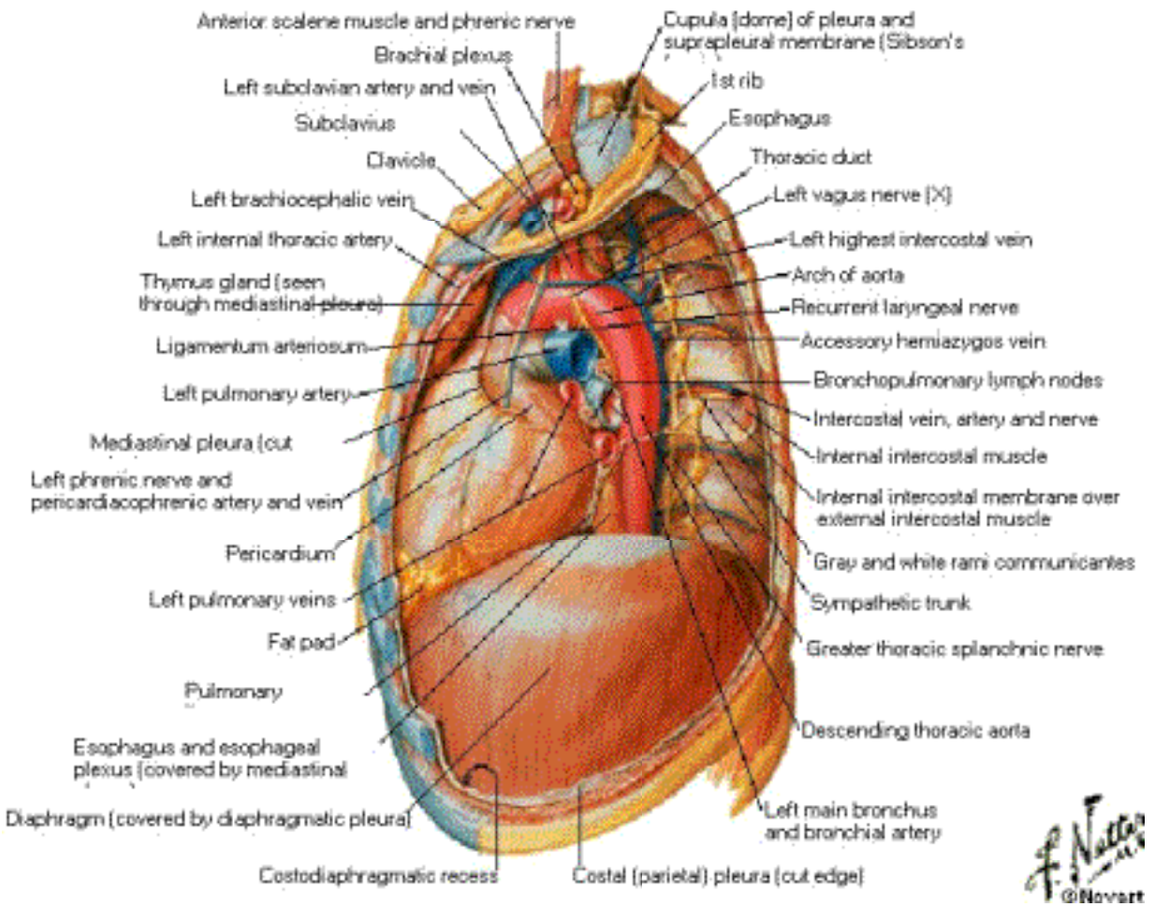
Mediastinum

Right Lateral View



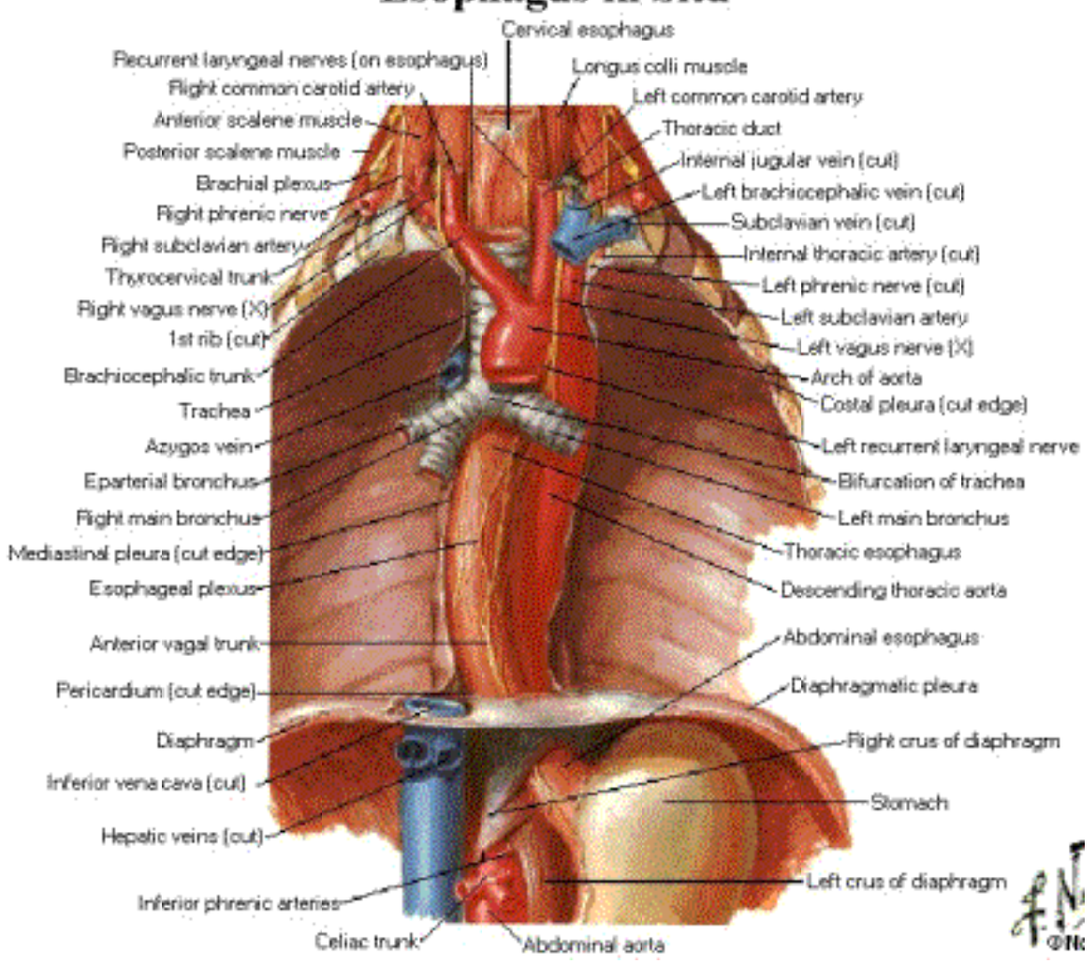
Mediastinum

Left Lateral View

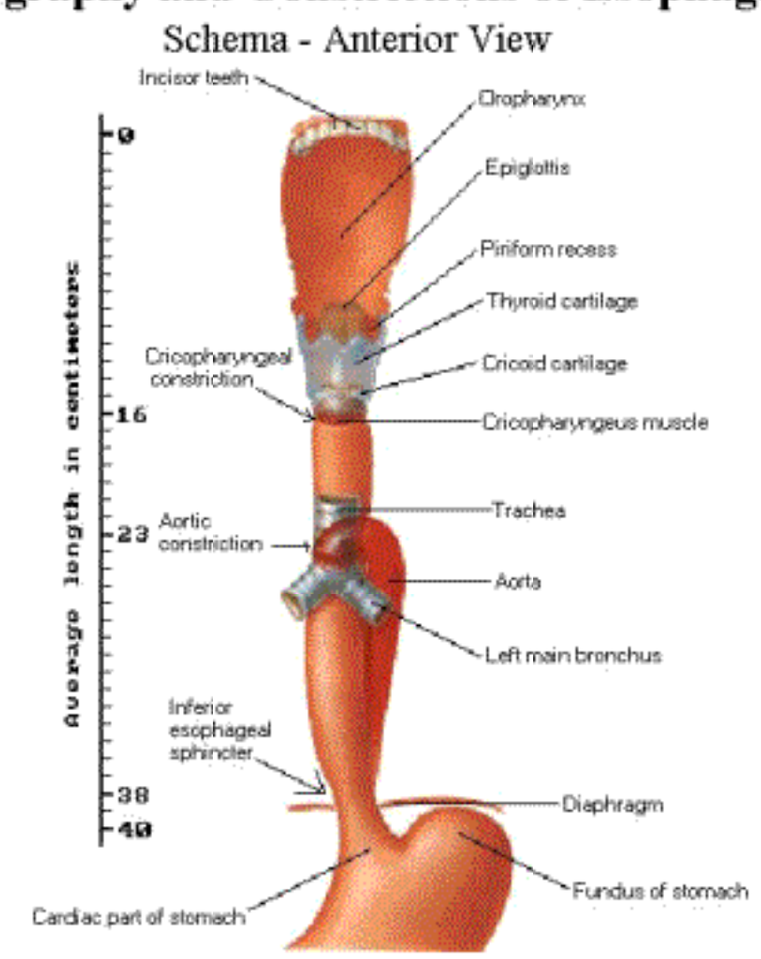


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Esophagus in Situ

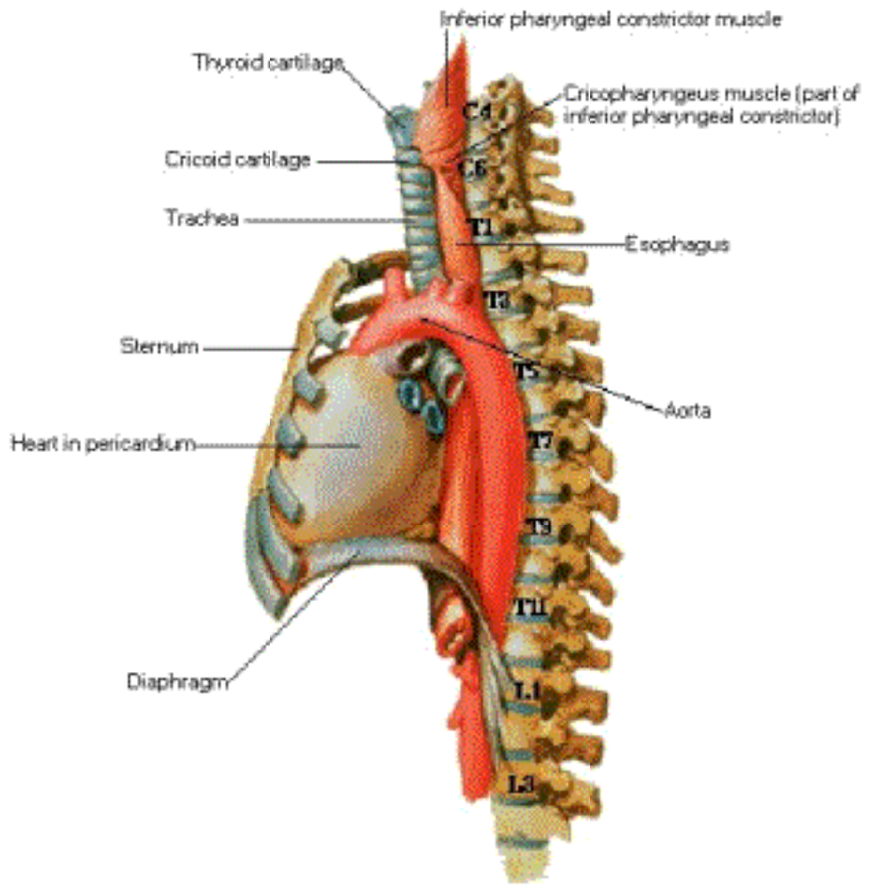


Topography and Constrictions of Esophagus

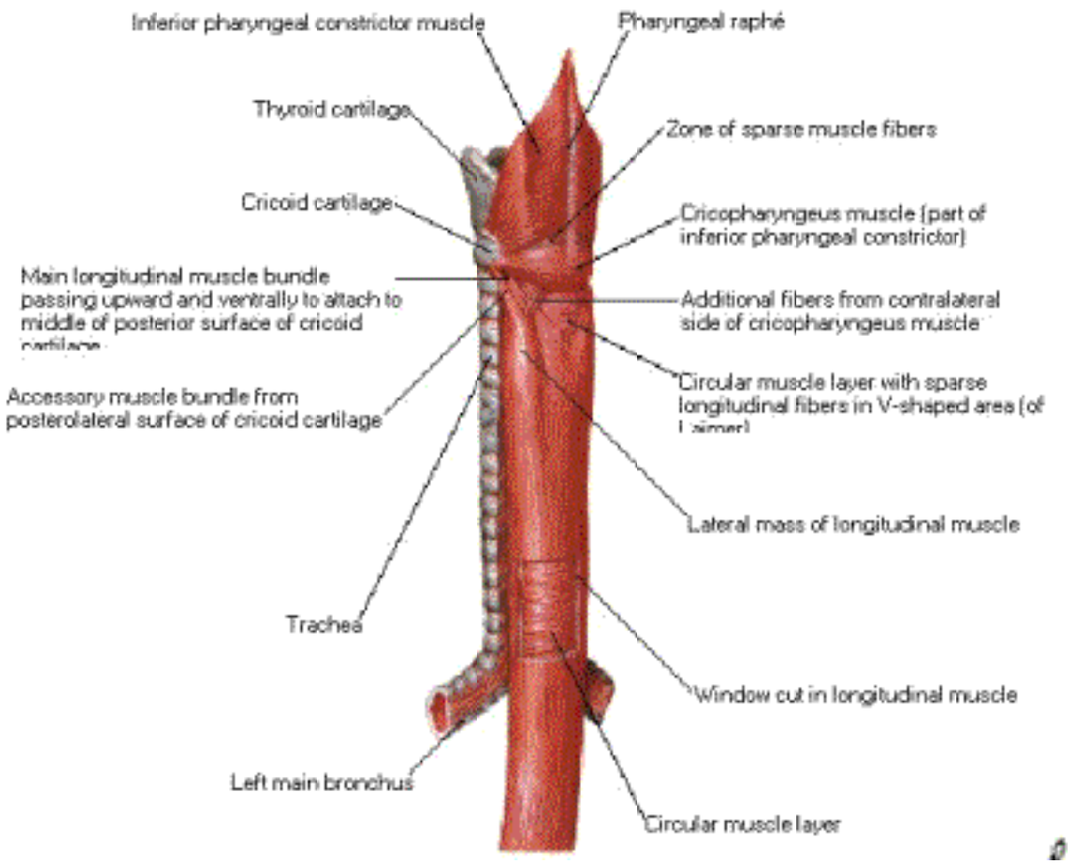


Topography and Constrictions of Esophagus

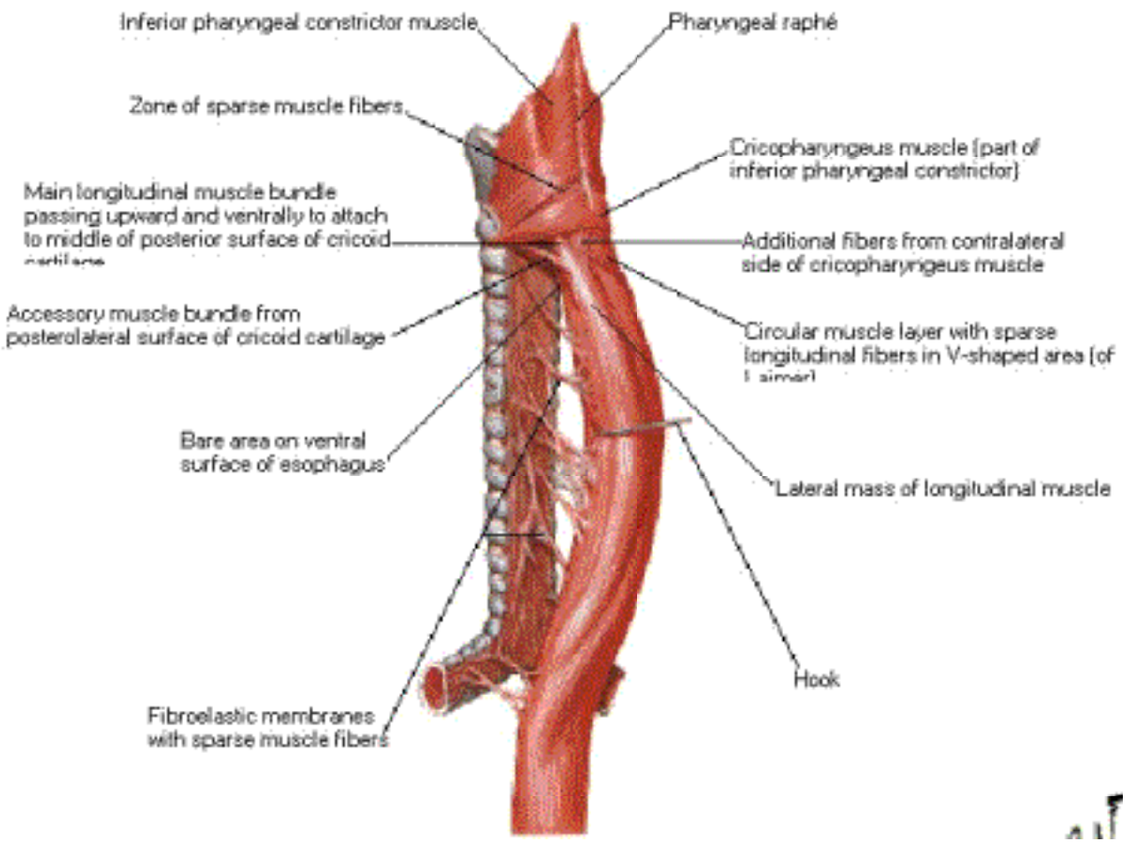
Lateral View



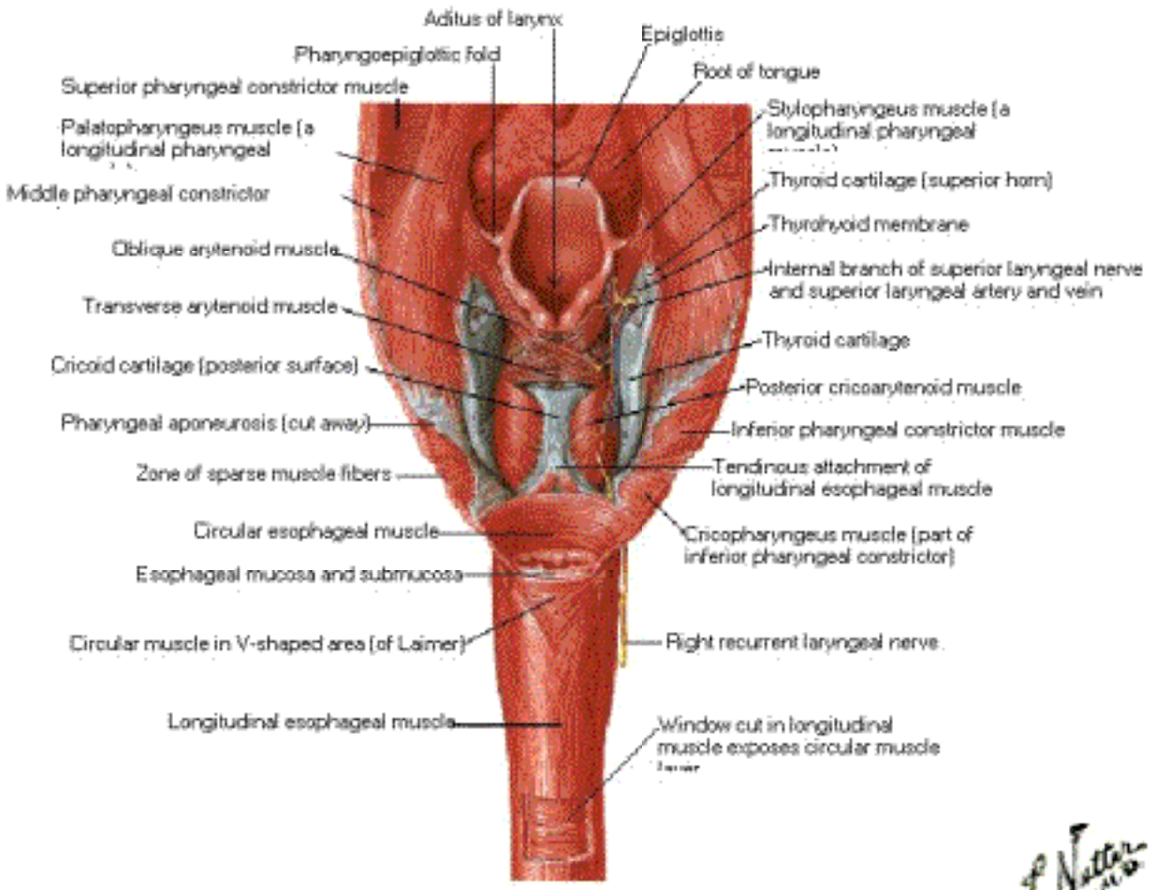
Musculature of Esophagus 1



Musculature of Esophagus 2



Pharyngoesophageal Junction

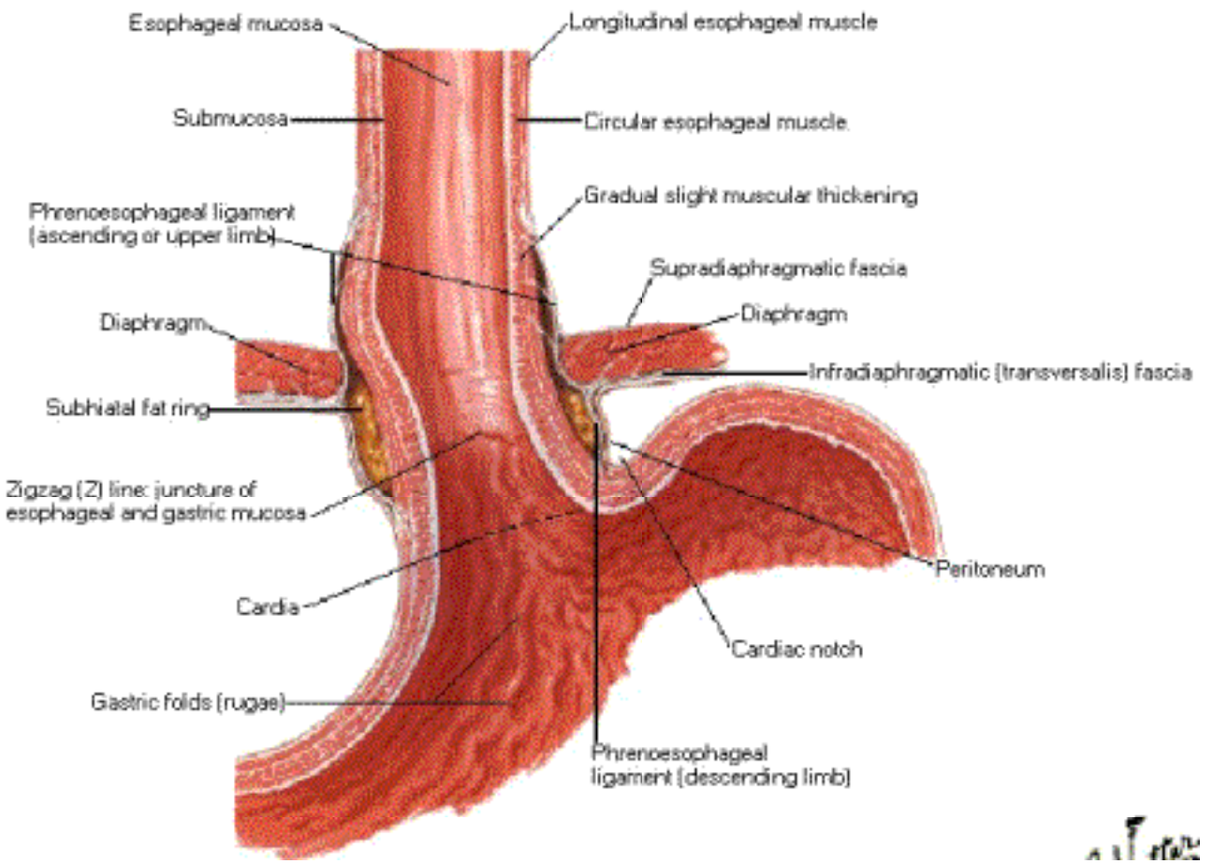


Posterior view with pharynx opened and mucosa removed

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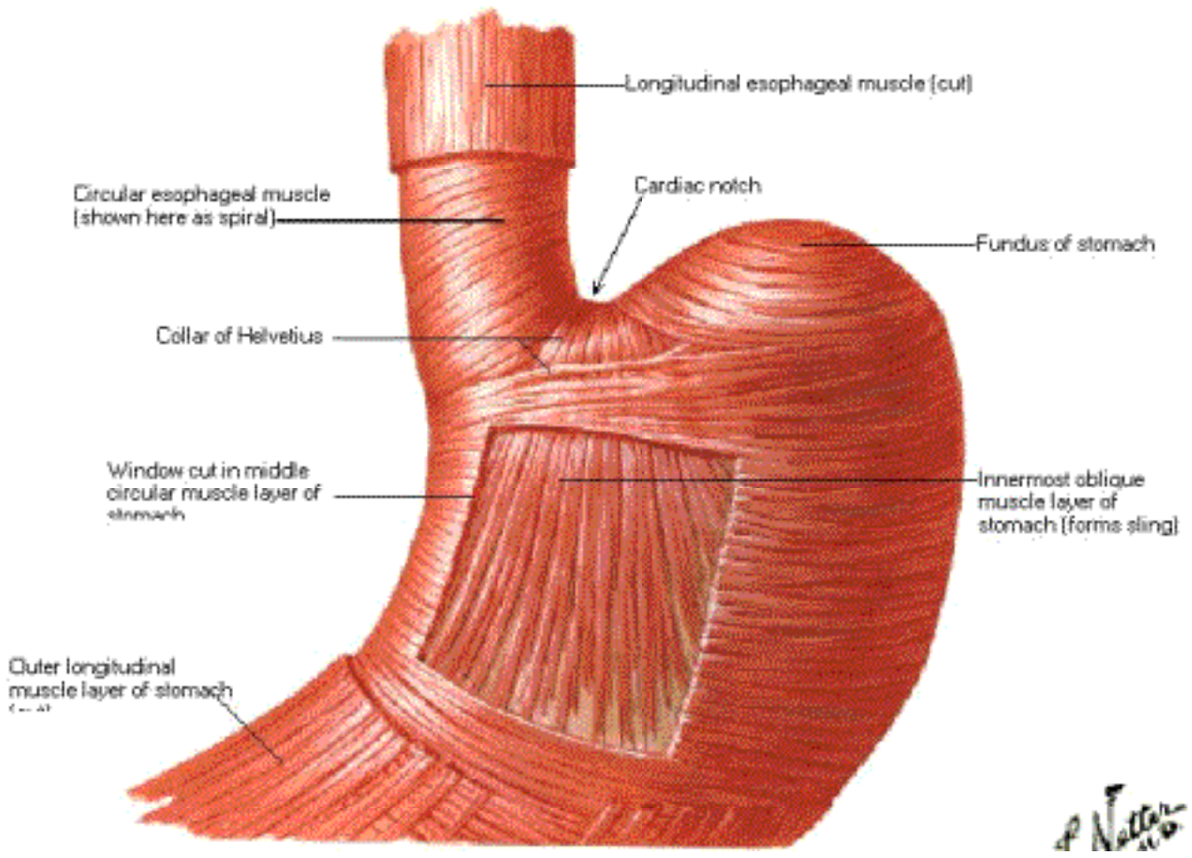
Esophagogastric Junction

Coronal Section

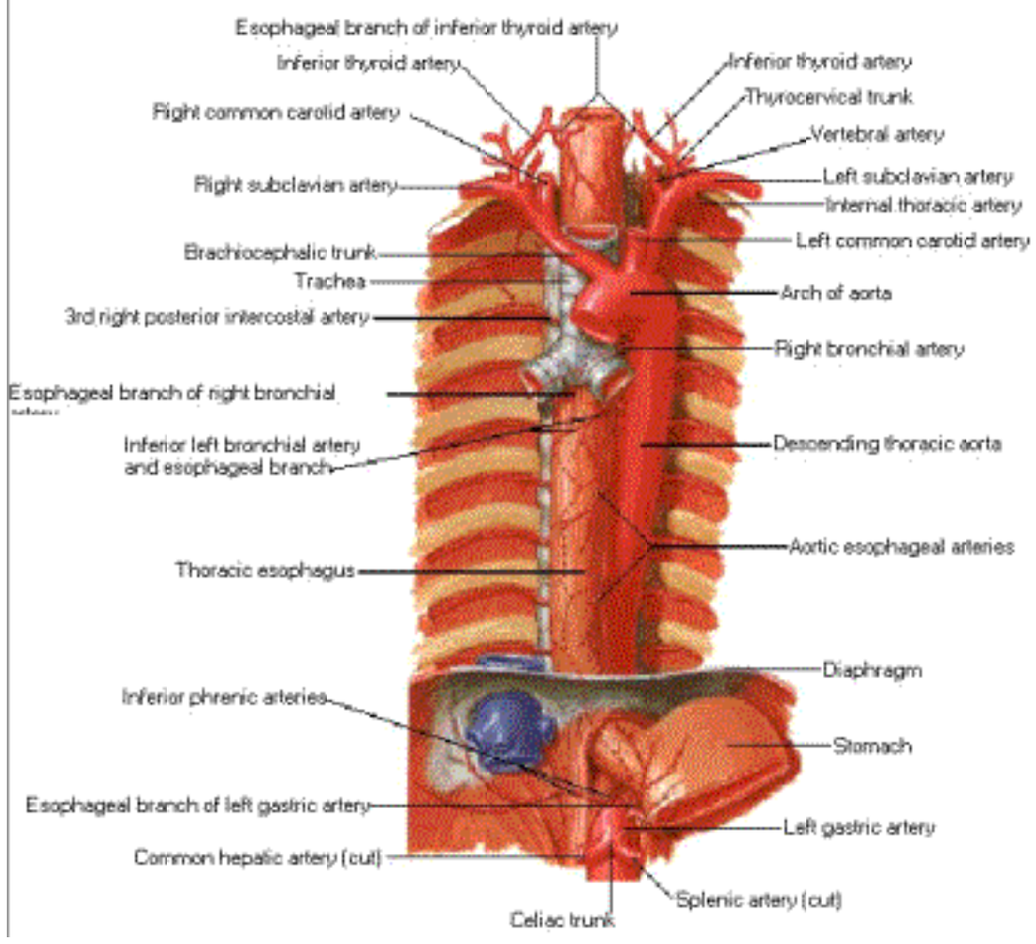


Esophagogastric Junction

Anterior View

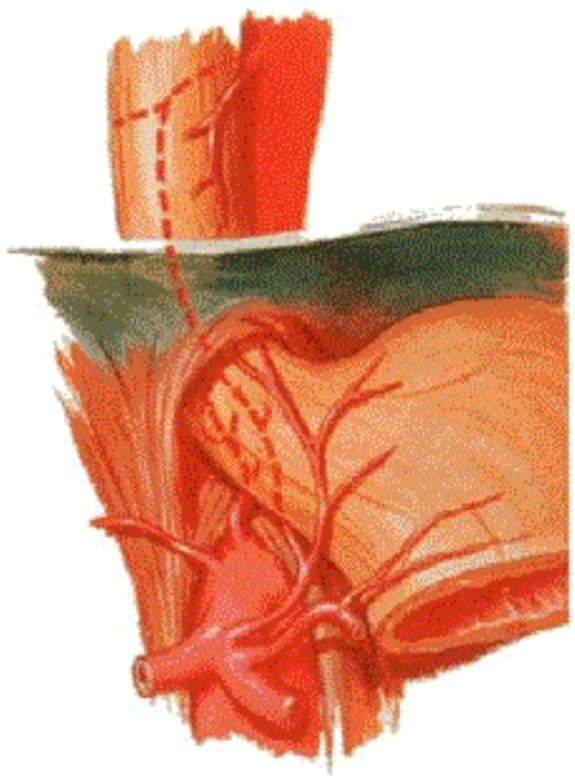


Arteries of Esophagus



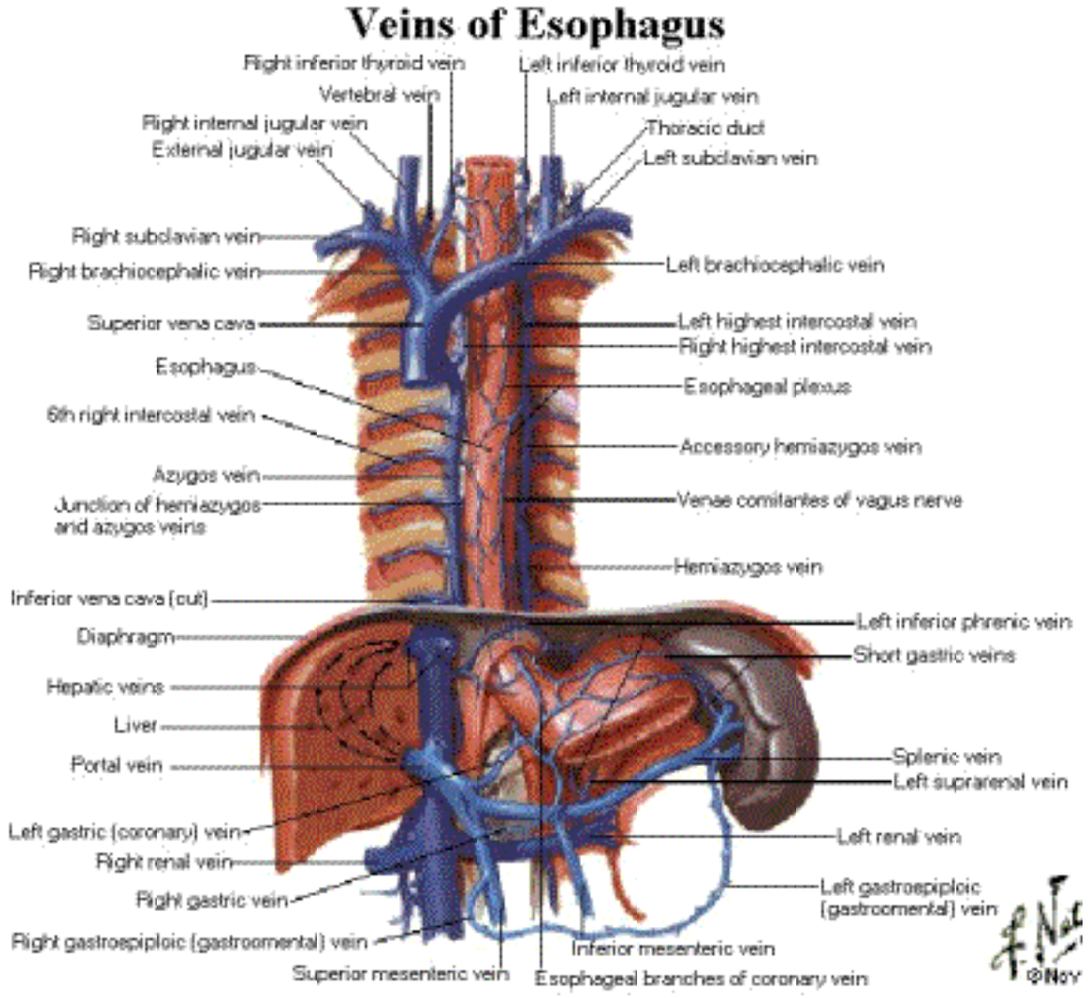
Arteries of Esophagus

Variations



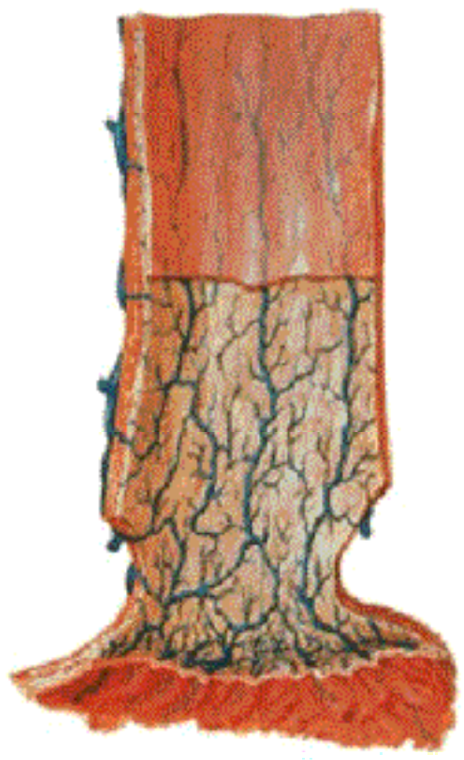
Common variations: Esophageal branches may originate from left inferior phrenic artery and/or directly from celiac trunk. Branches to abdominal esophagus may also come from splenic or short gastric arteries.

Veins of Esophagus

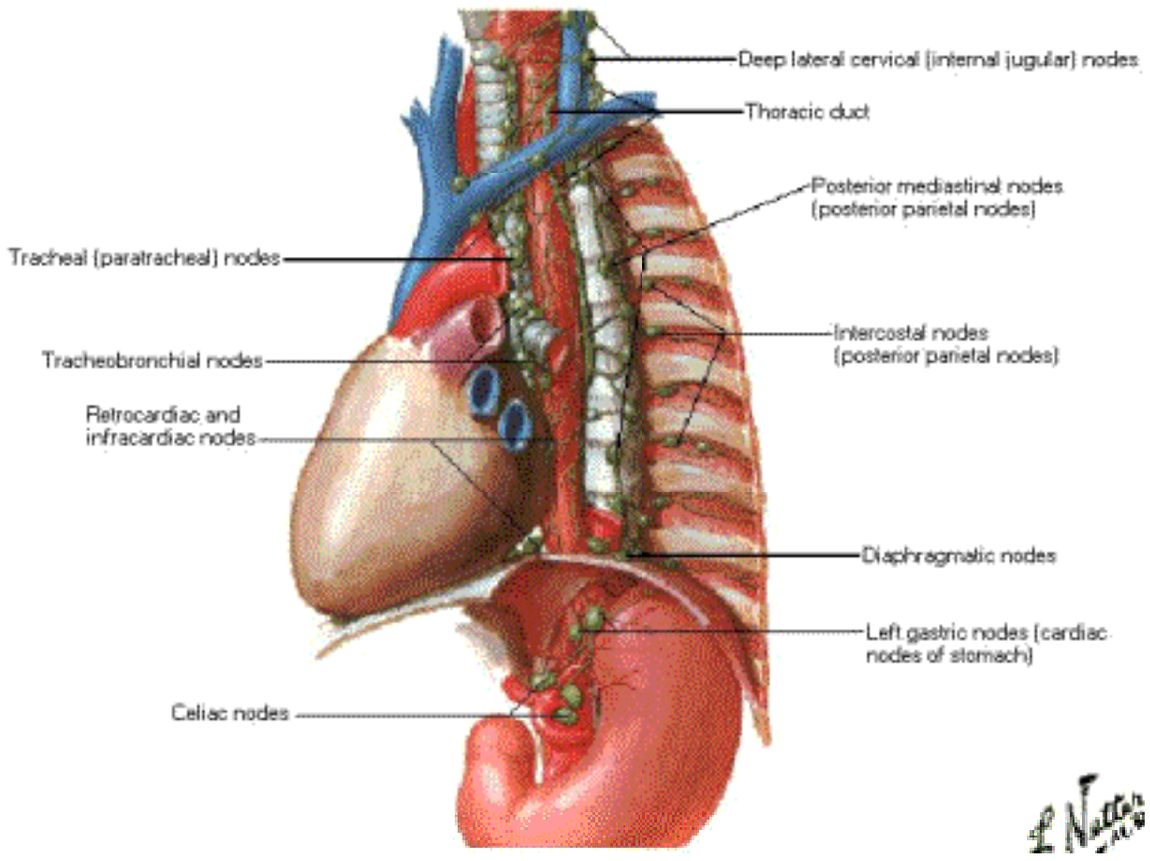


Veins of Esophagus

Submucous Venous Plexus

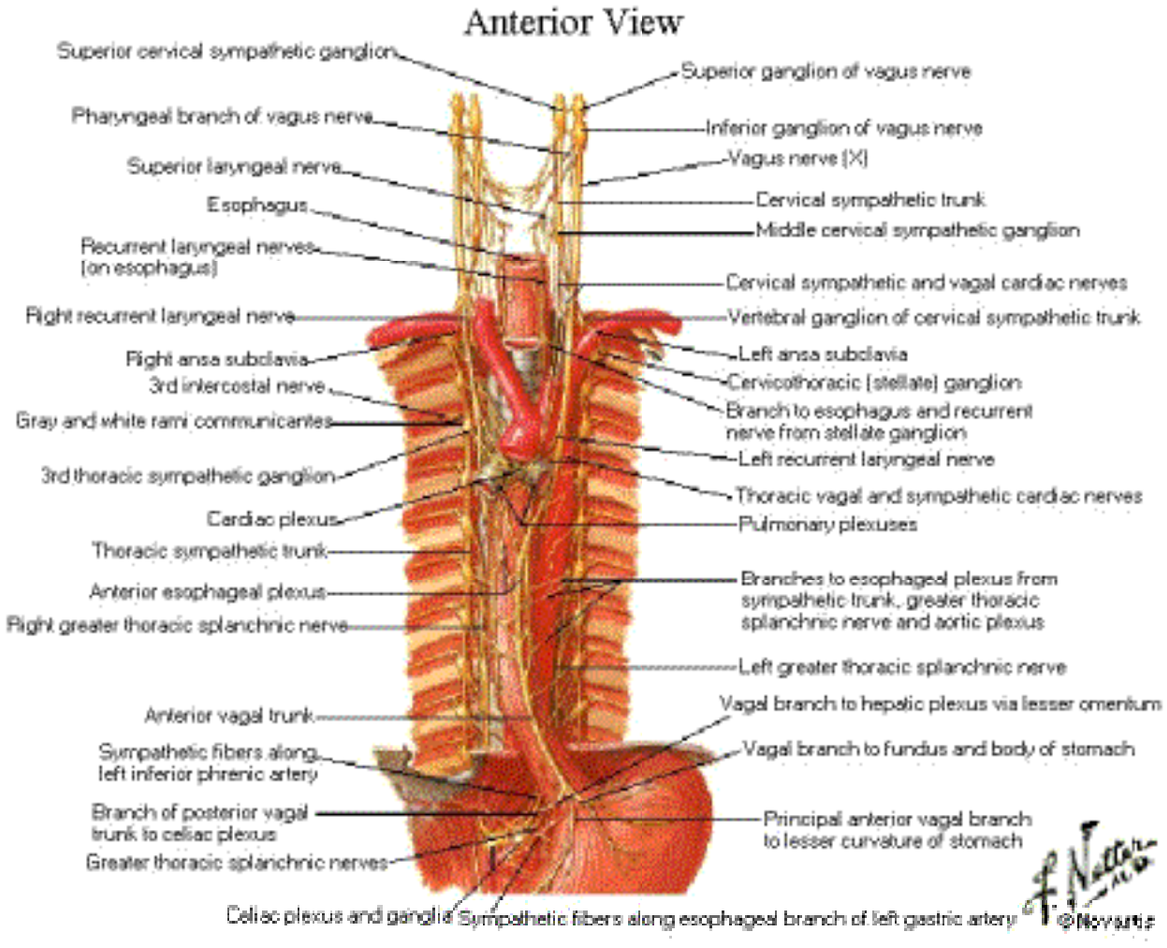


Lymph Vessels and Nodes of Esophagus



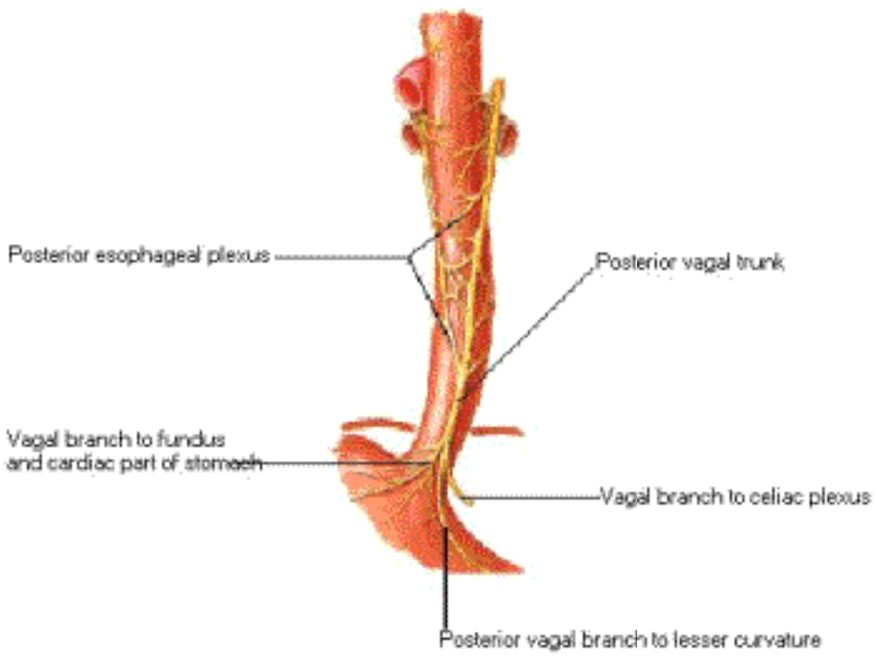
Nerves of Esophagus

Anterior View



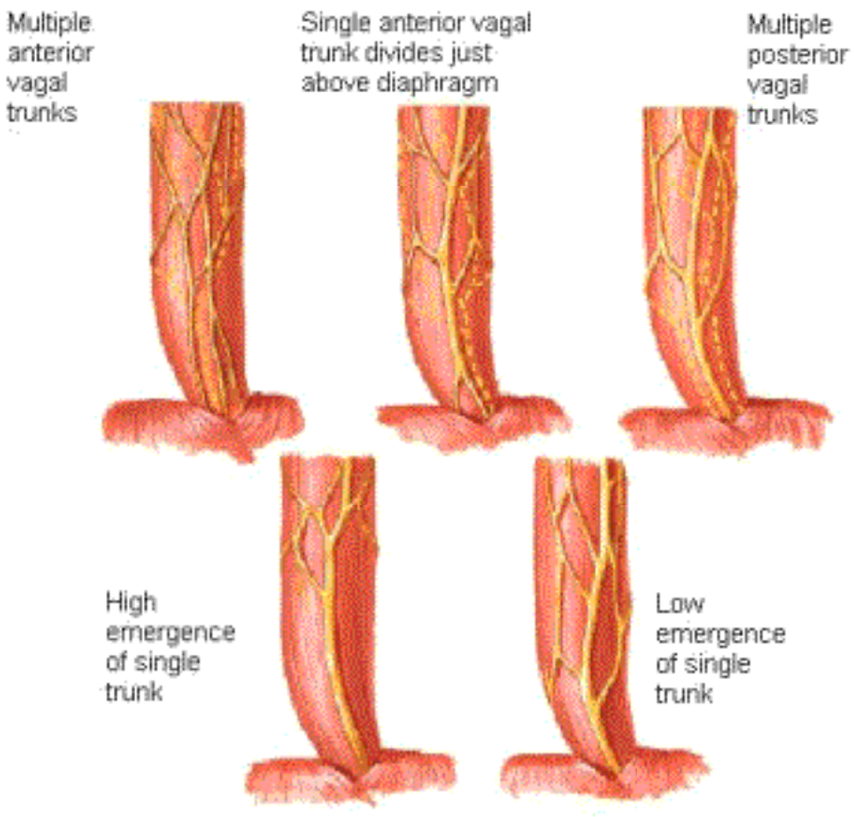
Nerves of Esophagus

Posterior View



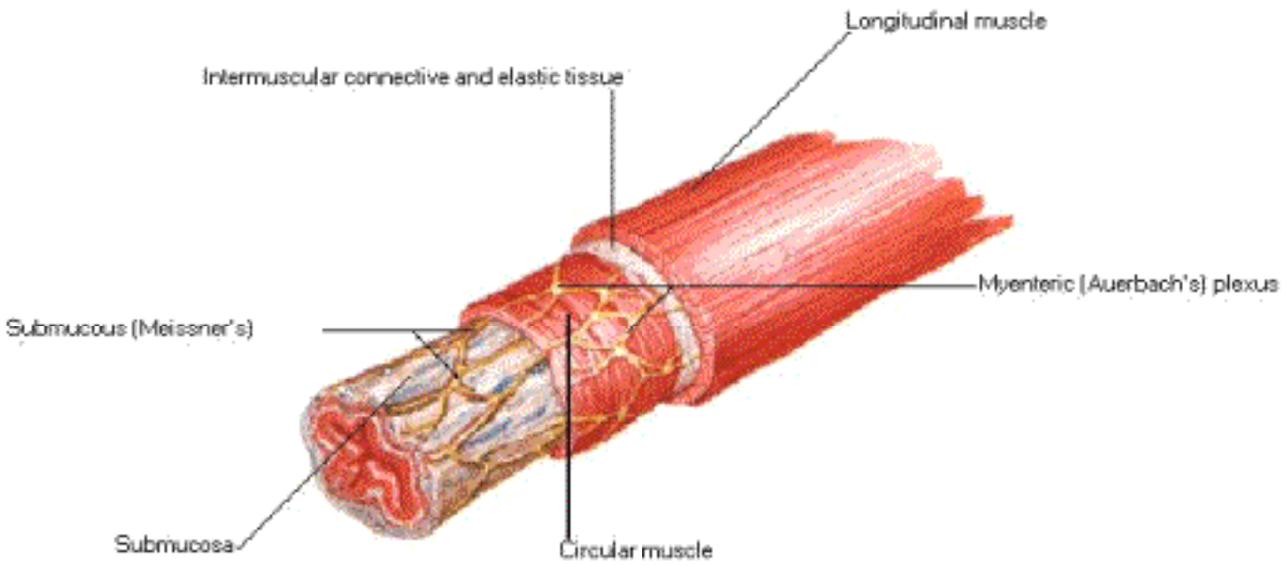
Nerves of Esophagus

Variations



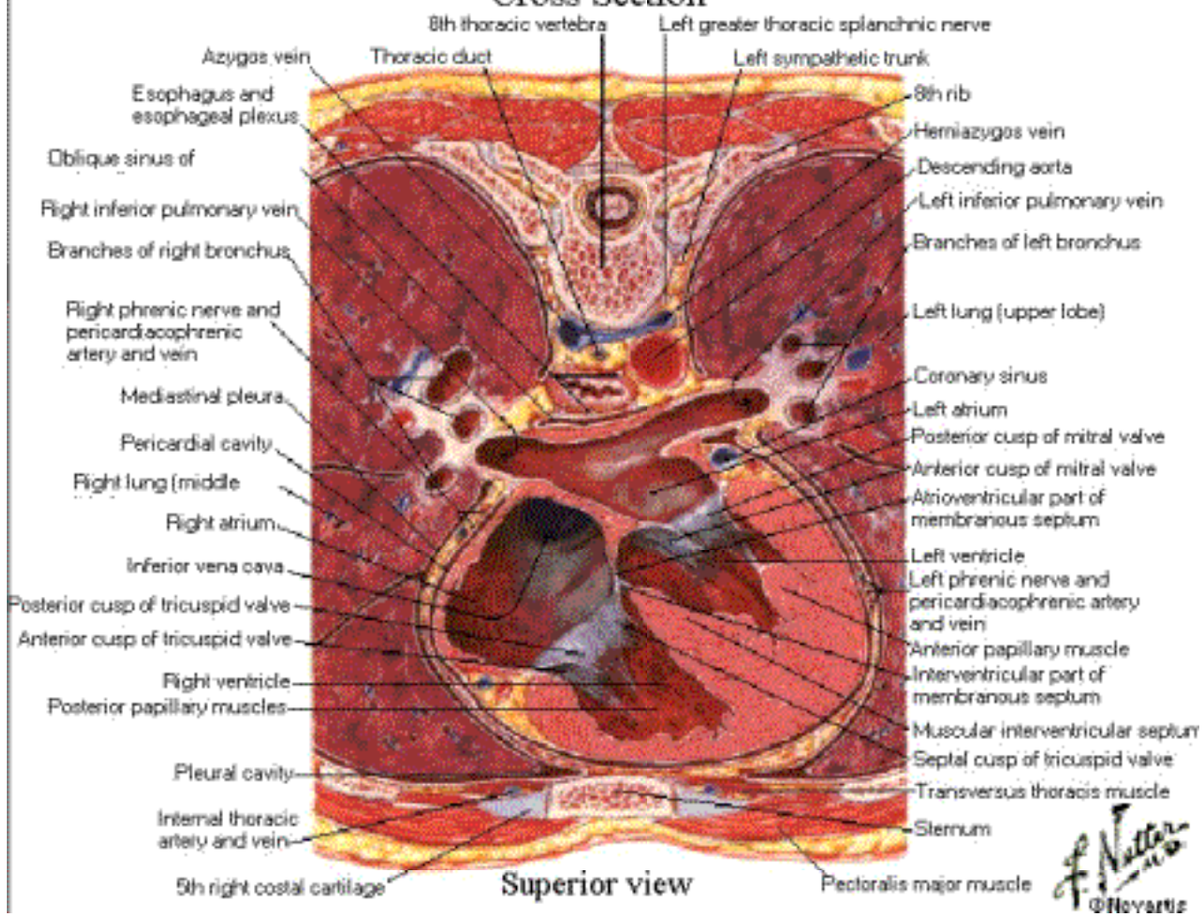
Intrinsic Nerves of Esophagus

Schema

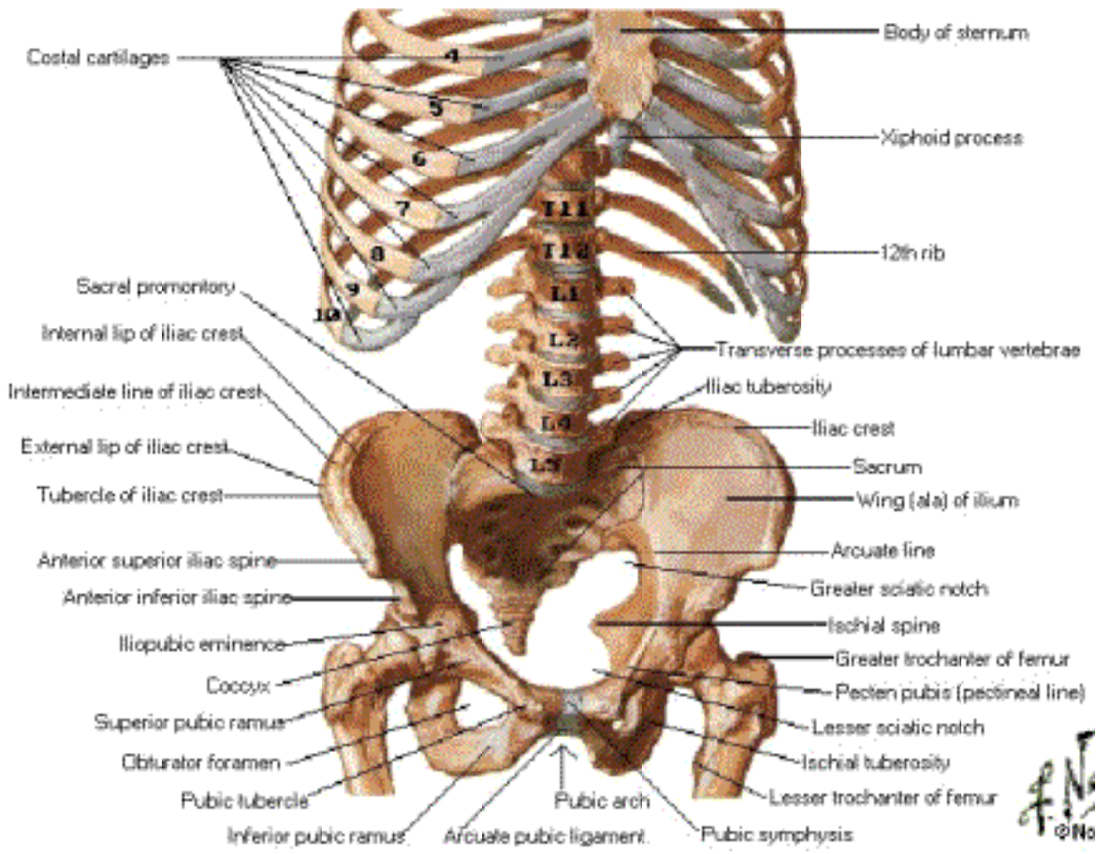


Mediastinum

Cross Section

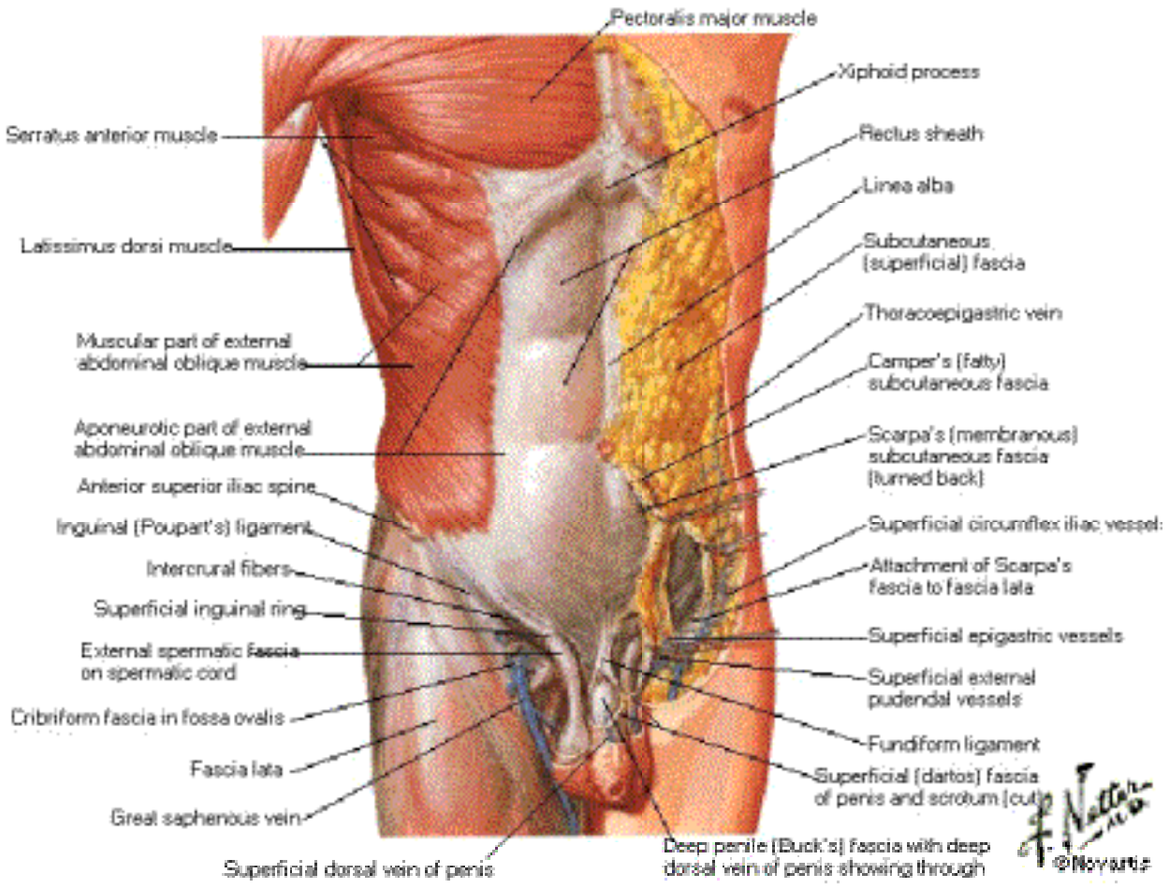


Bony Framework of Abdomen



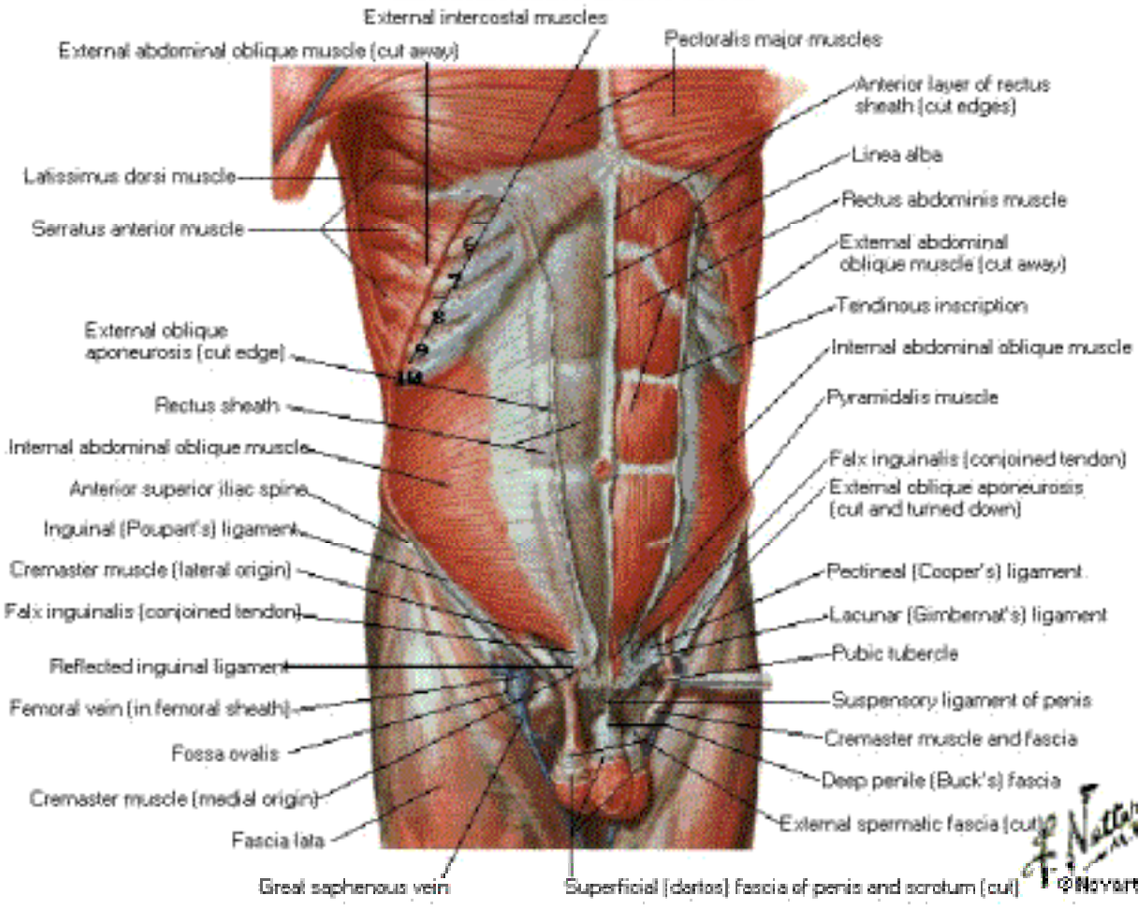
Anterior Abdominal Wall

Superficial Dissection



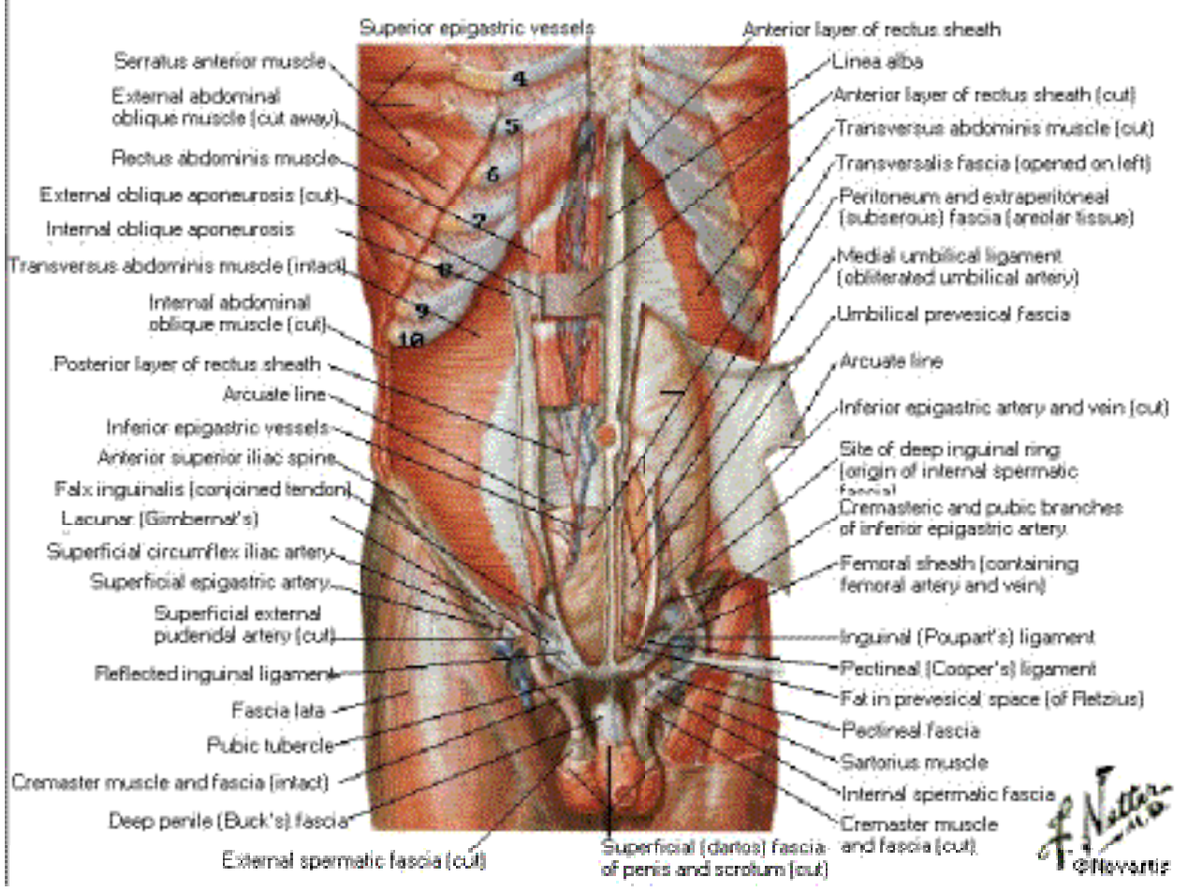
Anterior Abdominal Wall

Intermediate Dissection



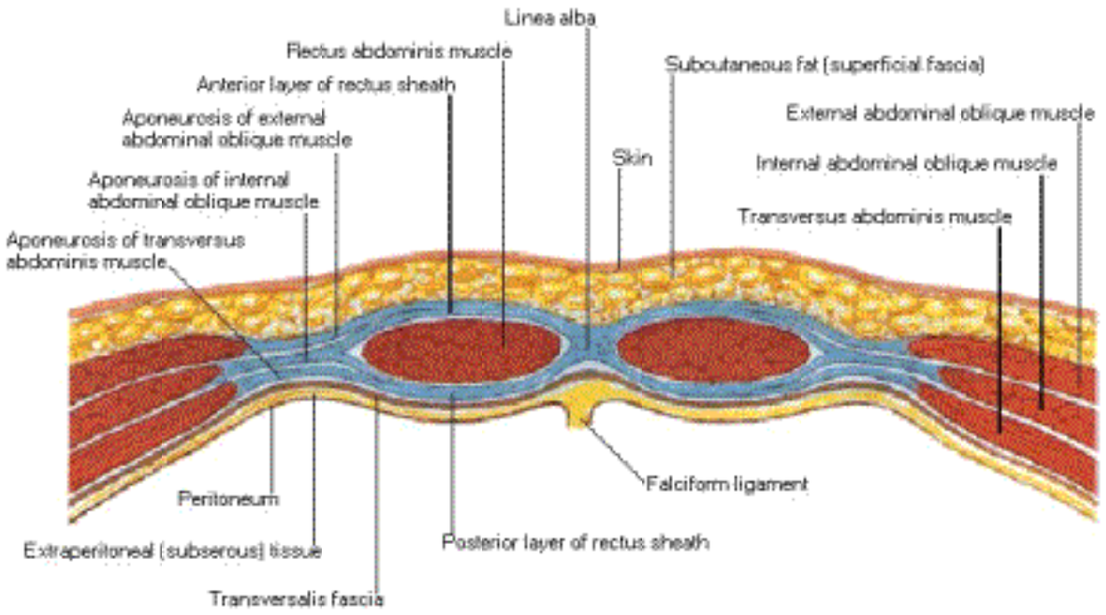
Anterior Abdominal Wall

Deep Dissection



Rectus Sheath

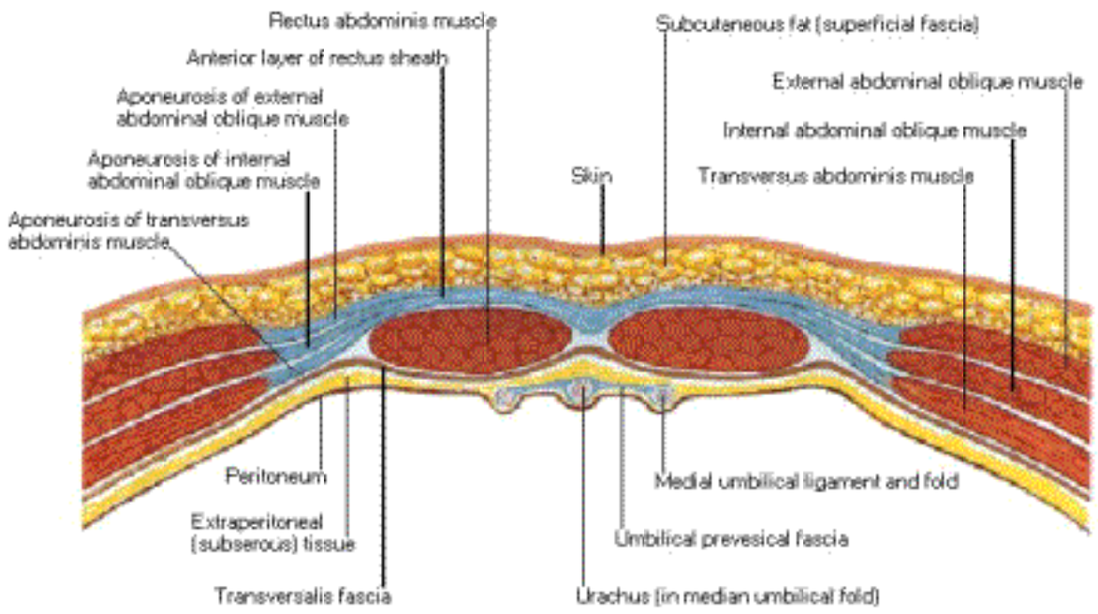
Cross Section Above Arcuate Line



Aponeurosis of internal abdominal oblique muscle splits to form anterior and posterior layers of rectus sheath. Aponeurosis of external abdominal oblique muscle joins anterior layer of sheath; aponeurosis of transversus abdominis muscle joins posterior layer. Anterior and posterior layers of rectus sheath unite medially to form linea alba

Rectus Sheath

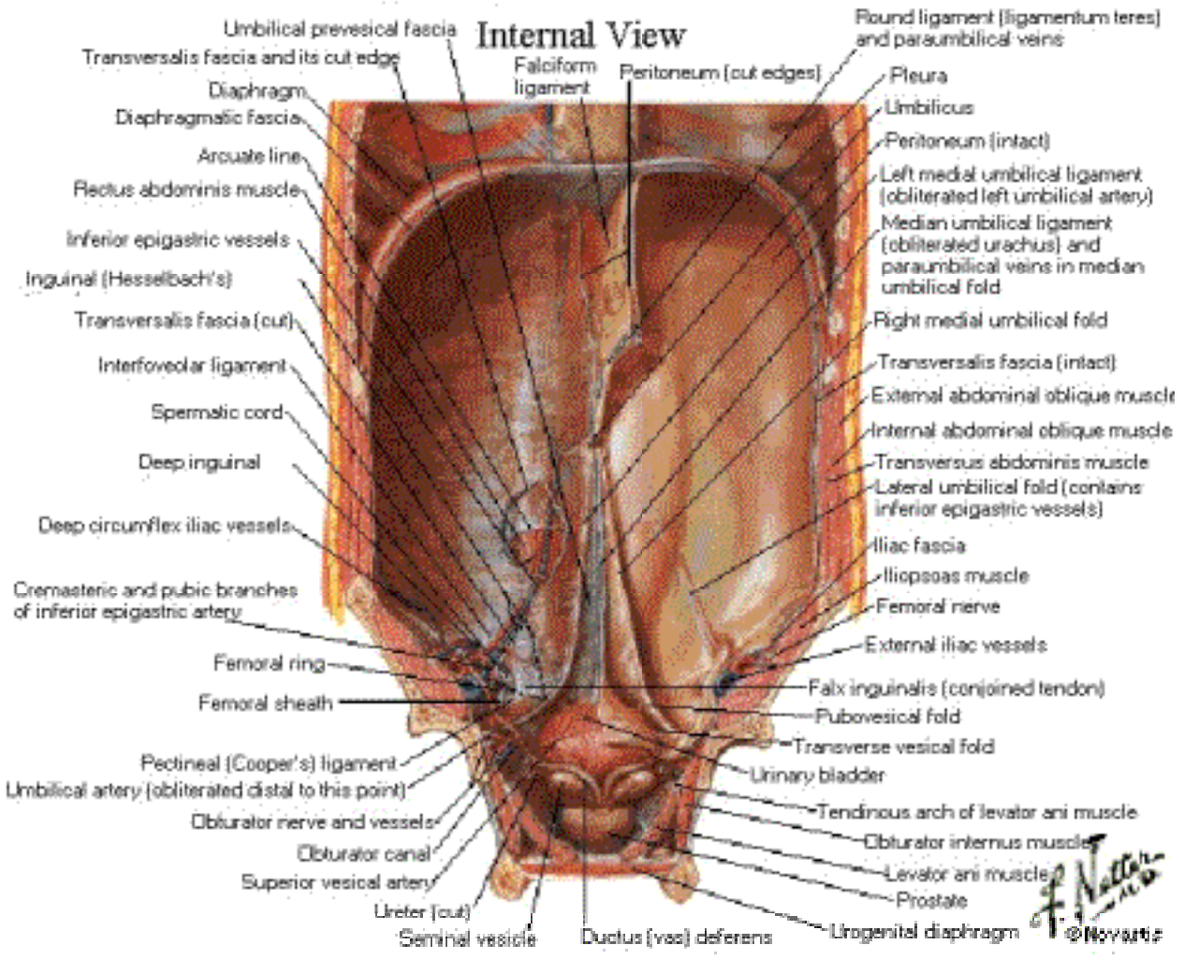
Cross Section Below Arcuate Line



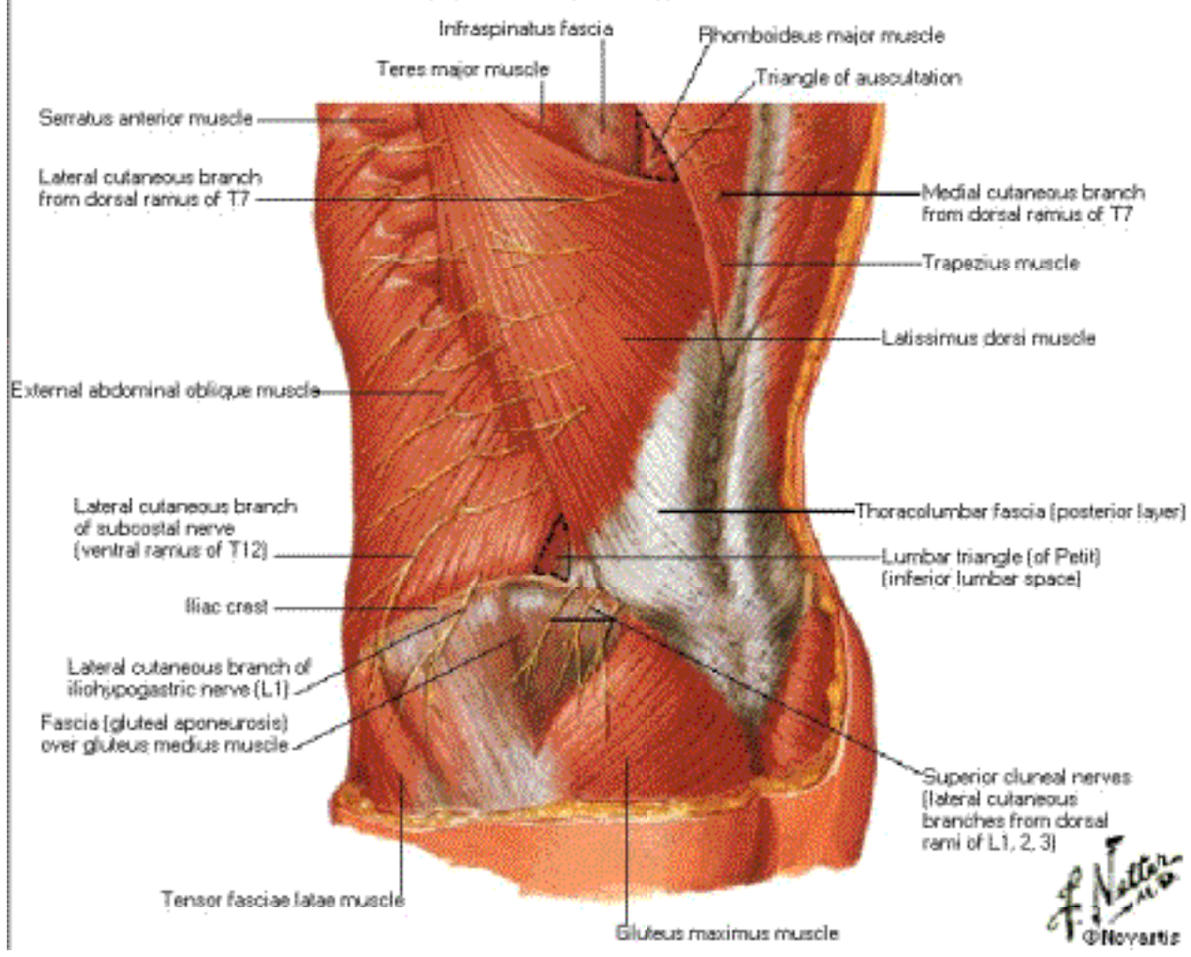
Aponeurosis of internal abdominal oblique muscle does not split at this level but passes completely anterior to rectus abdominis muscle and is fused there with both aponeurosis of external abdominal oblique muscle and that of transversus abdominis muscle. Thus posterior wall of rectus sheath is absent below arcuate line and rectus abdominis muscle lies on transversalis fascia

Anterior Abdominal Wall

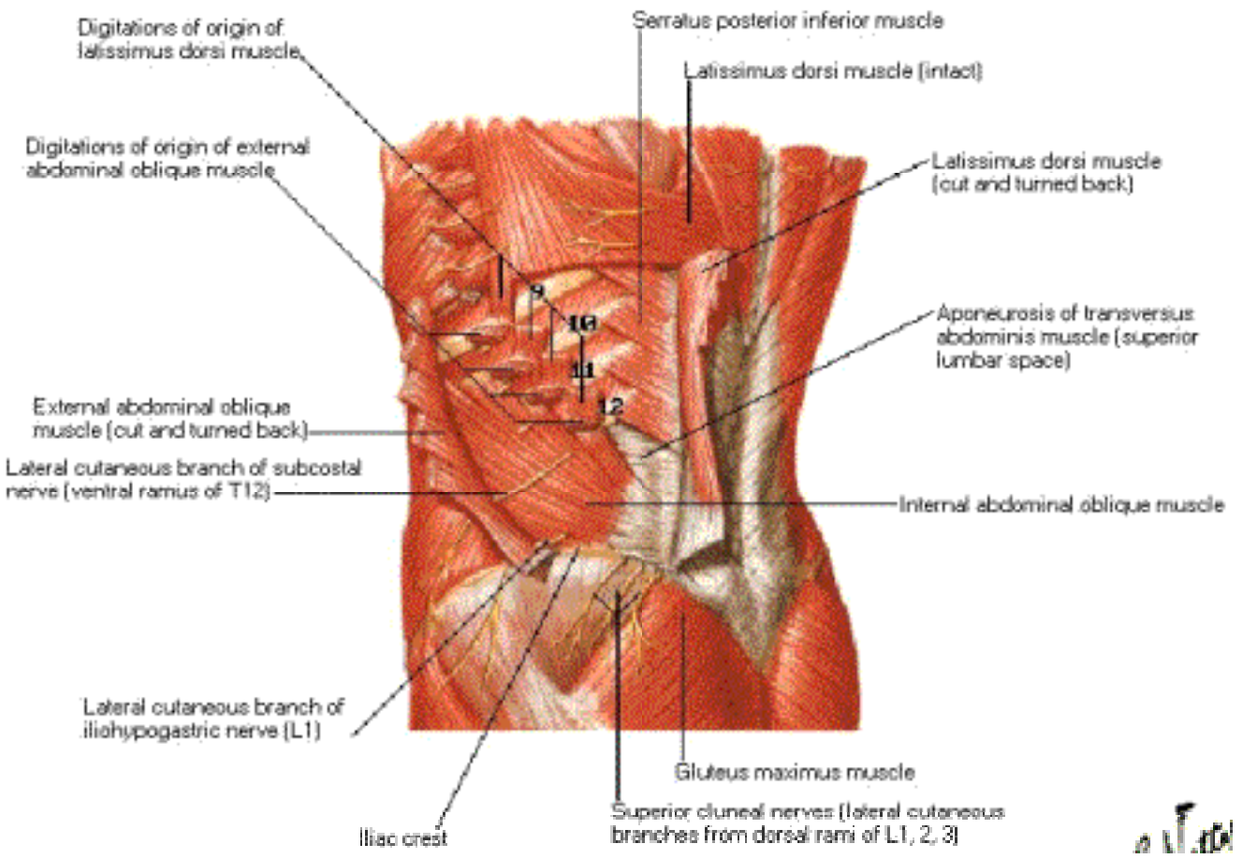
Internal View



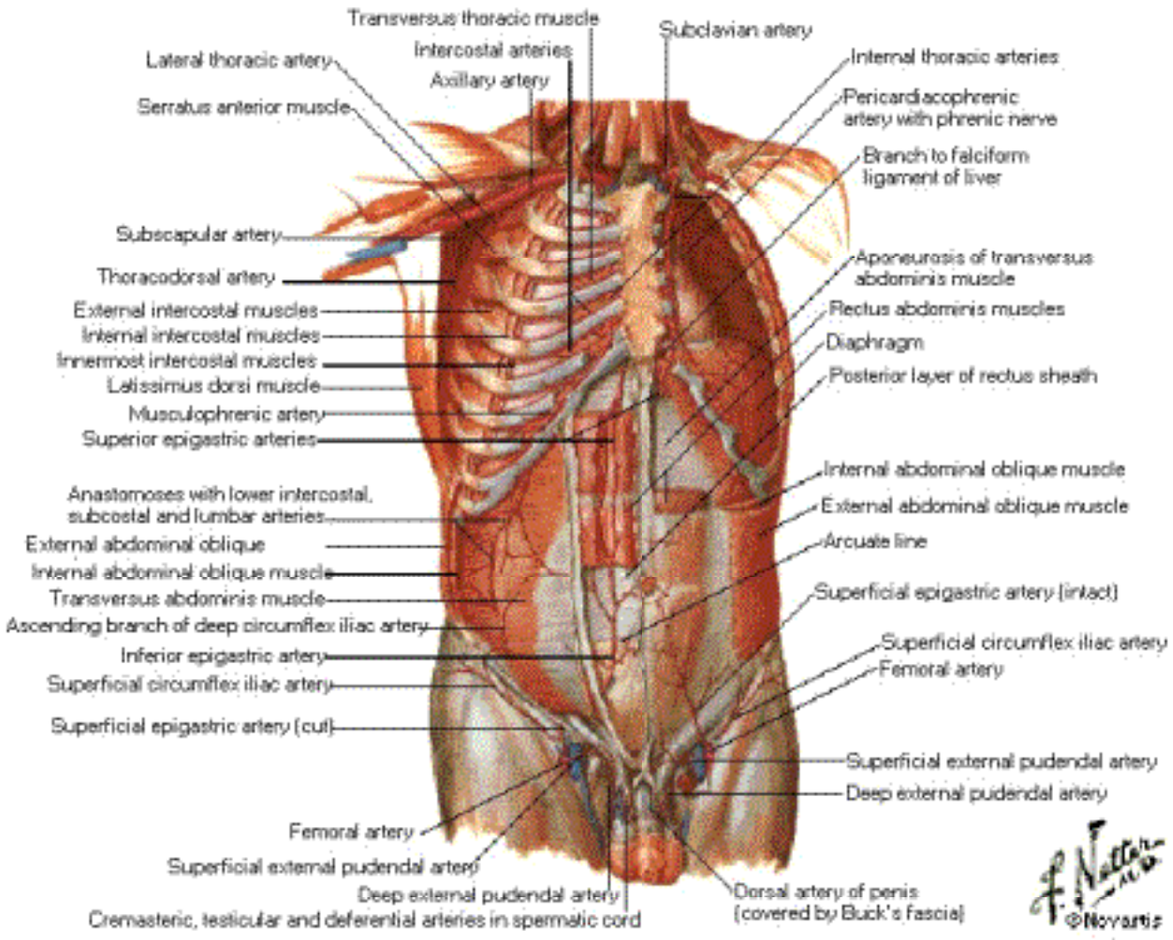
Posterolateral Abdominal Wall



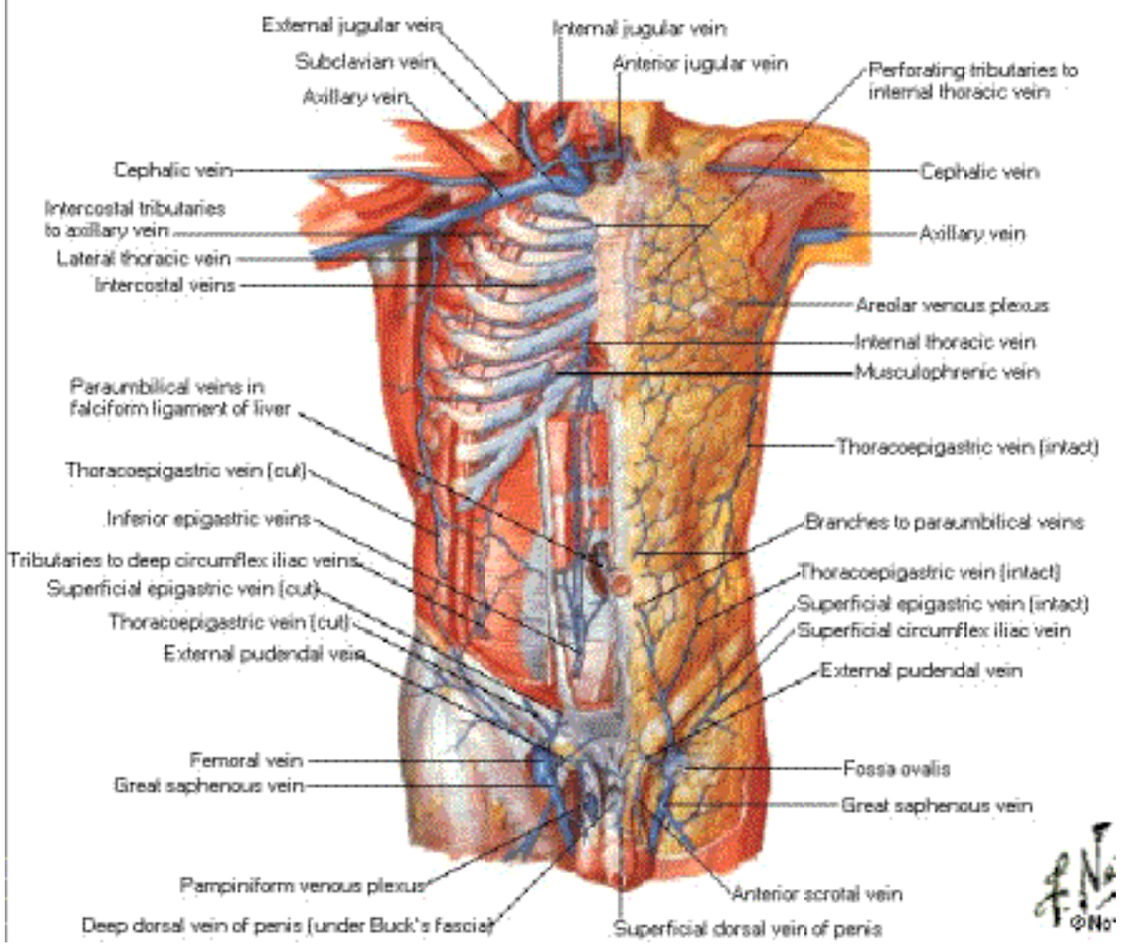
Posterolateral Abdominal Wall [Continued]



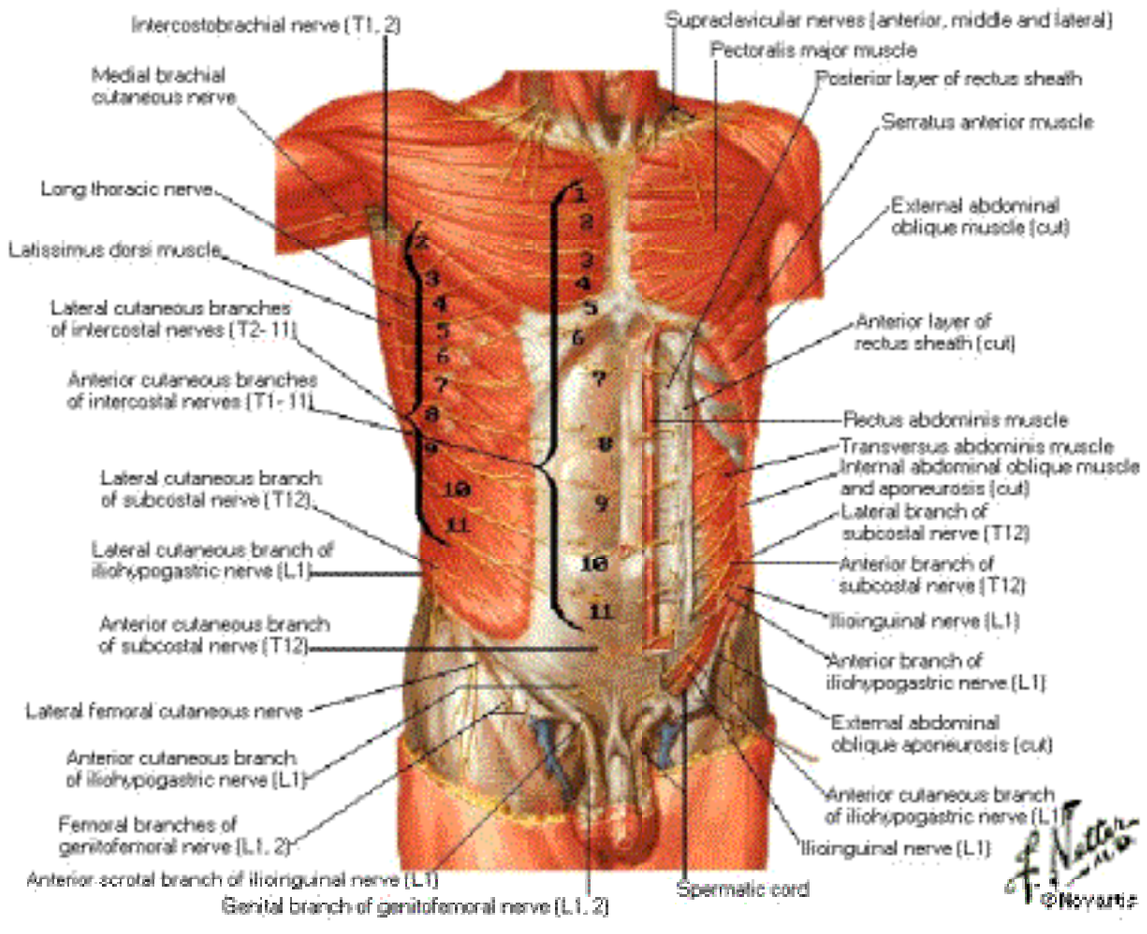
Arteries of Anterior Abdominal Wall



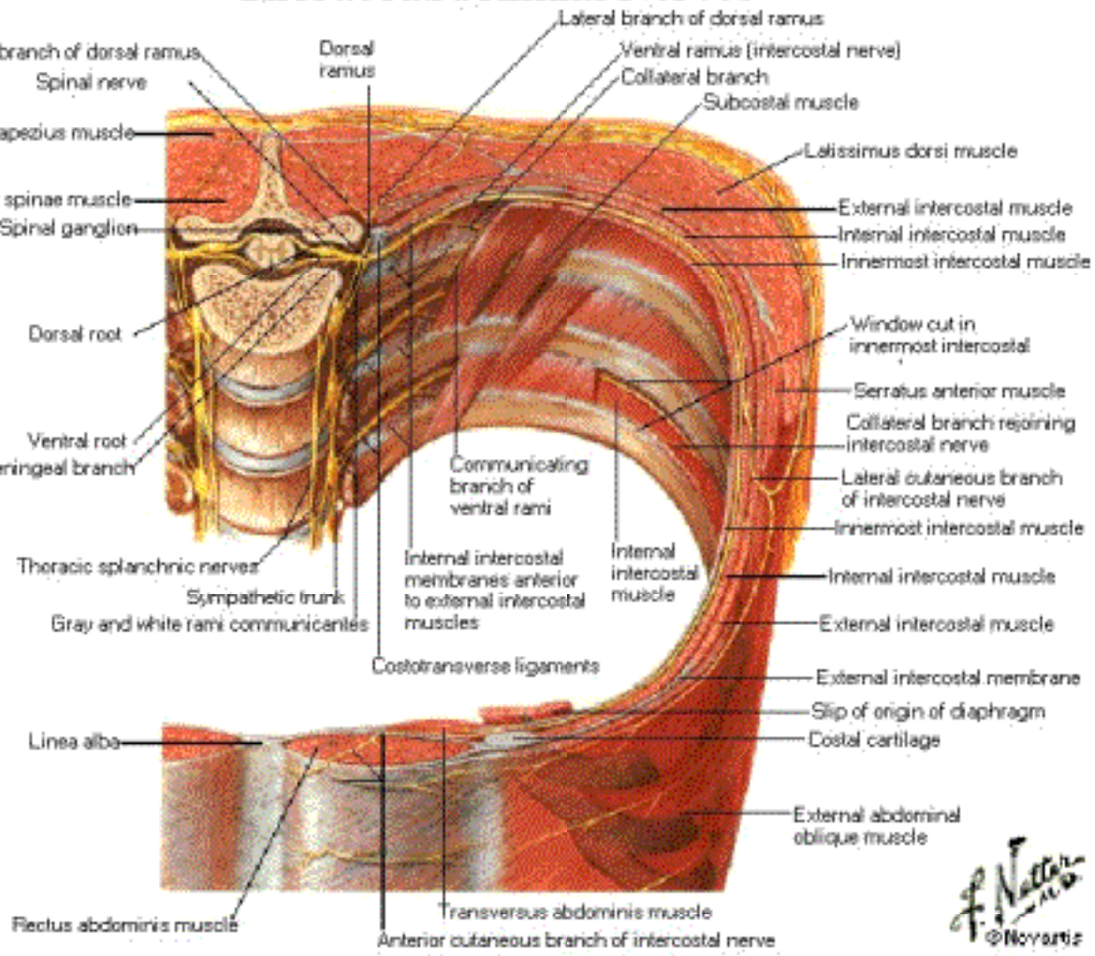
Veins of Anterior Abdominal Wall



Nerves of Anterior Abdominal Wall

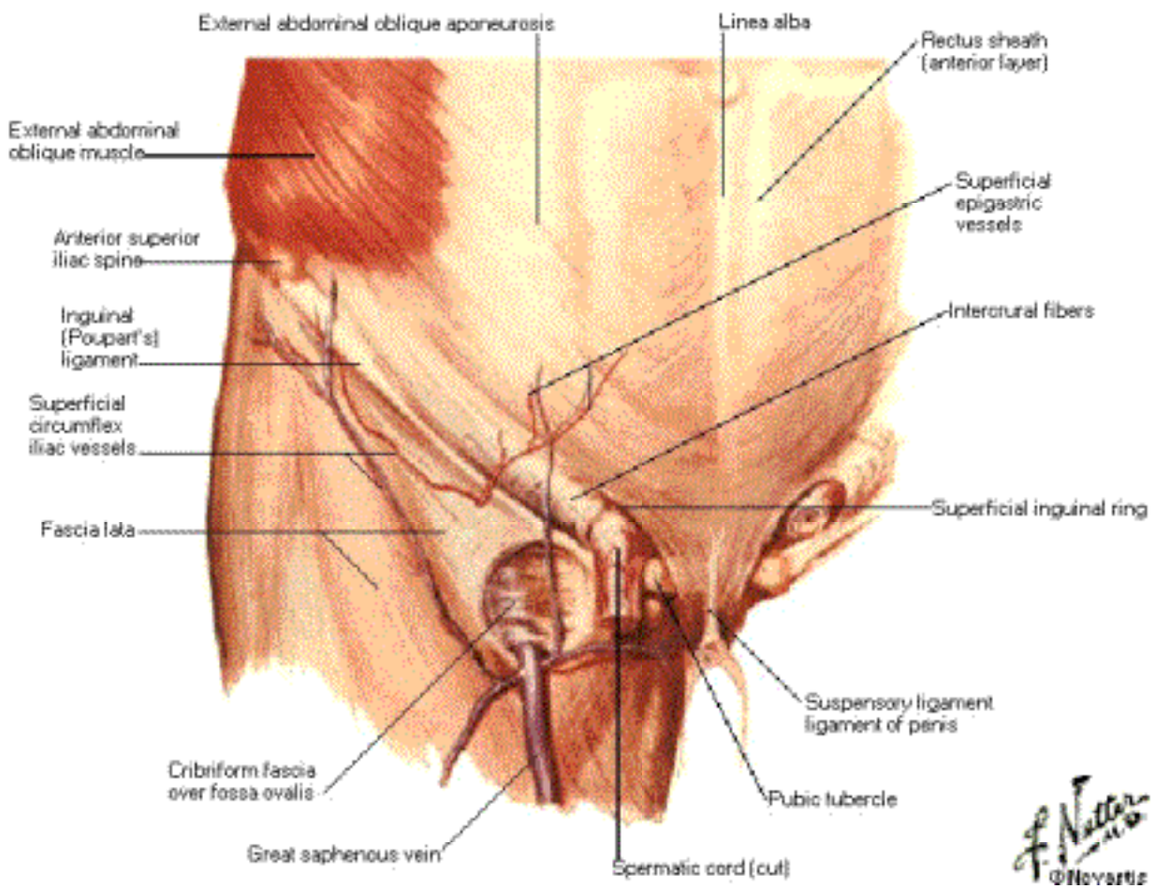


Thoracoabdominal Nerves



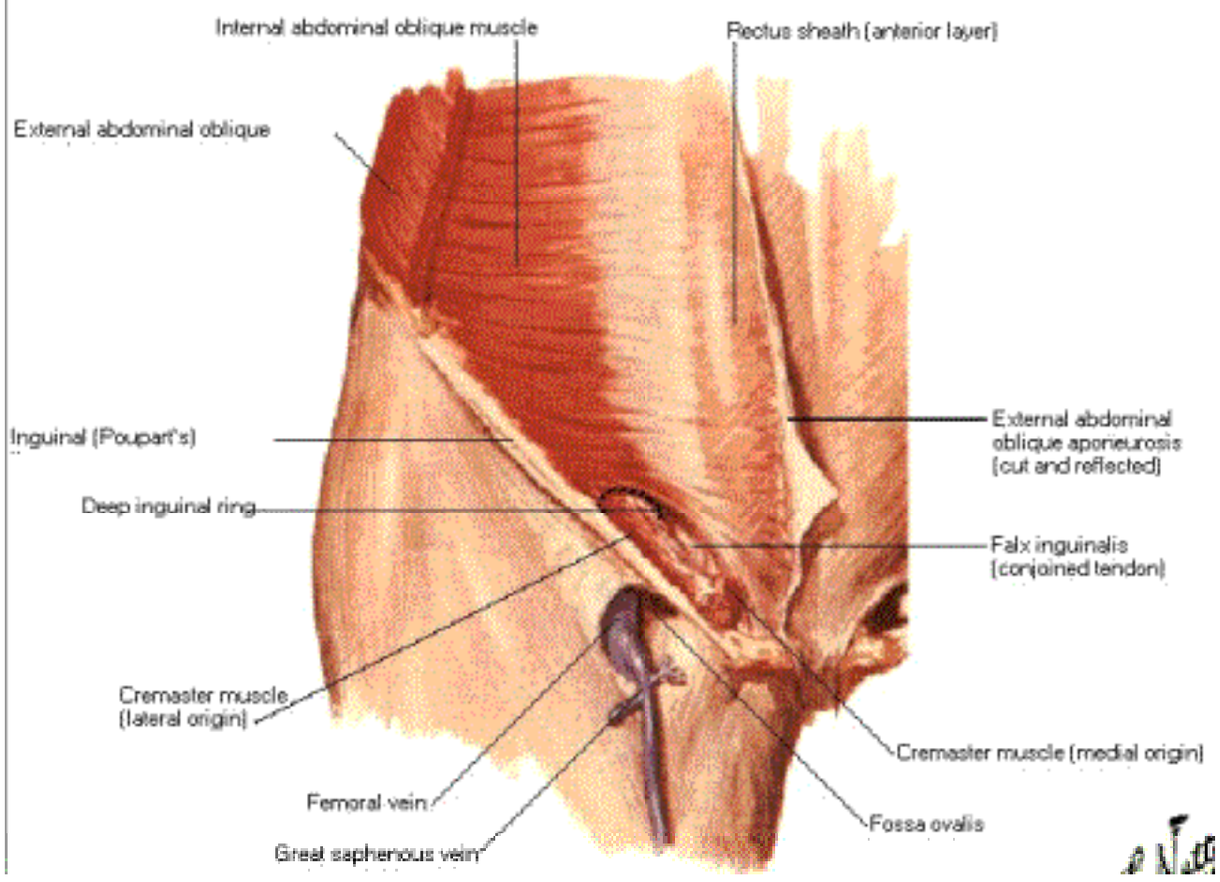
Inguinal and Femoral Regions

Subcutaneous Fascia Removed



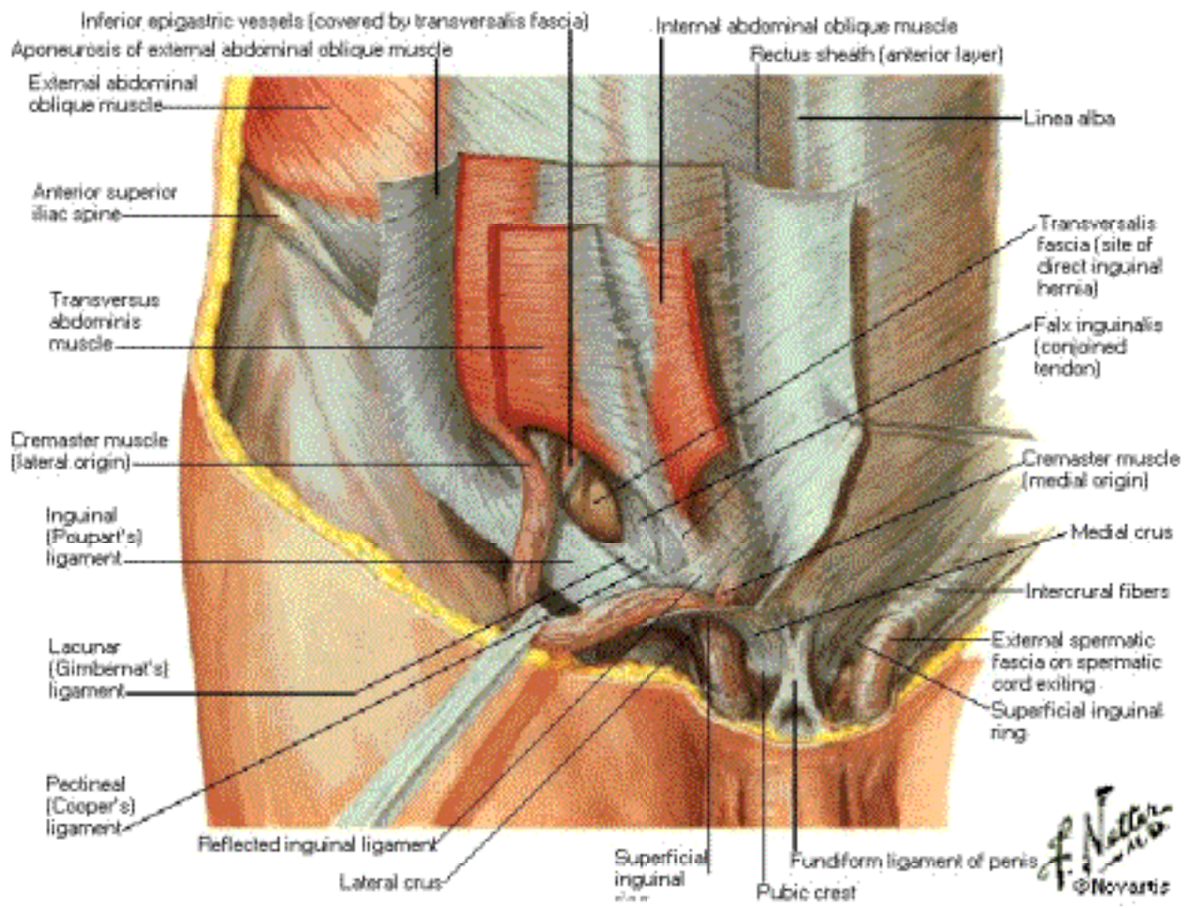
Inguinal and Femoral Regions

Cribriform Fascia Removed



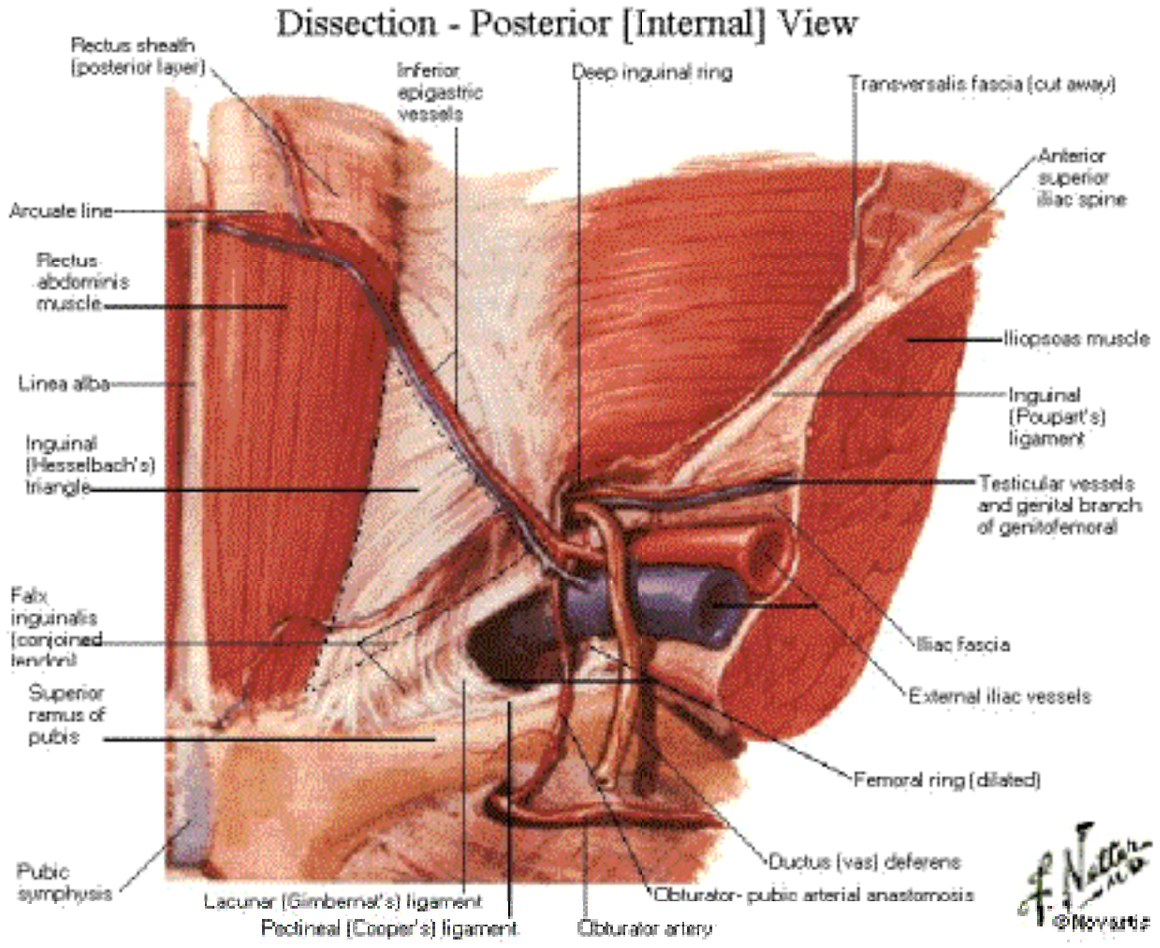
Inguinal Region

Dissection - Anterior View

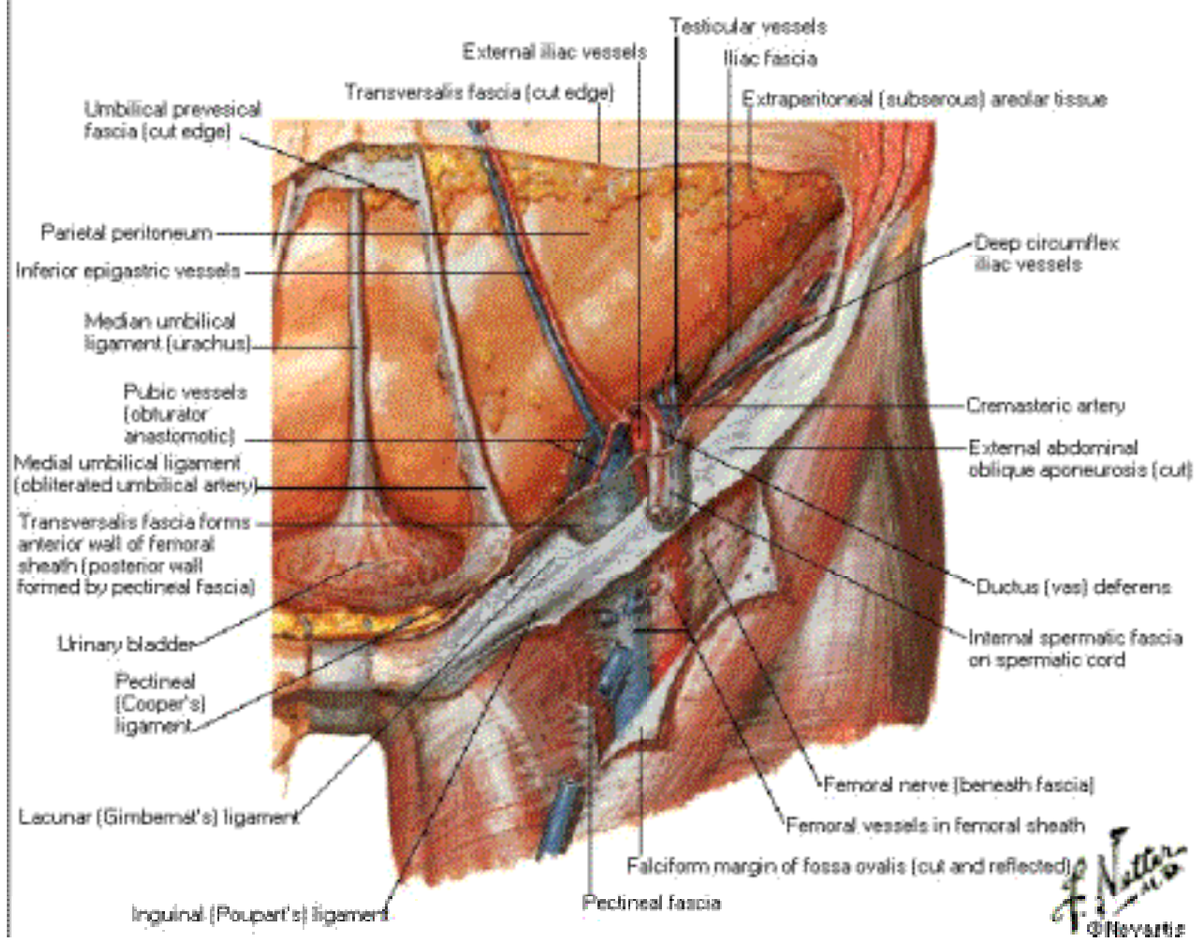


Inguinal Region

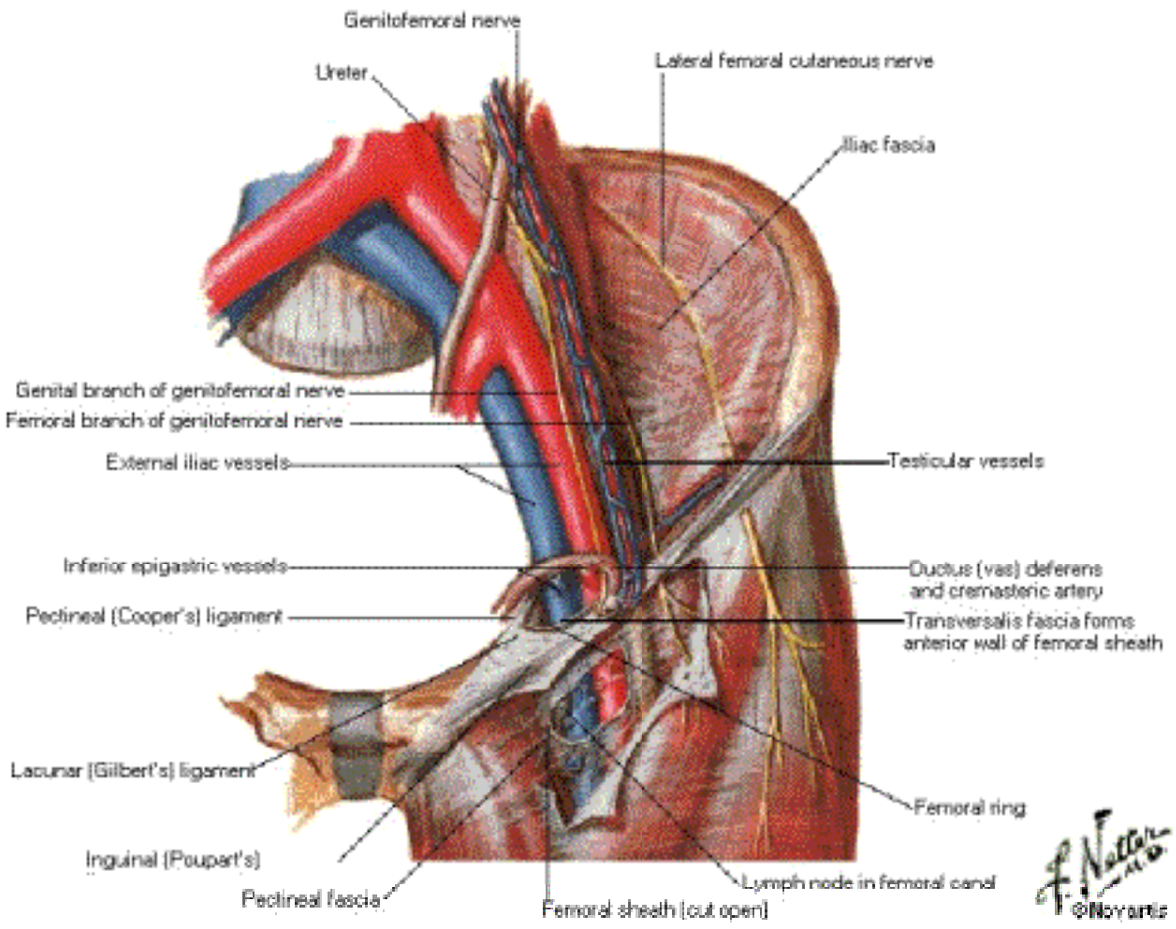
Dissection - Posterior [Internal] View



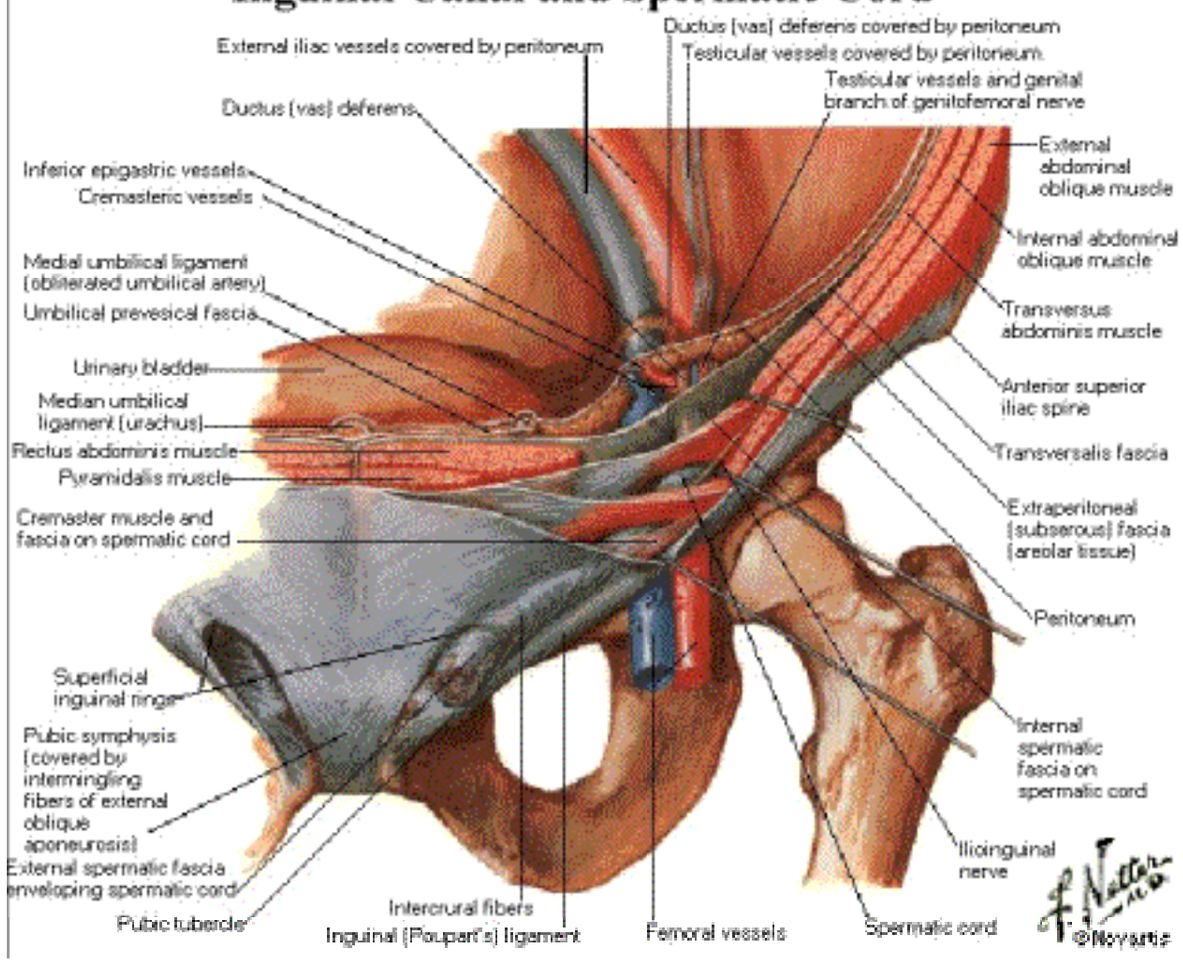
Femoral Sheath and Inguinal Canal



Femoral Sheath and Inguinal Canal [Deep]

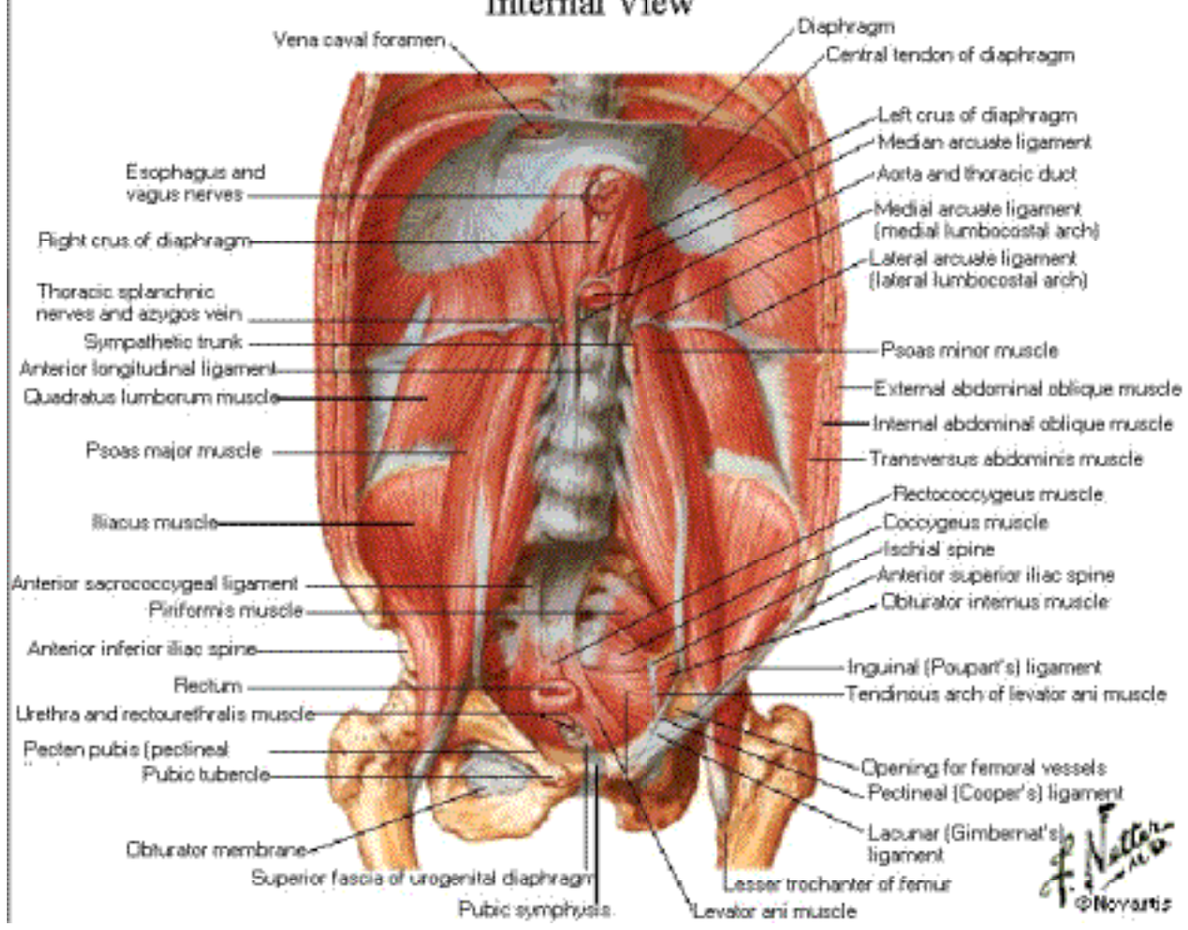


Inguinal Canal and Spermatic Cord

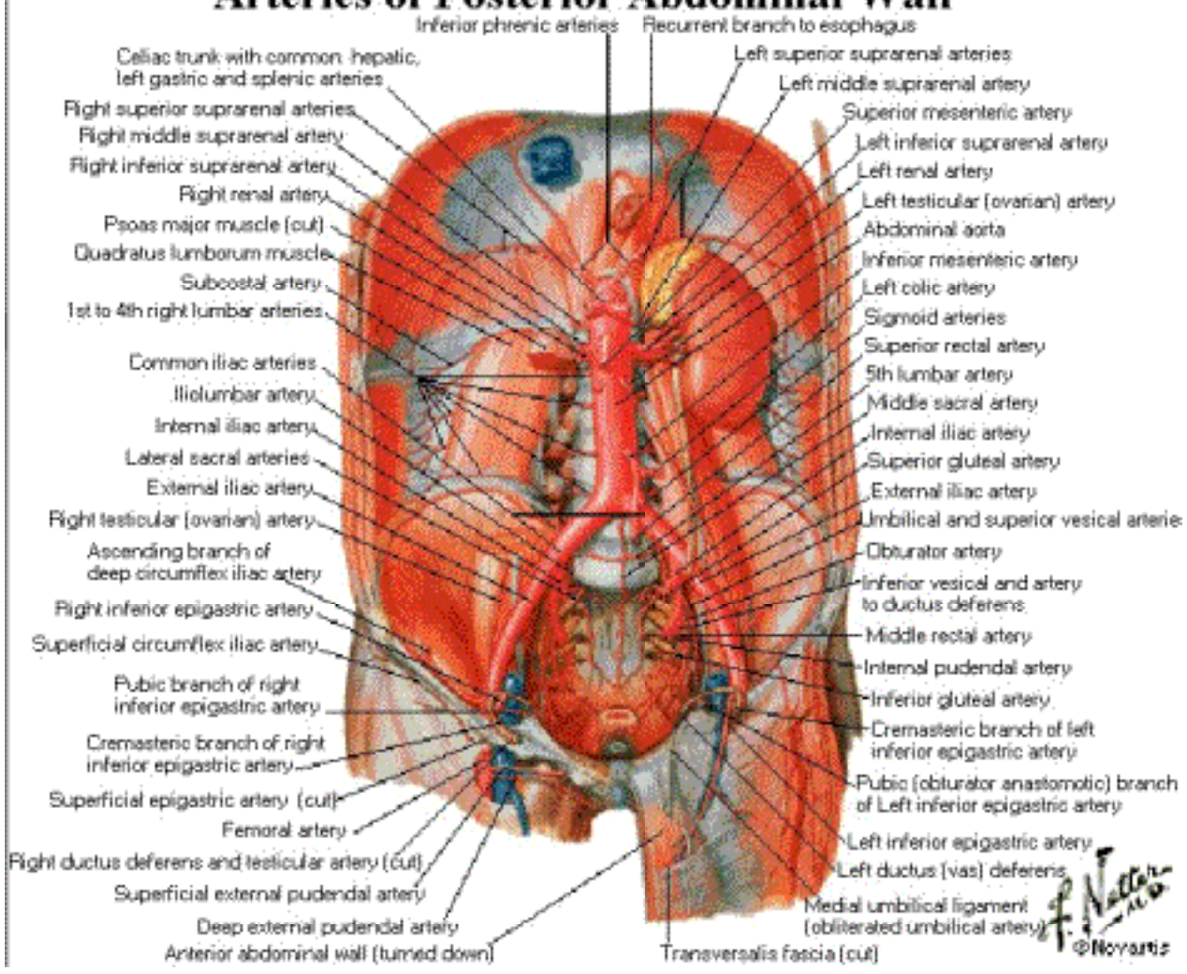


Posterior Abdominal Wall

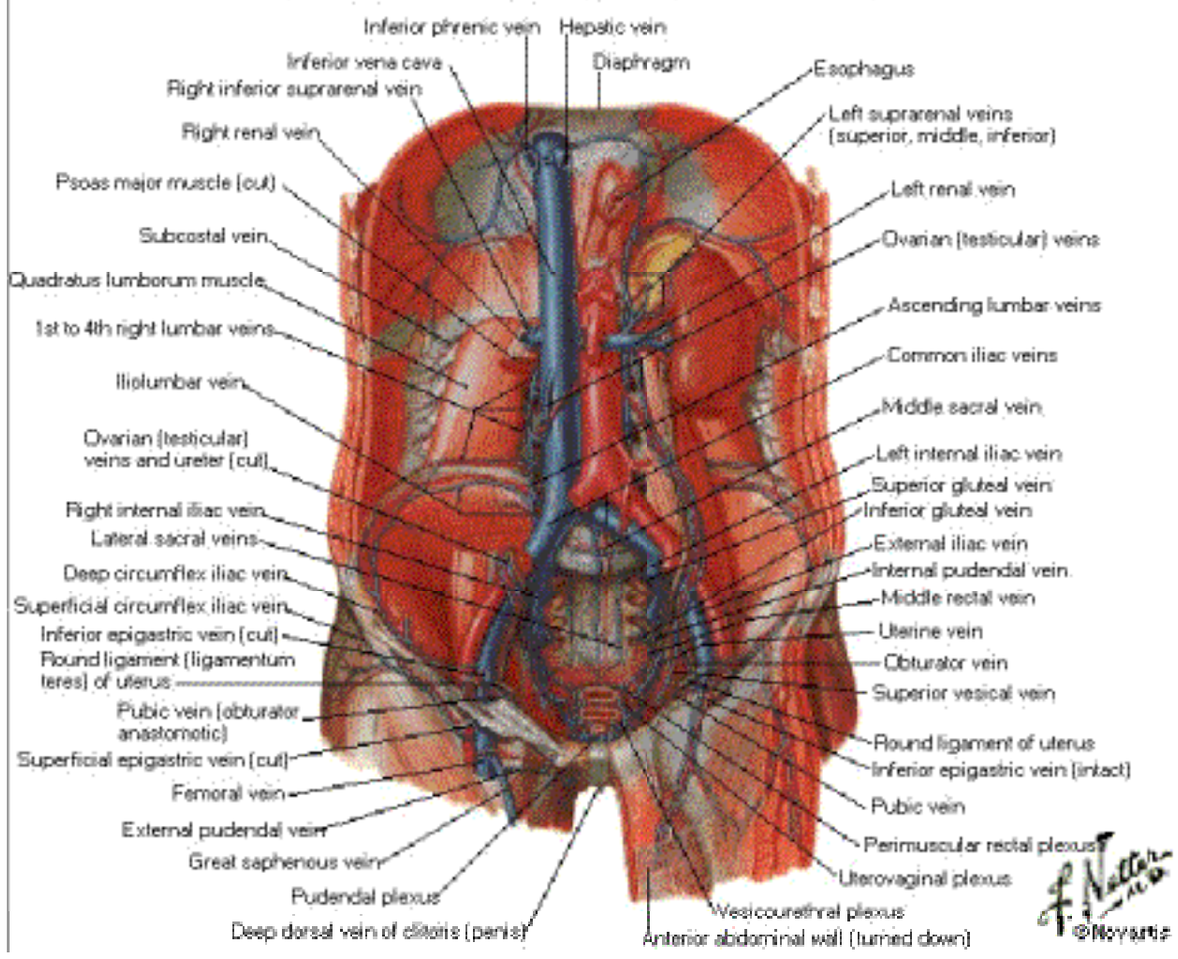
Internal View



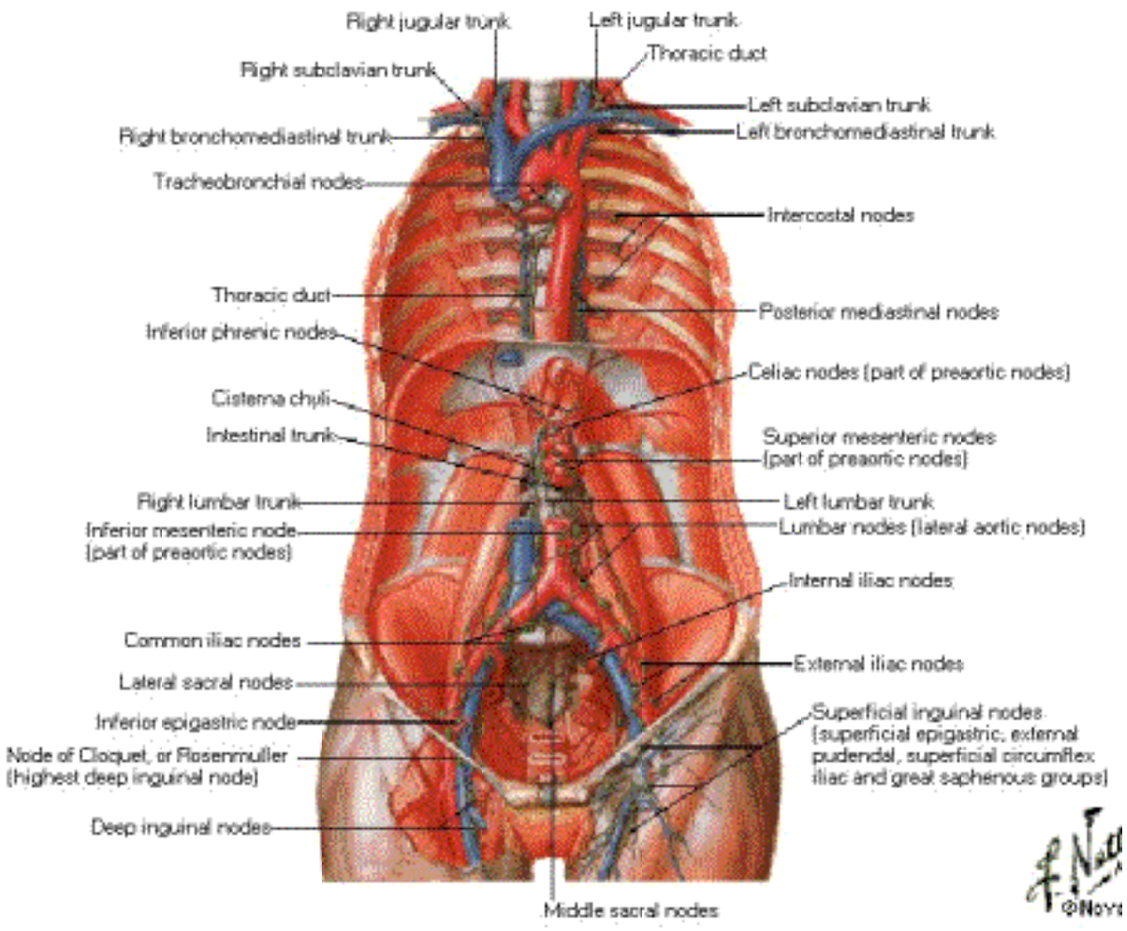
Arteries of Posterior Abdominal Wall



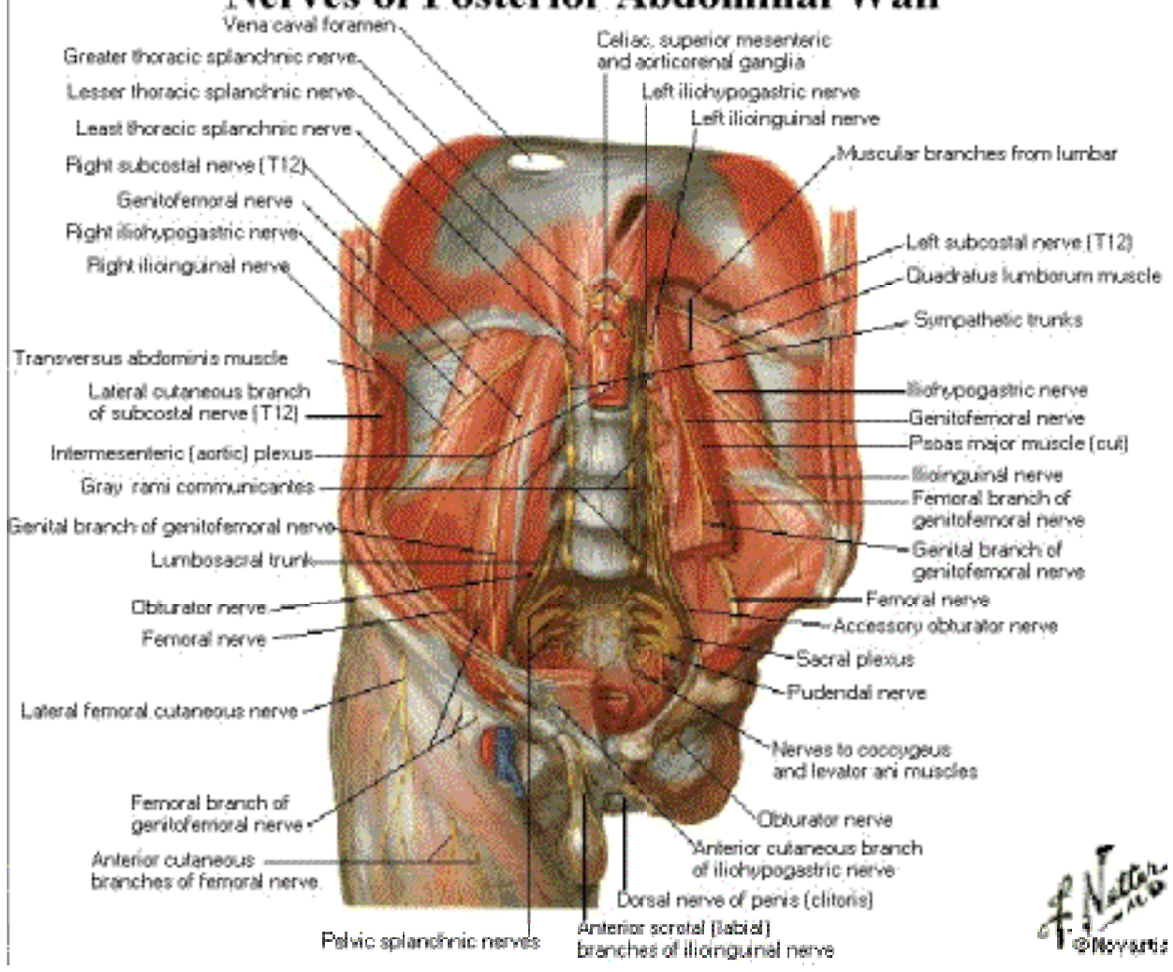
Veins of Posterior Abdominal Wall



Lymph Vessels and Nodes of Posterior Abdominal Wall

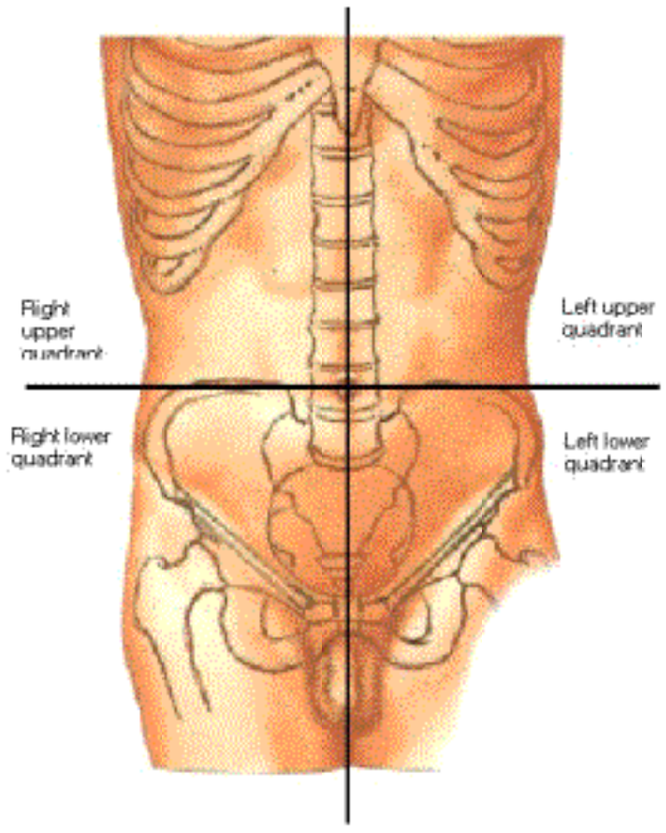


Nerves of Posterior Abdominal Wall

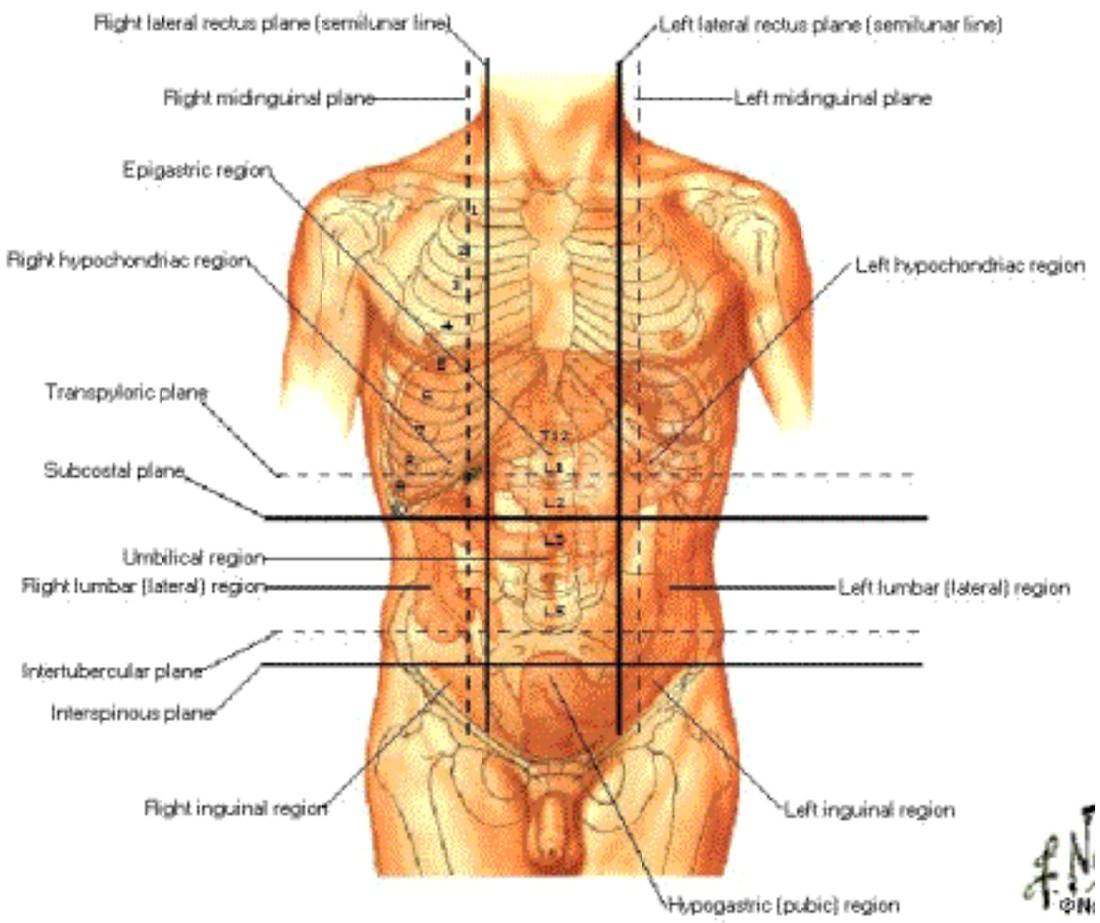


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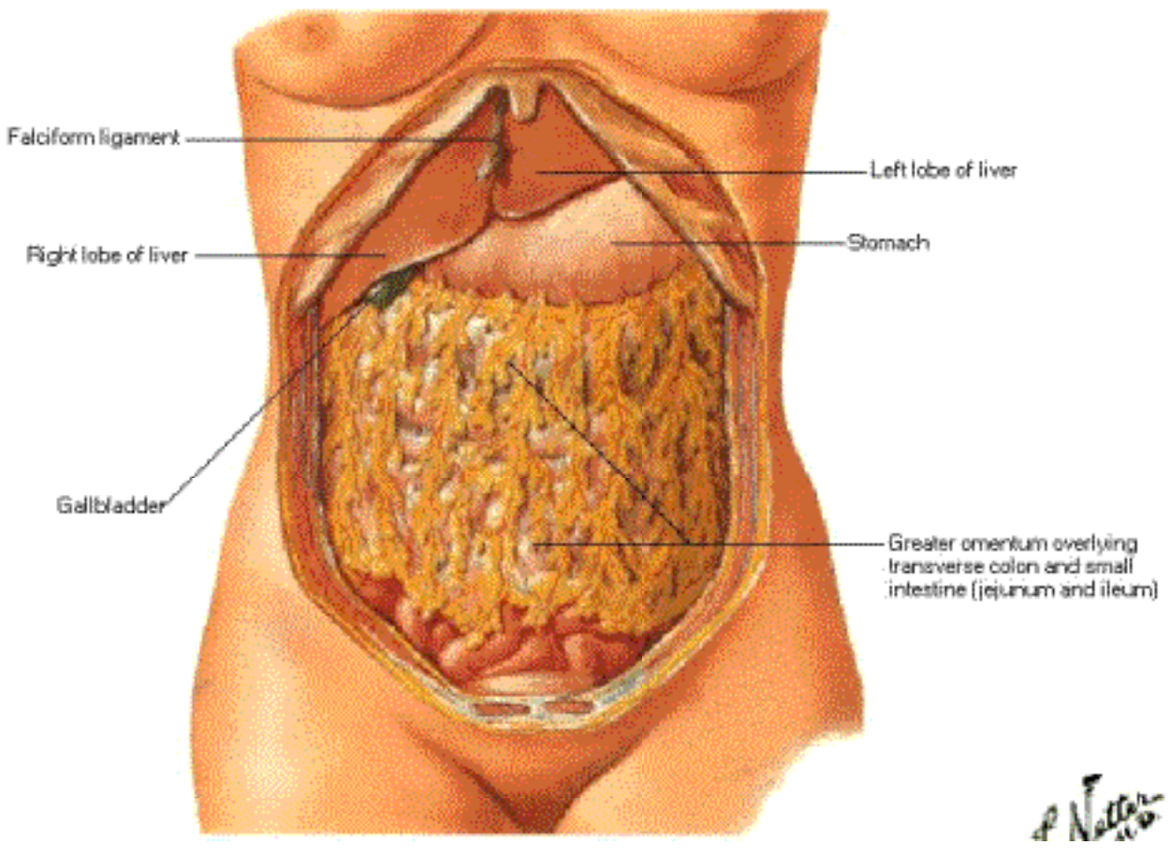
Quadrants of Abdomen



Regions and Planes of Abdomen

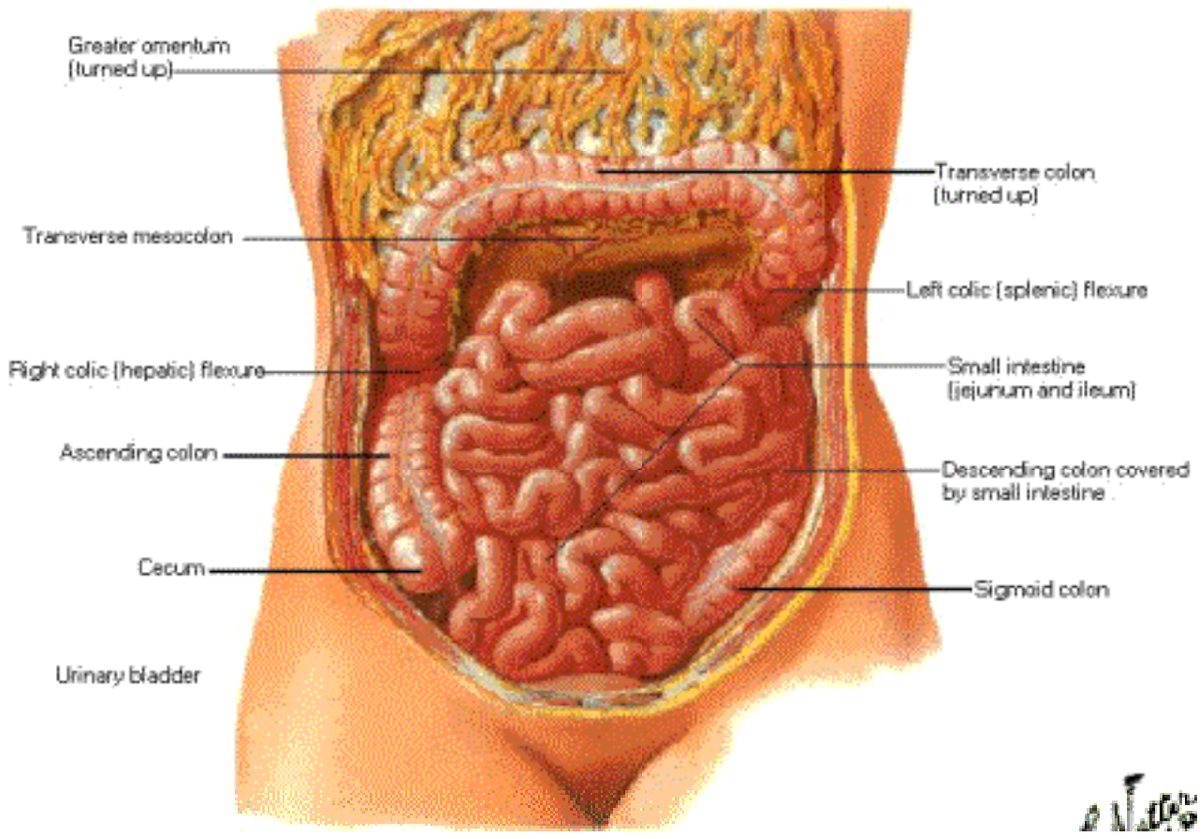


Greater Omentum and Abdominal Viscera



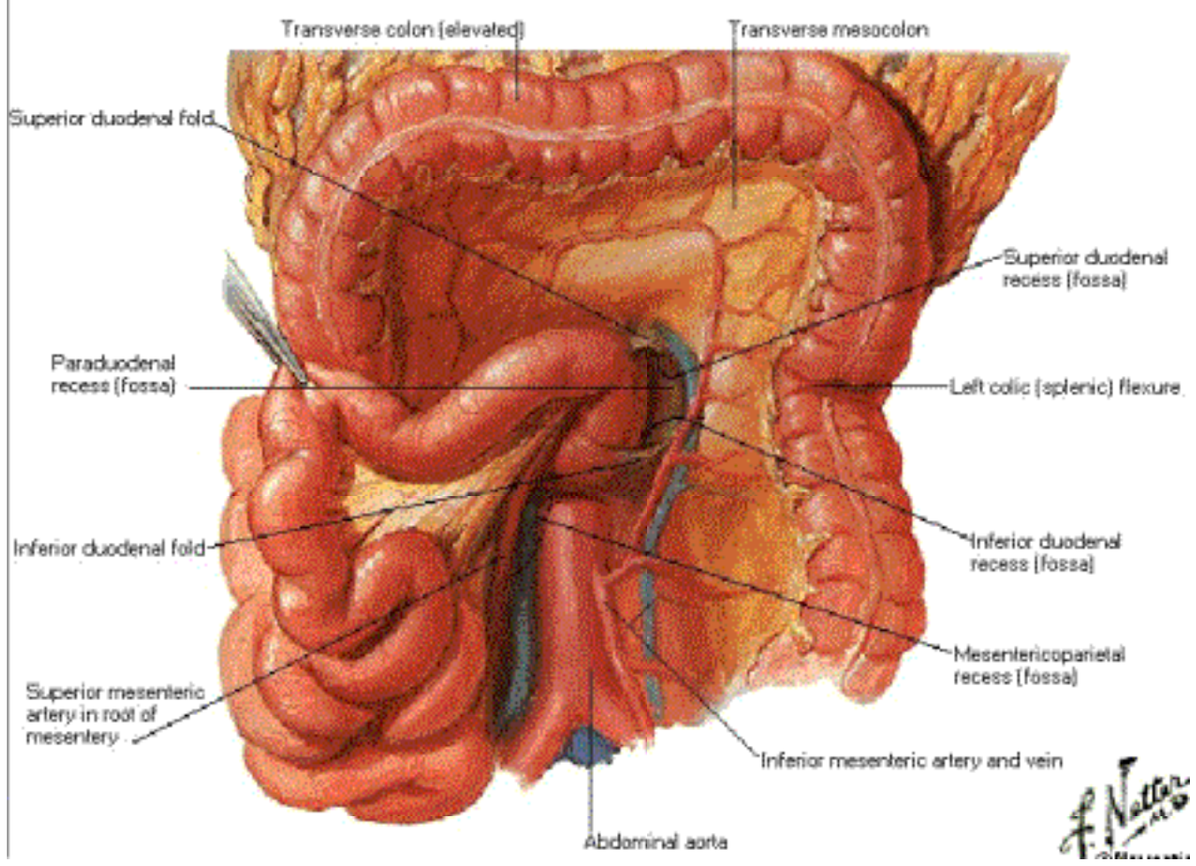
Greater Omentum and Abdominal Viscera

Omentum Raised



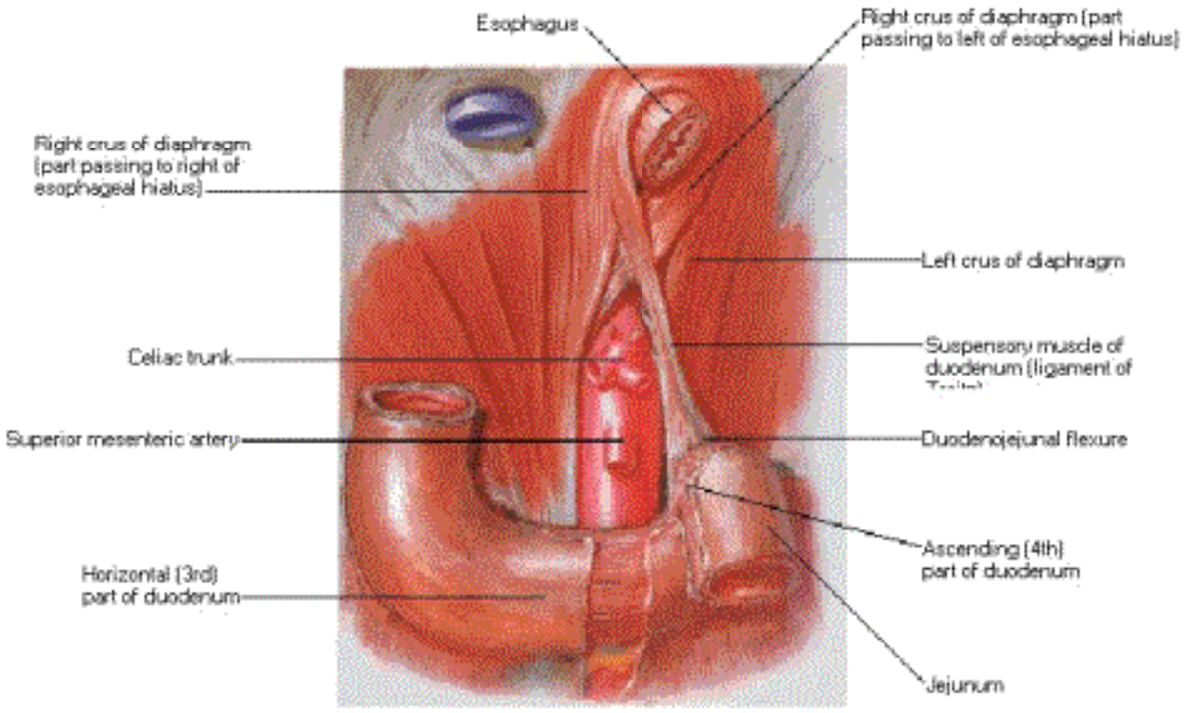
Mesenteric Relations of Intestines

Transverse Colon Elevated



Mesenteric Relations of Intestines

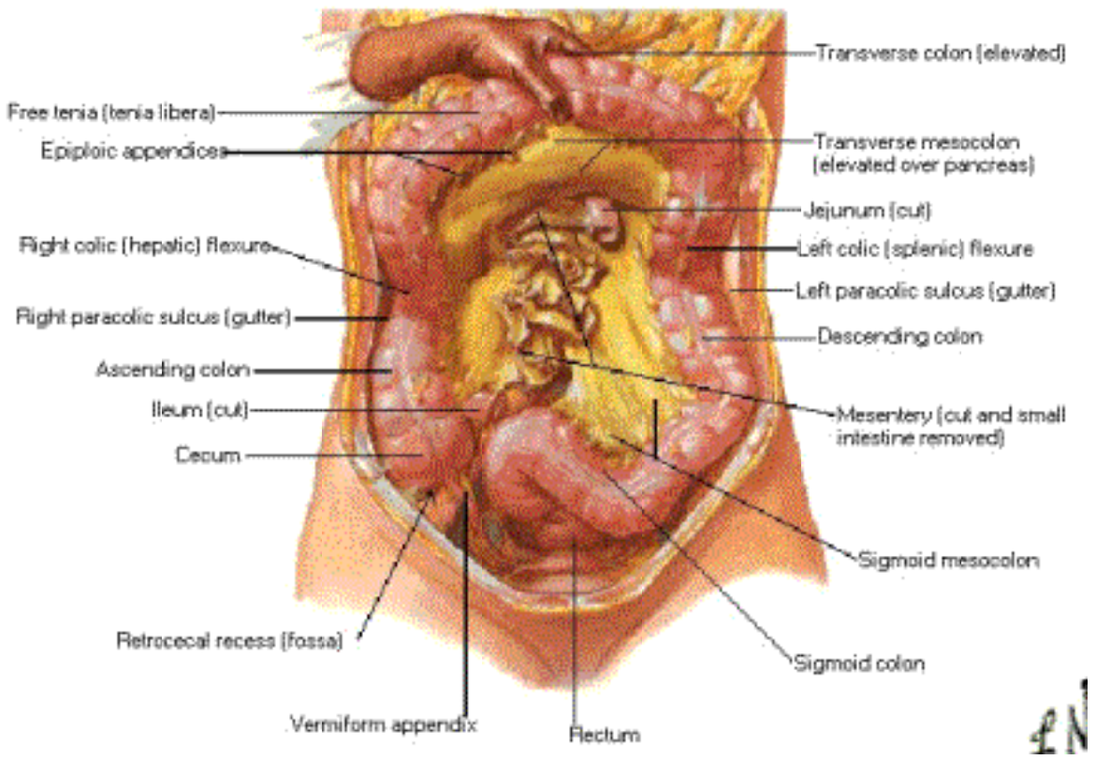
Suspensory Muscle of Duodenum



Exposure of suspensory muscle of duodenum (ligament of Treitz)

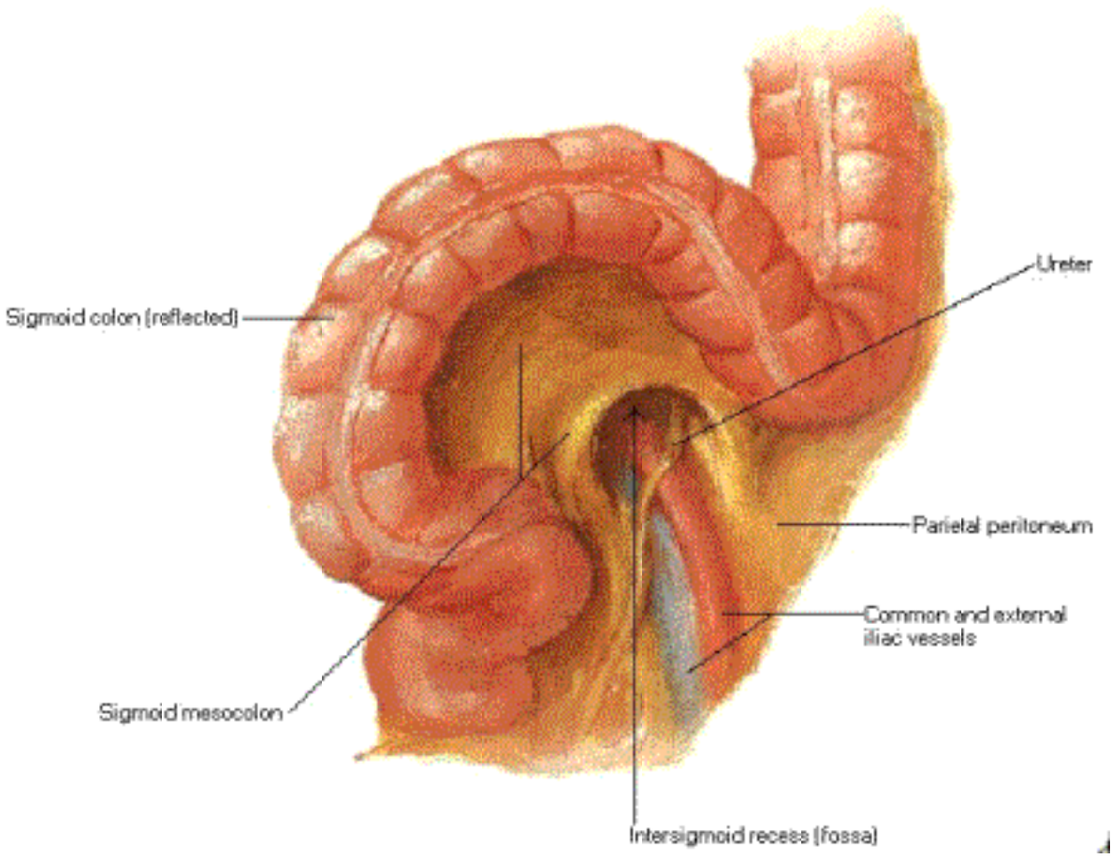
Mesenteric Relations of Intestines

Small Intestine Removed



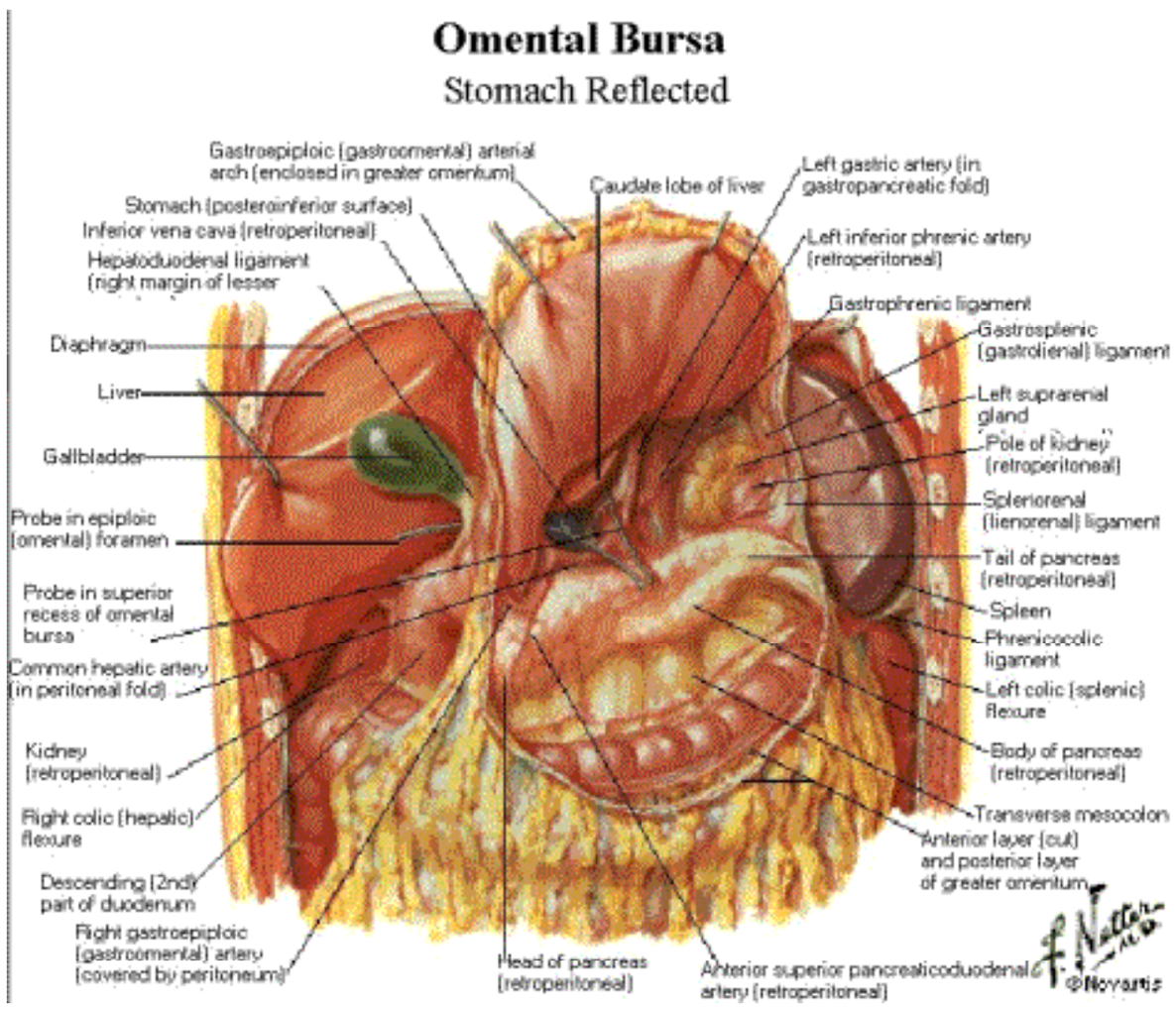
Mesenteric Relations of Intestines

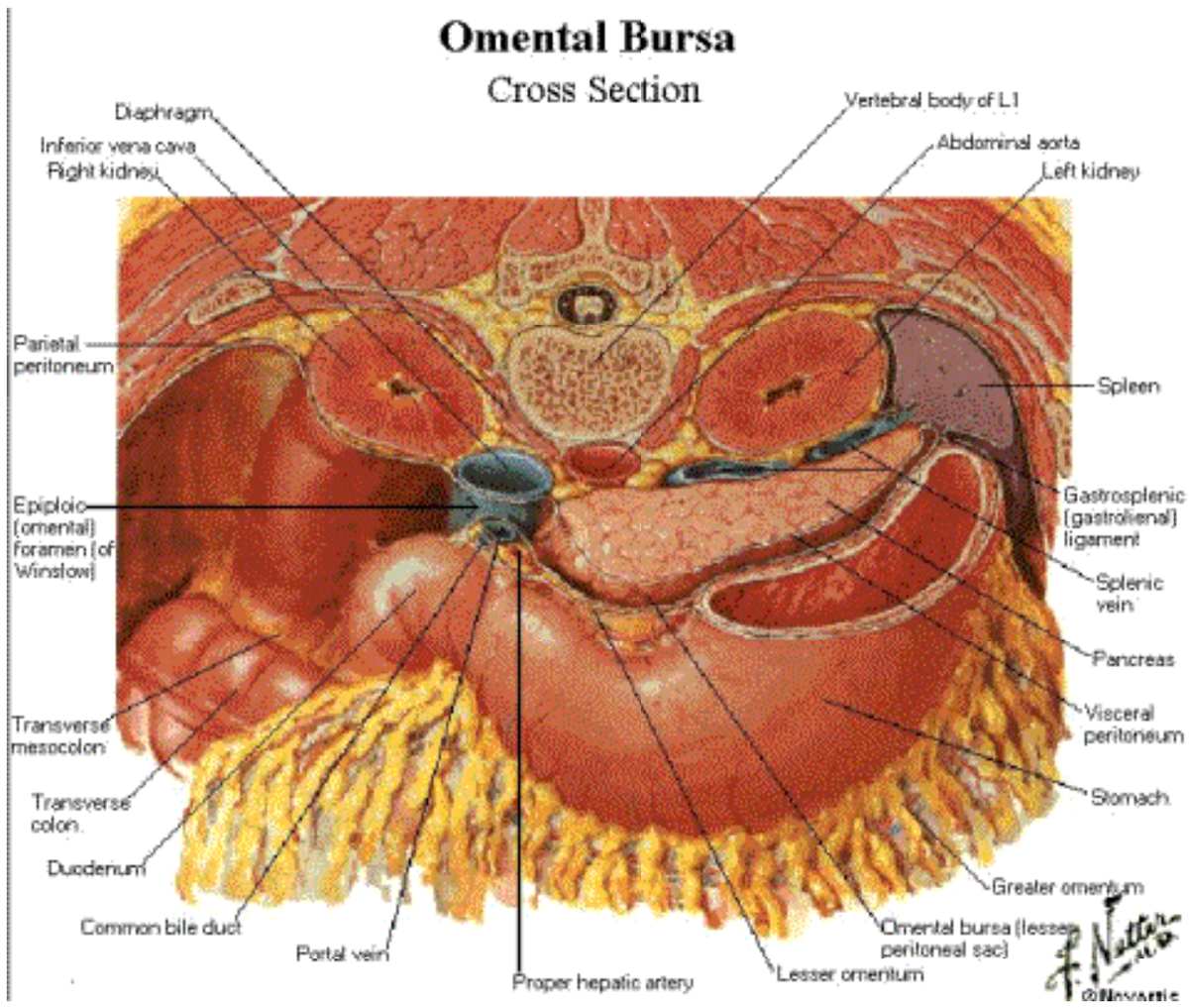
Sigmoid Colon Reflected



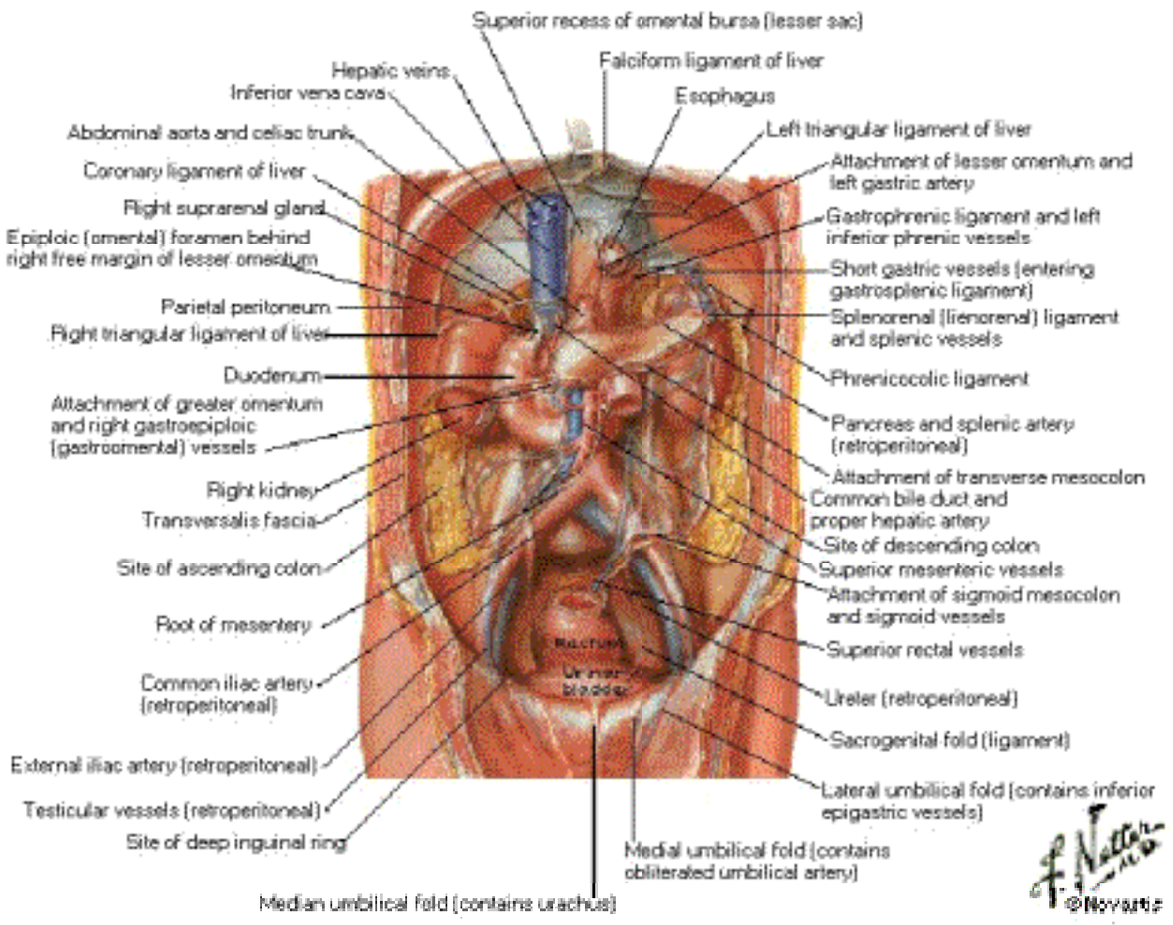
Omental Bursa

Stomach Reflected

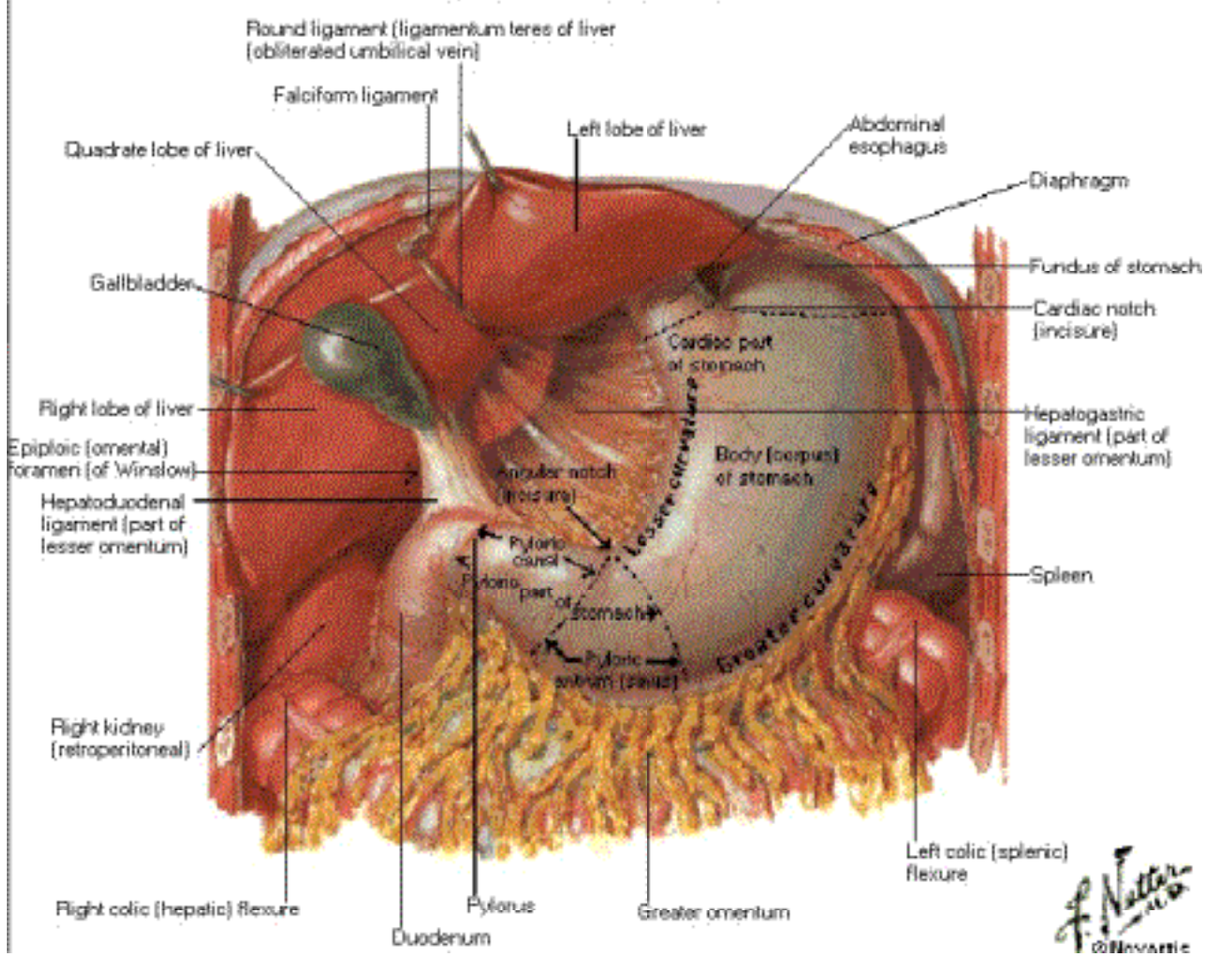



Omental Bursa
Cross Section
Diaphragm
Inferior vena cava
Right kidney
Vertebral body of L1
Abdominal aorta
Left kidney
Parietal peritoneum
Spleen
Epiploic (omental) foramen (of Winslow)
Gastrosplenic (gastrolienal) ligament
Splenic vein
Pancreas
Transverse mesocolon
Visceral peritoneum
Stomach
Transverse colon
Duodenum
Greater omentum
Common bile duct
Portal vein
Proper hepatic artery
Lesser omentum
Omental bursa (lesser peritoneal sac)
F. Netter M.D.
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Peritoneum of Posterior Abdominal Wall

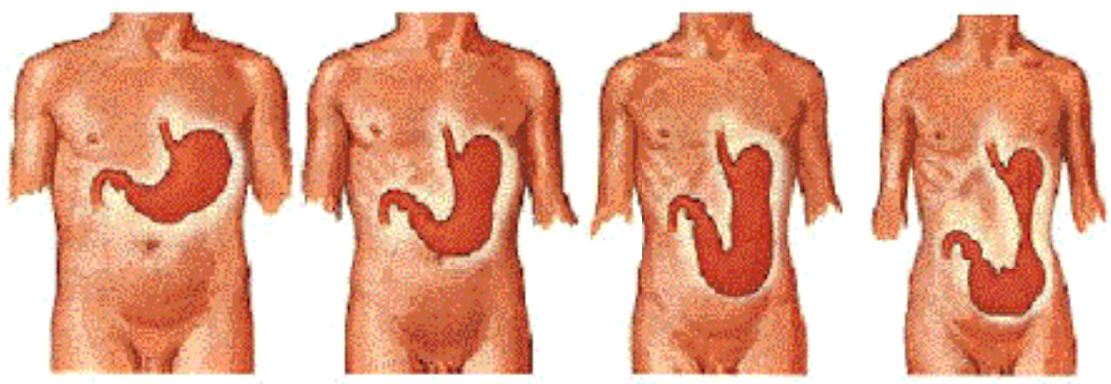


Stomach in Situ



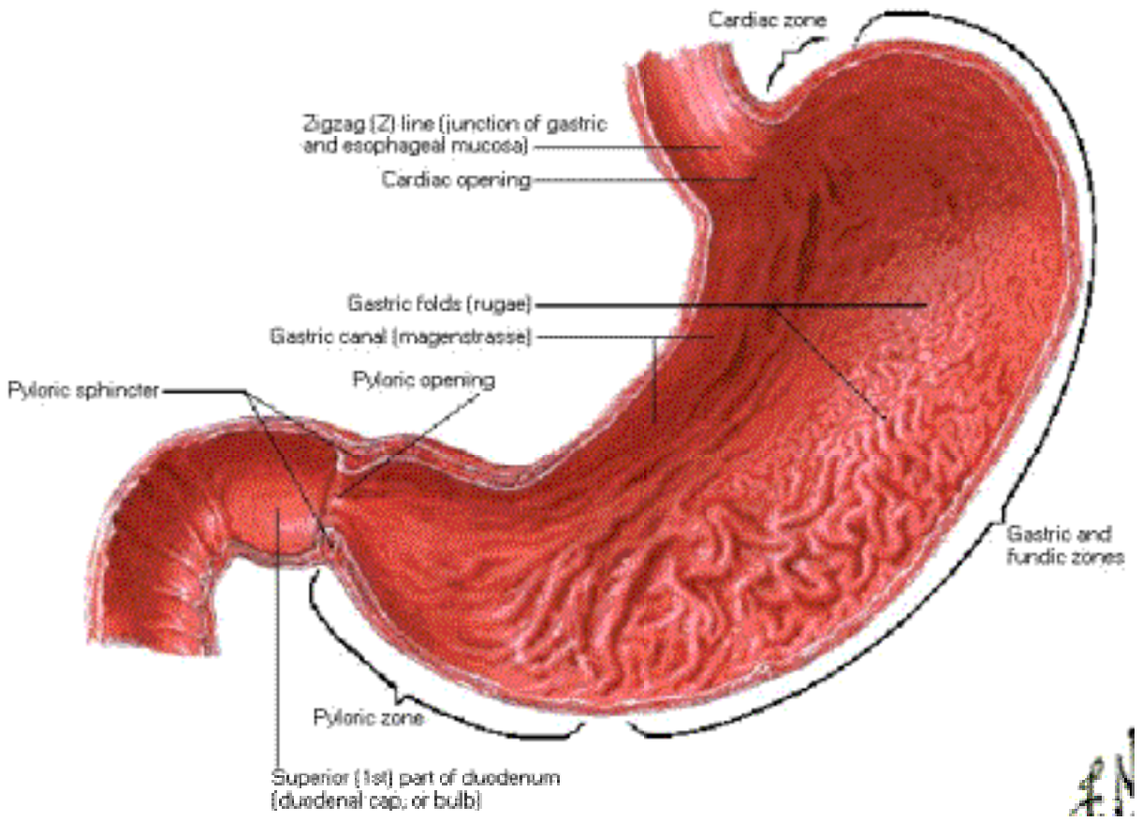
Stomach

Variations in Position and Contour



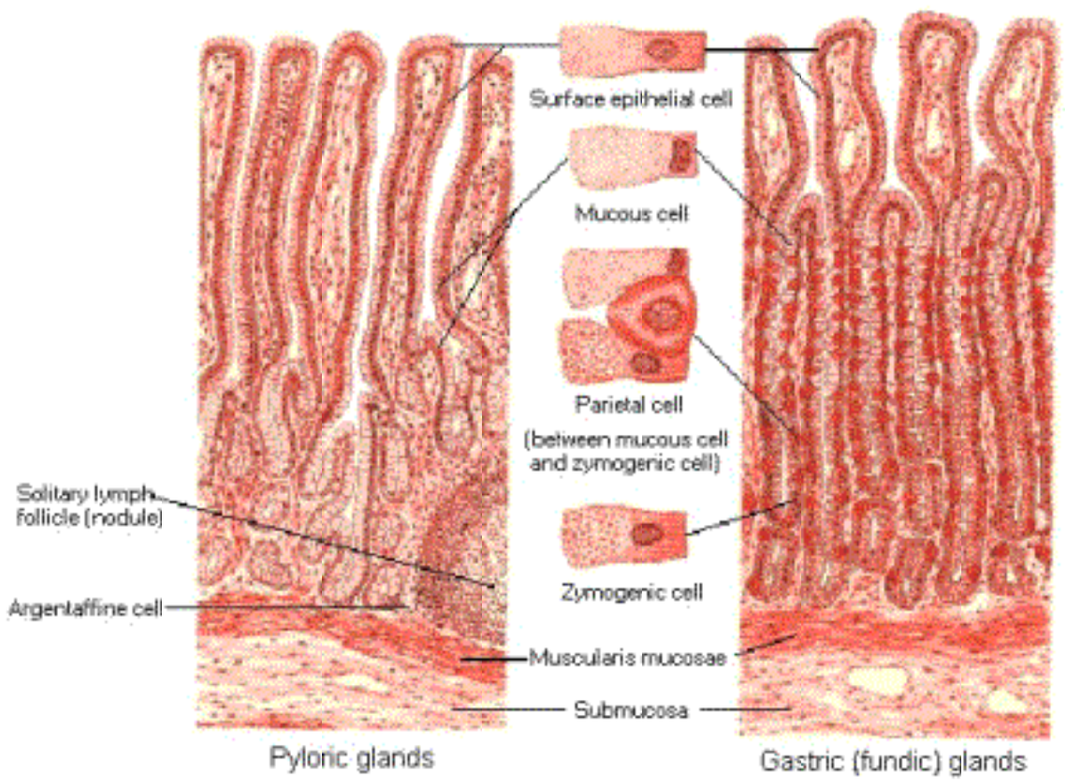
Hypertonic stomach | Orthotonic stomach | Hypotonic stomach | Atonic stomach

Mucosa of Stomach

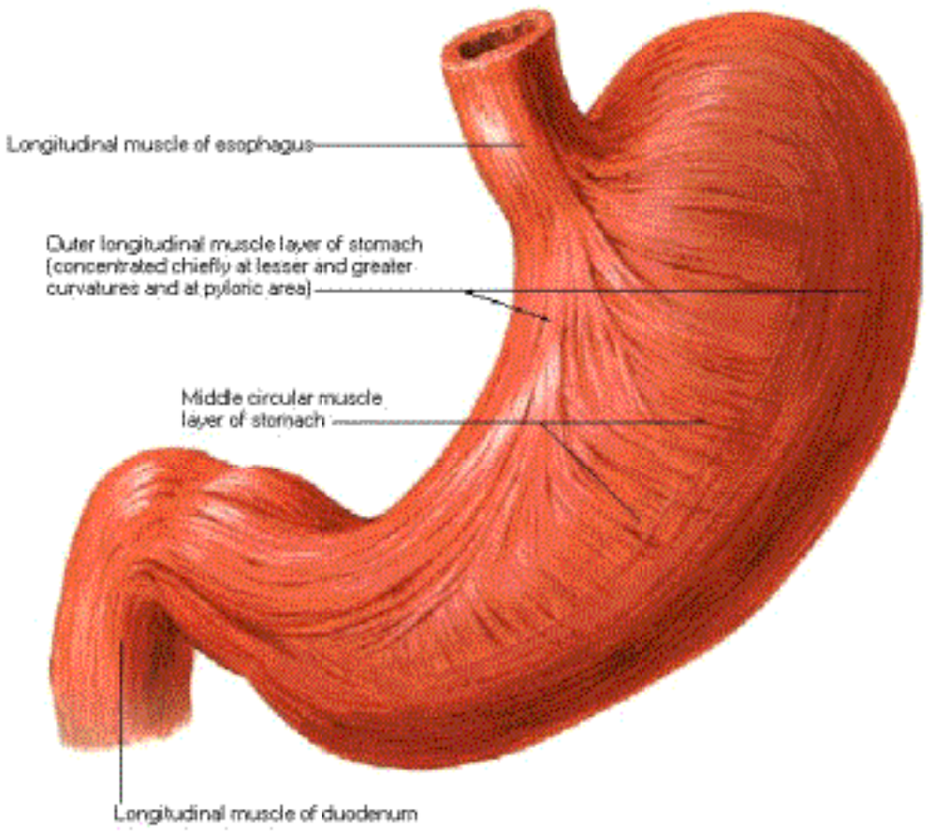


Mucosa of Stomach

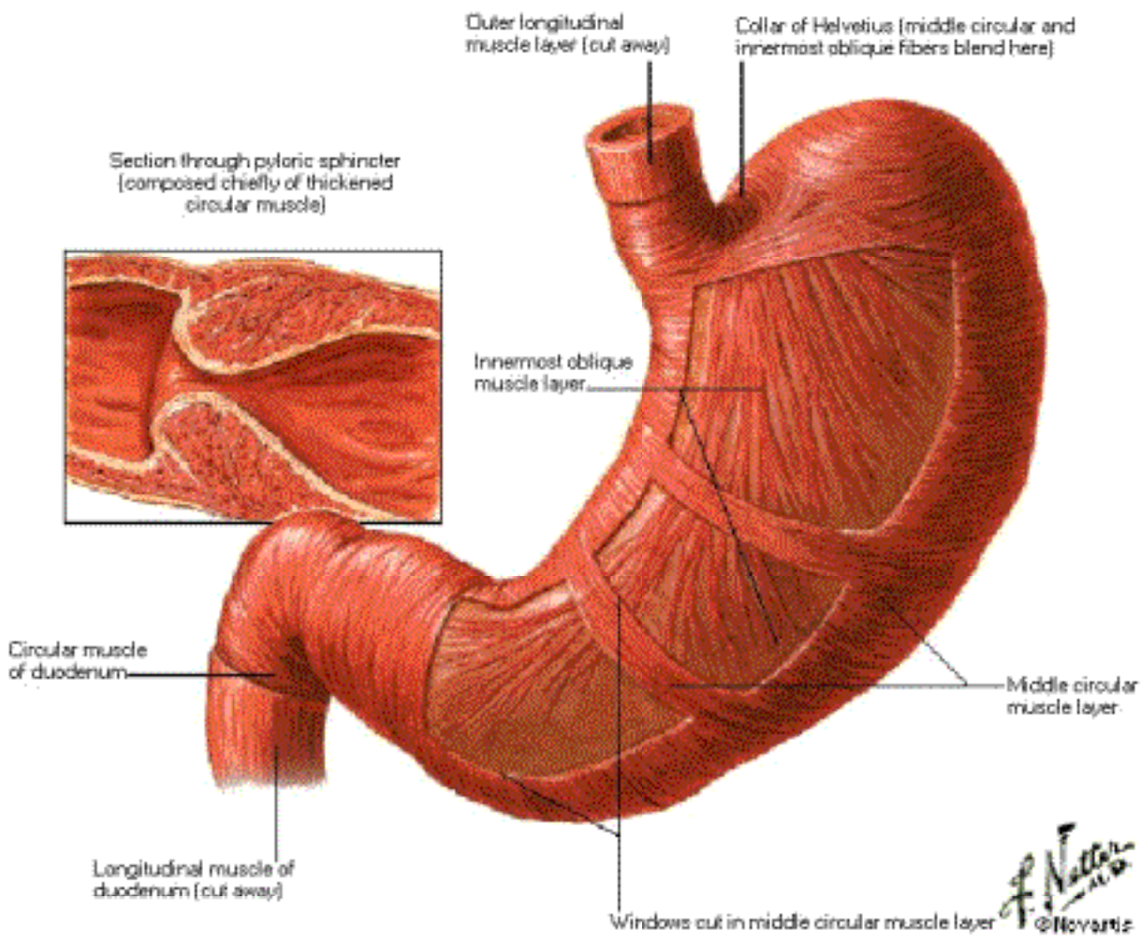
Histology



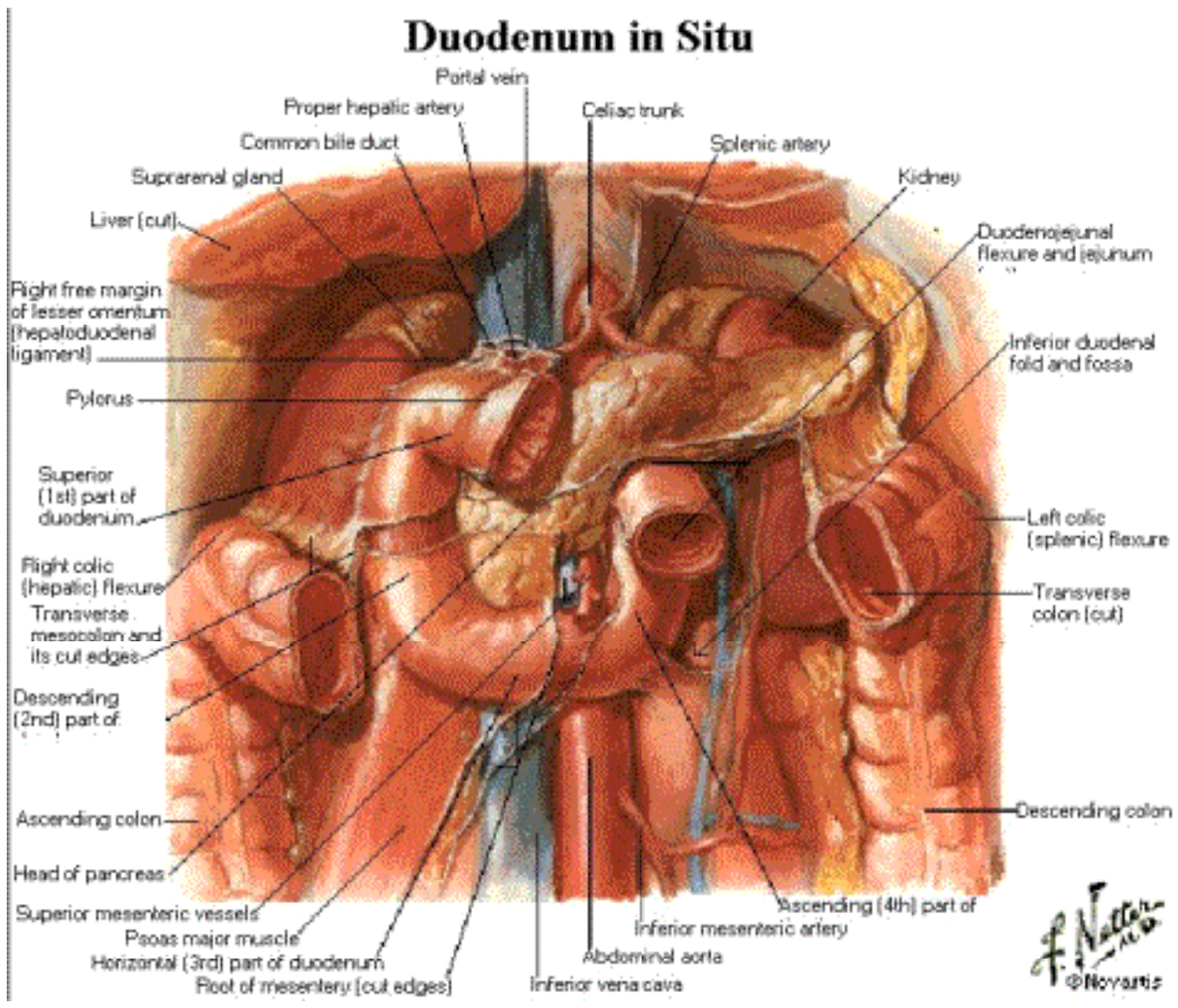
Musculature of Stomach



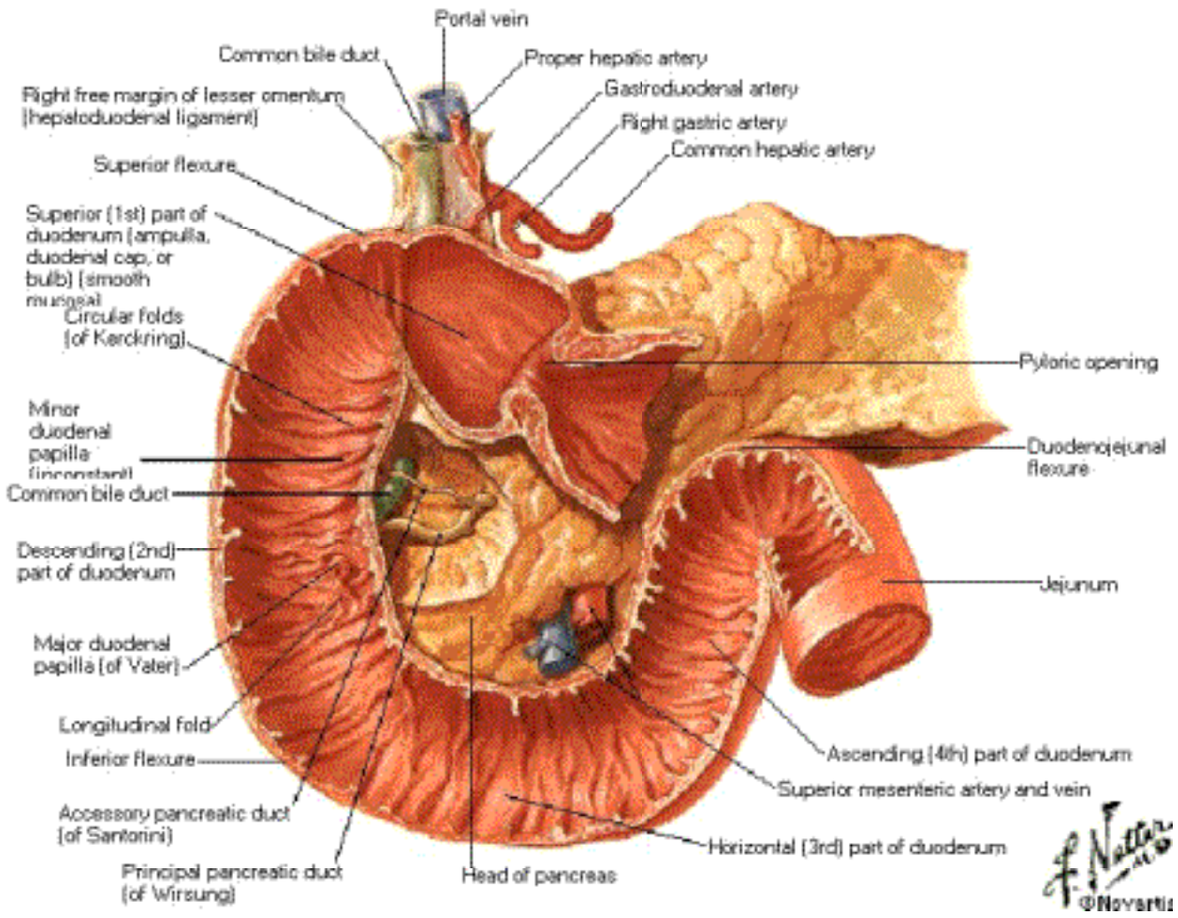
Musculature of Stomach [Continued]



Duodenum in Situ

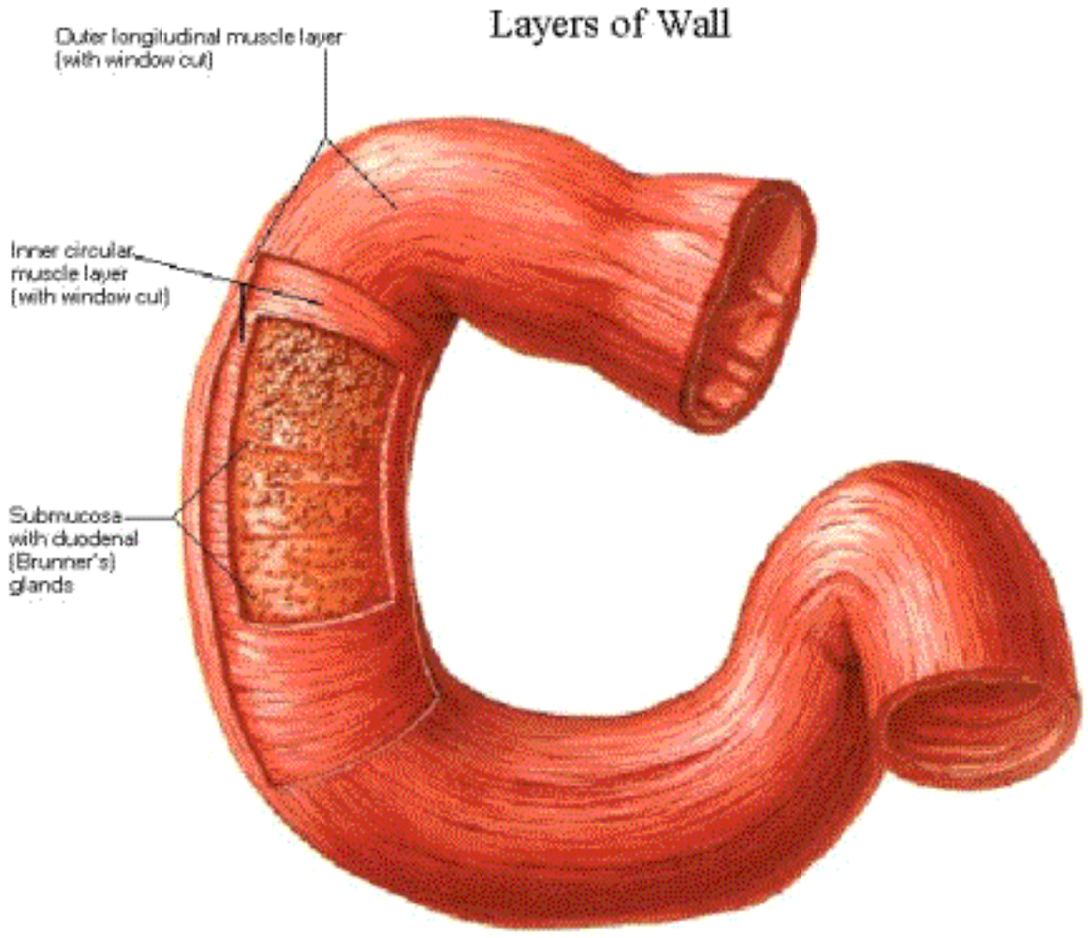


Mucosa of Duodenum

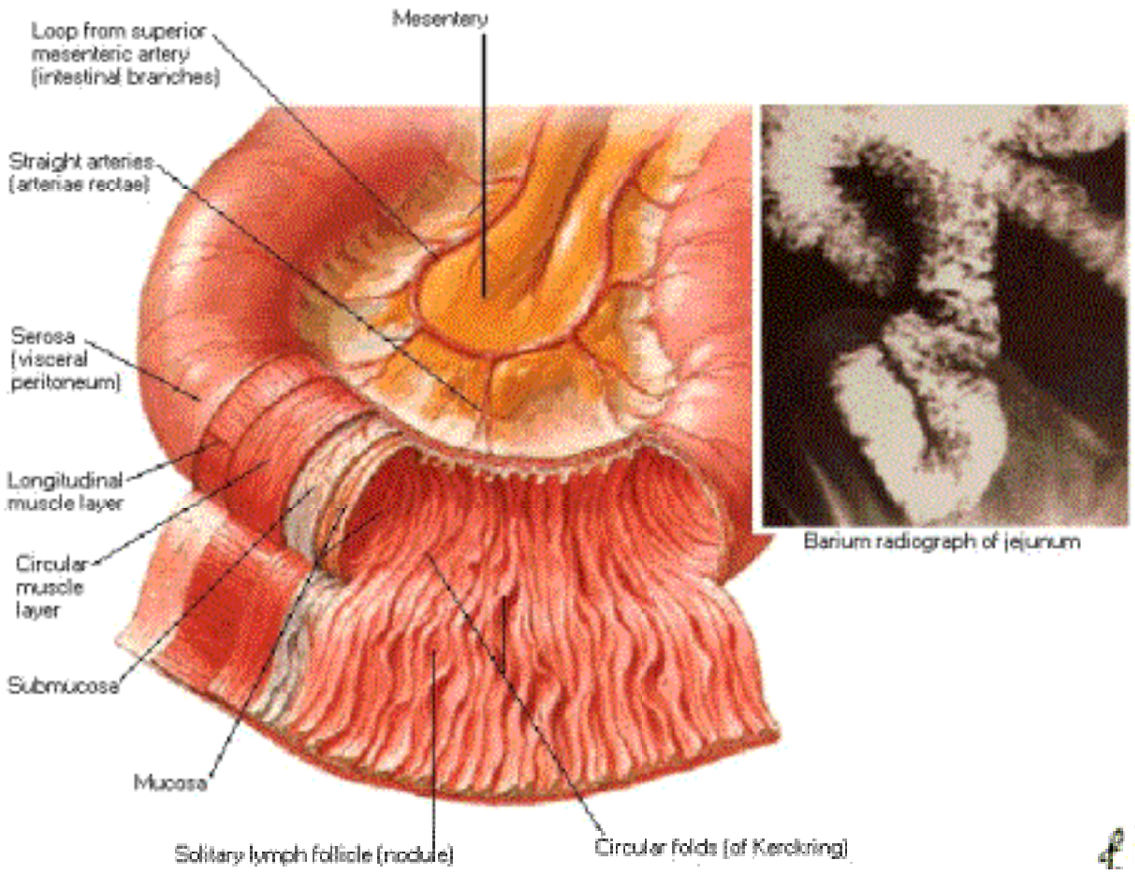


Musculature of Duodenum

Layers of Wall

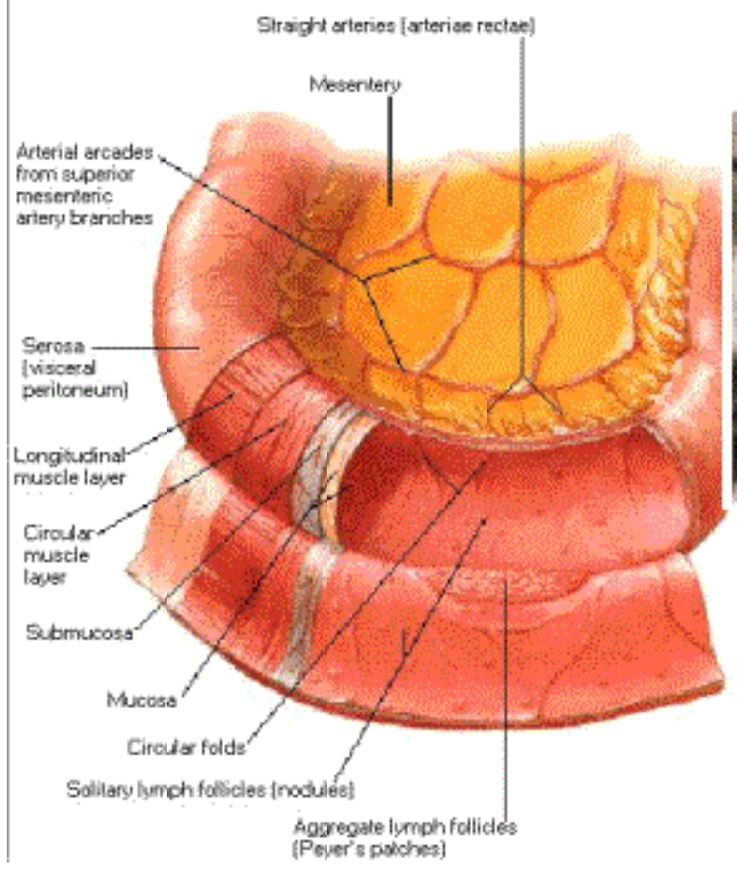


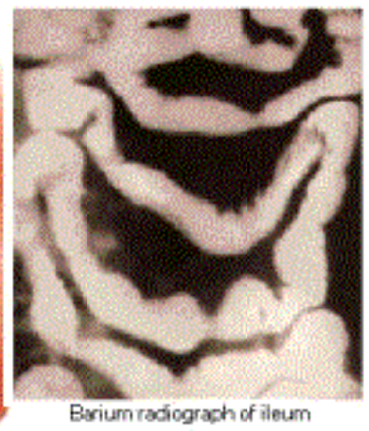
Mucosa and Musculature of Jejunum



Barium radiograph of jejunum

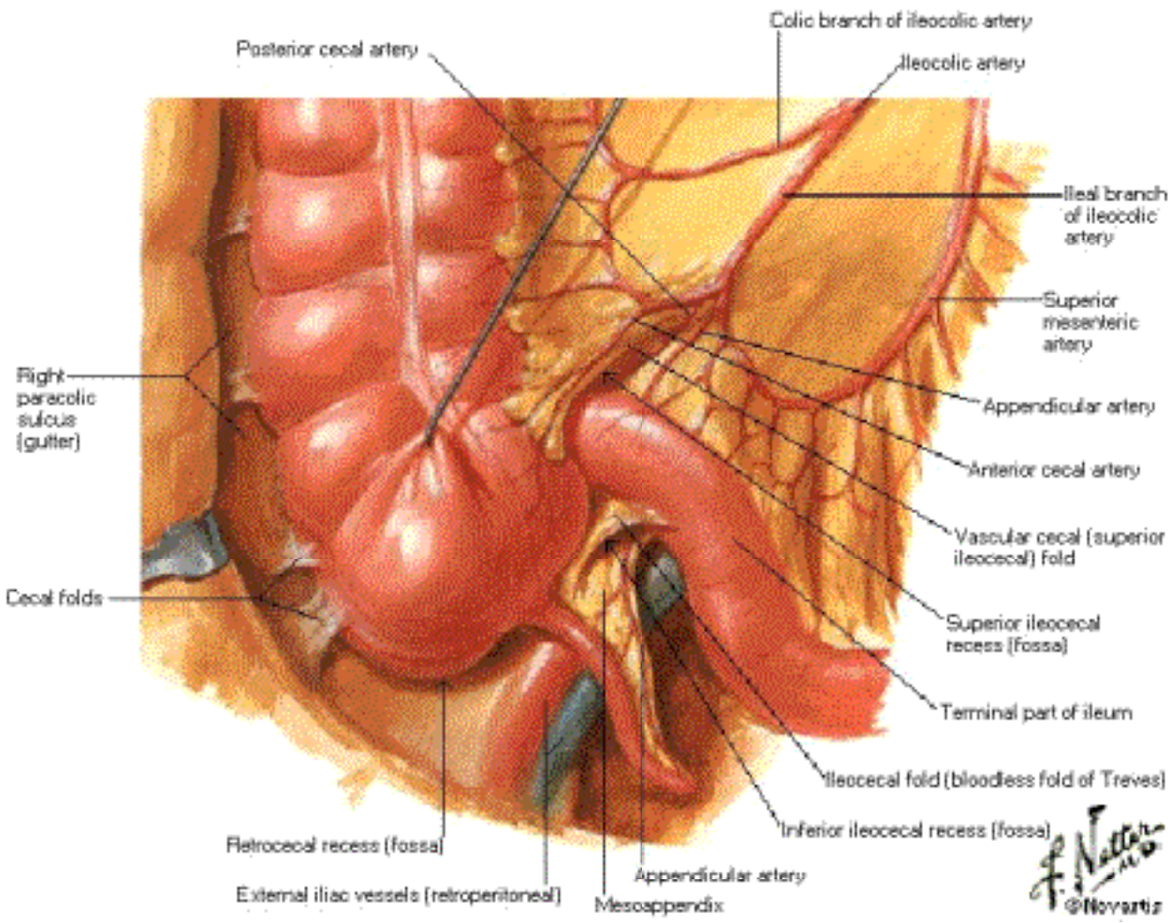
Mucosa and Musculature of Ileum





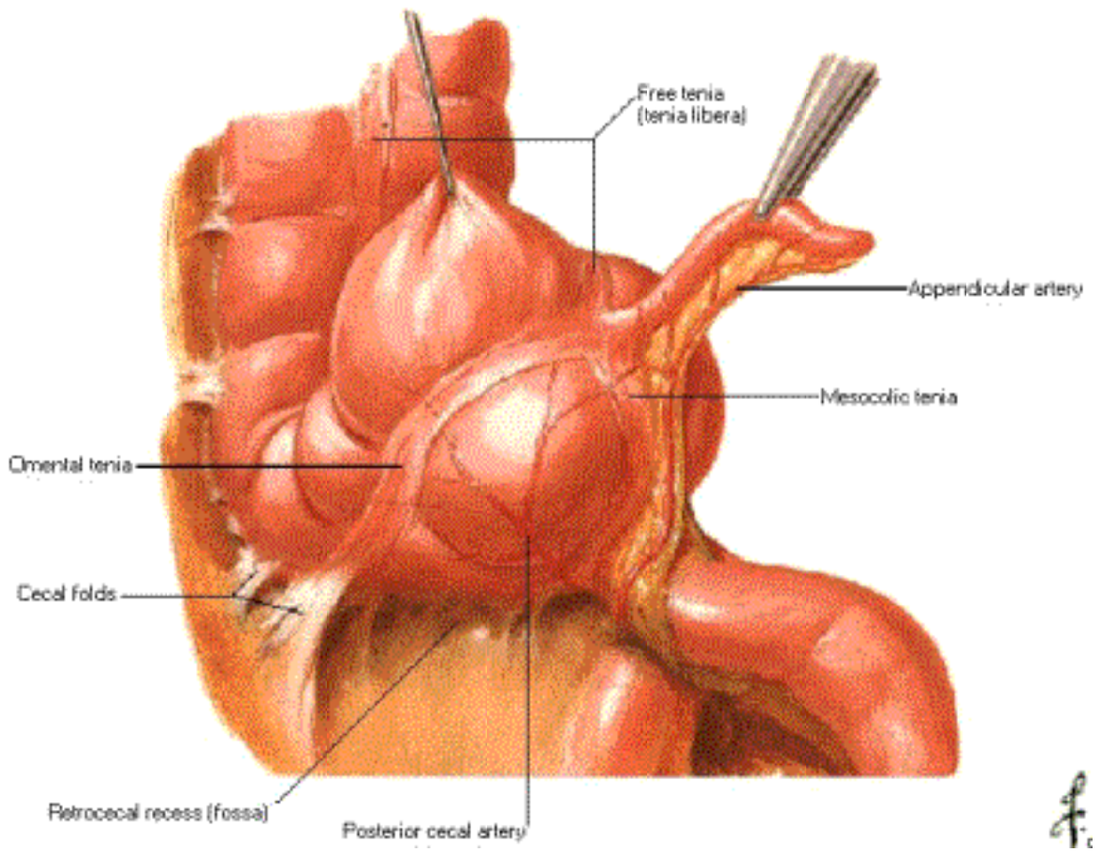
Barium radiograph of ileum

Ileocecal Region



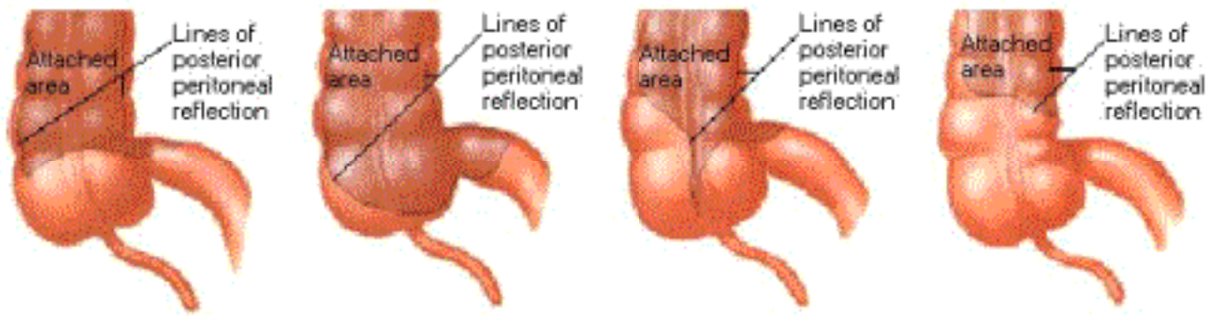
Ileocecal Region

Retrocecal Recess Exposed



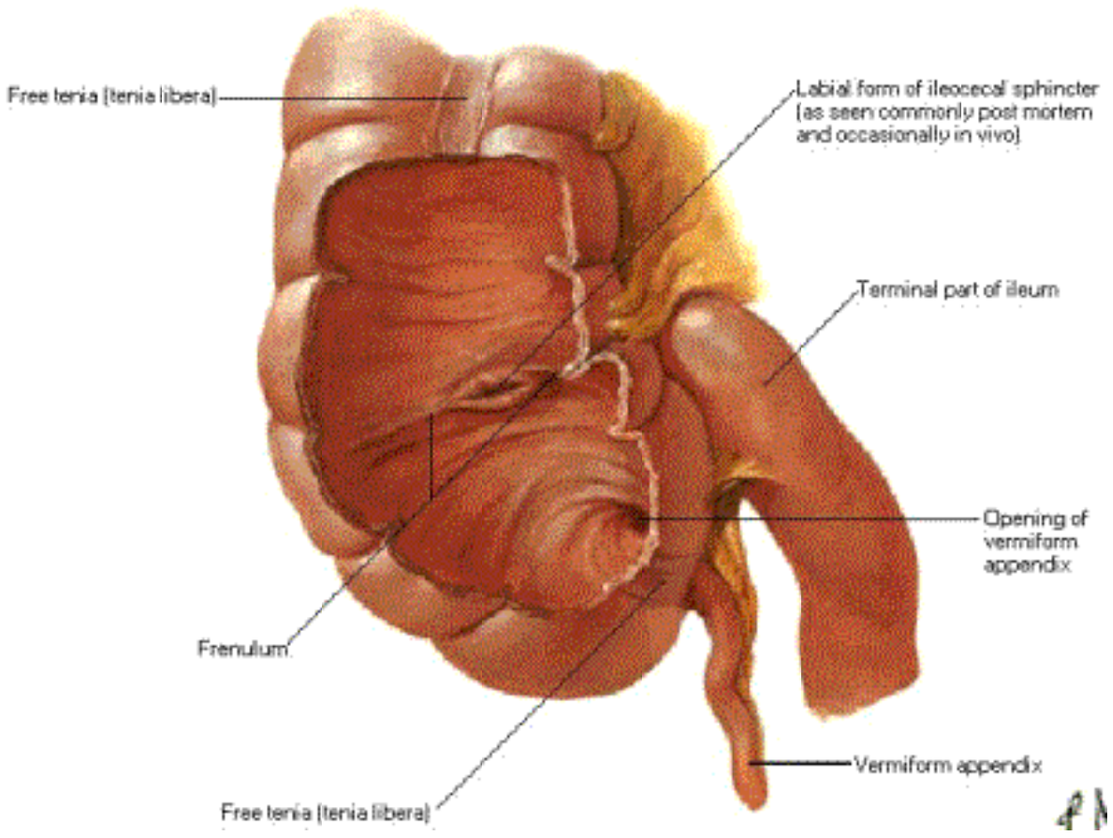
Ileocecal Region

Variations in Posterior Peritoneal Attachment



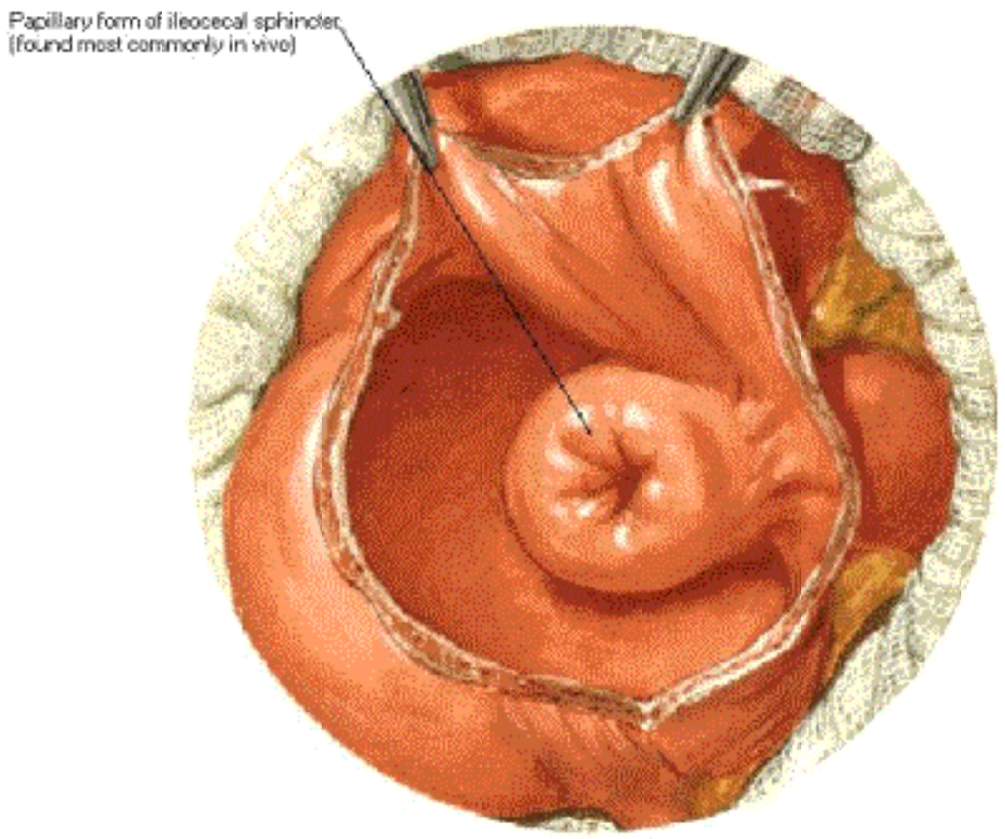
Ileocecal Region

Labial Form of Ileocecal Sphincter



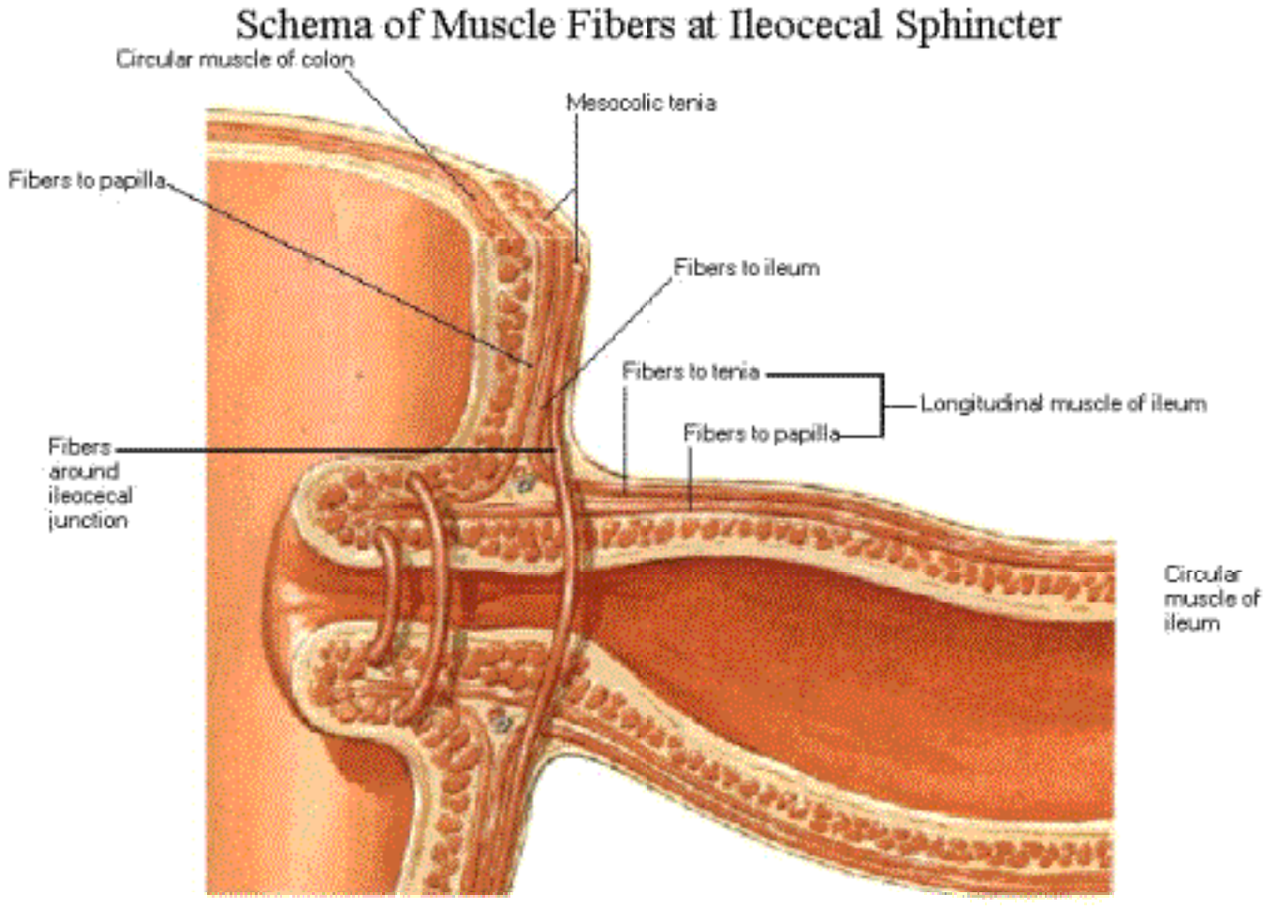
Ileocecal Region

Papillary Form of Ileocecal Sphincter



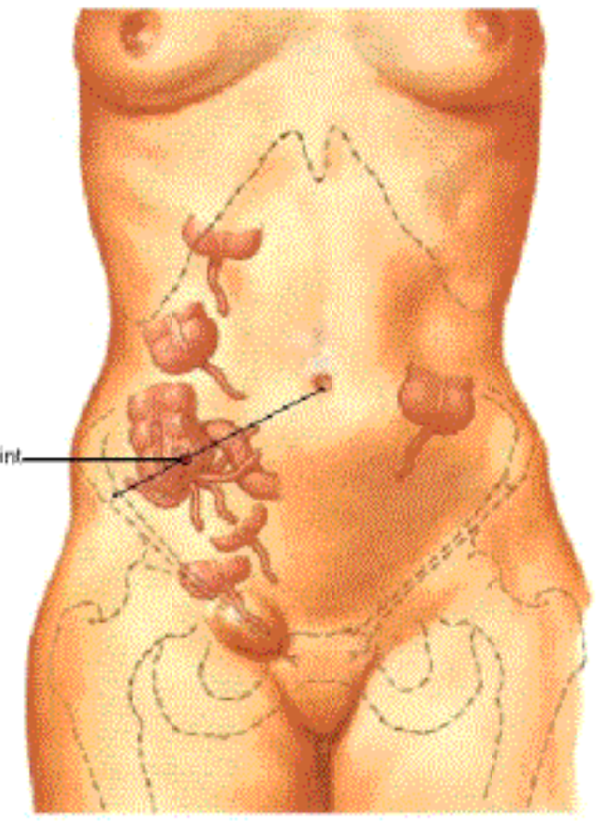
Ileocecal Region

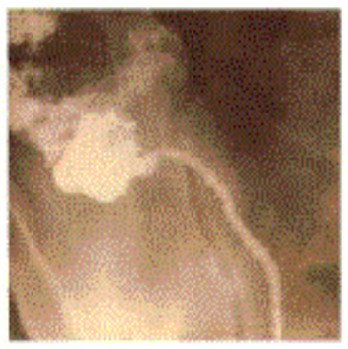
Schema of Muscle Fibers at Ileocecal Sphincter



Vermiform Appendix

Variations in Position

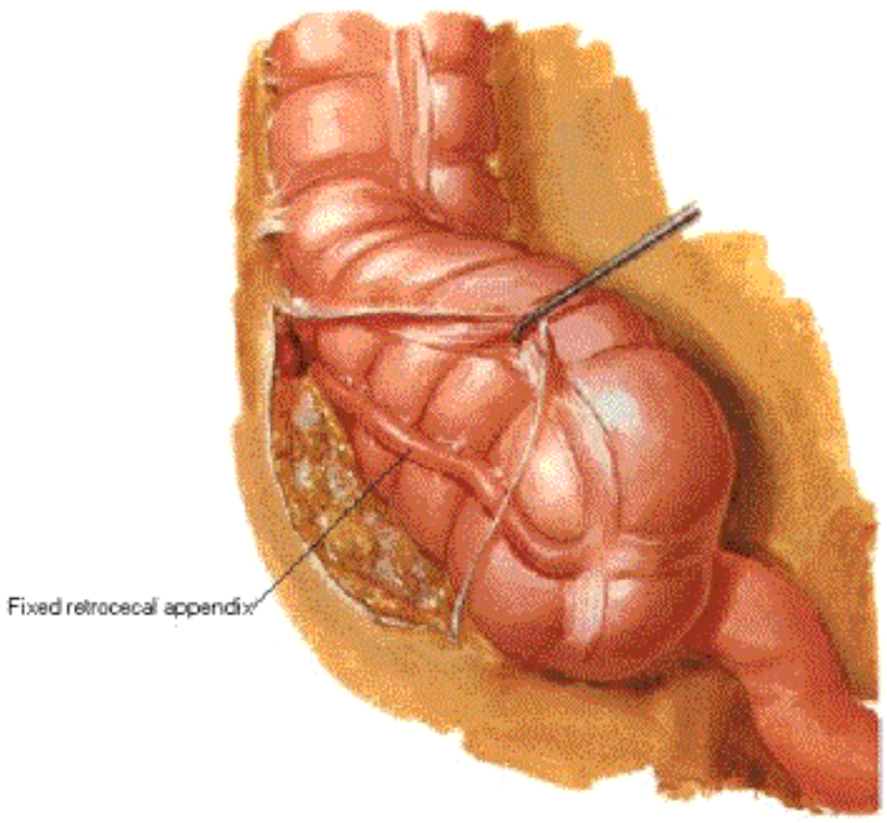




Unusually long appendix extending into pelvis (barium radiograph)

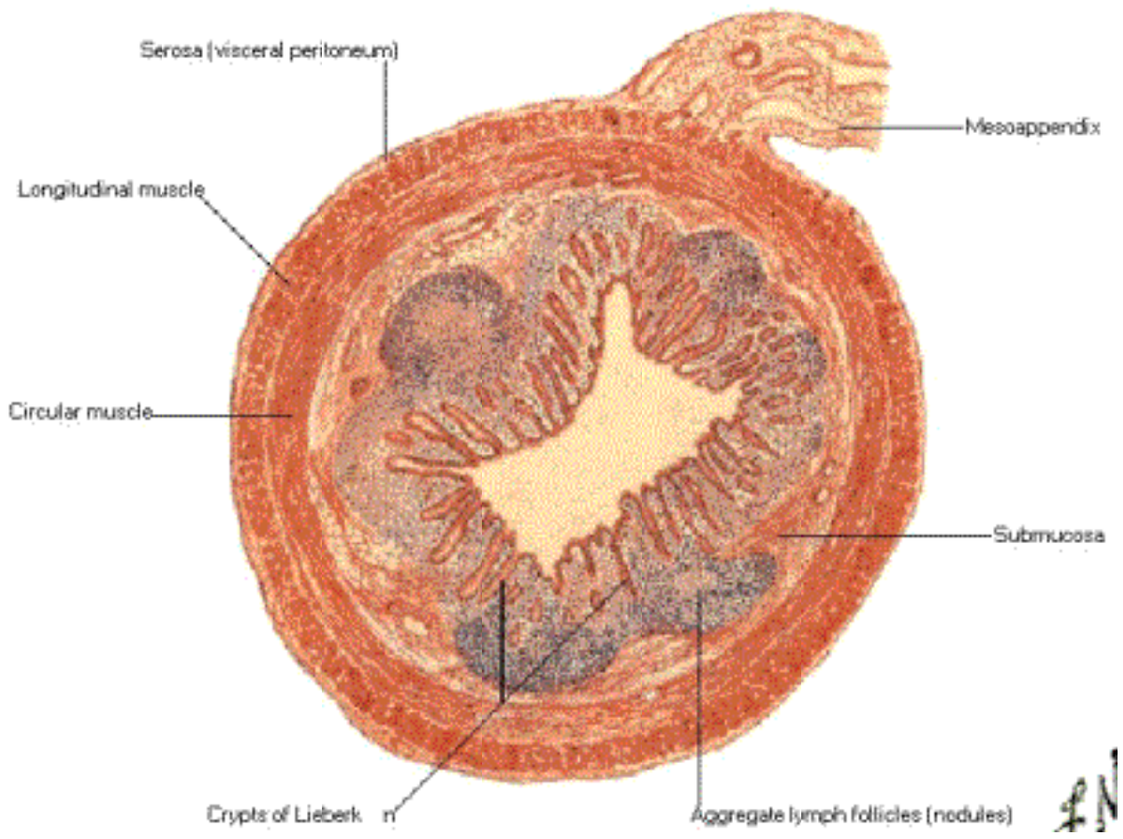
Vermiform Appendix

Fixed Retrocecal

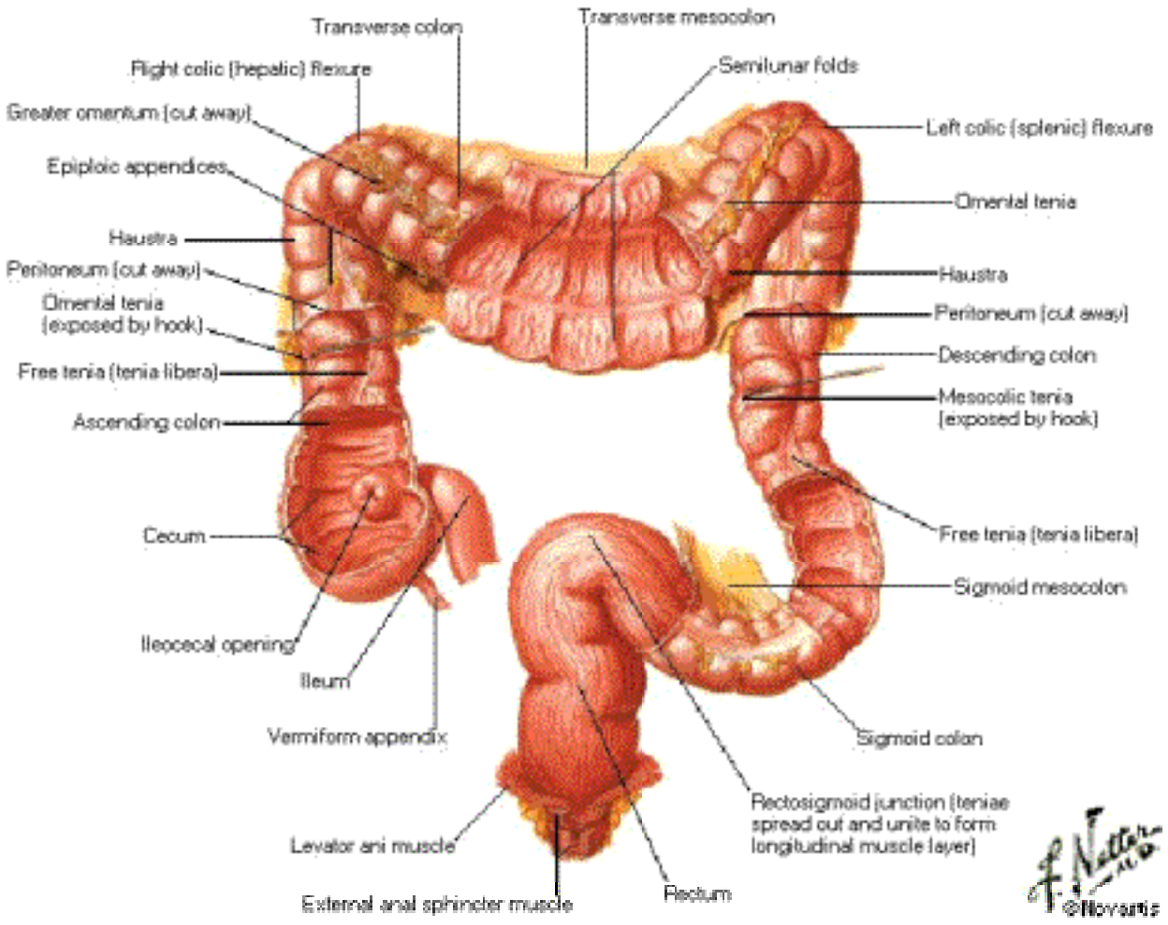


Vermiform Appendix

Cross Section

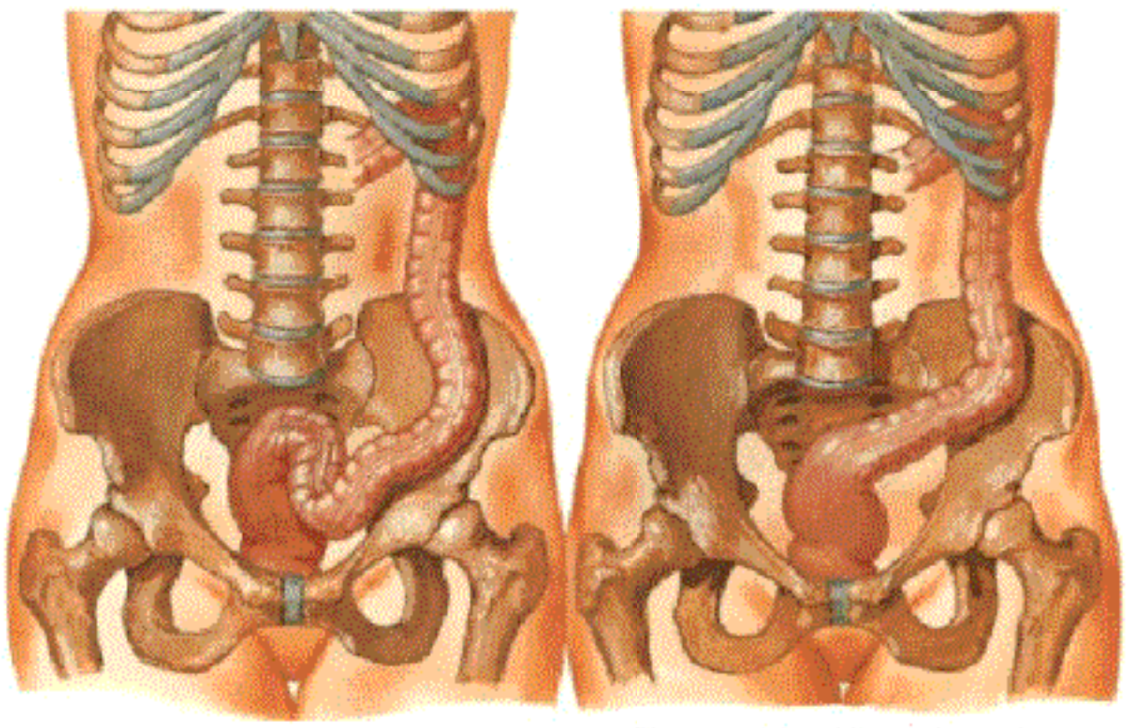


Mucosa and Musculature of Large Intestine



Sigmoid Colon

Variations in Position

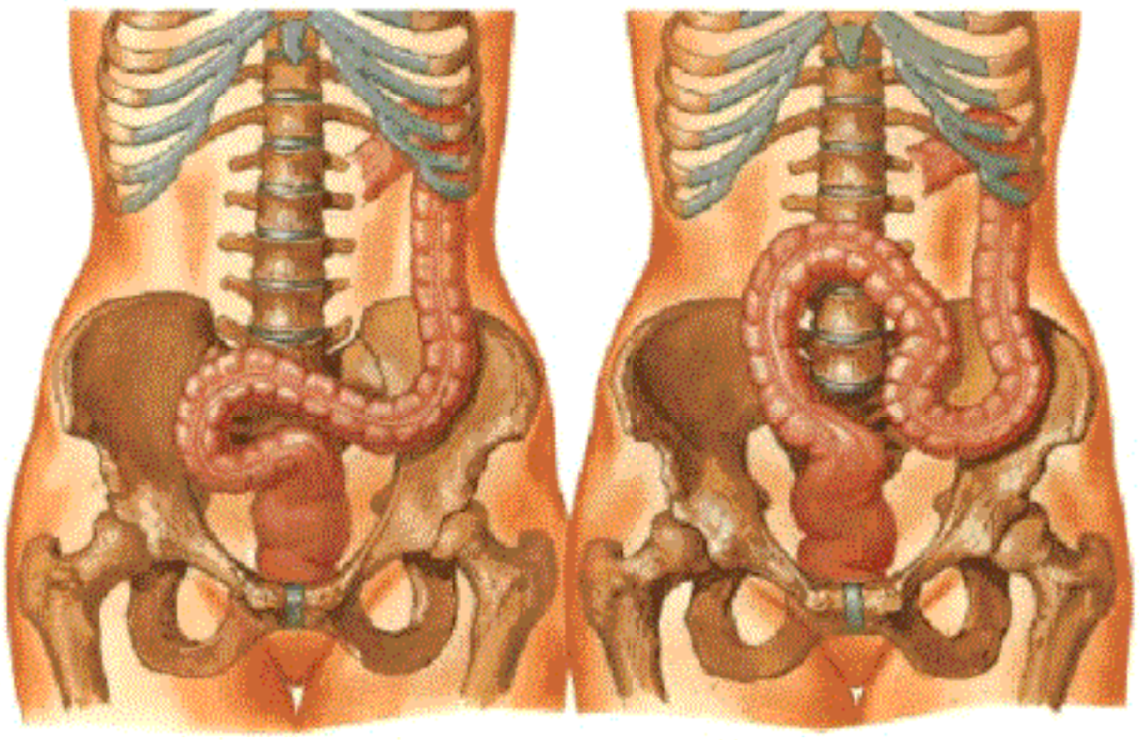


Typical

Short, straight, obliquely into pelvis

Sigmoid Colon [Continued]

Variations in Position

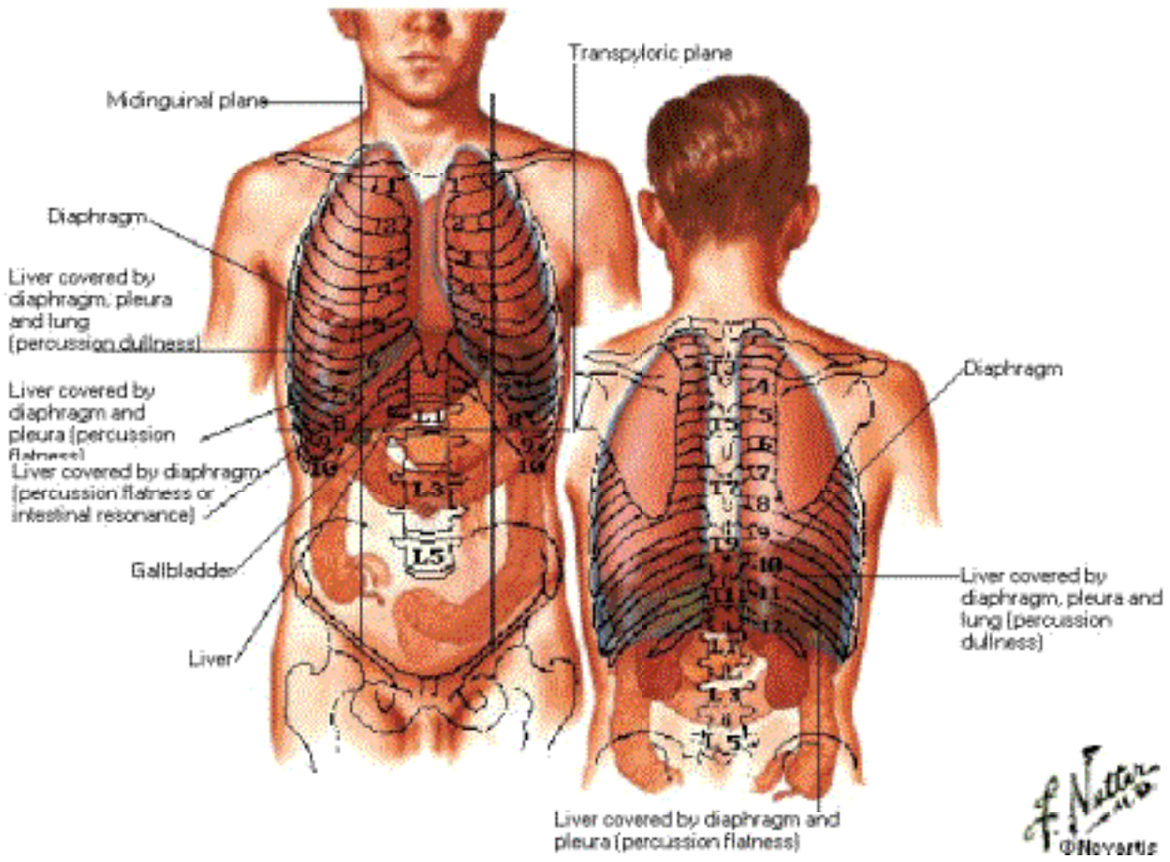


Looping to right side

Ascending high into abdomen

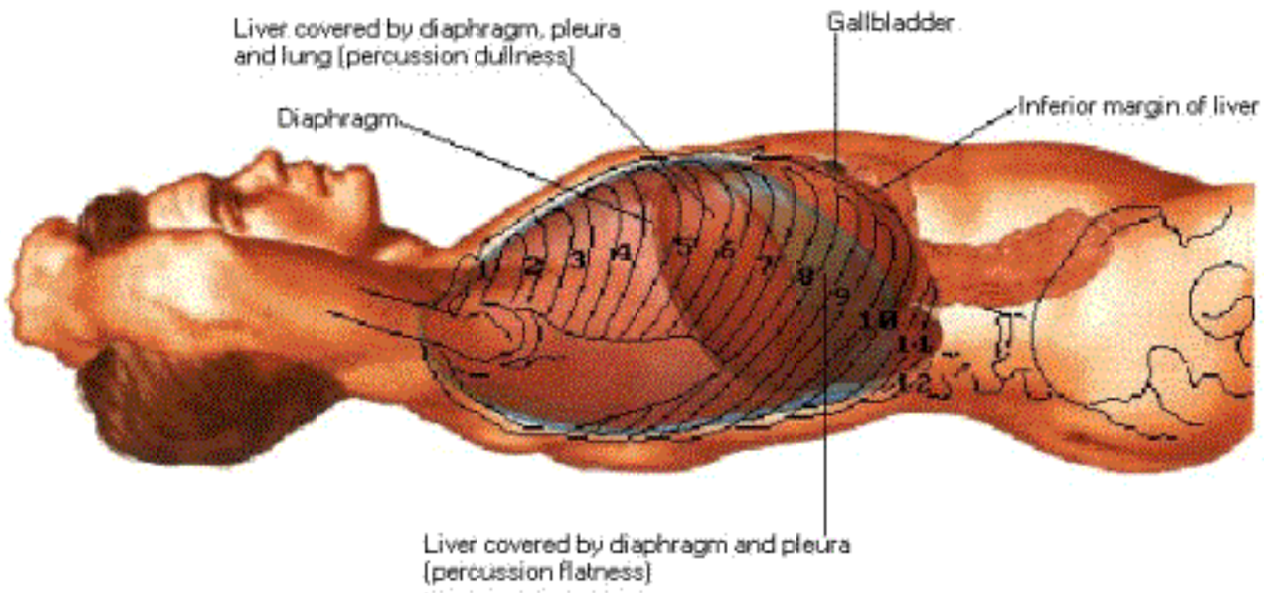
Topography of Liver

Anterior and Posterior Views



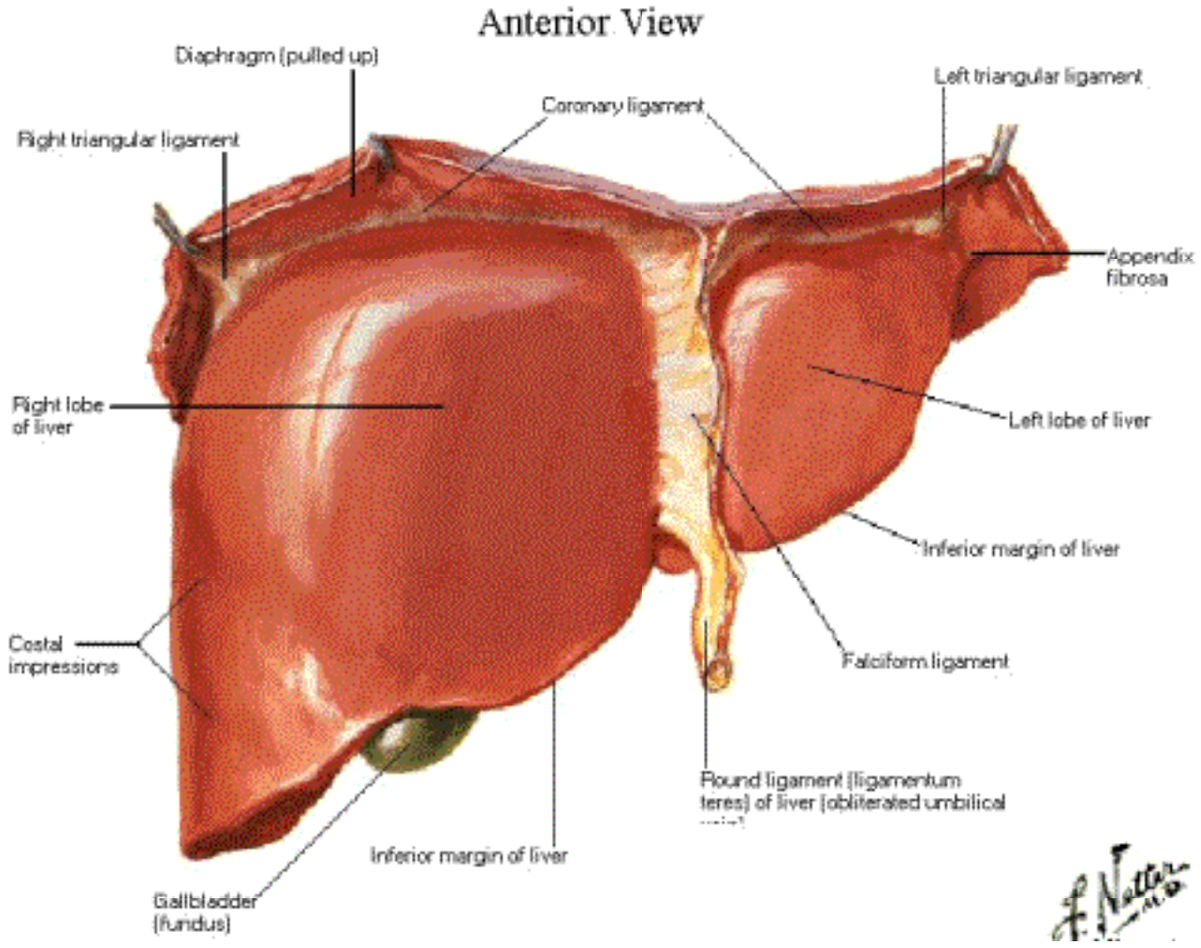
Topography of Liver

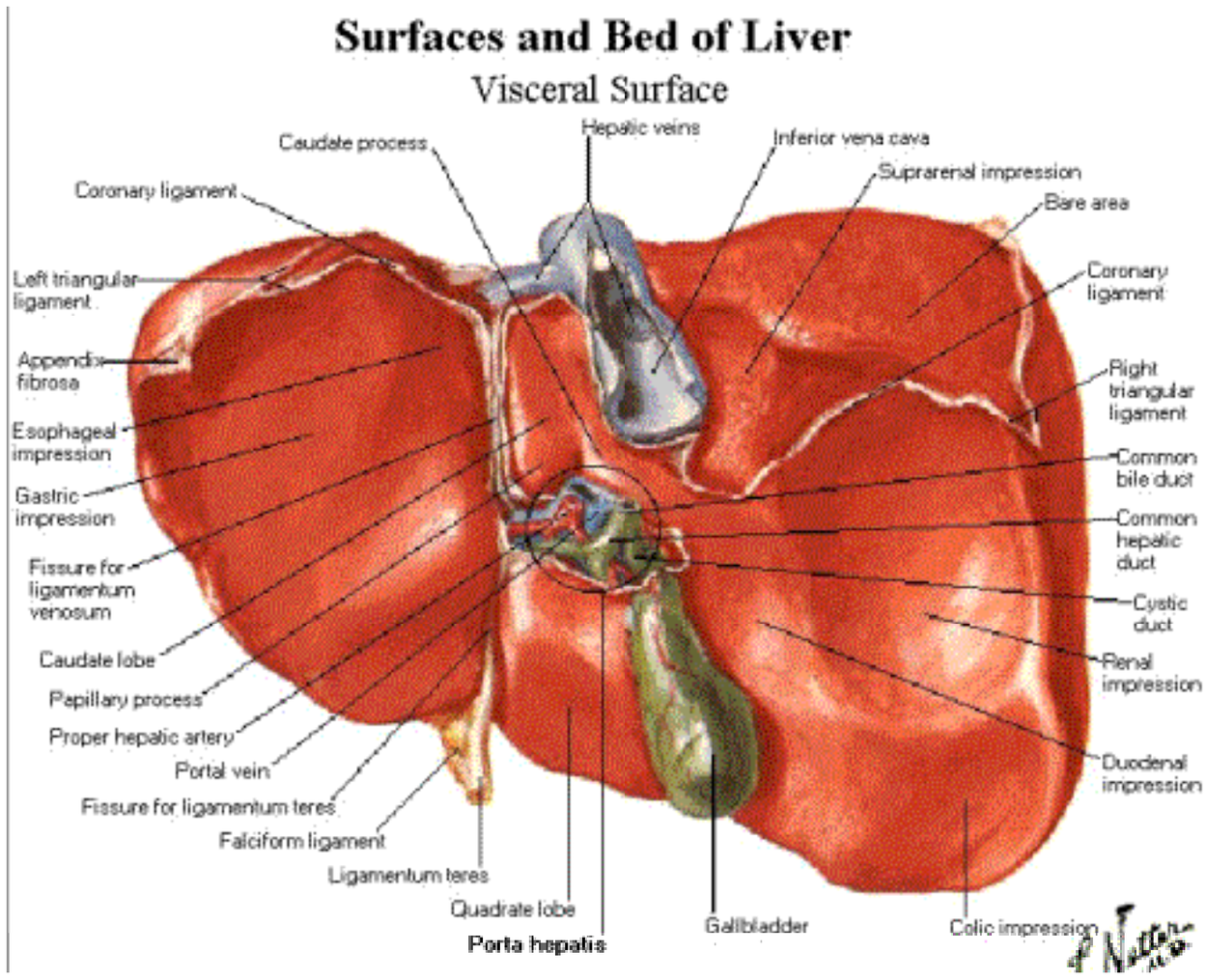
Lateral View



Surfaces and Bed of Liver

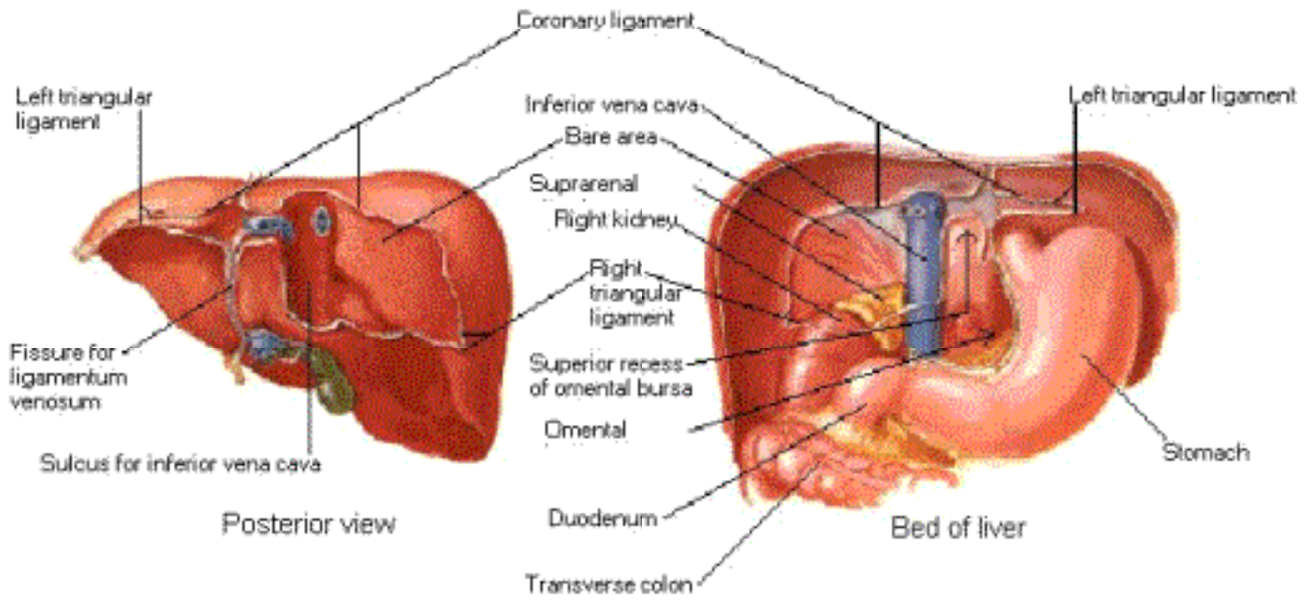
Anterior View



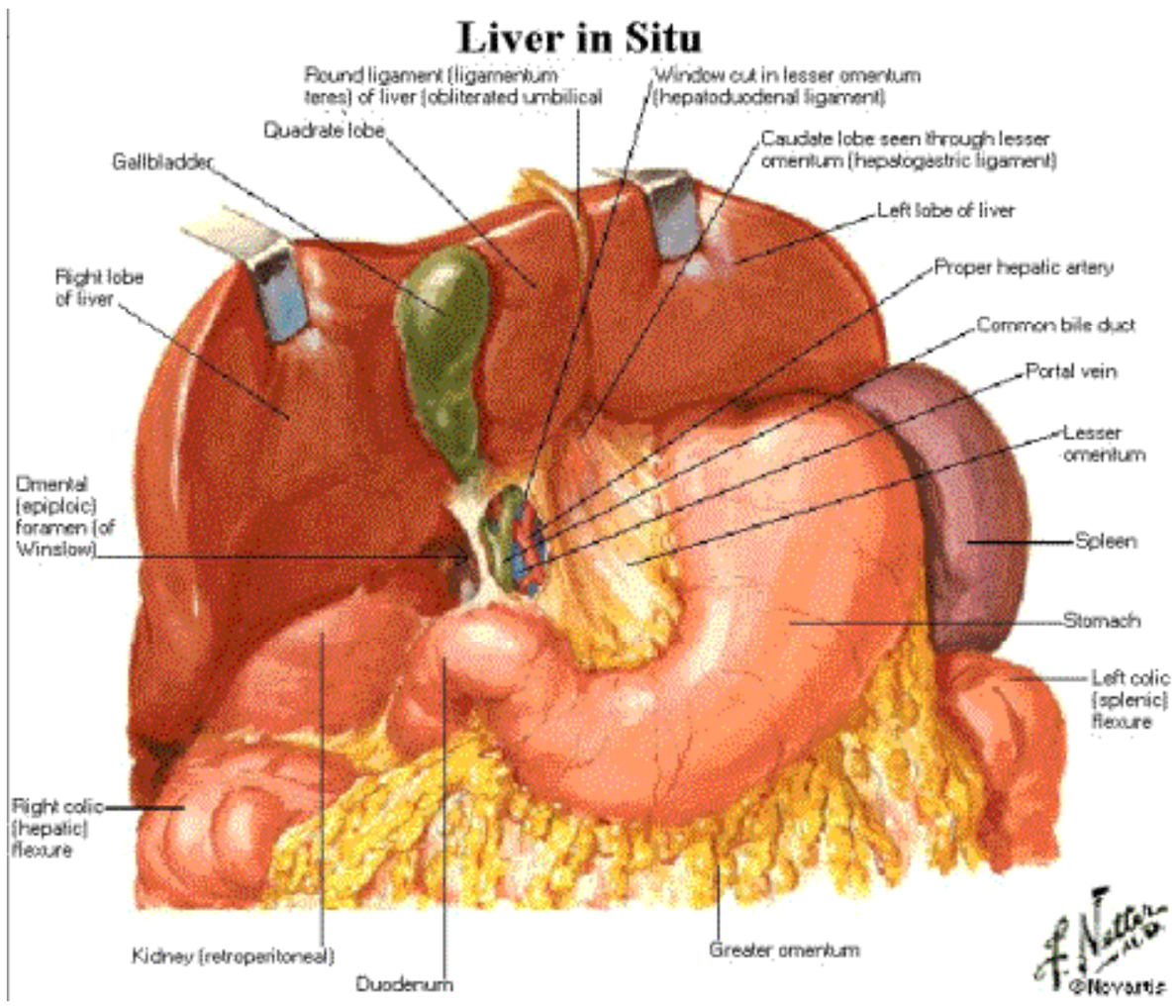

Surfaces and Bed of Liver
Visceral Surface
Caudate process
Hepatic veins
Inferior vena cava
Coronary ligament
Suprarenal impression
Bare area
Left triangular ligament
Coronary ligament
Appendix fibrosa
Right triangular ligament
Esophageal impression
Common bile duct
Gastric impression
Common hepatic duct
Fissure for ligamentum venosum
Cystic duct
Caudate lobe
Renal impression
Papillary process
Proper hepatic artery
Duodenal impression
Portal vein
Fissure for ligamentum teres
Falciform ligament
Ligamentum teres
Quadrate lobe
Porta hepatis
Gallbladder
Colic impression

Surfaces and Bed of Liver

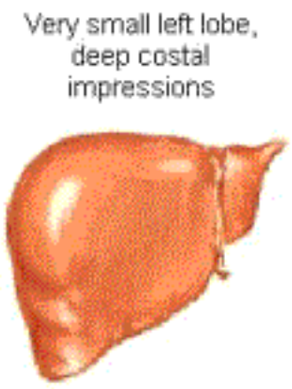
Posterior View and Bed of Liver



Liver in Situ



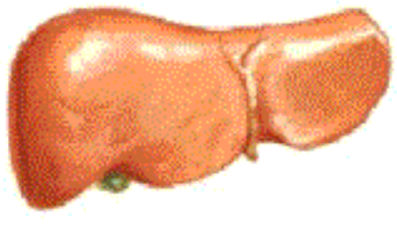
Variations in Form of Liver



Very small left lobe, deep costal impressions



Complete atrophy of left lobe (left portal vein compression)



Transverse, "saddlelike" liver, relatively large left lobe



"Tonguelike" process of right lobe



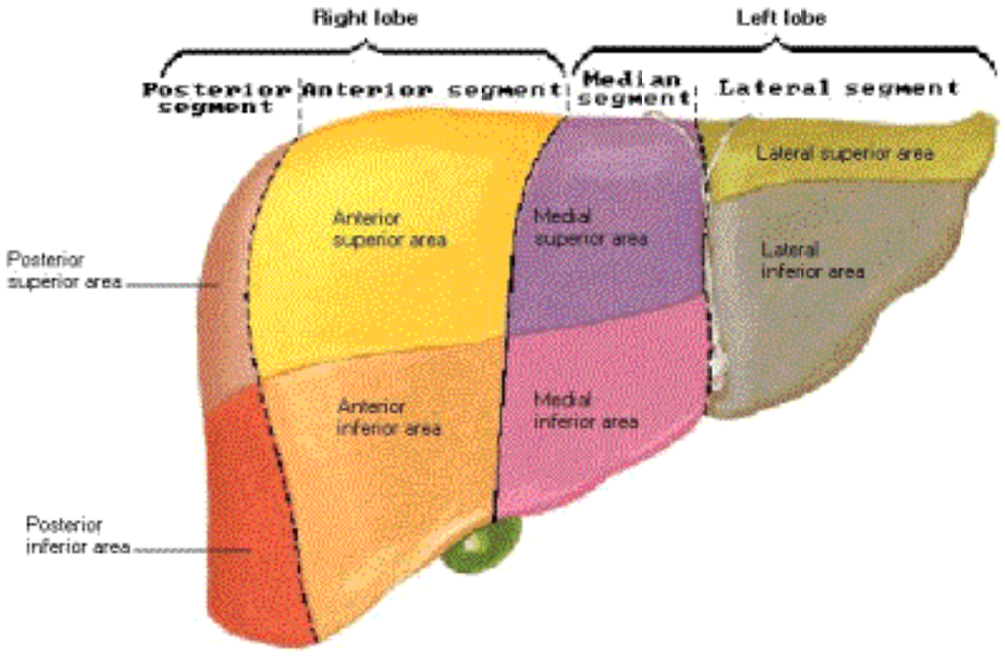
Very deep renal impression and "corset constriction"



Diaphragmatic grooves

Liver Segments and Lobules

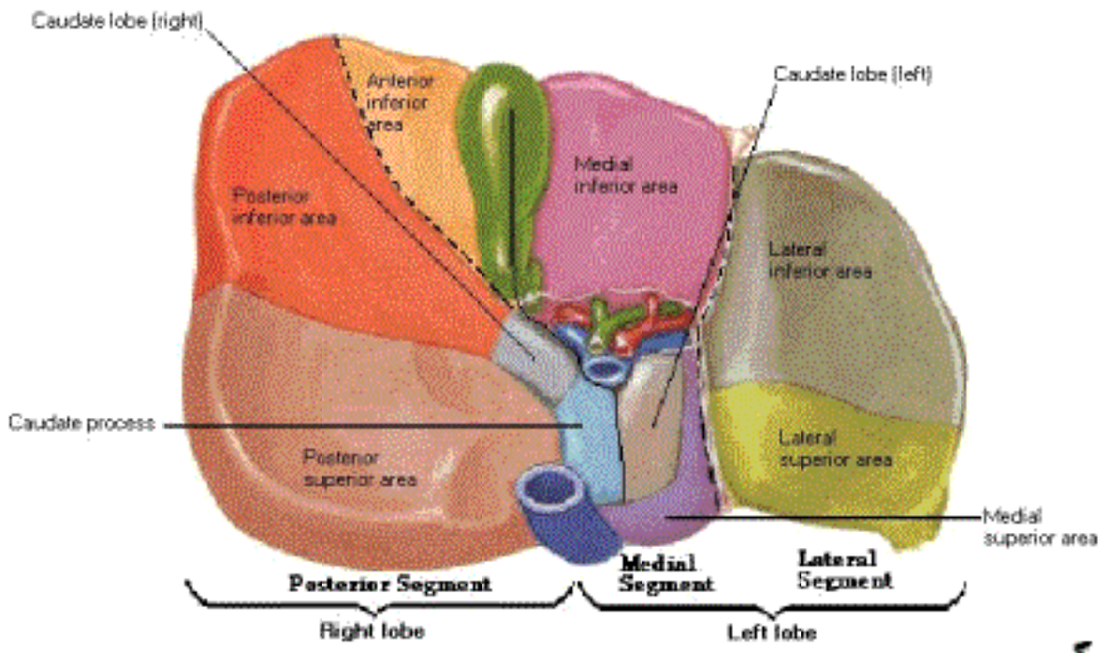
Parietal Surface



Division into segments is based upon ramifications of bile ducts and hepatic vessels. It does not entirely correspond with division into lobes

Liver Segments and Lobules

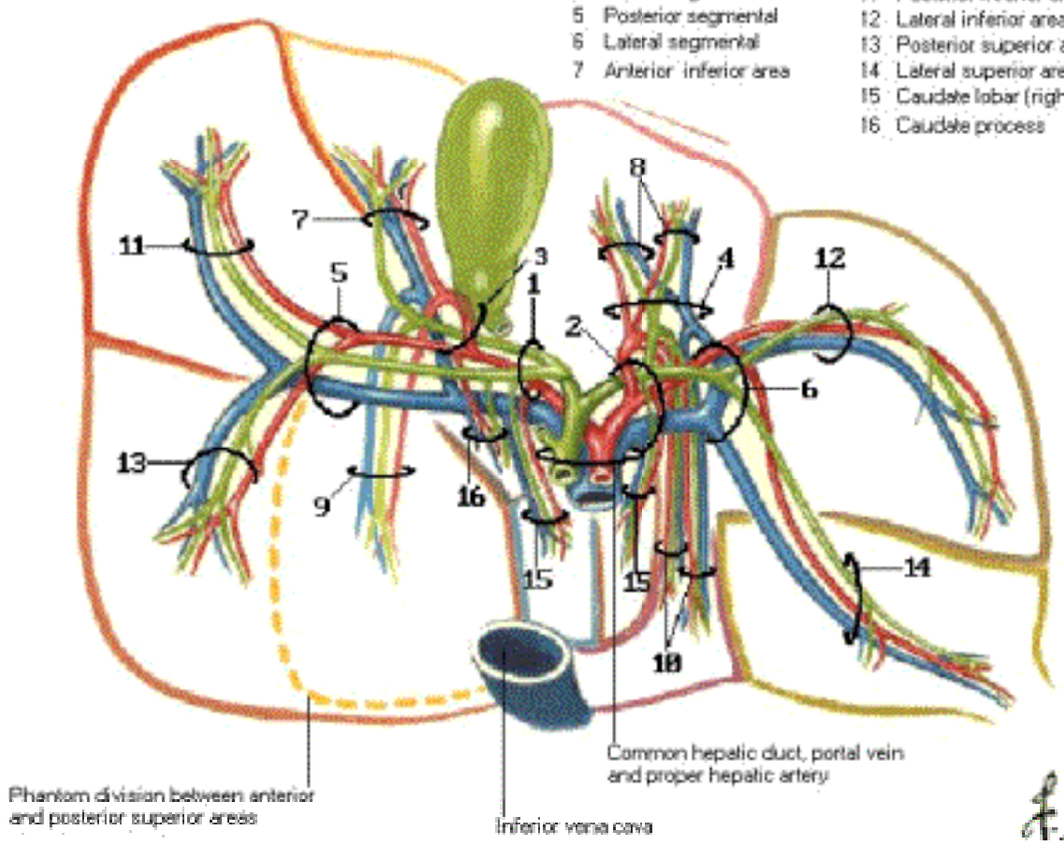
Visceral Surface



Division into segments is based upon ramifications of bile ducts and hepatic vessels. It does not entirely correspond with division into lobes

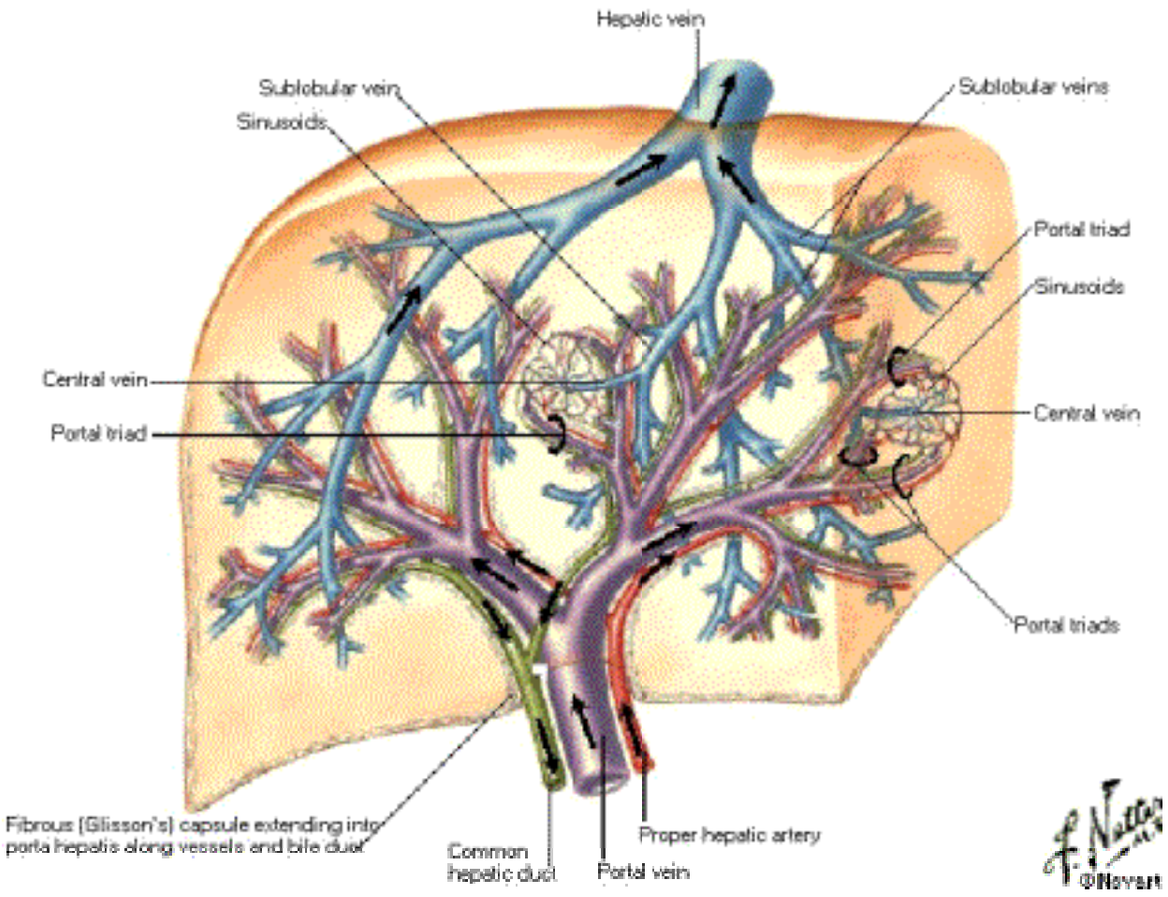
Distribution of Vessels and Ducts of Liver

1 Right lobar
2 Left lobar
3 Anterior segmental
4 Medial segmental
5 Posterior segmental
6 Lateral segmental
7 Anterior inferior area
8 Medial inferior area
9 Anterior superior area
10 Medial superior area
11 Posterior inferior area
12 Lateral inferior area
13 Posterior superior area
14 Lateral superior area
15 Caudate lobar (right and left)
16 Caudate process

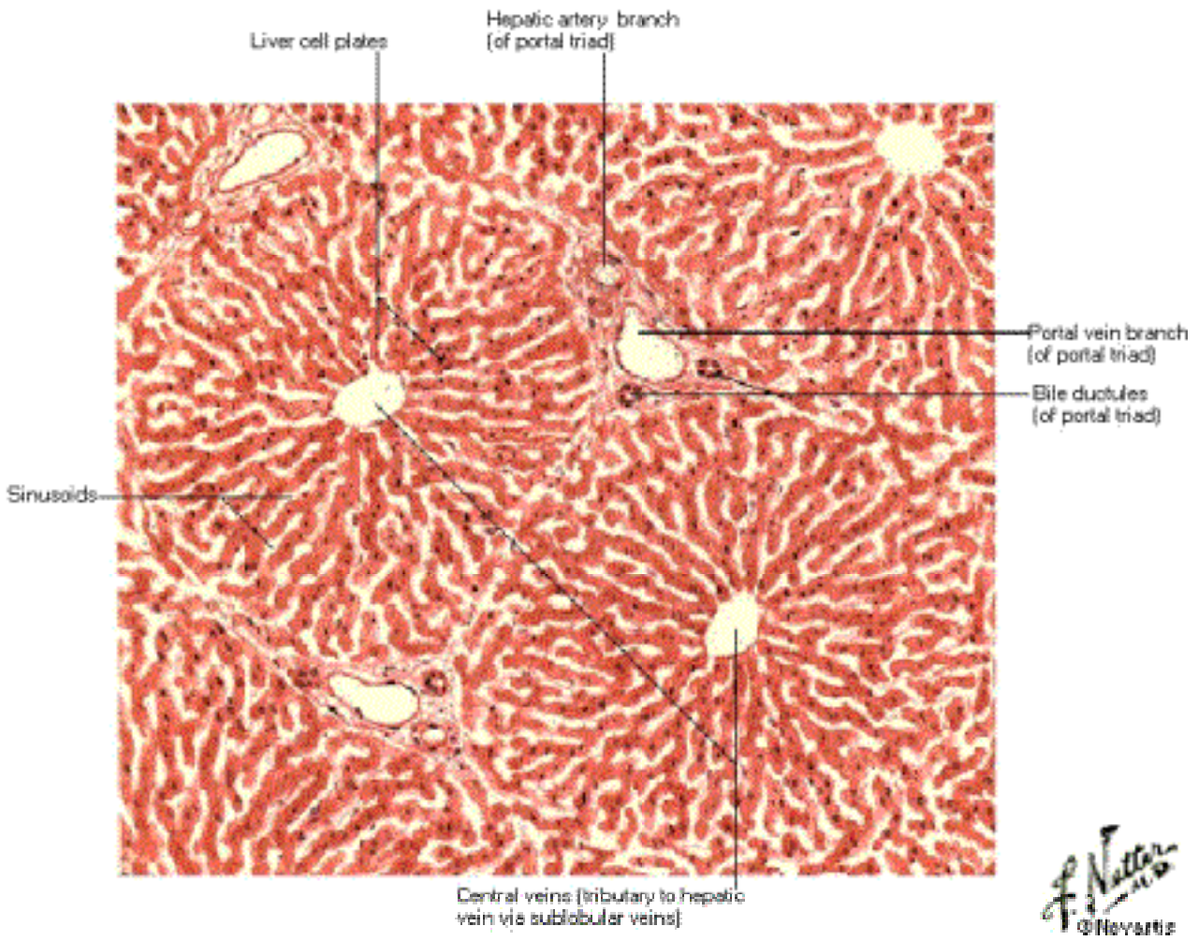


Intrahepatic Vascular and Duct Systems

Schema



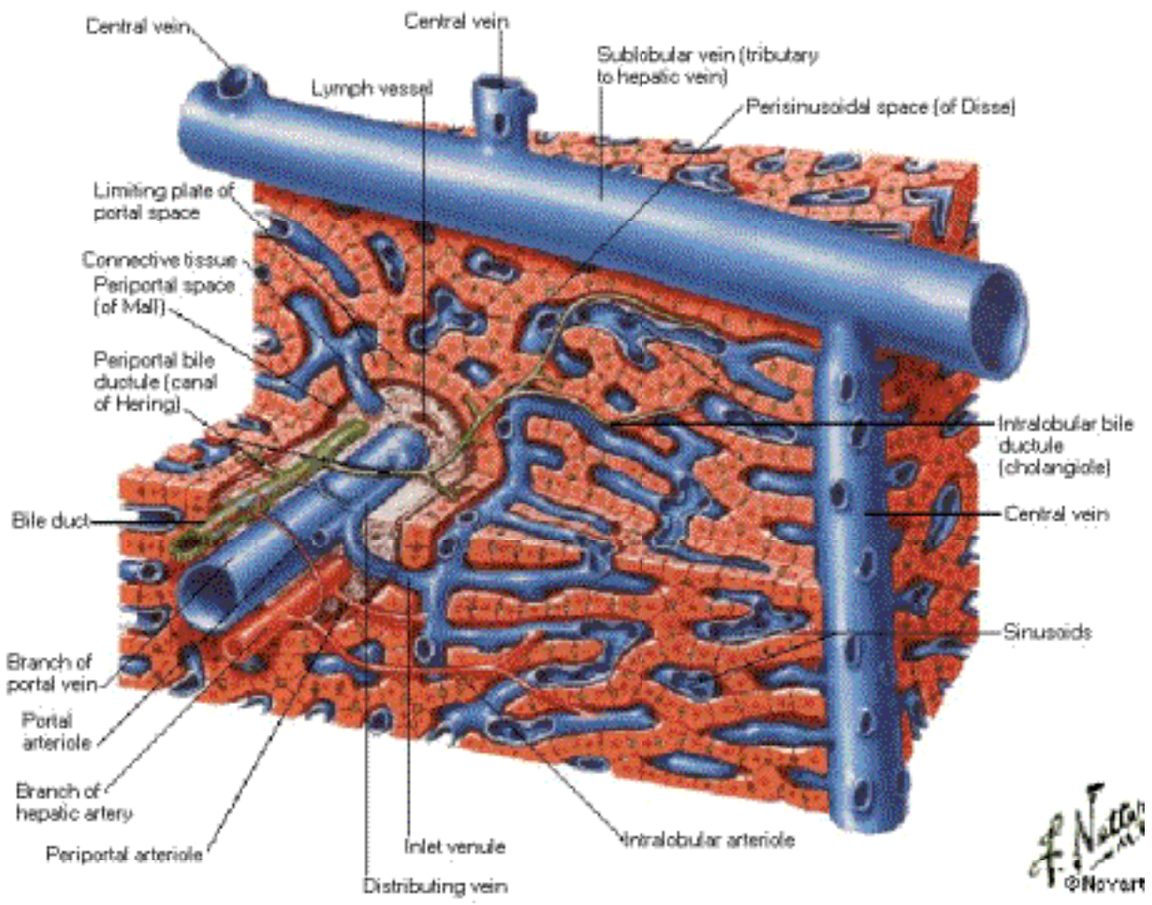
Normal Lobular Pattern of Liver



©Novartis

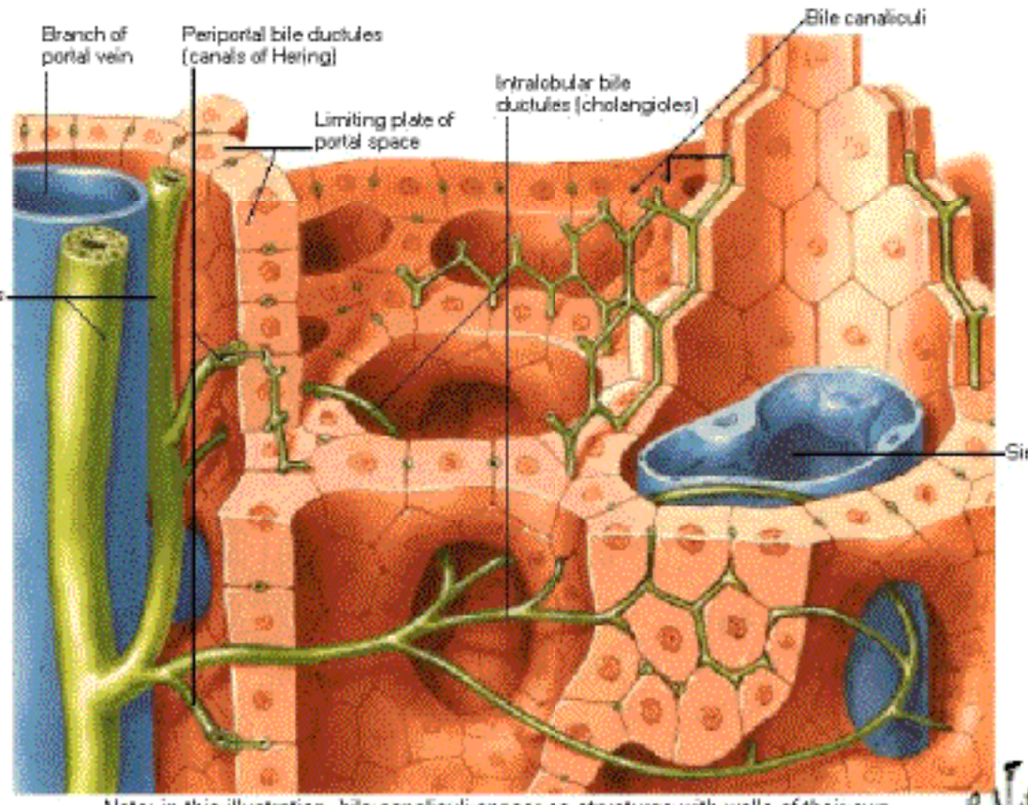
Liver Structure

Schema



Intrahepatic Biliary System

Schema

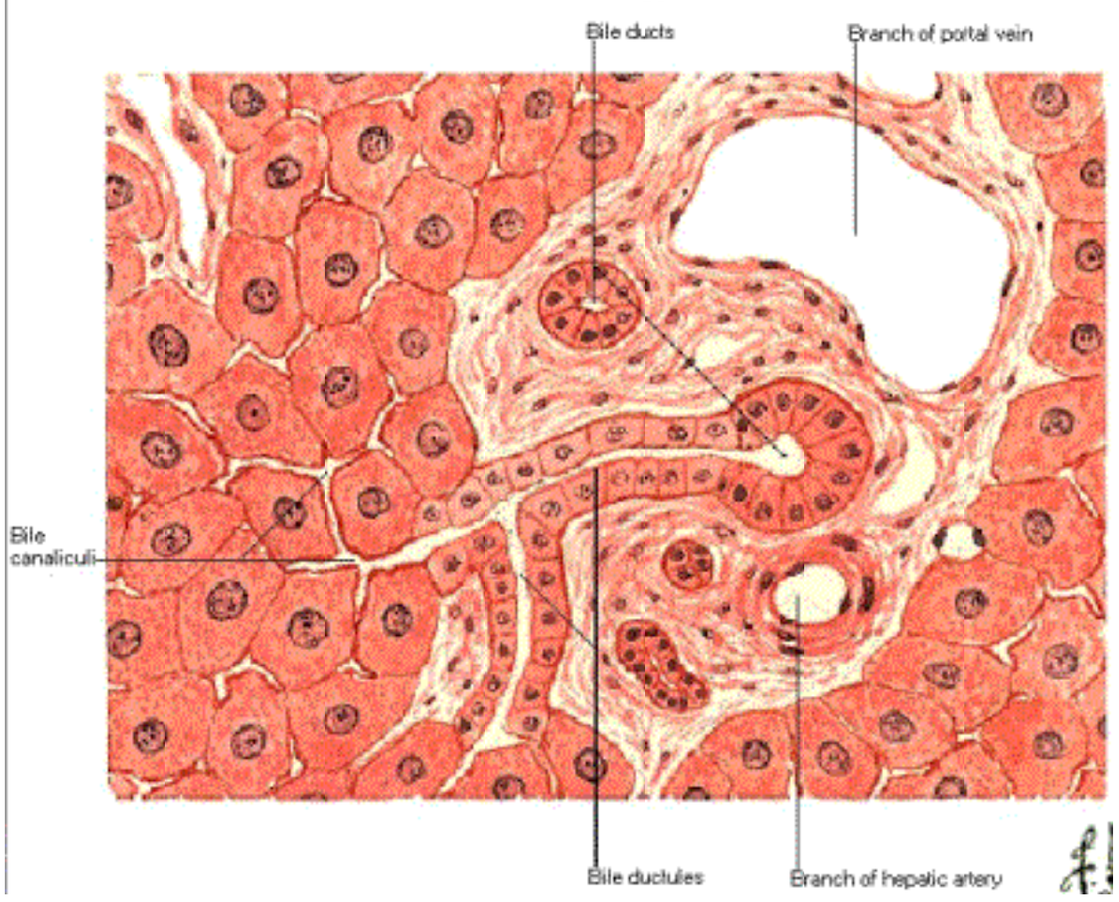


Note: in this illustration, bile canaliculi appear as structures with walls of their own. However, as shown in image 275B, boundaries of canaliculi are actually a specialization of surface membranes of adjoining liver parenchymal cells

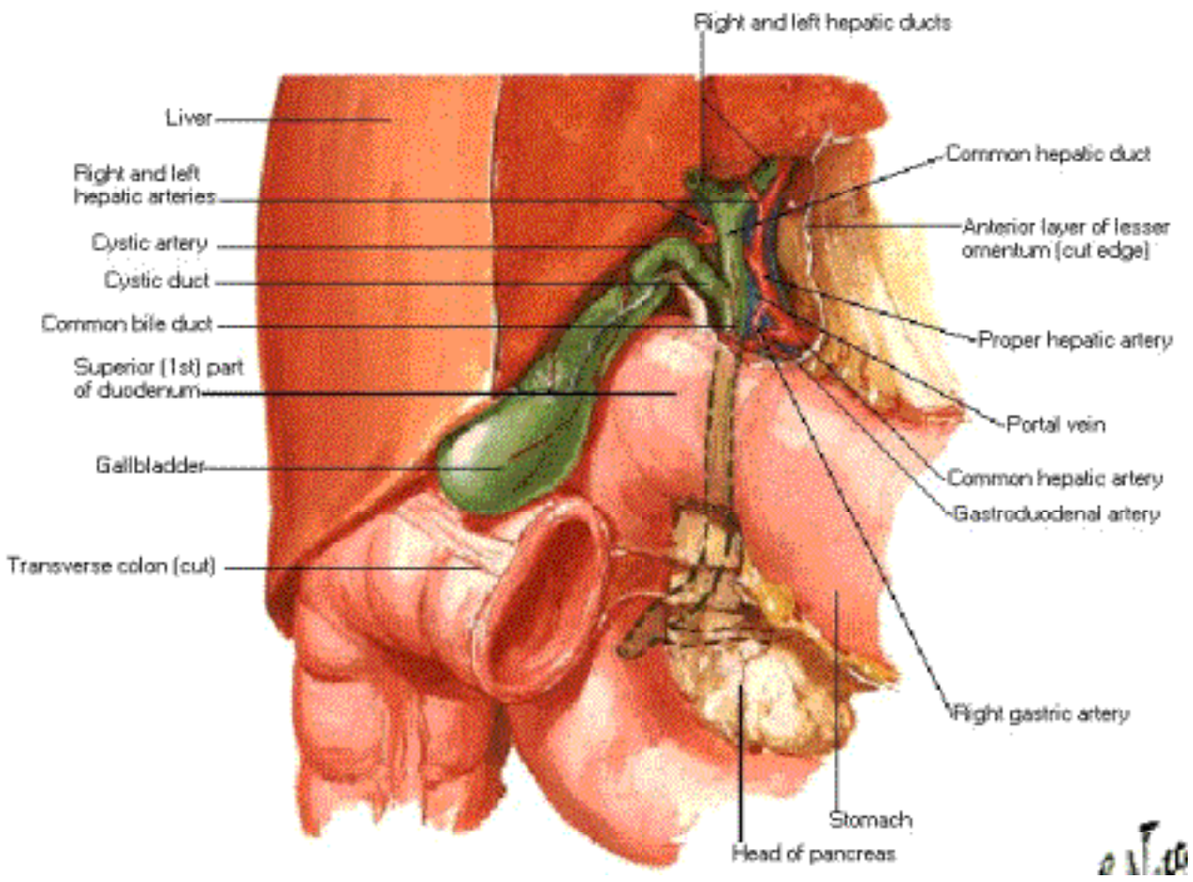
©Novartis

Intrahepatic Biliary System

Histology

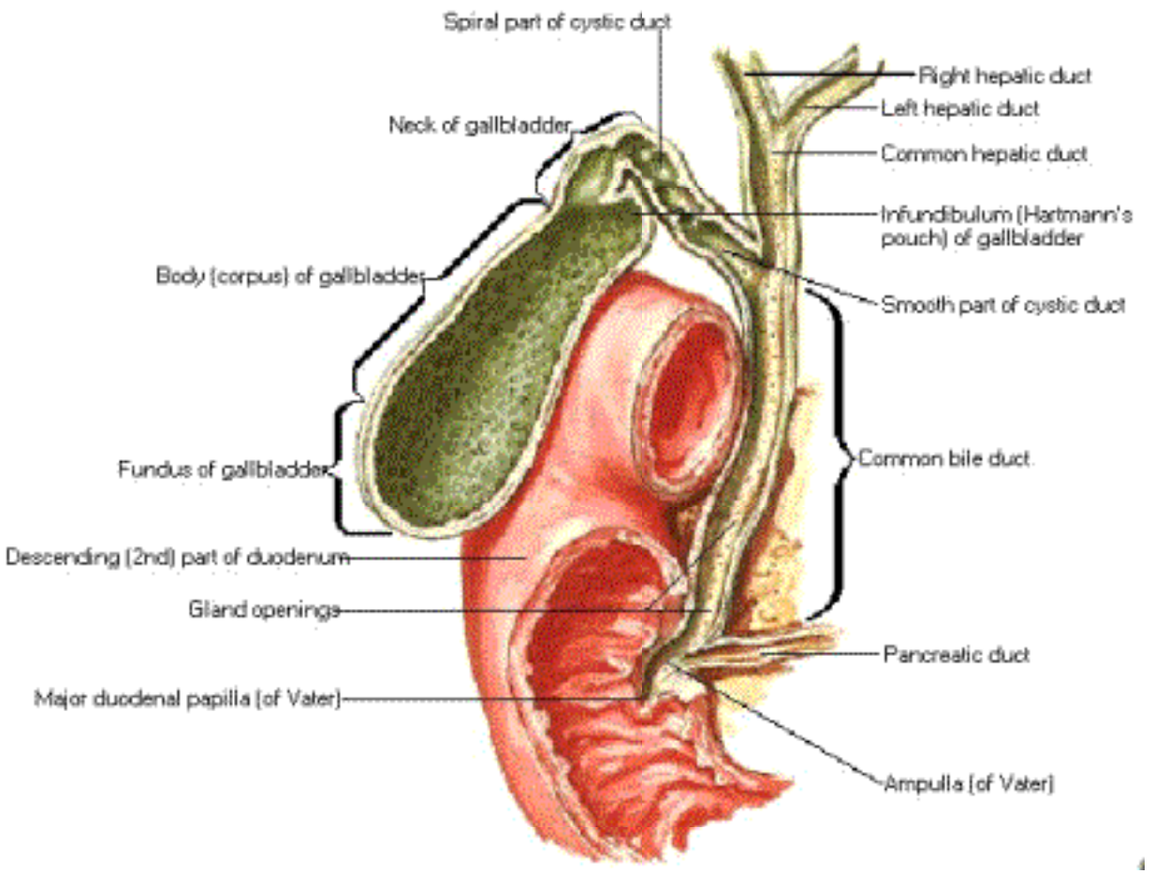


Gallbladder and Extrahepatic Bile Ducts

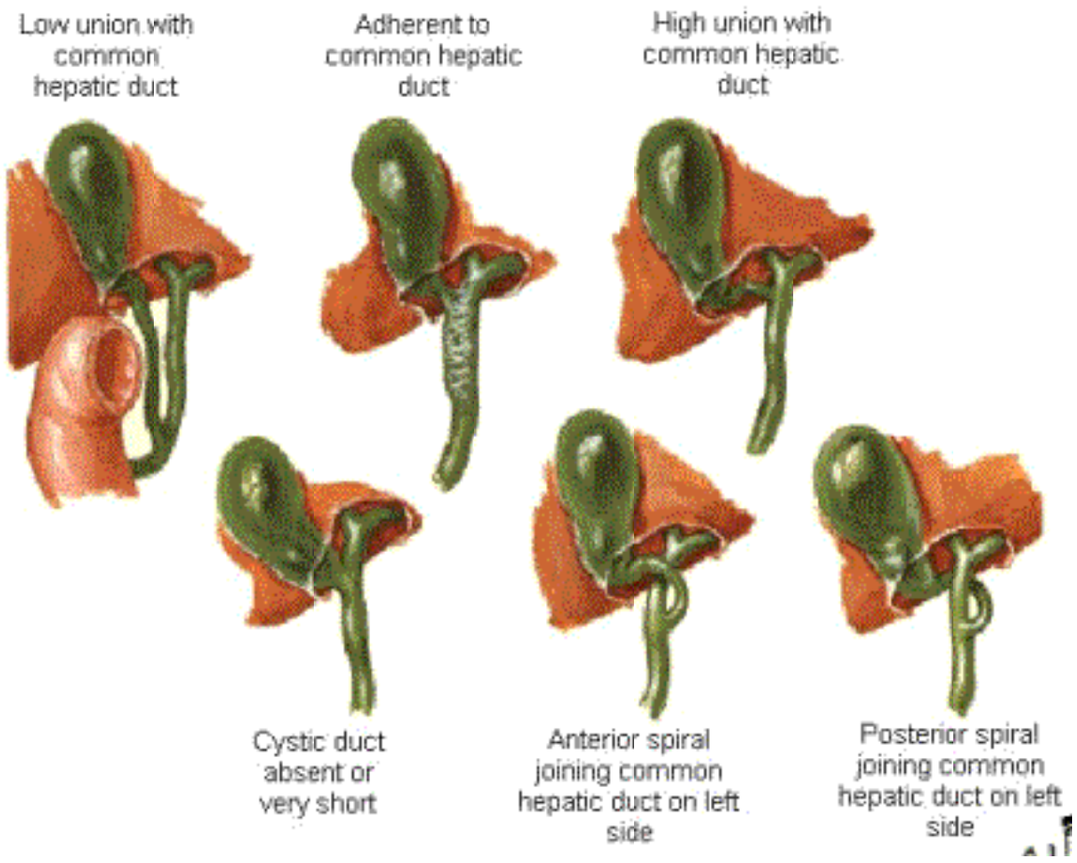


Gallbladder and Extrahepatic Bile Ducts

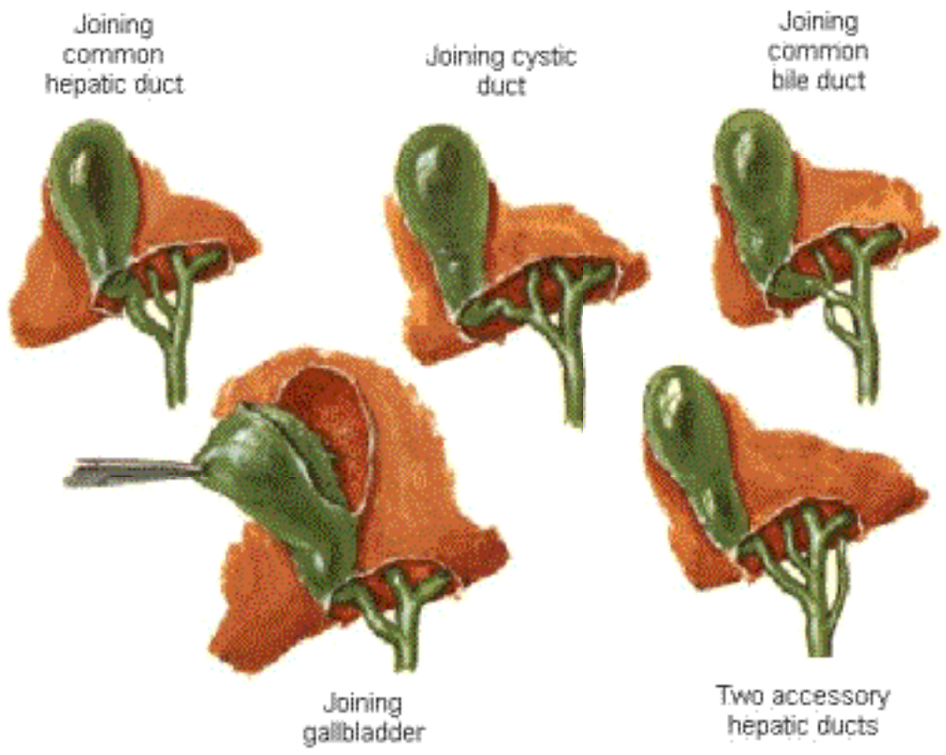
Sectioned



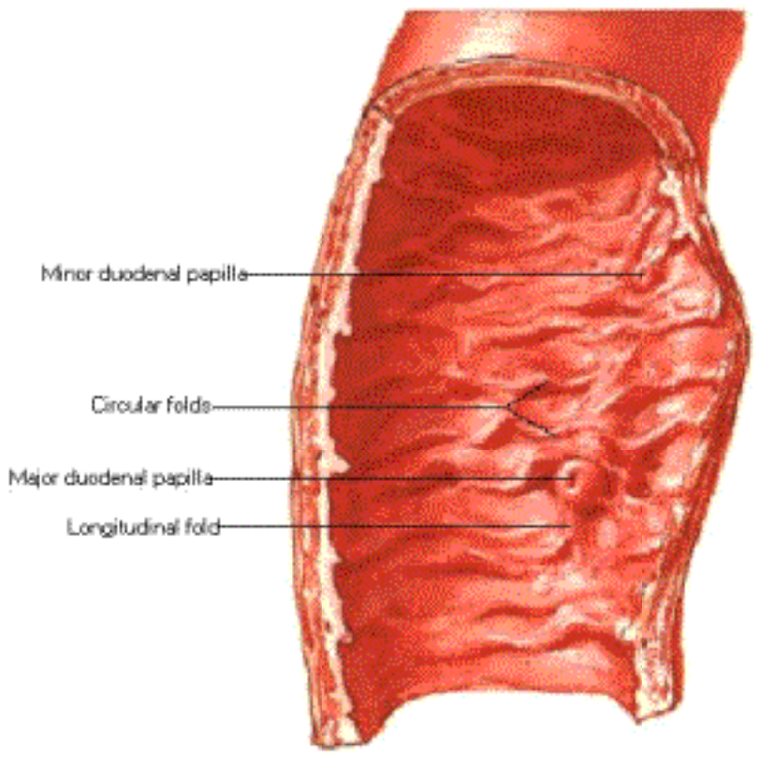
Variations in Cystic Duct



Variations in Accessory [Aberrant] Hepatic Ducts



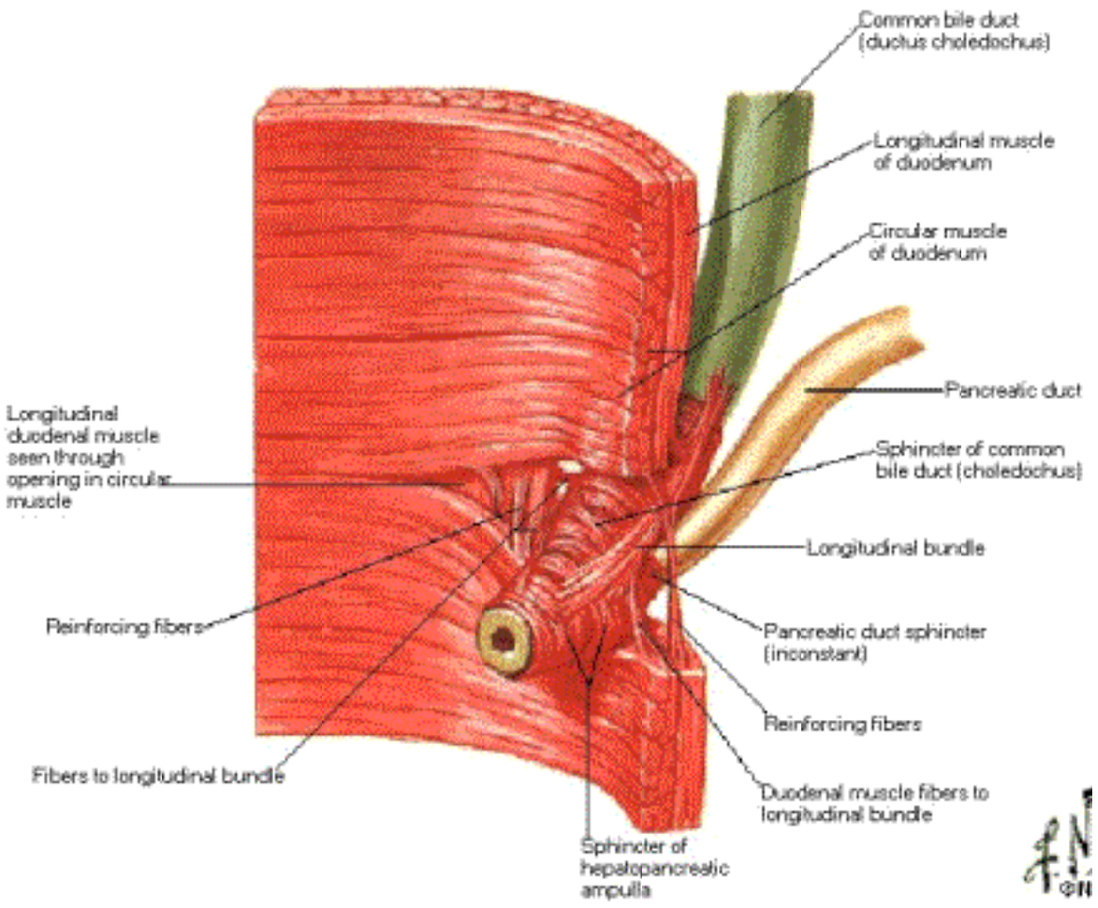
Choledochoduodenal Junction



Interior of descending (2nd) part of duodenum

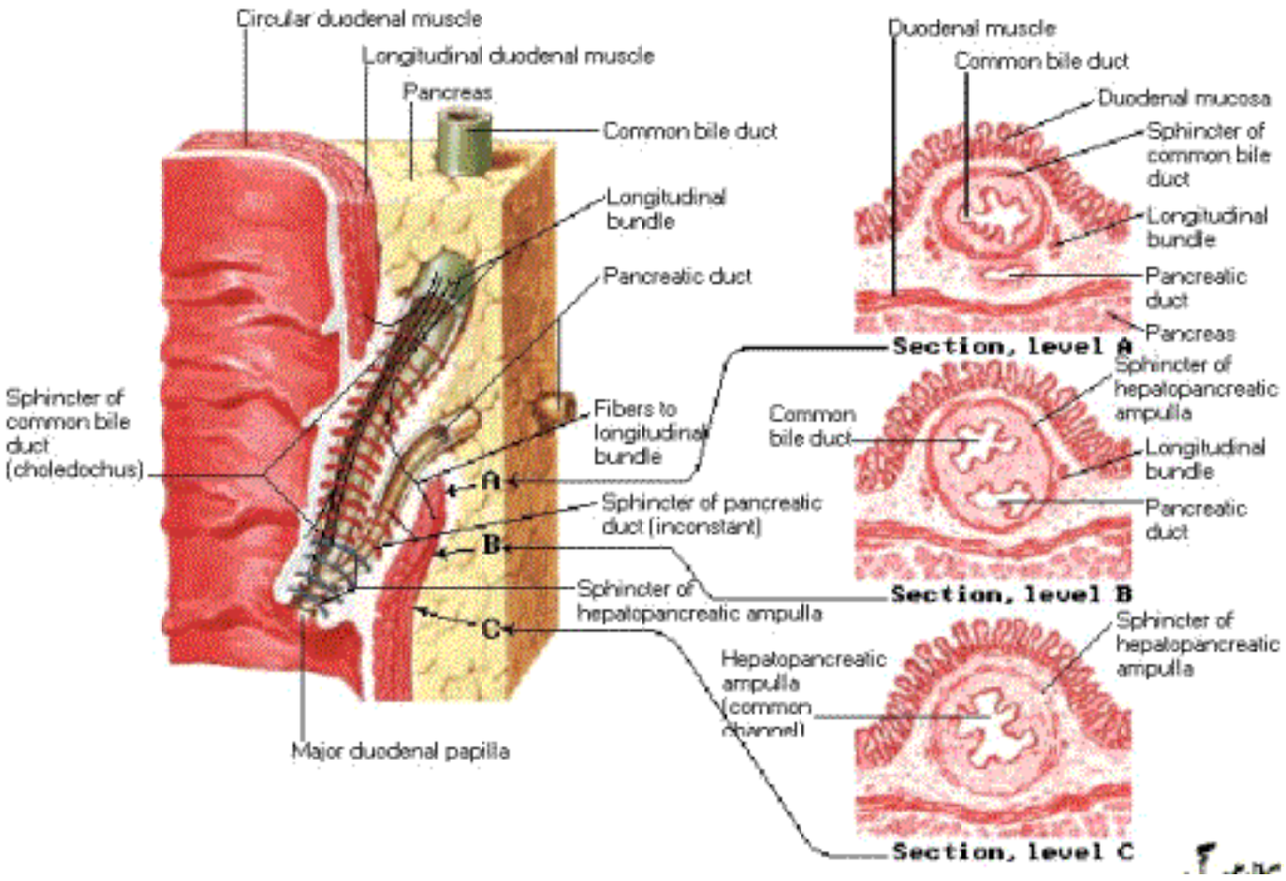
Choledochoduodenal Junction

Dissection

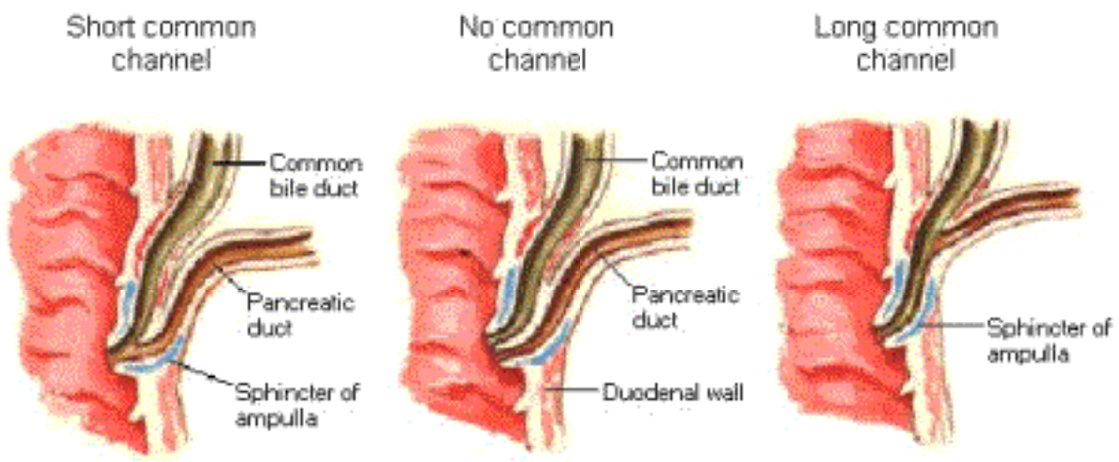


Choledochoduodenal Junction

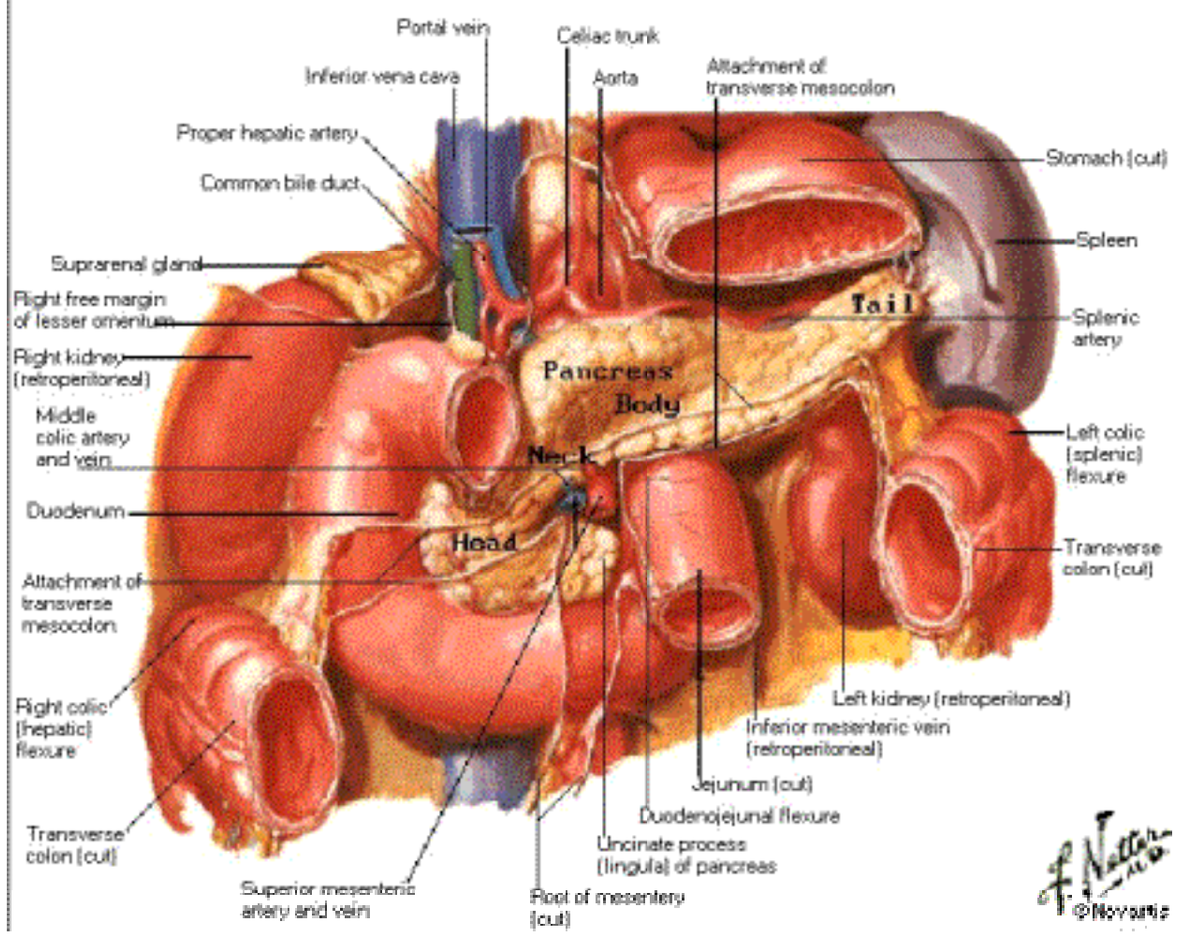
Reconstruction



Variations in Union of Bile and Pancreatic Ducts

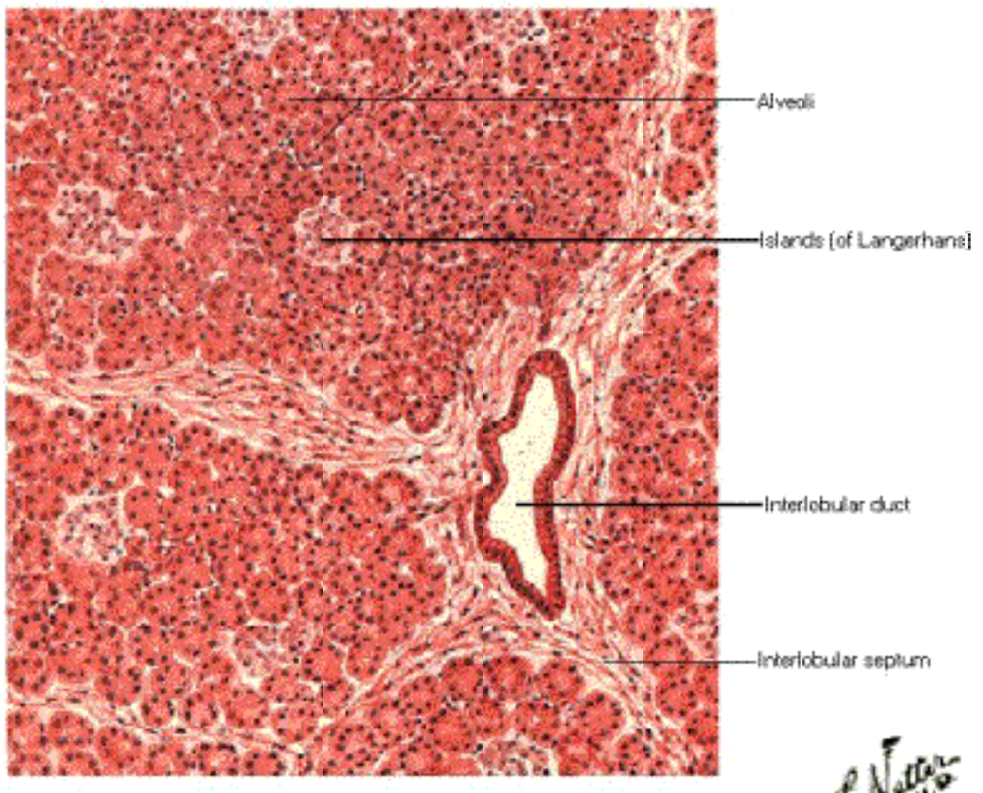


Pancreas in Situ



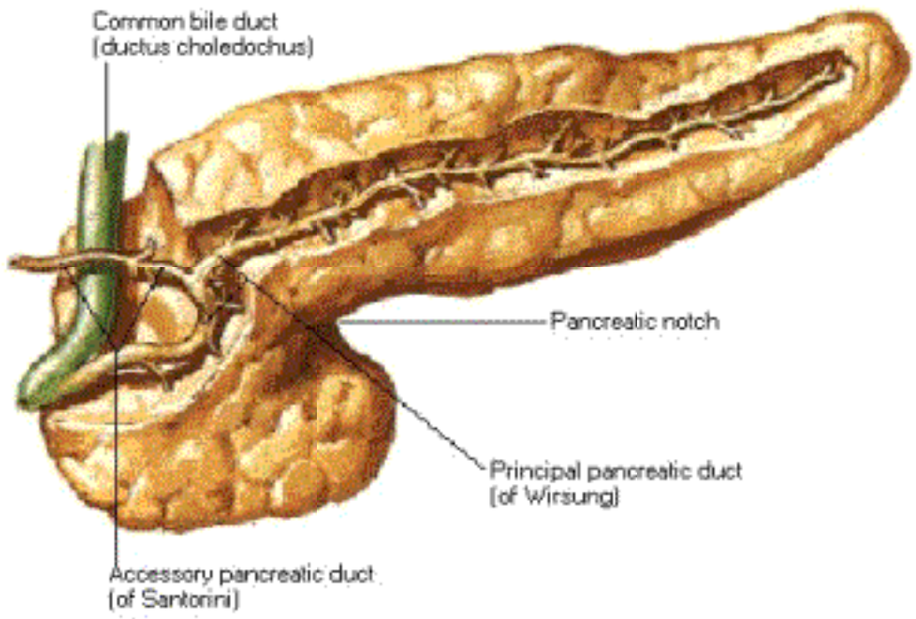
Pancreas

Histology

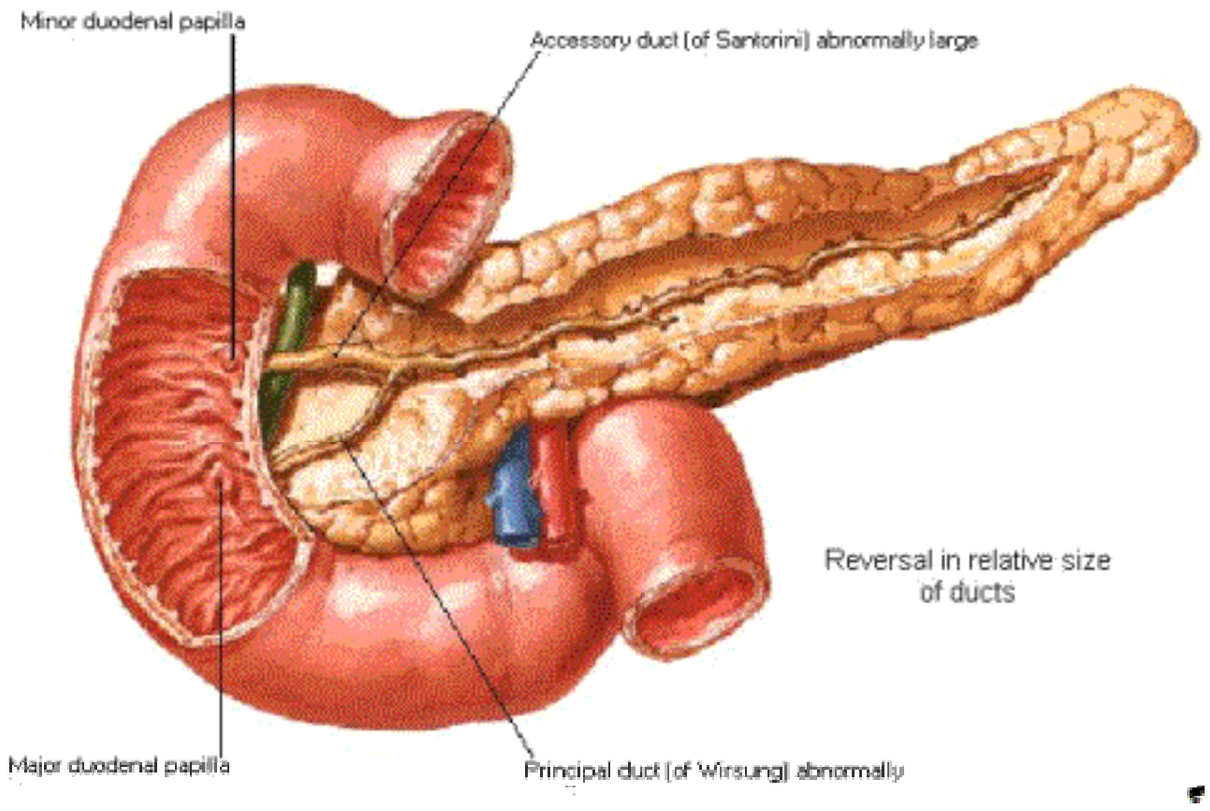


Low-power section of pancreas

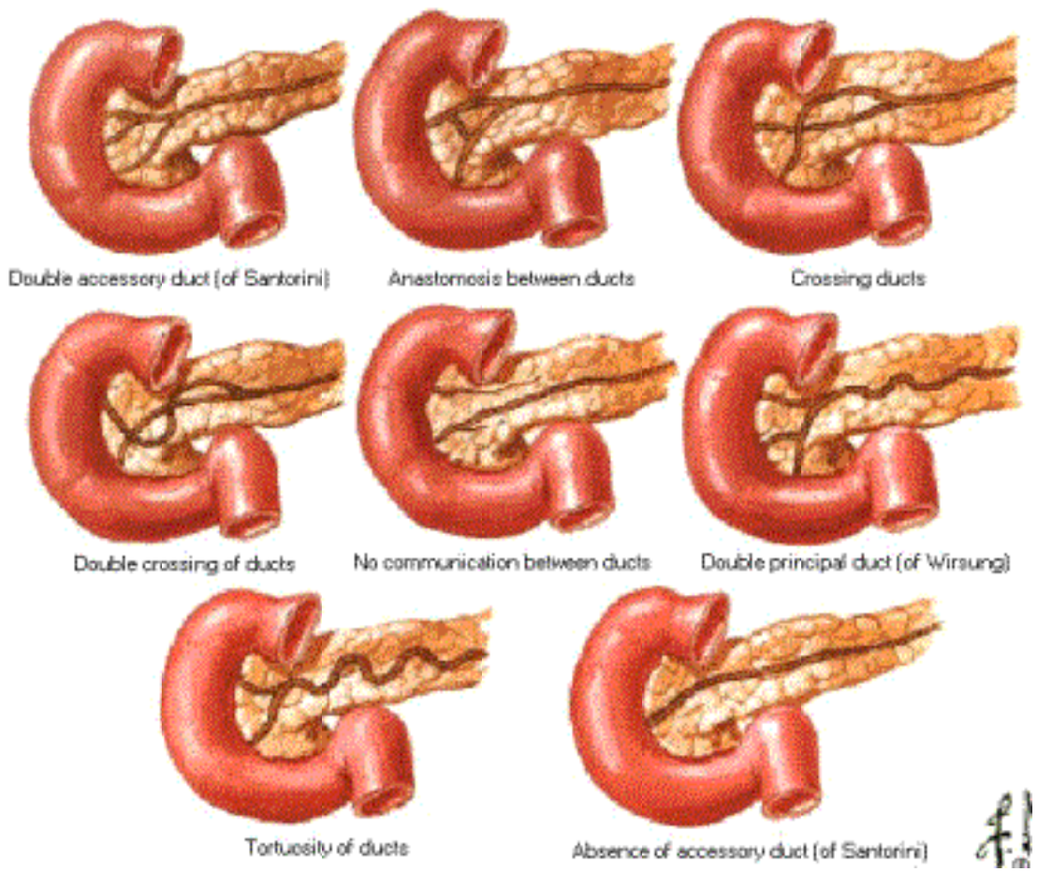
Pancreas


Common bile duct
(ductus choledochus)
Pancreatic notch
Principal pancreatic duct
(of Wirsung)
Accessory pancreatic duct
(of Santorini)

Variations in Pancreatic Ducts

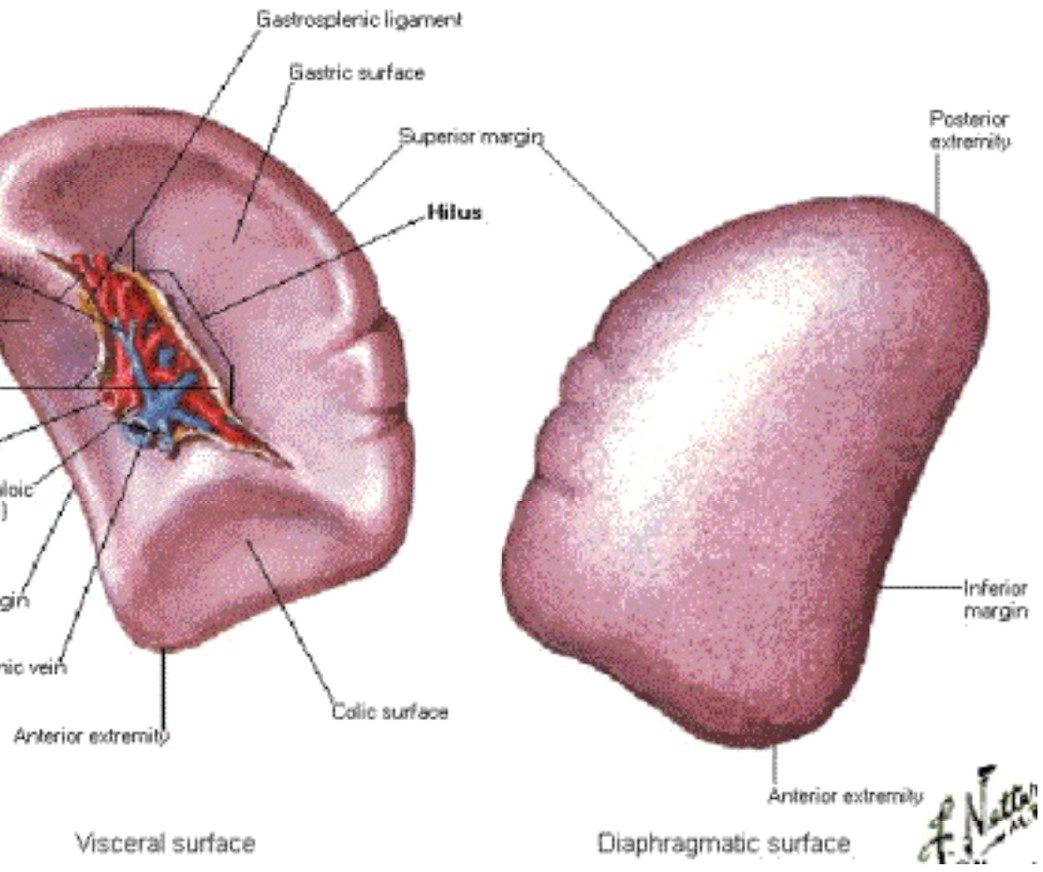


Variations in Pancreatic Ducts [Continued]



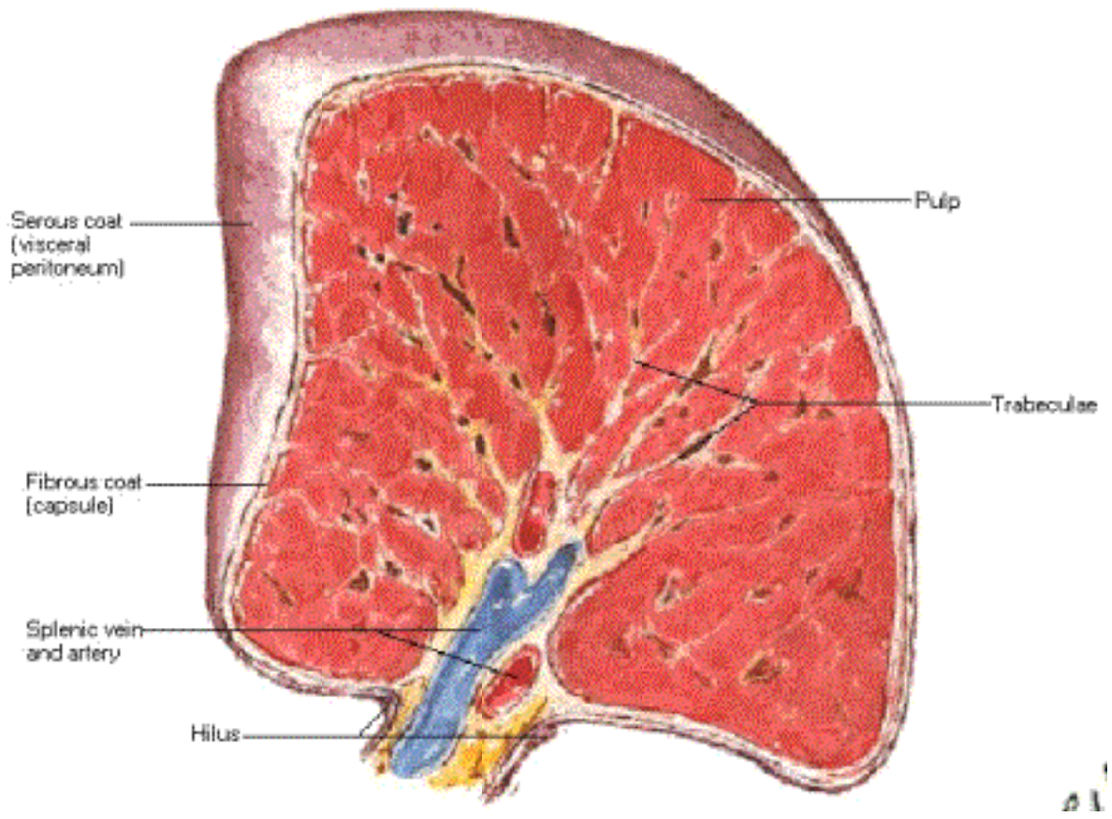
Spleen

Visceral and Diaphragmatic Surfaces

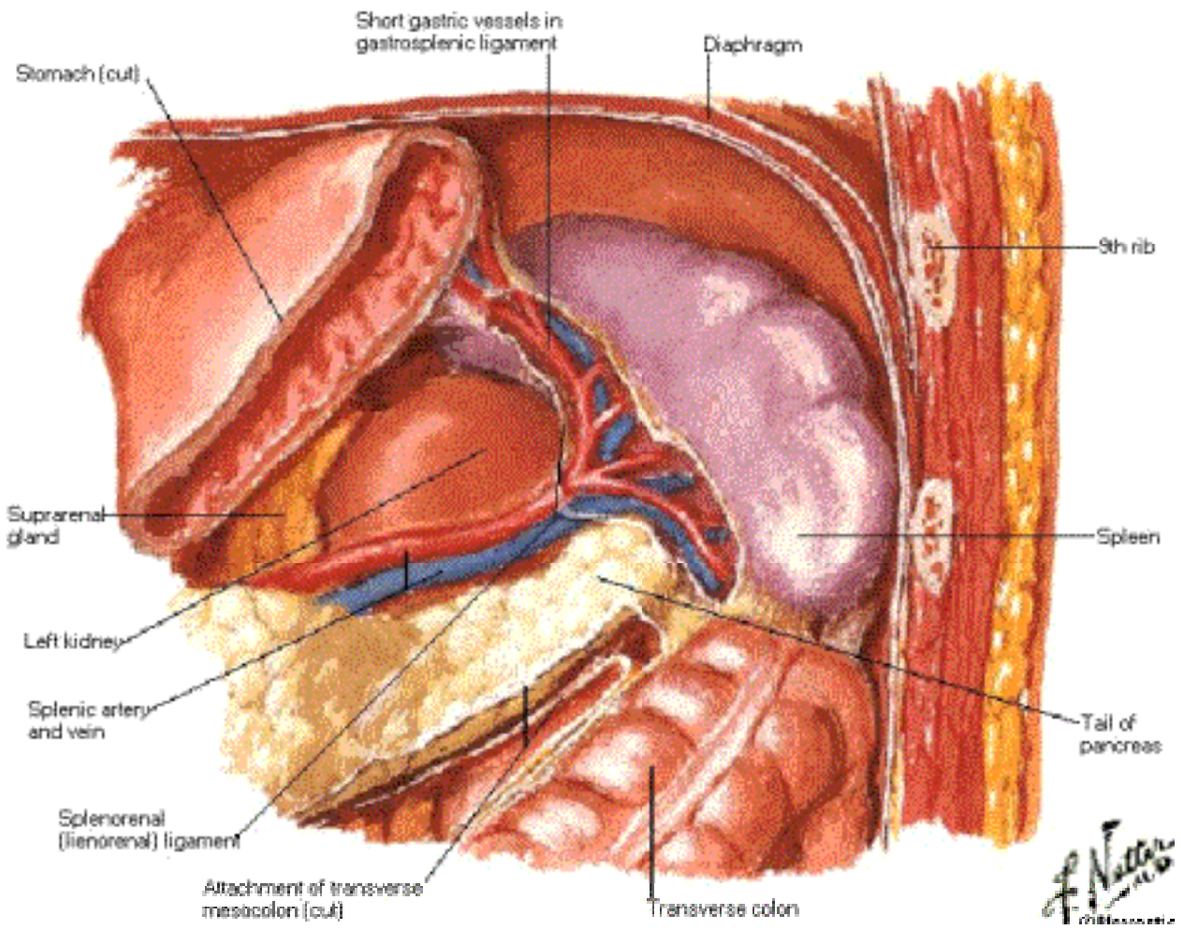


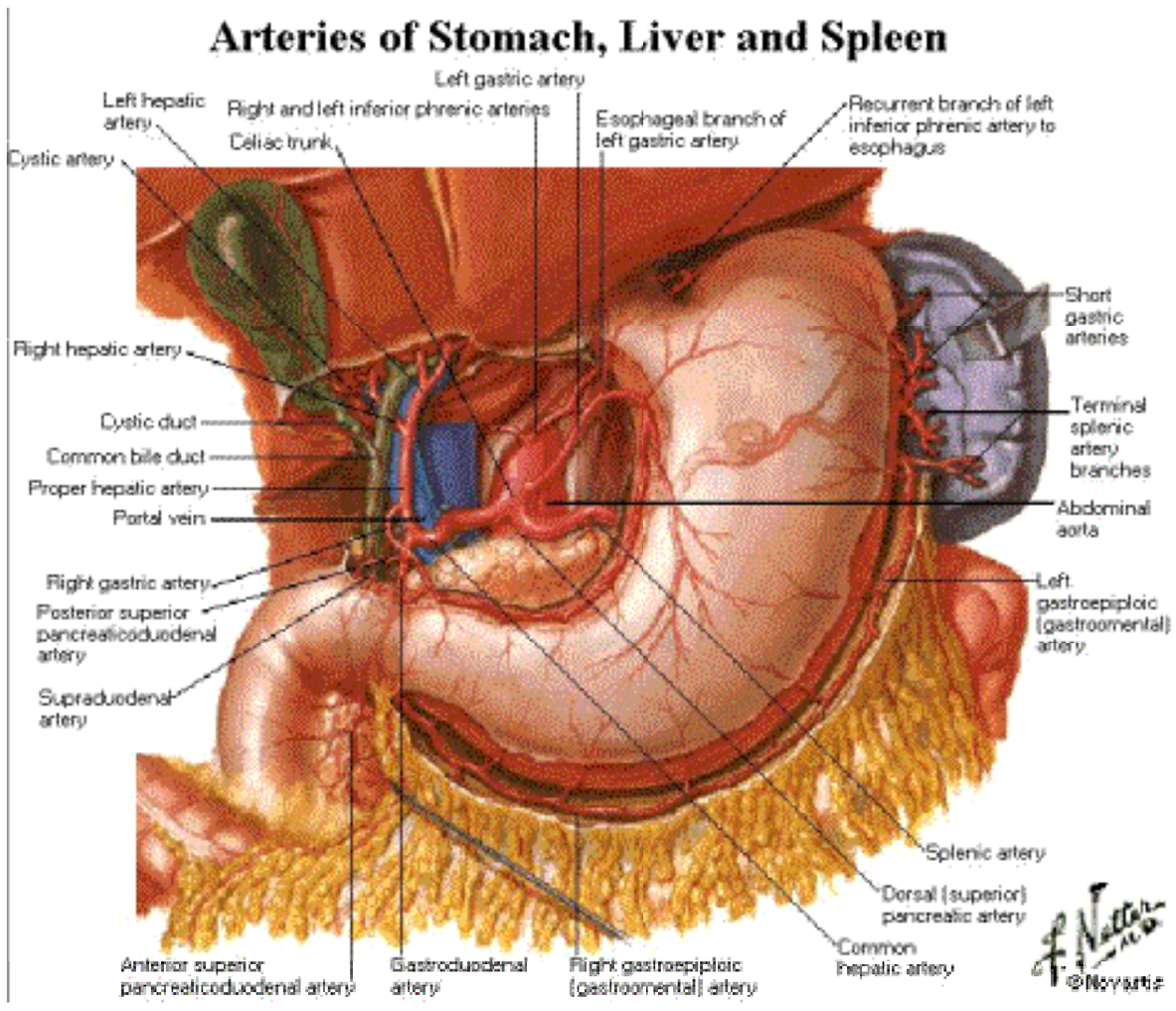
Spleen

Cross Section

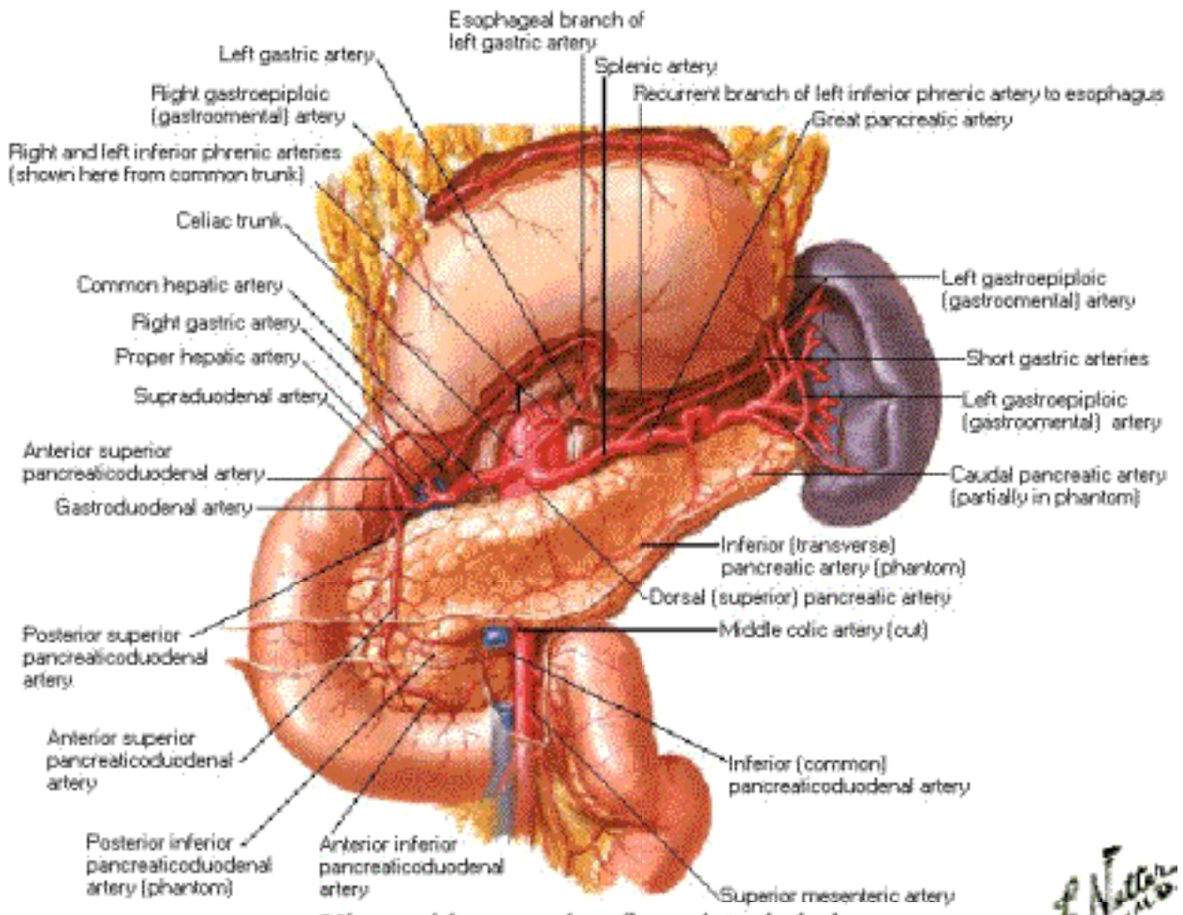


Spleen in Situ



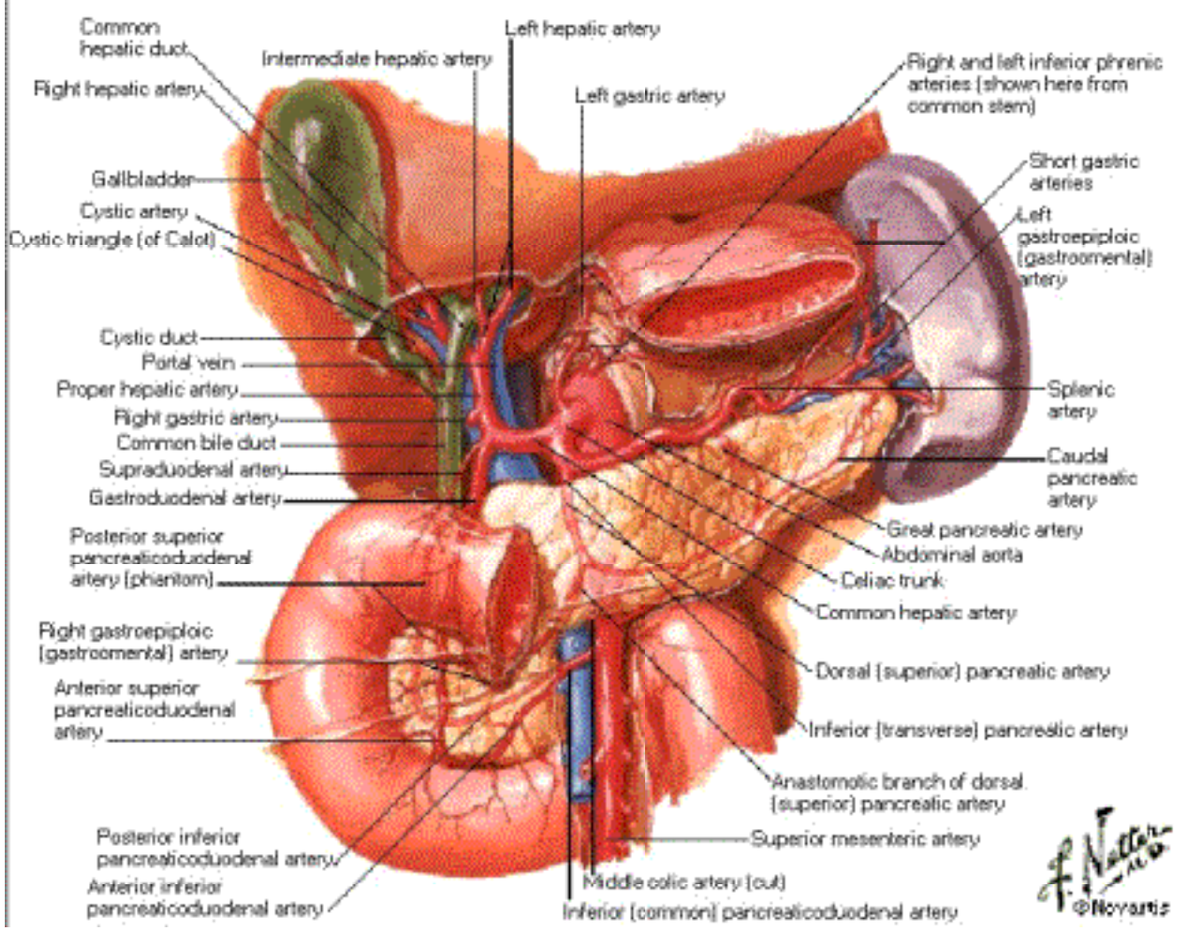

Arteries of Stomach, Liver and Spleen
Left gastric artery
Left hepatic artery
Right and left inferior phrenic arteries
Esophageal branch of left gastric artery
Recurrent branch of left inferior phrenic artery to esophagus
Celiac trunk
Cystic artery
Short gastric arteries
Right hepatic artery
Terminal splenic artery branches
Cystic duct
Common bile duct
Proper hepatic artery
Portal vein
Abdominal aorta
Right gastric artery
Left gastroepiploic (gastroomental) artery
Posterior superior pancreaticoduodenal artery
Supraduodenal artery
Splenic artery
Dorsal (superior) pancreatic artery
Common hepatic artery
Anterior superior pancreaticoduodenal artery
Gastroduodenal artery
Right gastroepiploic (gastroomental) artery
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Arteries of Stomach, Duodenum, Pancreas and Spleen



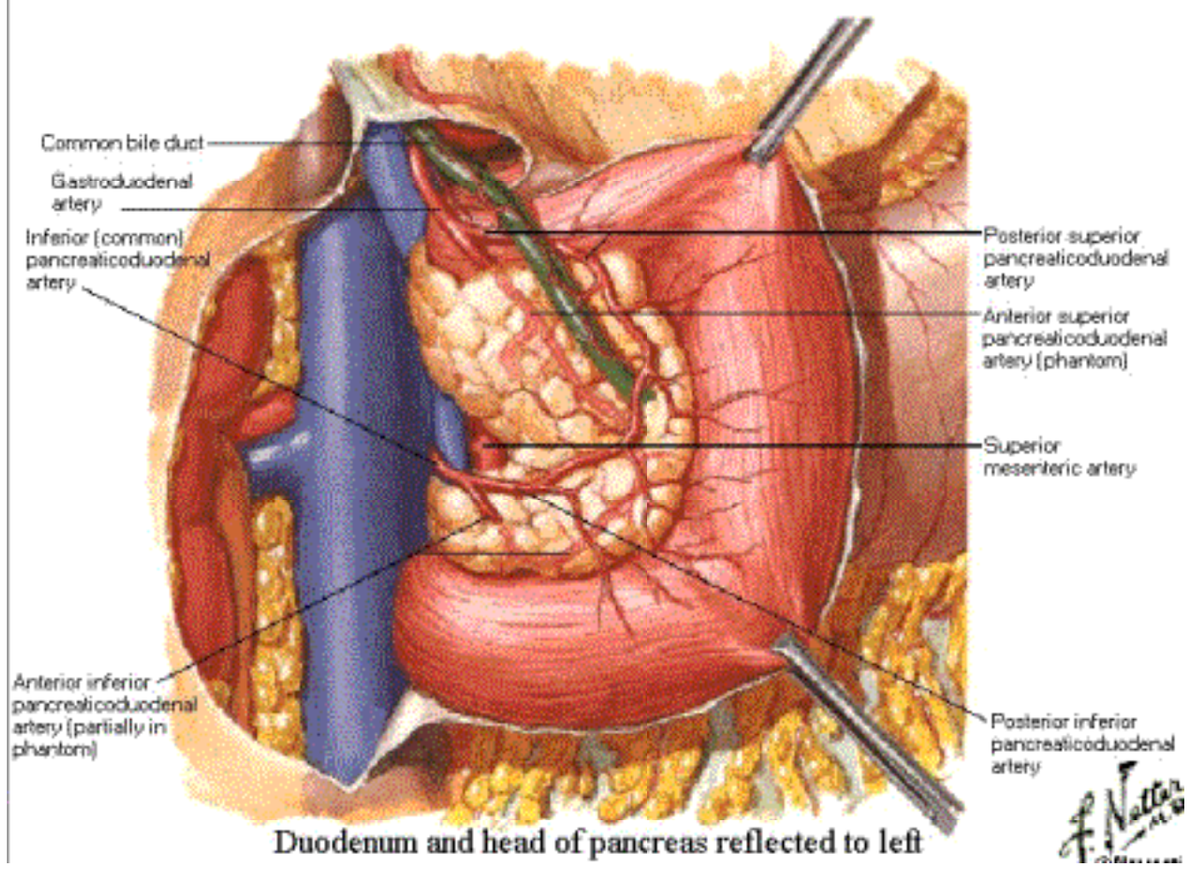
View with stomach reflected cephalad

Arteries of Liver, Pancreas, Duodenum and Spleen



Arteries of Duodenum and Head of Pancreas

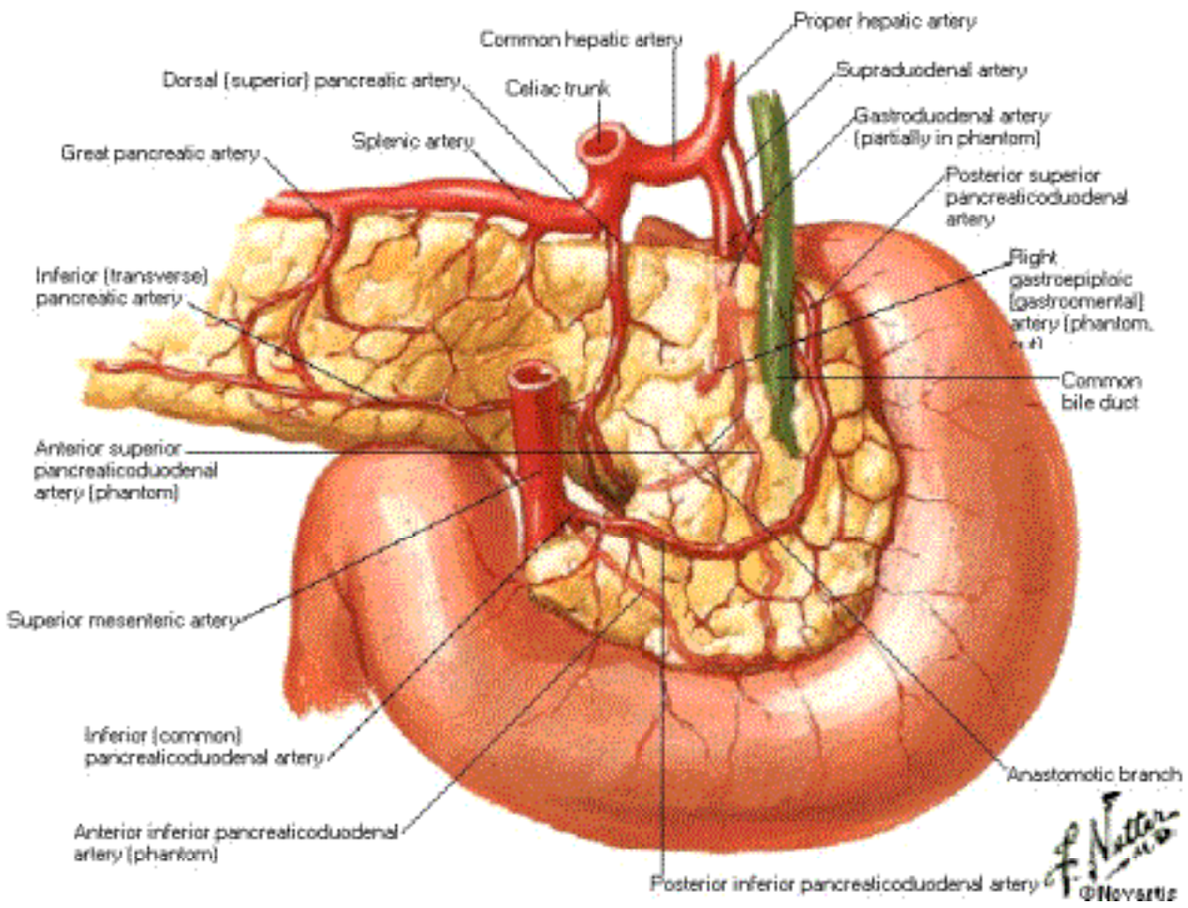
Reflected to Left



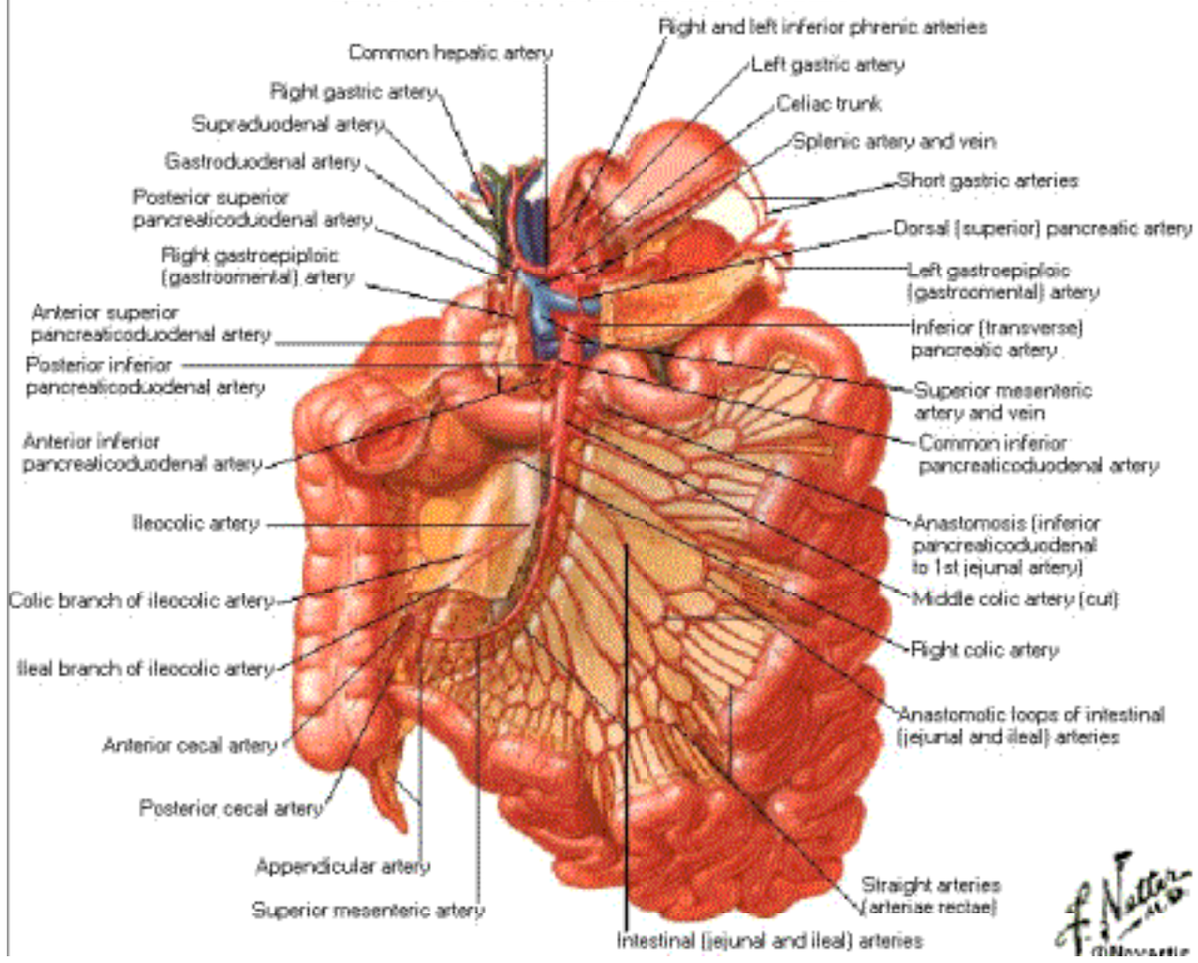
Duodenum and head of pancreas reflected to left

Arteries of Duodenum and Head of Pancreas

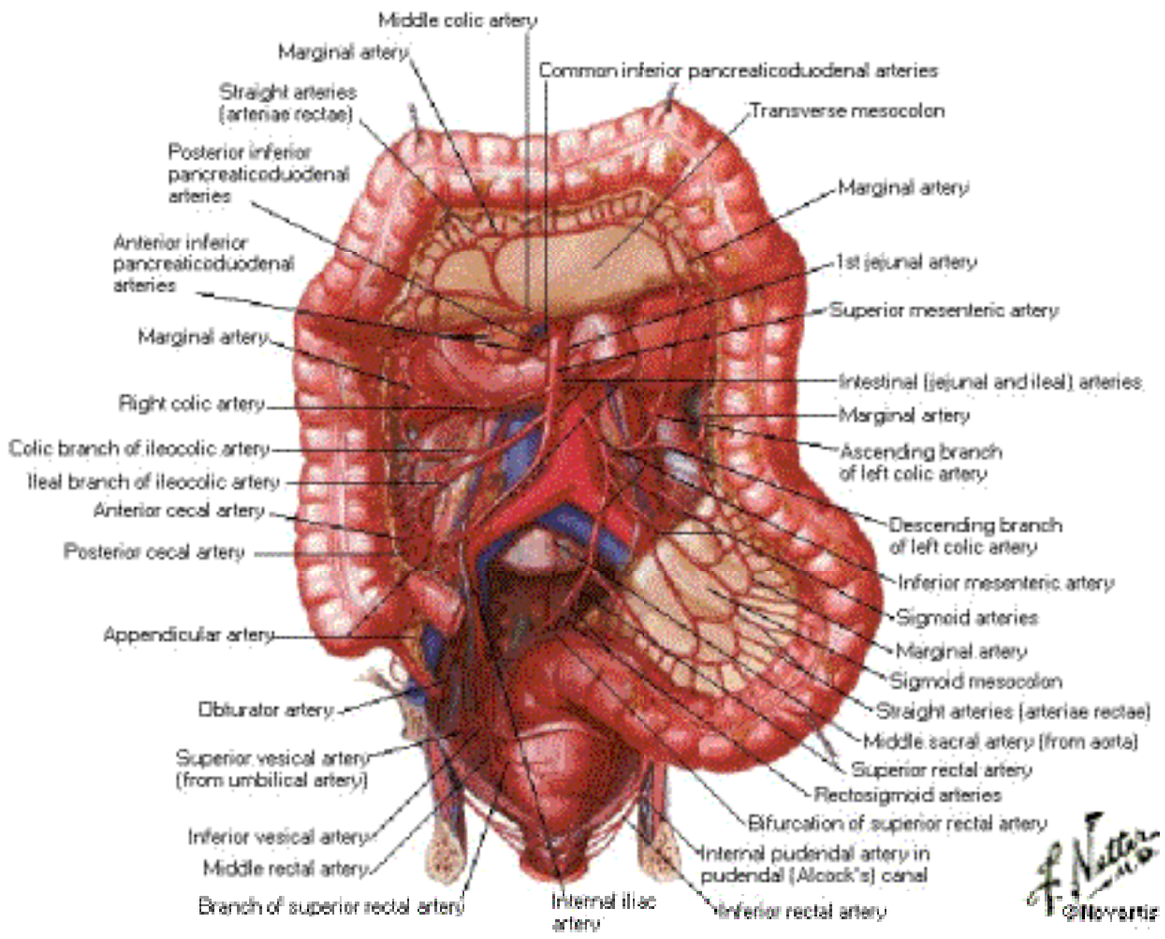
Posterior View



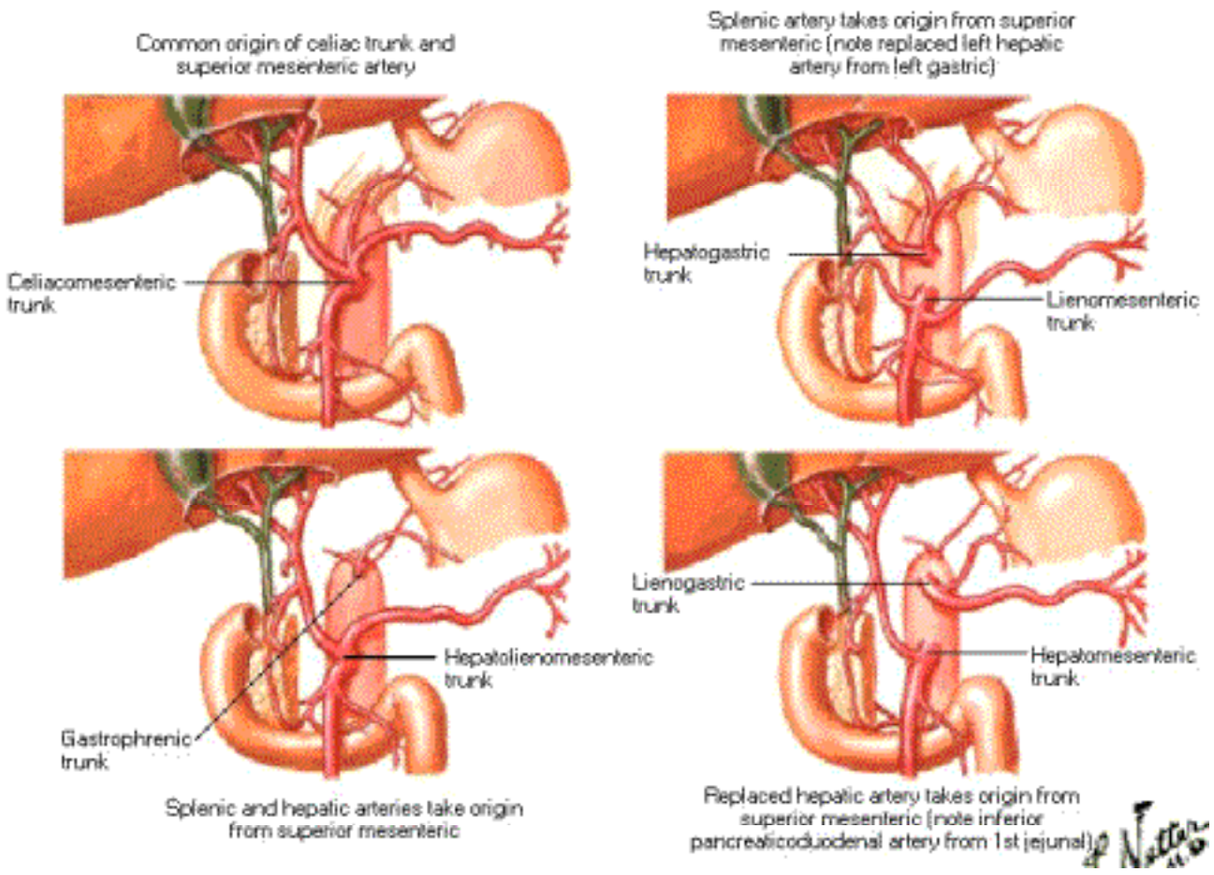
Arteries of Small Intestine



Arteries of Large Intestine

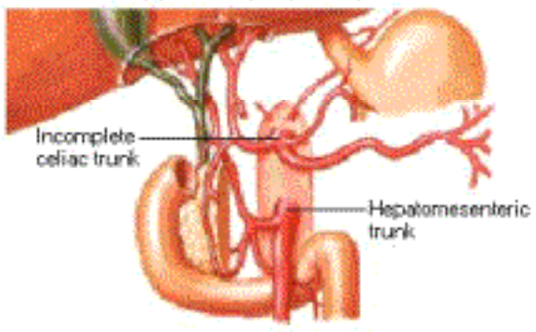


Variations in Celiac Trunk

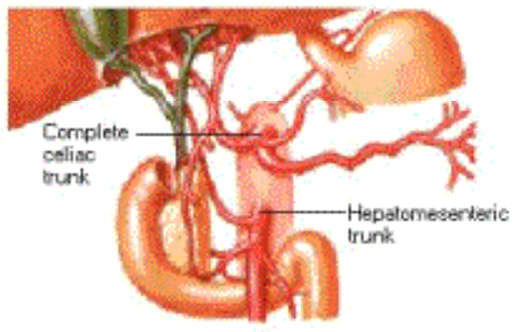


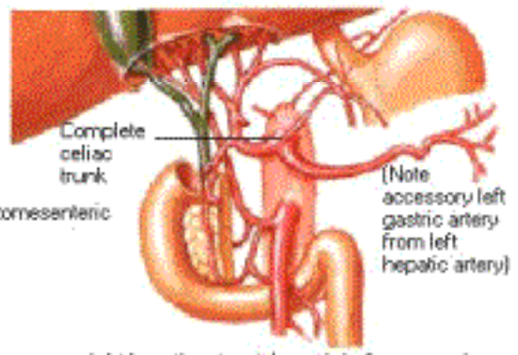
Variations in Celiac Trunk [Continued]

Replaced right hepatic artery takes origin from superior mesenteric; inferior pancreaticoduodenal and 1st jejunal arteries from replaced right hepatic artery

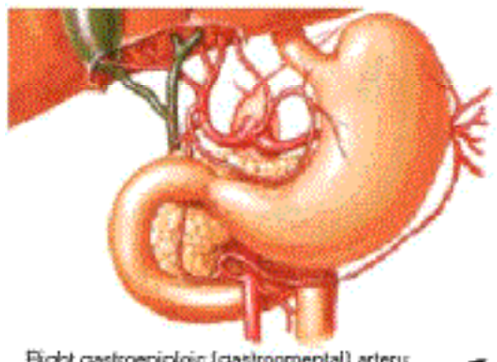


Accessory right hepatic artery takes origin from superior mesenteric artery



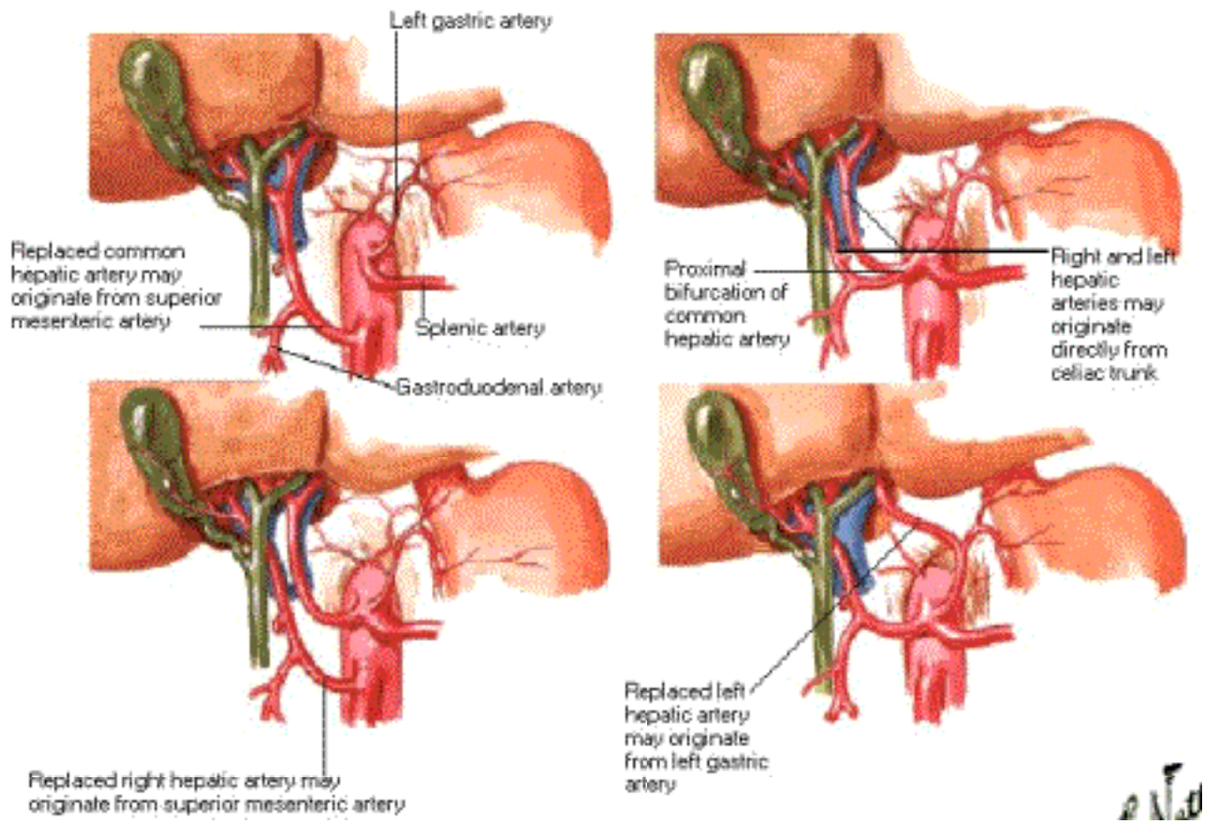


Accessory right hepatic artery takes origin from superior mesenteric; inferior pancreaticoduodenal arteries from accessory right hepatic; 1st jejunal artery from anterior inferior pancreaticoduodenal artery

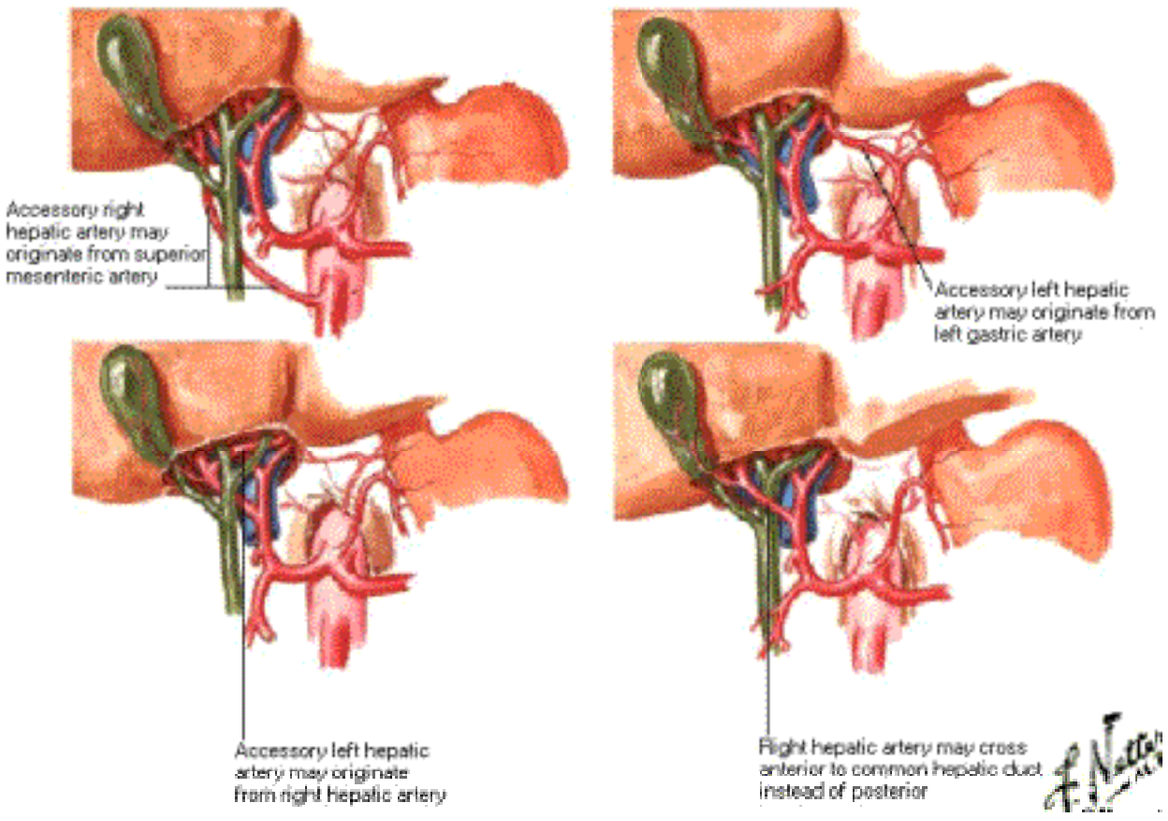


Right gastroepiploic (gastroomental) artery takes origin from superior mesenteric artery (note accessory left hepatic artery from left gastric)

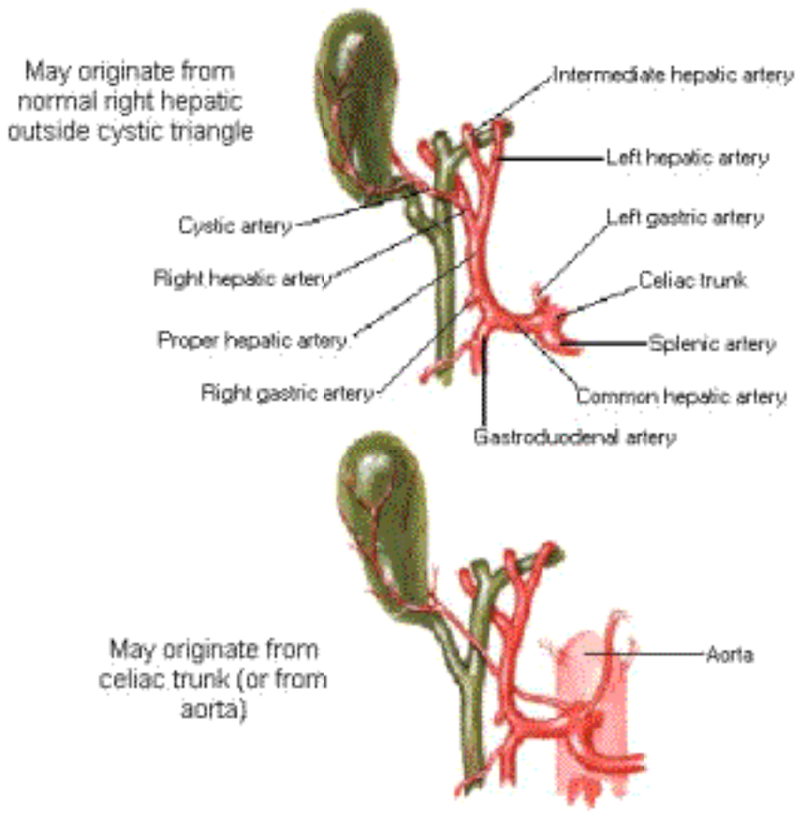
Variations in Hepatic Arteries



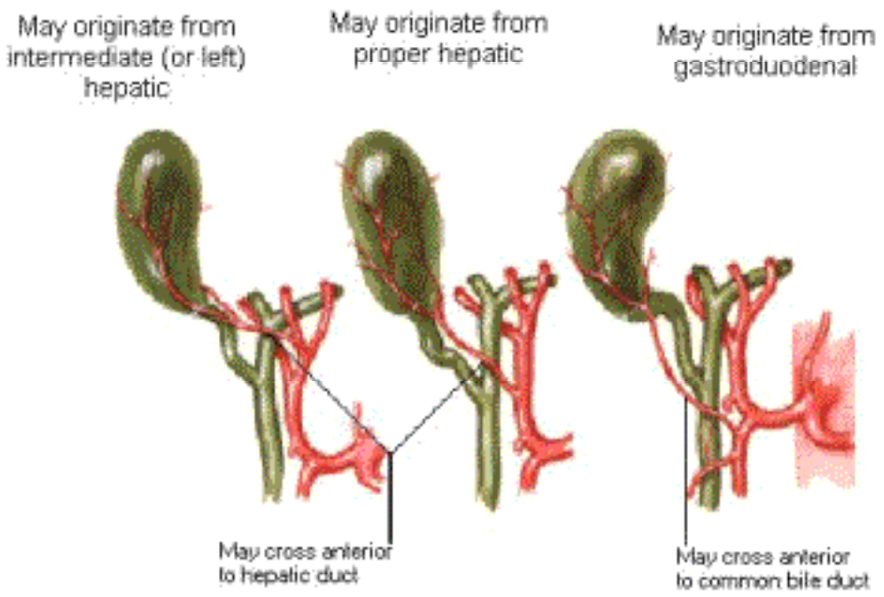
Variations in Hepatic Arteries [Continued]



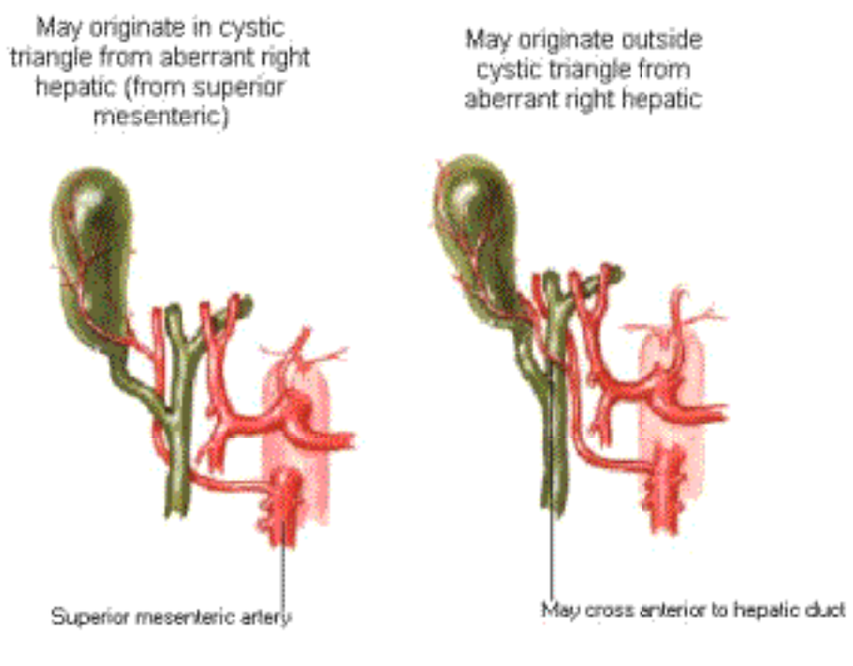
Variations in Cystic Artery 1



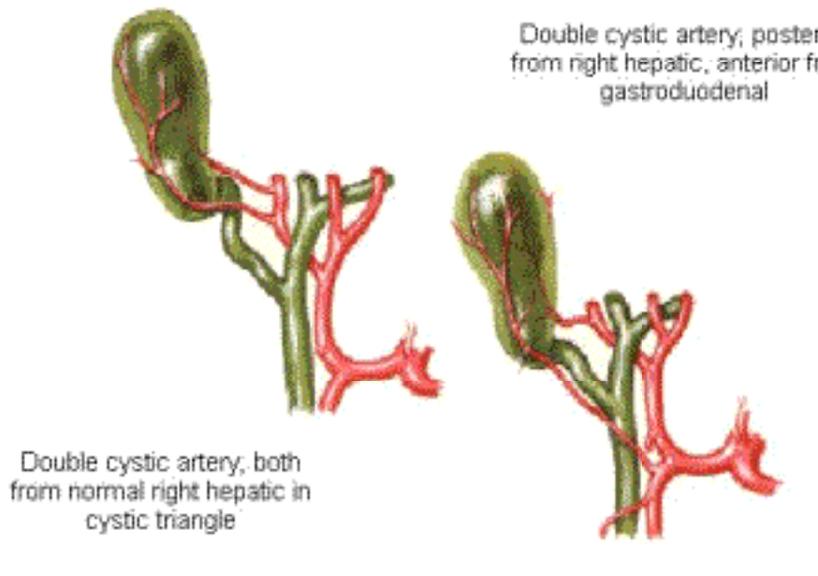
Variations in Cystic Artery 2



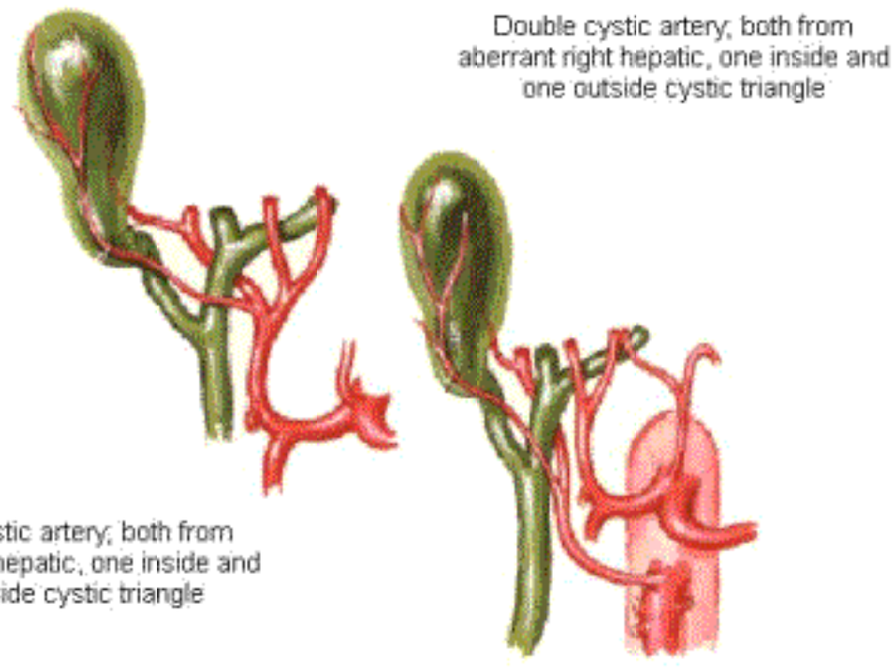
Variations in Cystic Artery 3



Variations in Cystic Artery 4



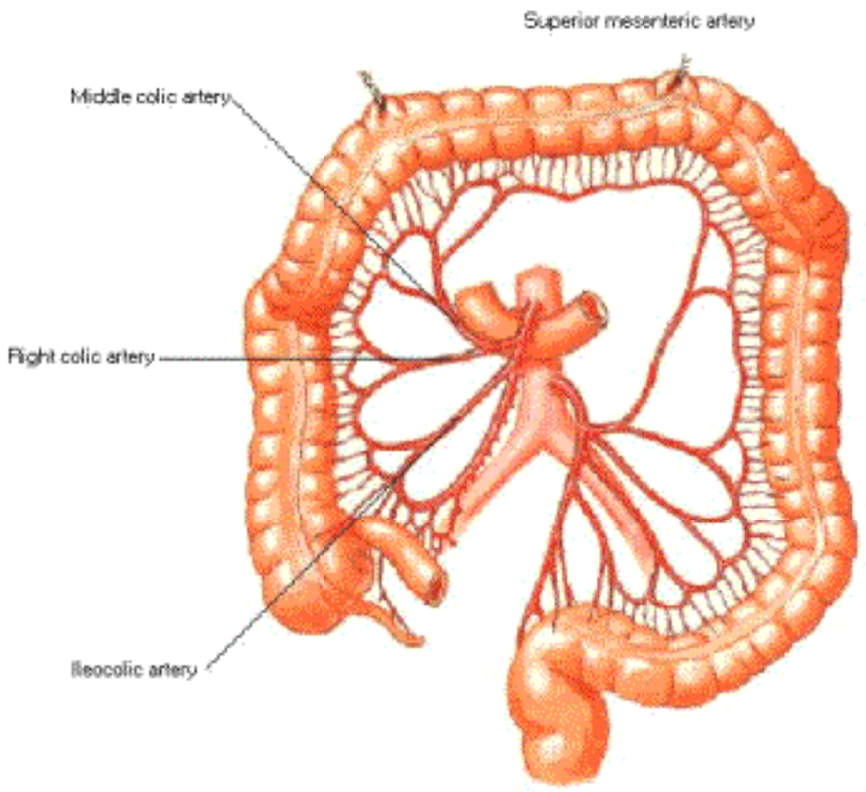
Variations in Cystic Artery 5



Double cystic artery, both from normal right hepatic, one inside and one outside cystic triangle

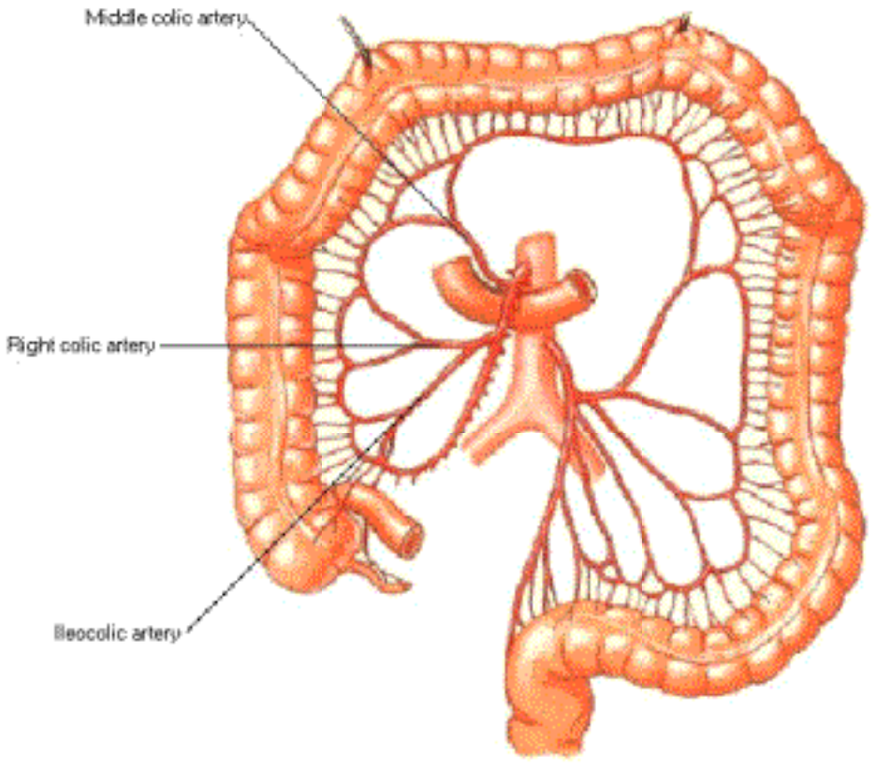
Double cystic artery, both from aberrant right hepatic, one inside and one outside cystic triangle

Variations in Colic Arteries 1



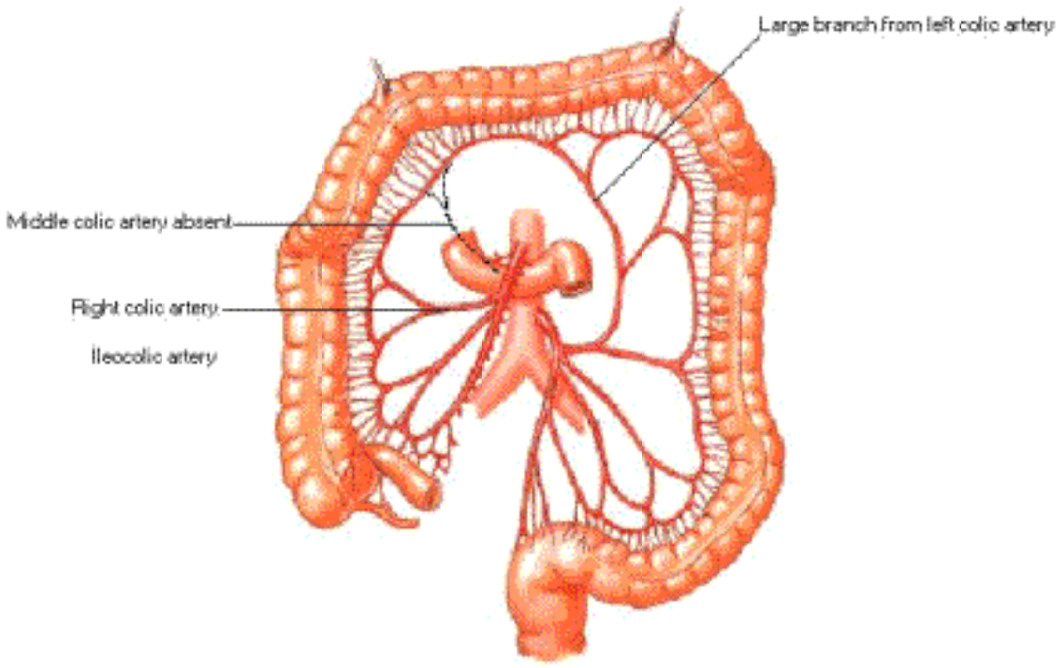
Common origin of right colic and middle colic arteries

Variations in Colic Arteries 2



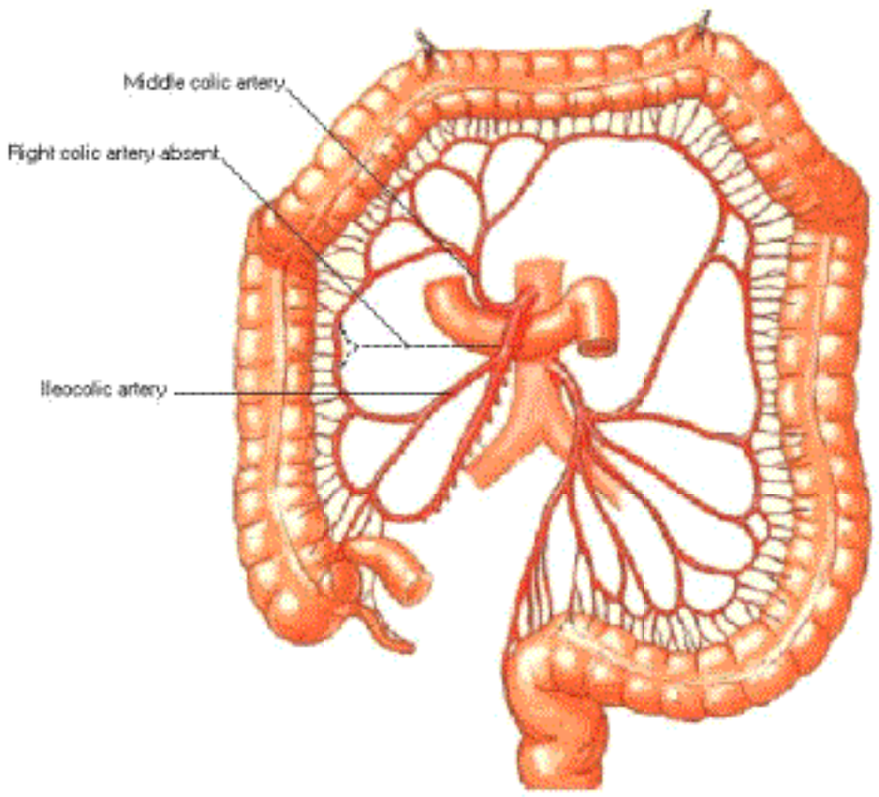
Common origin of right colic and ileocolic arteries

Variations in Colic Arteries 3



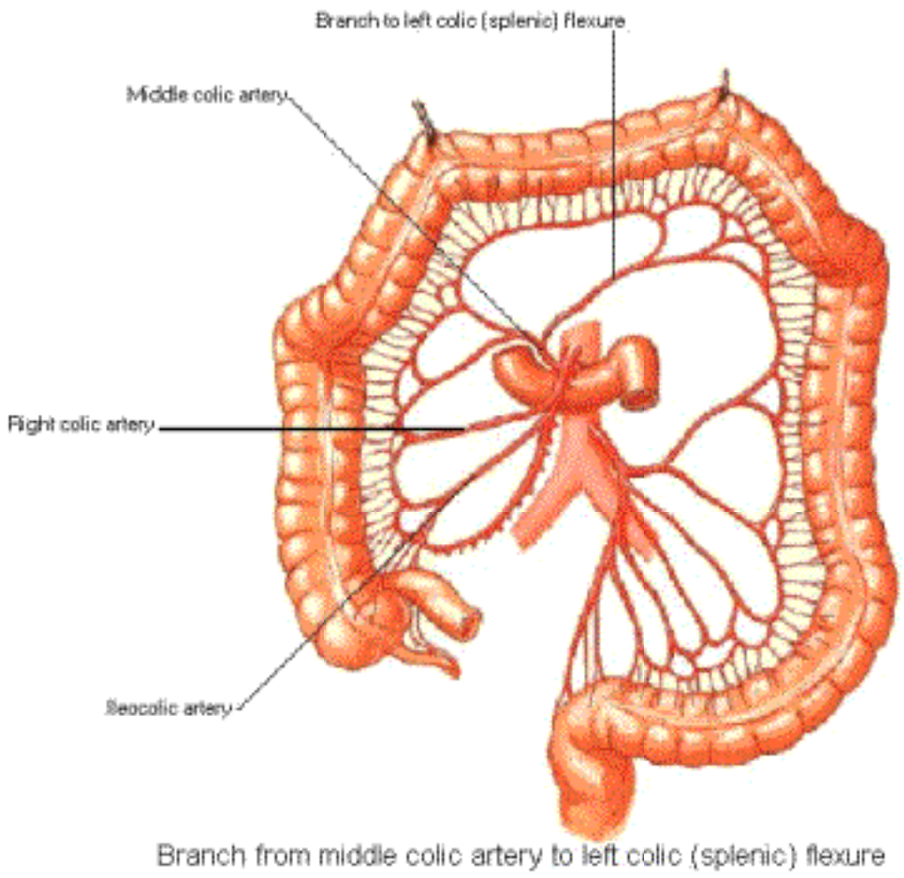
Absence of middle colic artery replaced by large branch from left colic artery

Variations in Colic Arteries 4



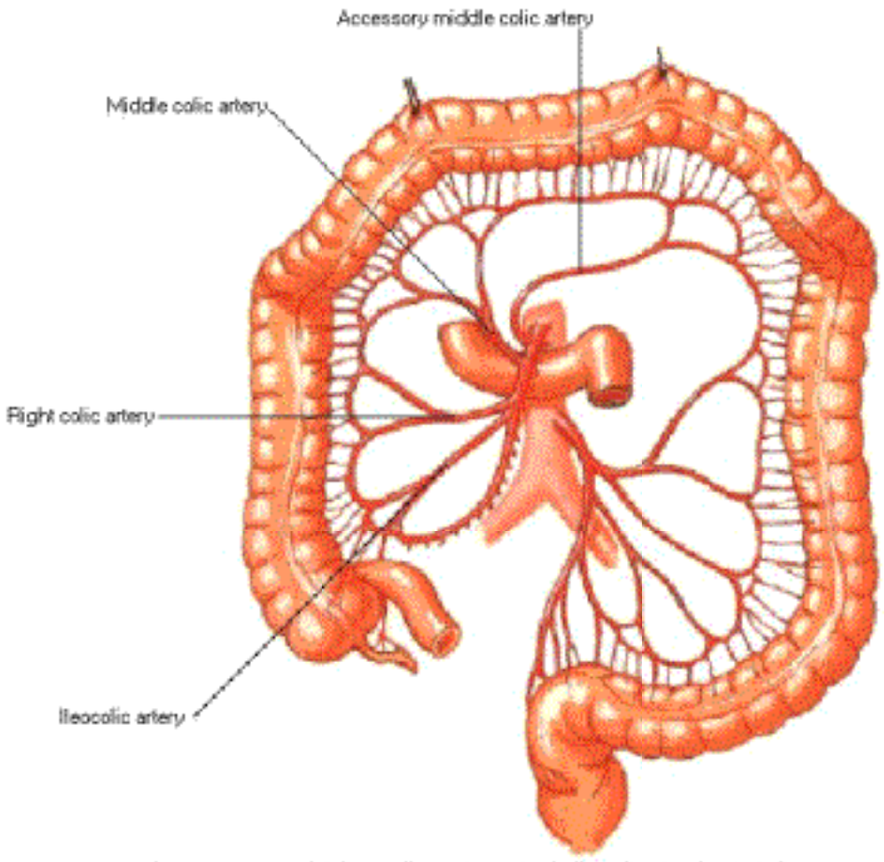
Absence of right colic artery

Variations in Colic Arteries 5



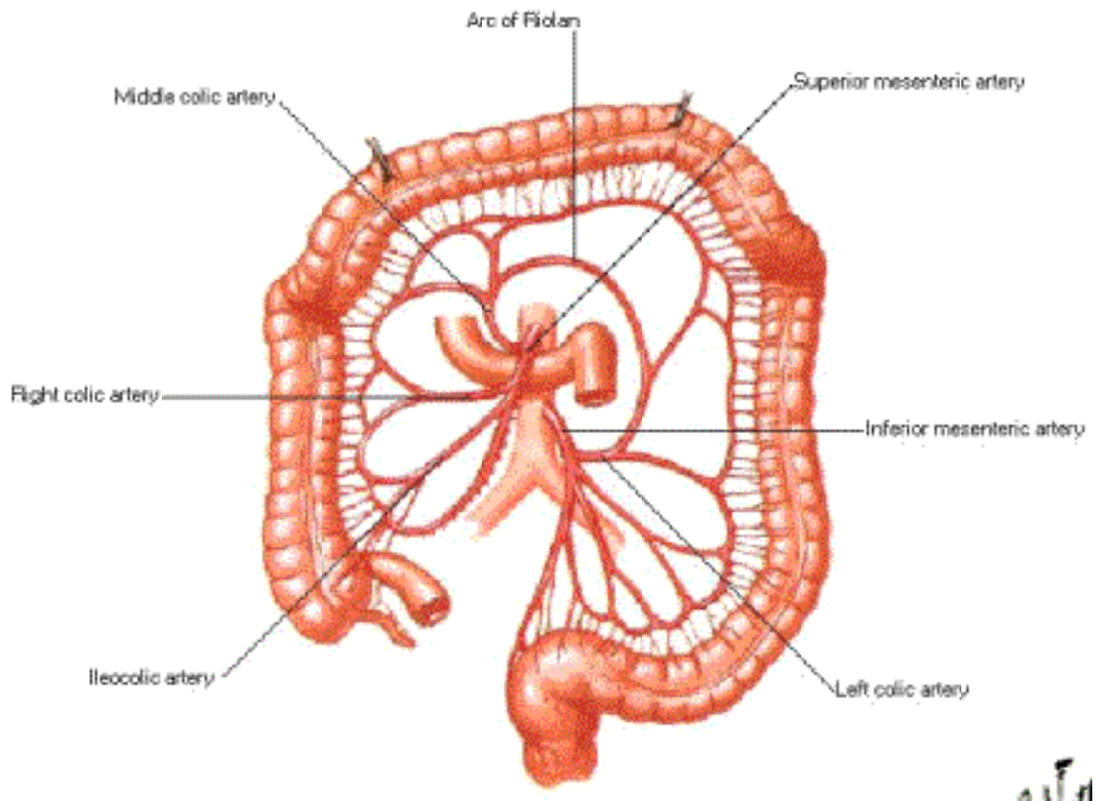
Branch from middle colic artery to left colic (splenic) flexure

Variations in Colic Arteries 6



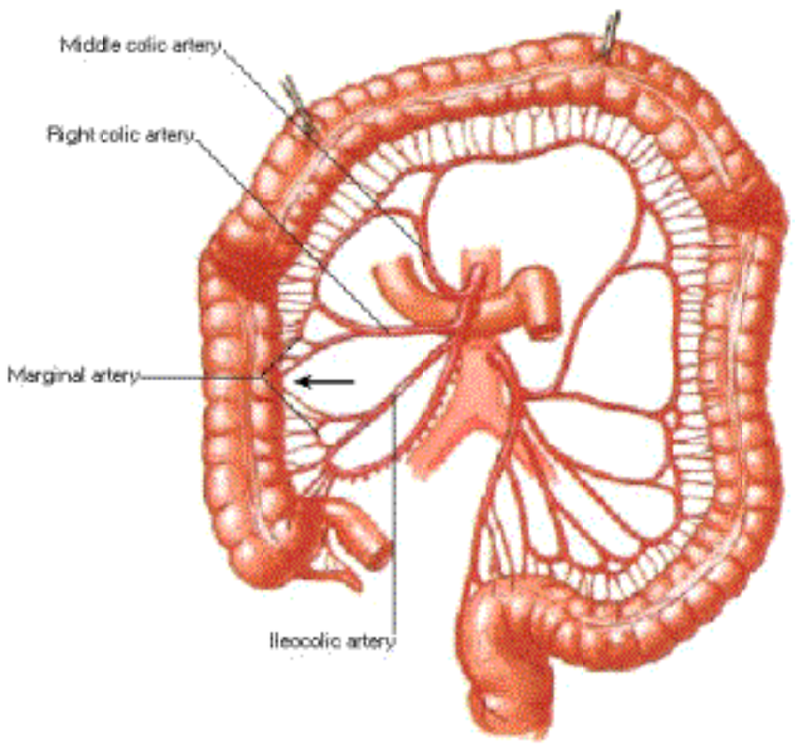
Accessory middle colic artery to left colic (splenic) flexure

Variations in Colic Arteries 7



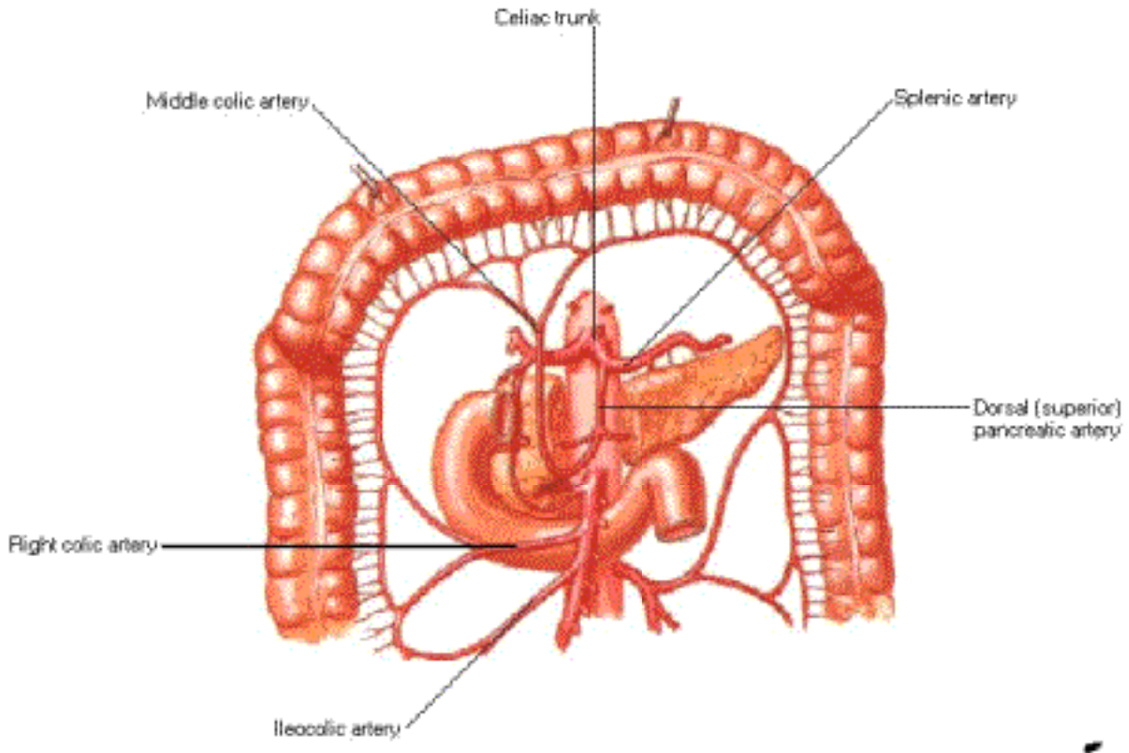
Arc of Riolan between middle colic artery and left colic artery

Variations in Colic Arteries 8



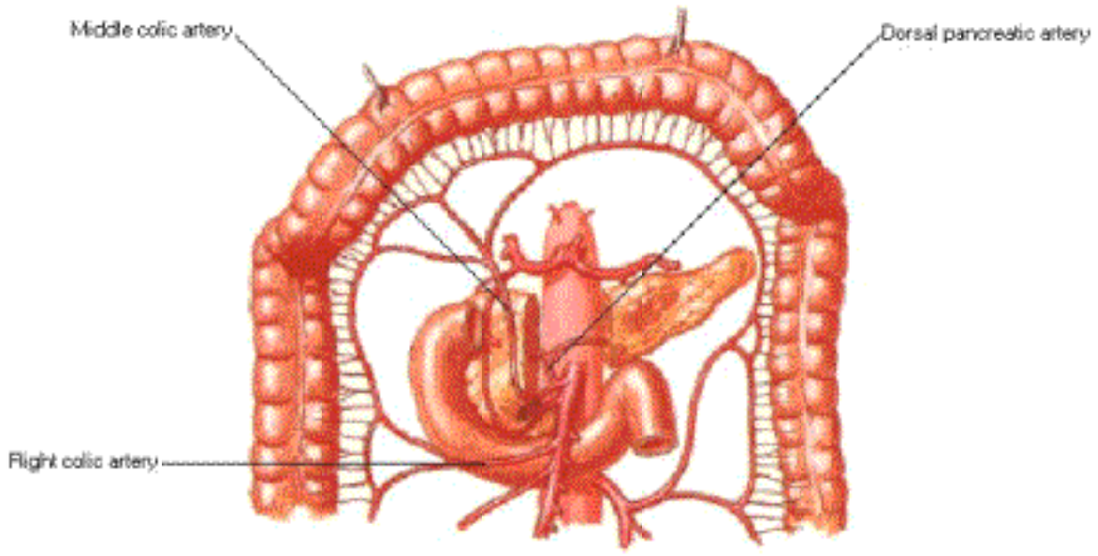
Discontinuity of marginal artery between right colic artery and ileocolic arteries

Variations in Colic Arteries 9



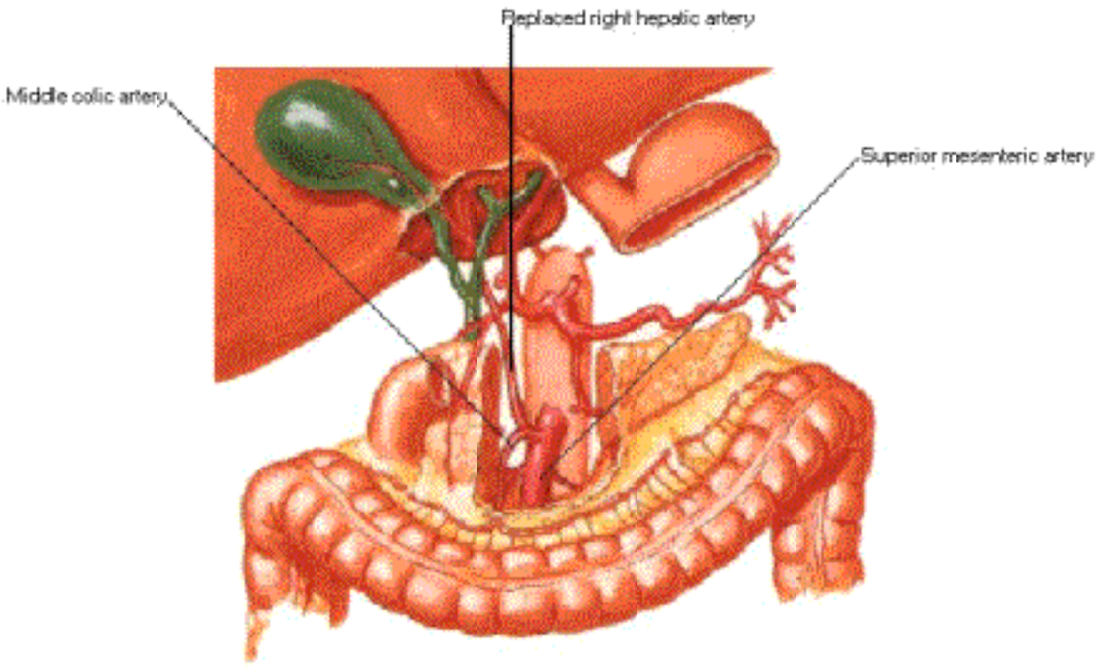
Middle colic artery originates from celiac trunk via dorsal pancreatic artery

Variations in Colic Arteries 10



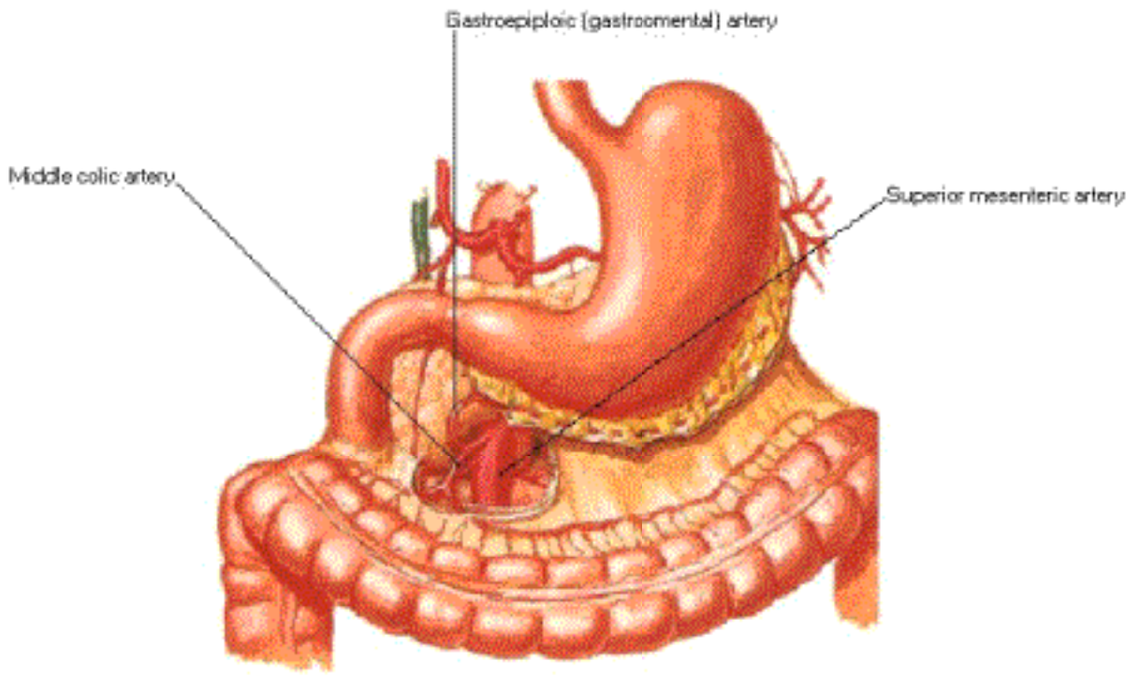
Middle colic artery gives origin to dorsal pancreatic artery

Variations in Colic Arteries 11



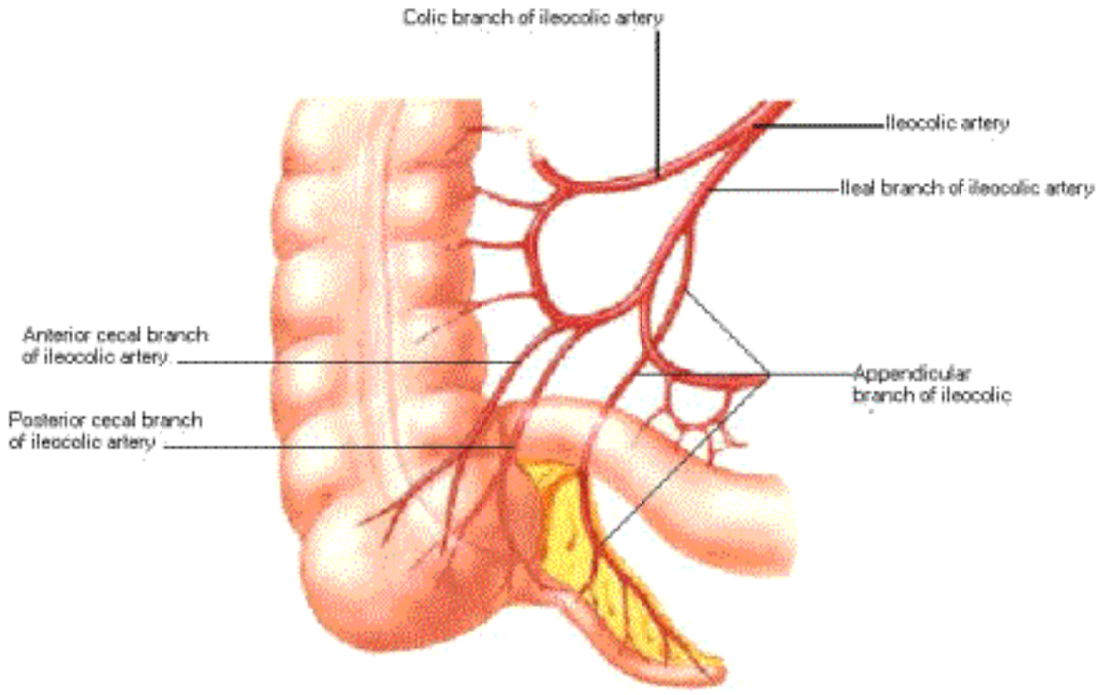
Middle colic artery originates from or with replaced right hepatic artery (from superior mesenteric artery)

Variations in Colic Arteries 12



Middle colic artery has common origin with right gastroepiploic (gastroomental) artery from superior mesenteric artery

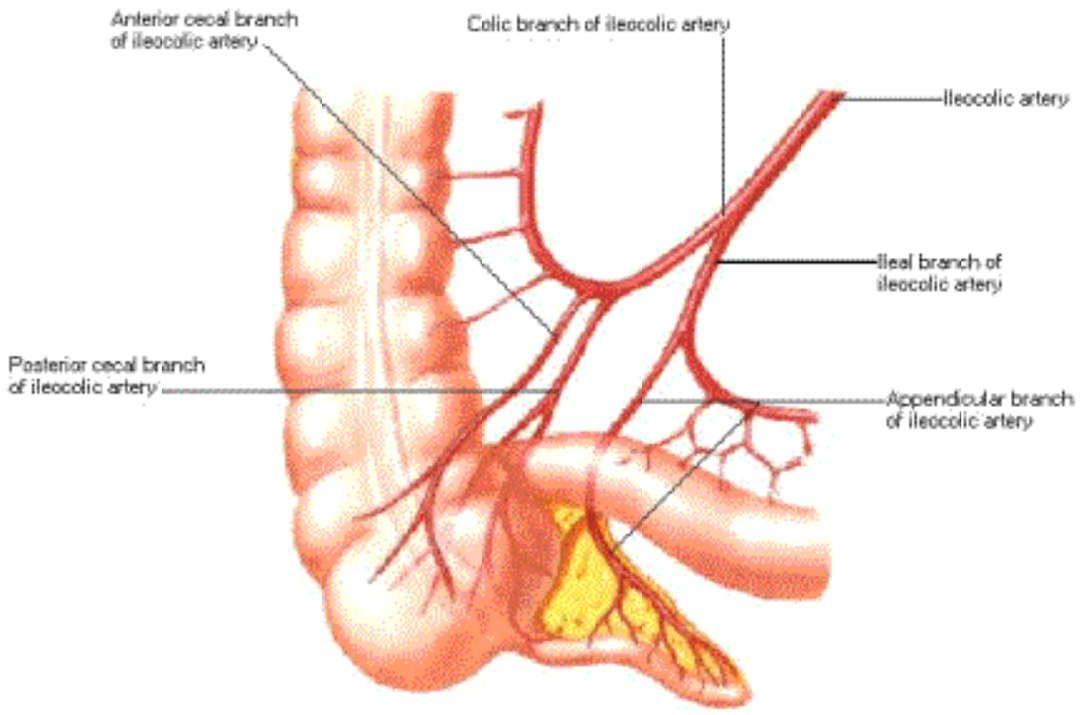
Variations in Cecal and Appendicular Arteries 1



Anterior cecal and posterior cecal arteries originate from arcade between colic and ileal branches of ileocolic; appendicular artery from ileal branch

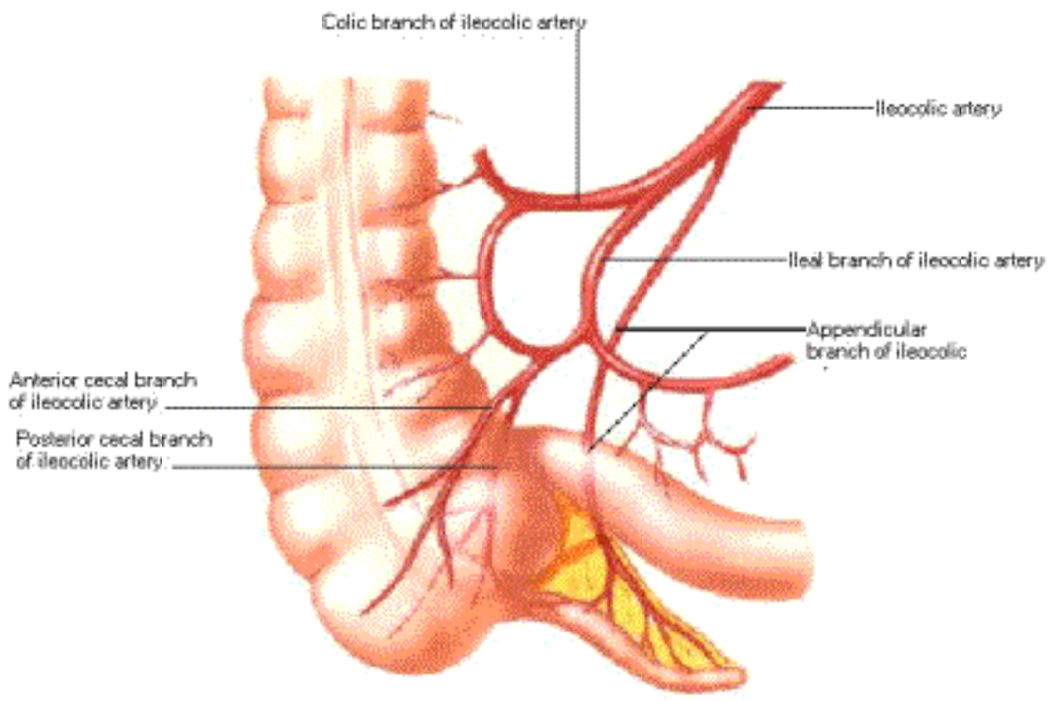
F. Netter M.D. ©Novartis

Variations in Cecal and Appendicular Arteries 2



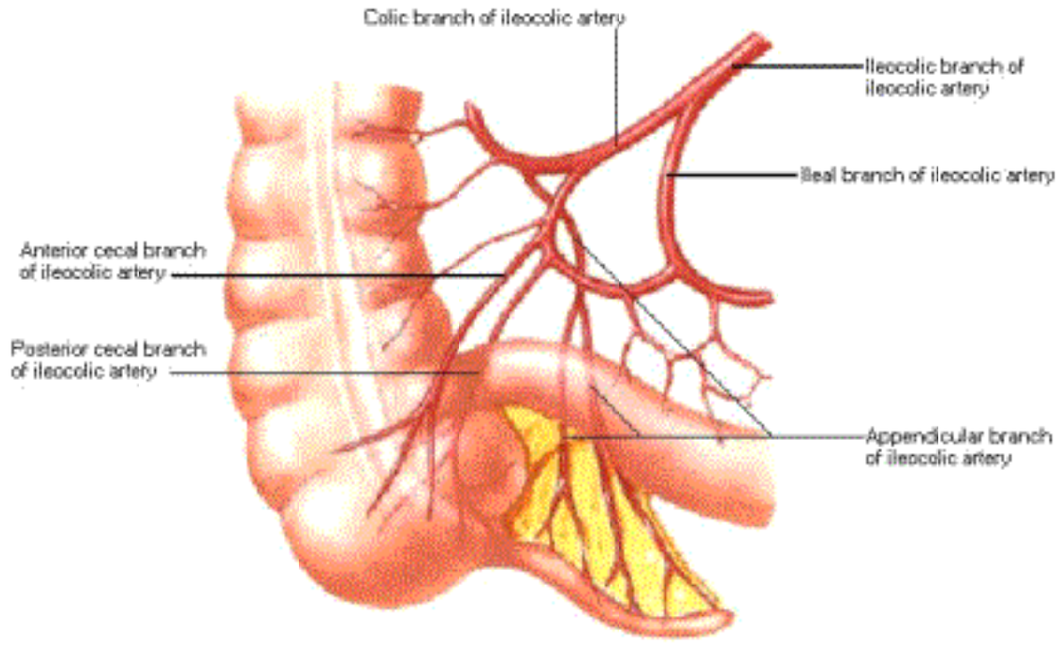
Anterior cecal and posterior cecal arteries originate from colic branch; appendicular artery from ileal branch of ileocolic artery

Variations in Cecal and Appendicular Arteries 3



Anterior cecal and posterior cecal arteries have common origin from arcade; appendicular artery from ileocolic artery proper

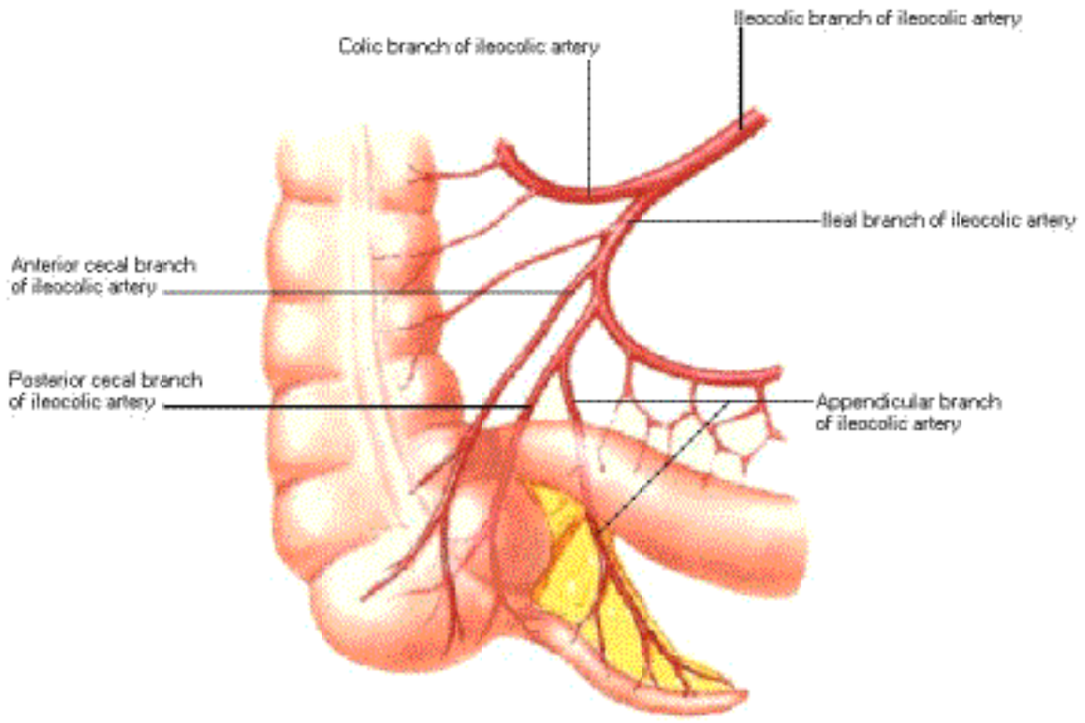
Variations in Cecal and Appendicular Arteries 4



Anterior cecal and posterior cecal arteries originate from arcade between colic and ileal branches of ileocolic artery; appendicular artery from colic branch bifurcates high

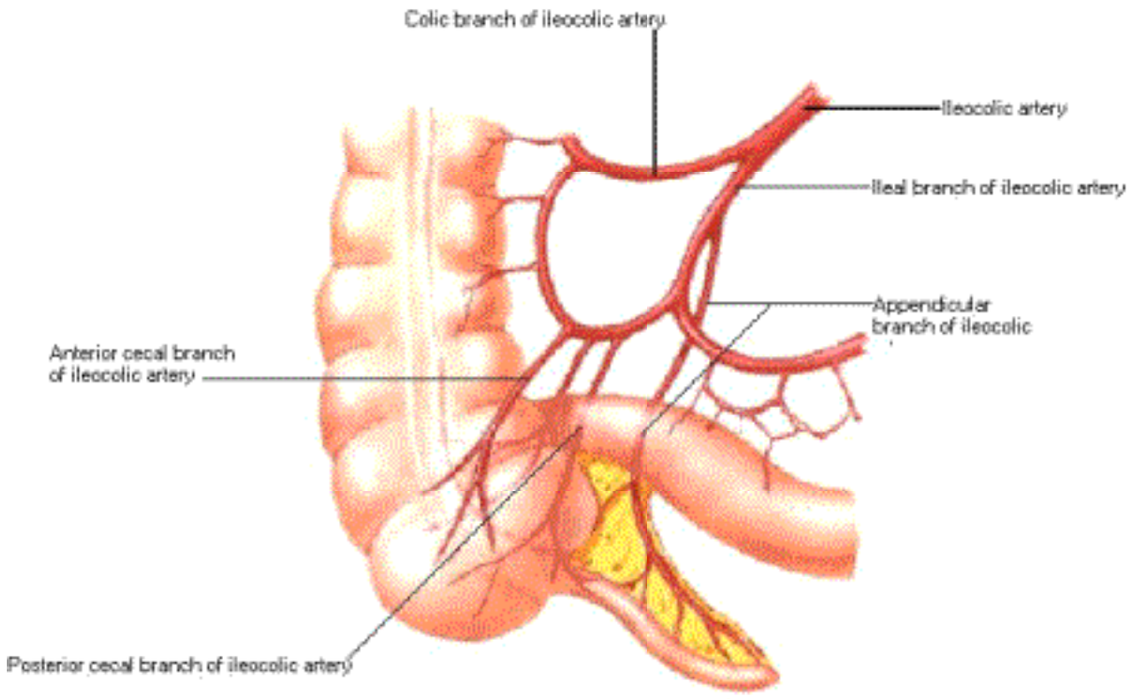
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Variations in Cecal and Appendicular Arteries 5



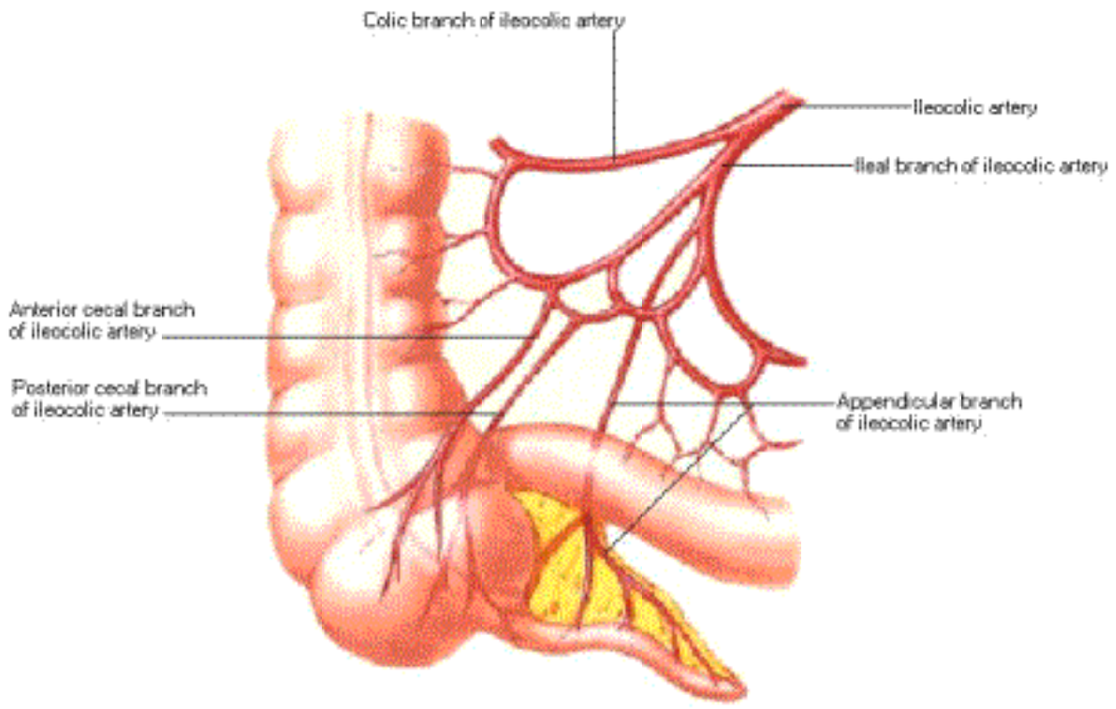
Anterior cecal and posterior cecal arteries originate from ileal branch of ileocolic artery; appendicular artery from posterior cecal artery

Variations in Cecal and Appendicular Arteries 6



Anterior cecal and two posterior cecal arteries originate from arcade; appendicular artery from ileal branch of ileocolic artery

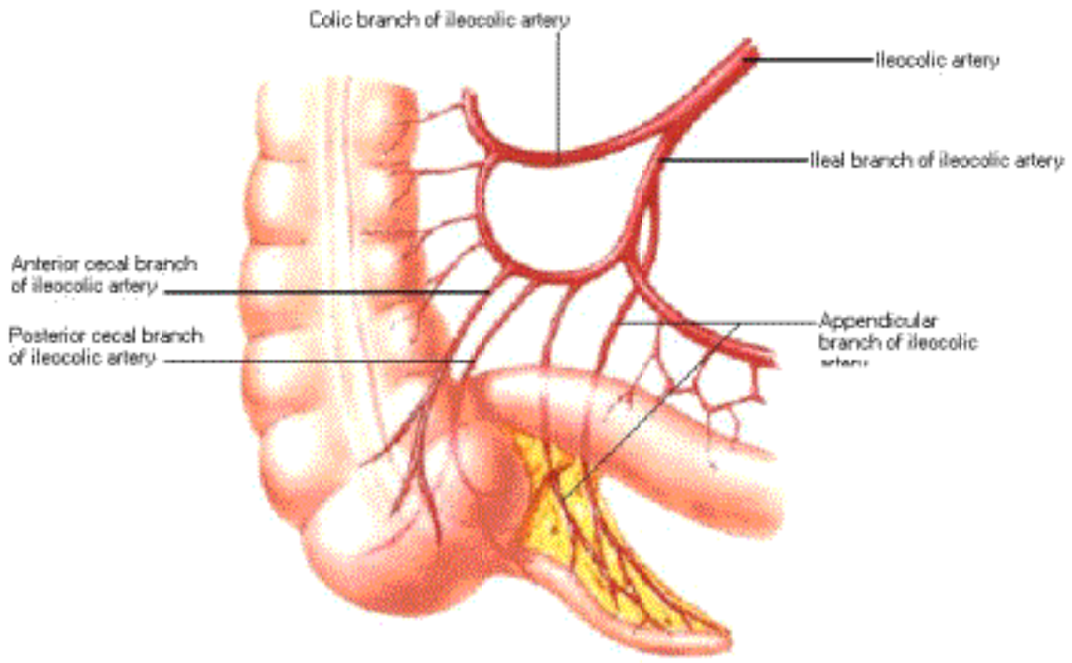
Variations in Cecal and Appendicular Arteries 7



Multiple arcades between ileal branch and colic branch of ileocolic artery; anterior cecal and posterior cecal arteries originate from these arcades; appendicular artery from ileal branch of ileocolic artery

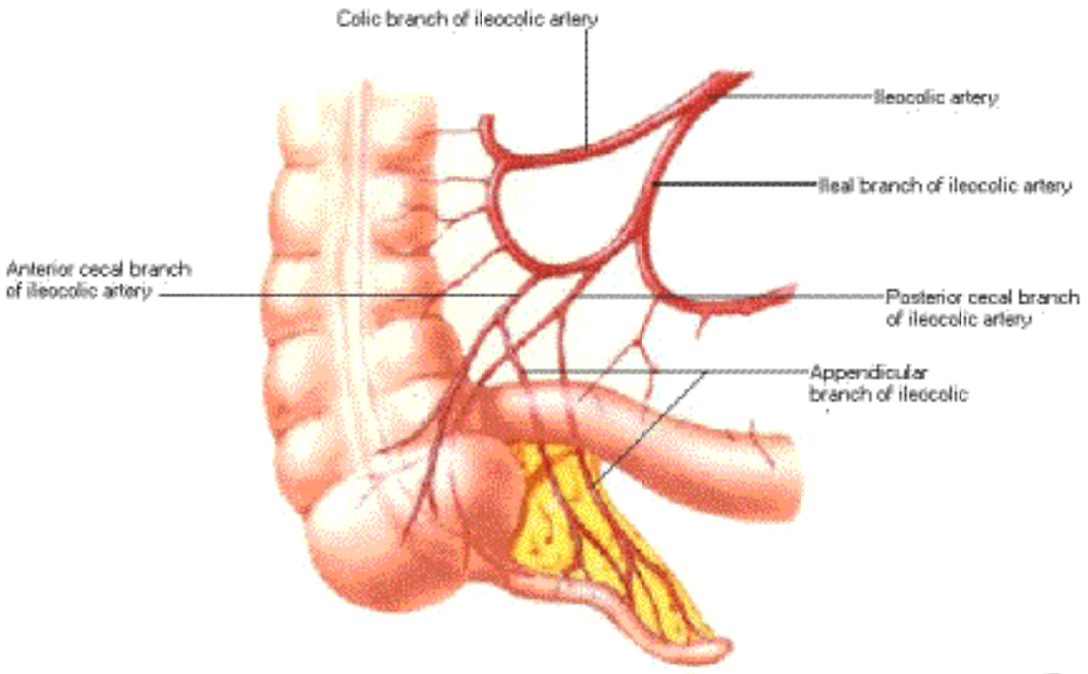
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Variations in Cecal and Appendicular Arteries 8



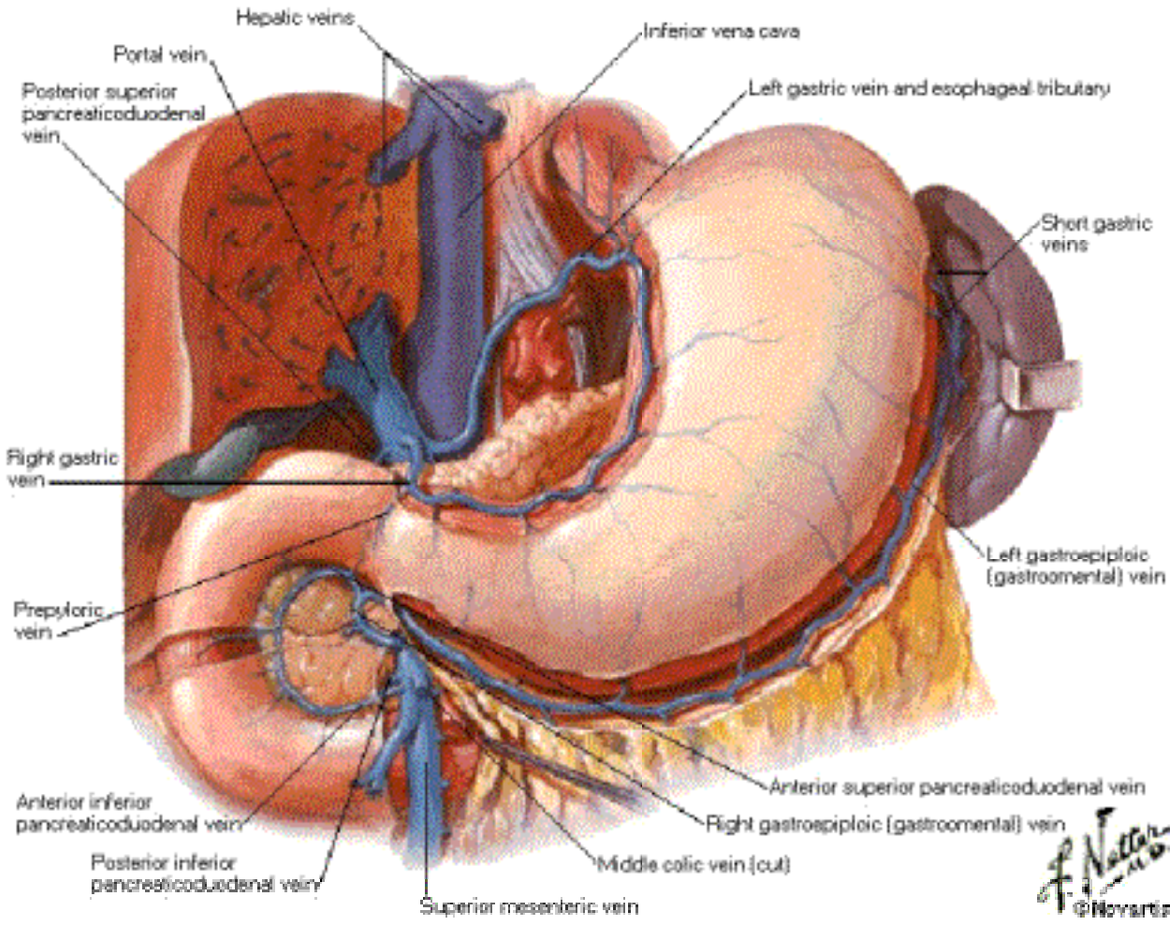
Anterior cecal and posterior cecal arteries originate from arcade between colic and ileal branches of ileocolic artery; two appendicular arteries, one from arcade, one from ileal branch of ileocolic artery

Variations in Cecal and Appendicular Arteries 9

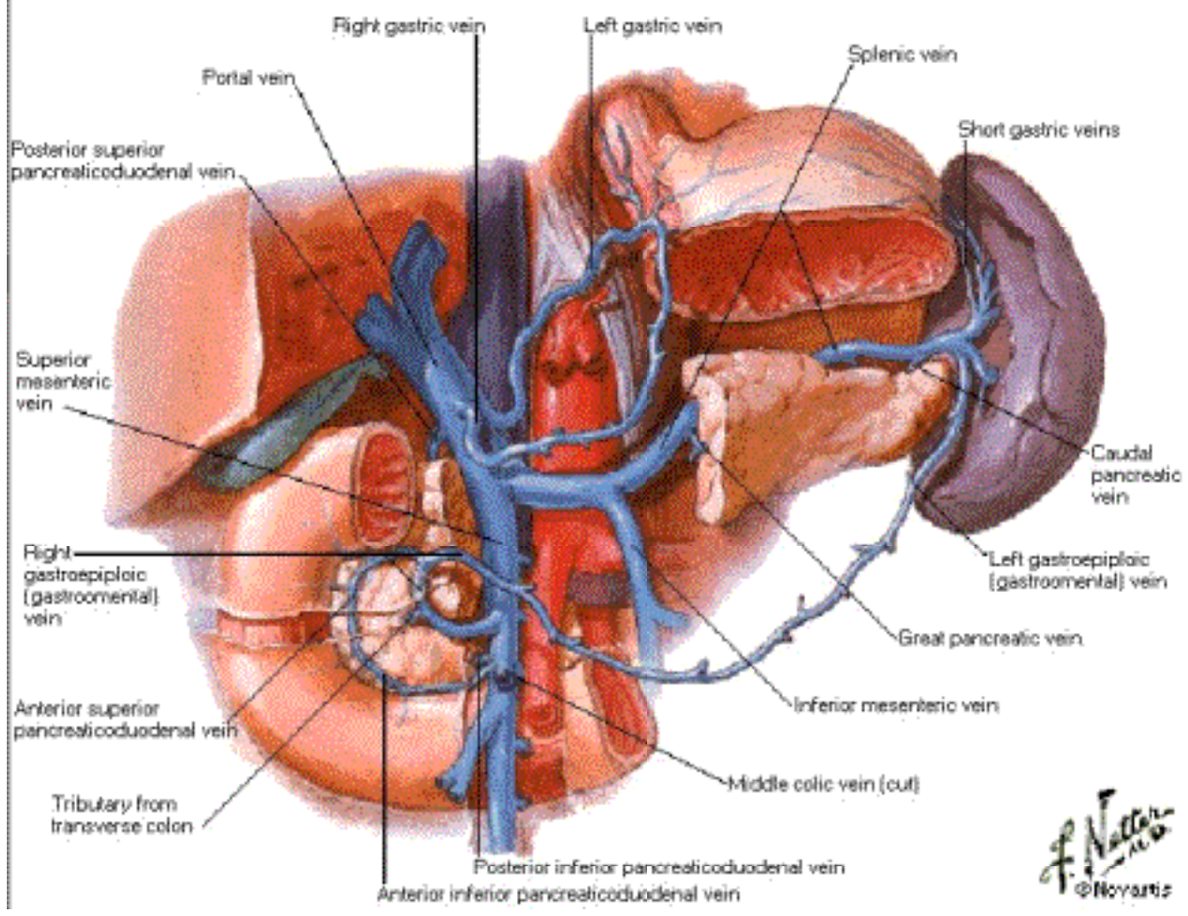


Anterior cecal and posterior cecal arteries originate from arcade; two appendicular arteries, one from anterior cecal, other from posterior cecal artery

Veins of Stomach, Duodenum and Pancreas

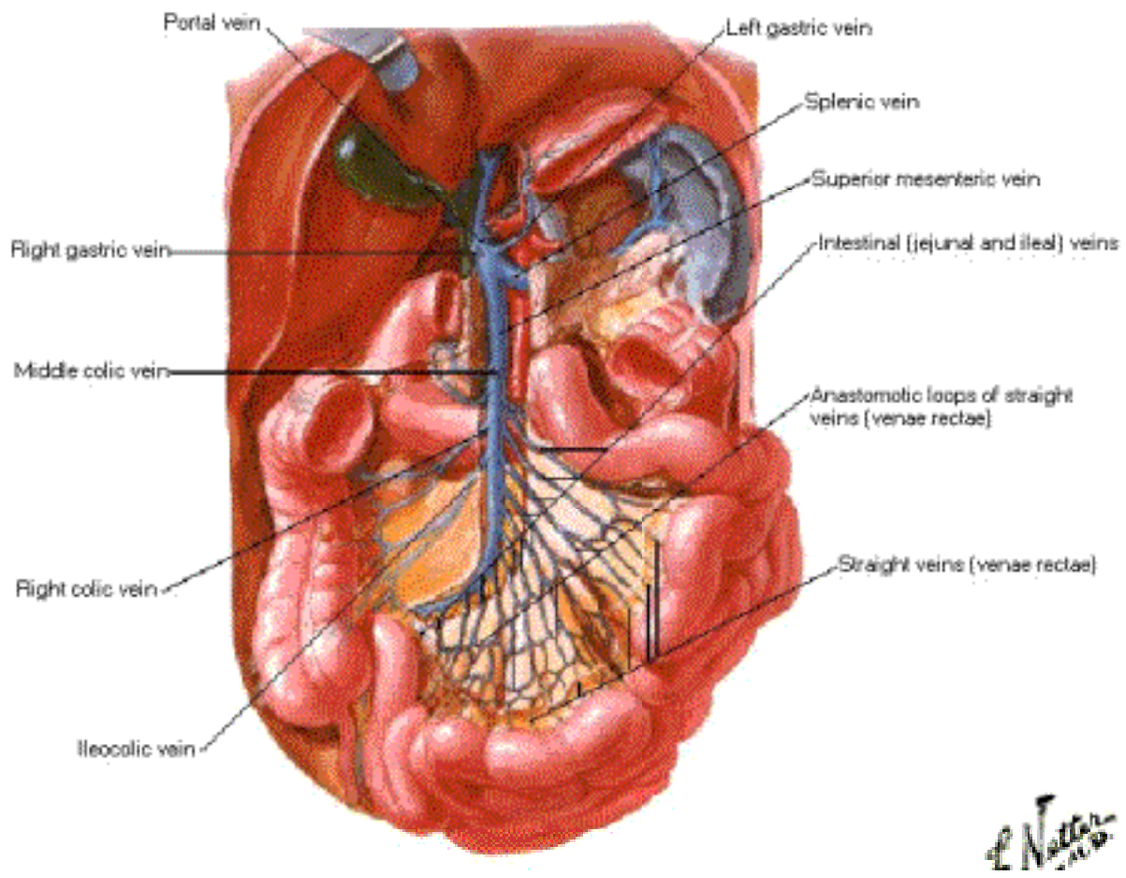


Veins of Stomach, Duodenum and Pancreas [Continued]



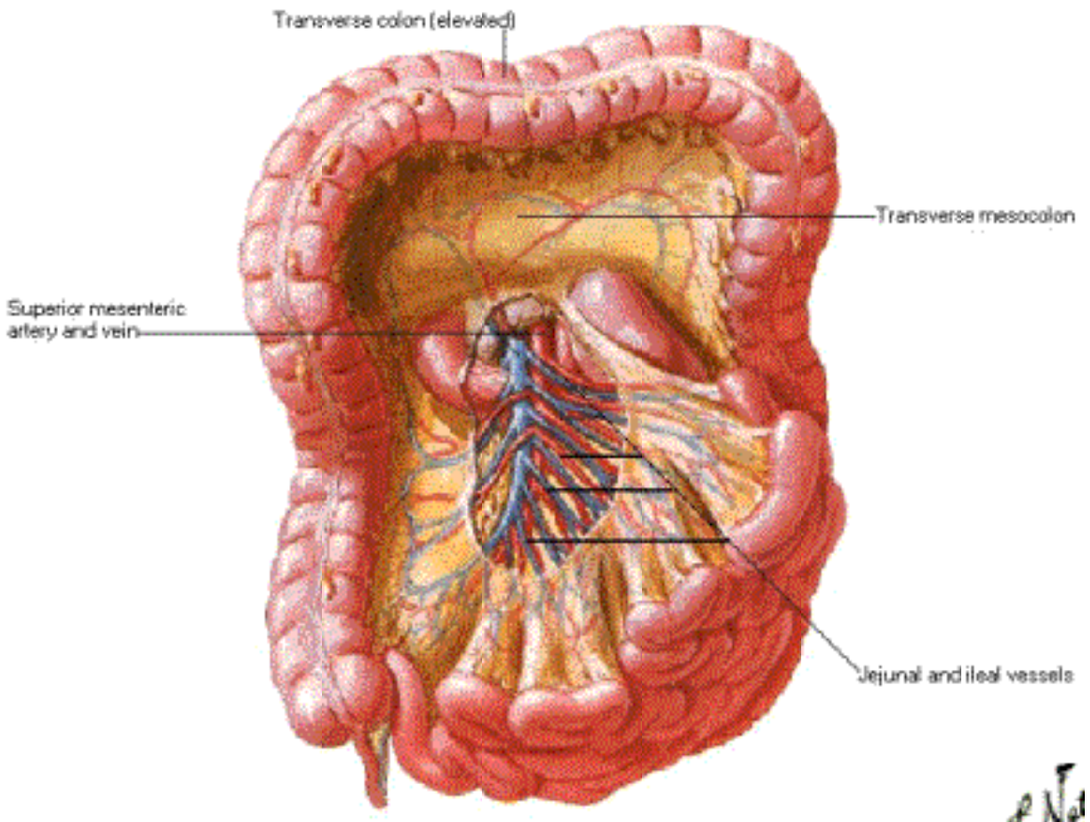
Veins of Small Intestine

Transverse Colon Cut



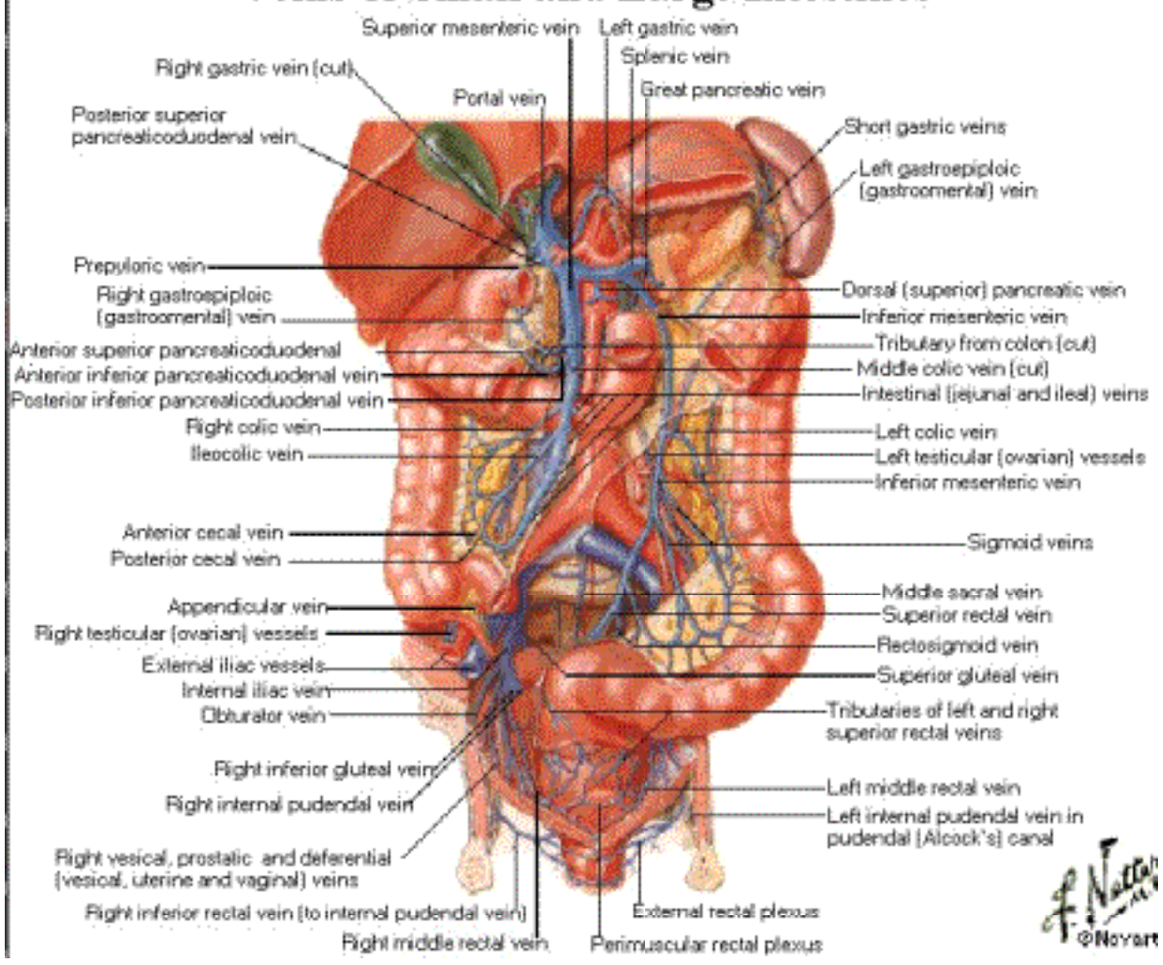
Veins of Small Intestine

Transverse Colon Elevated



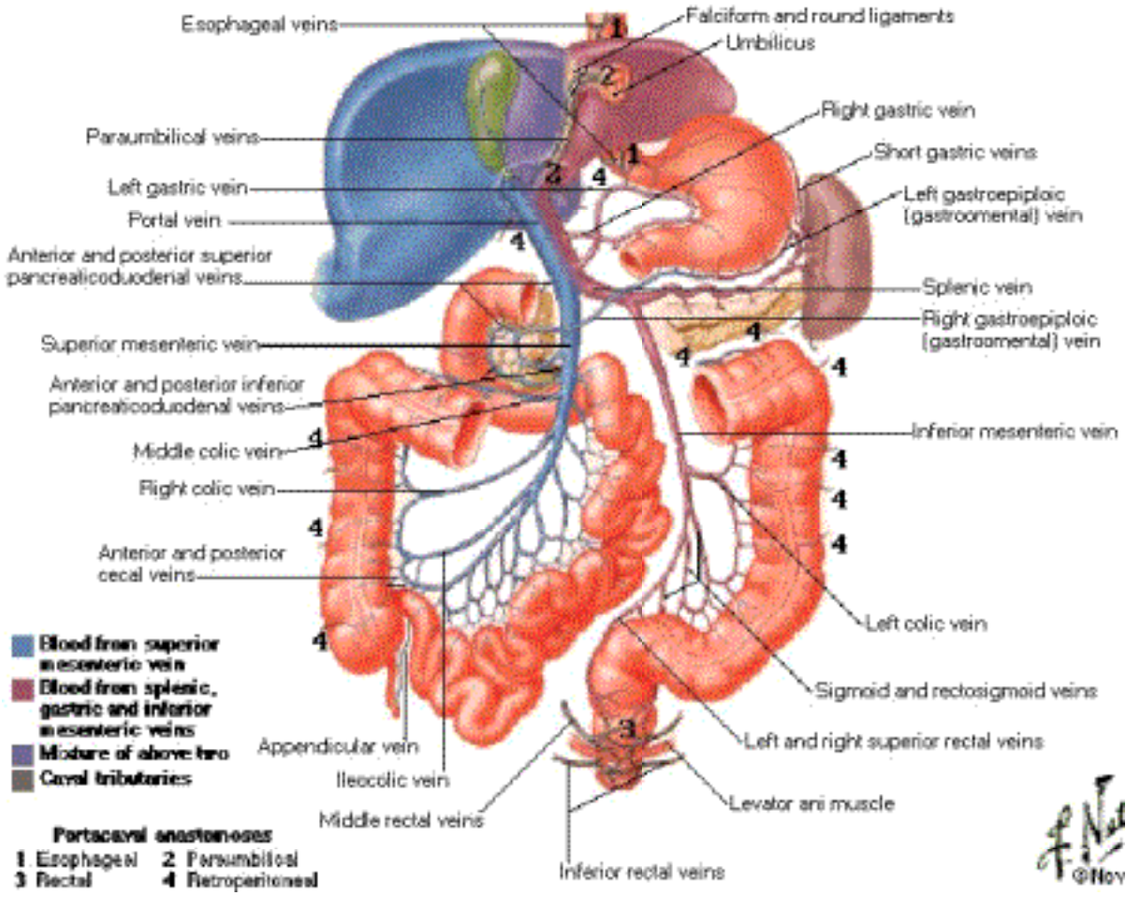
Relations of superior mesenteric vein and artery in root of mesentery

Veins of Small and Large Intestines

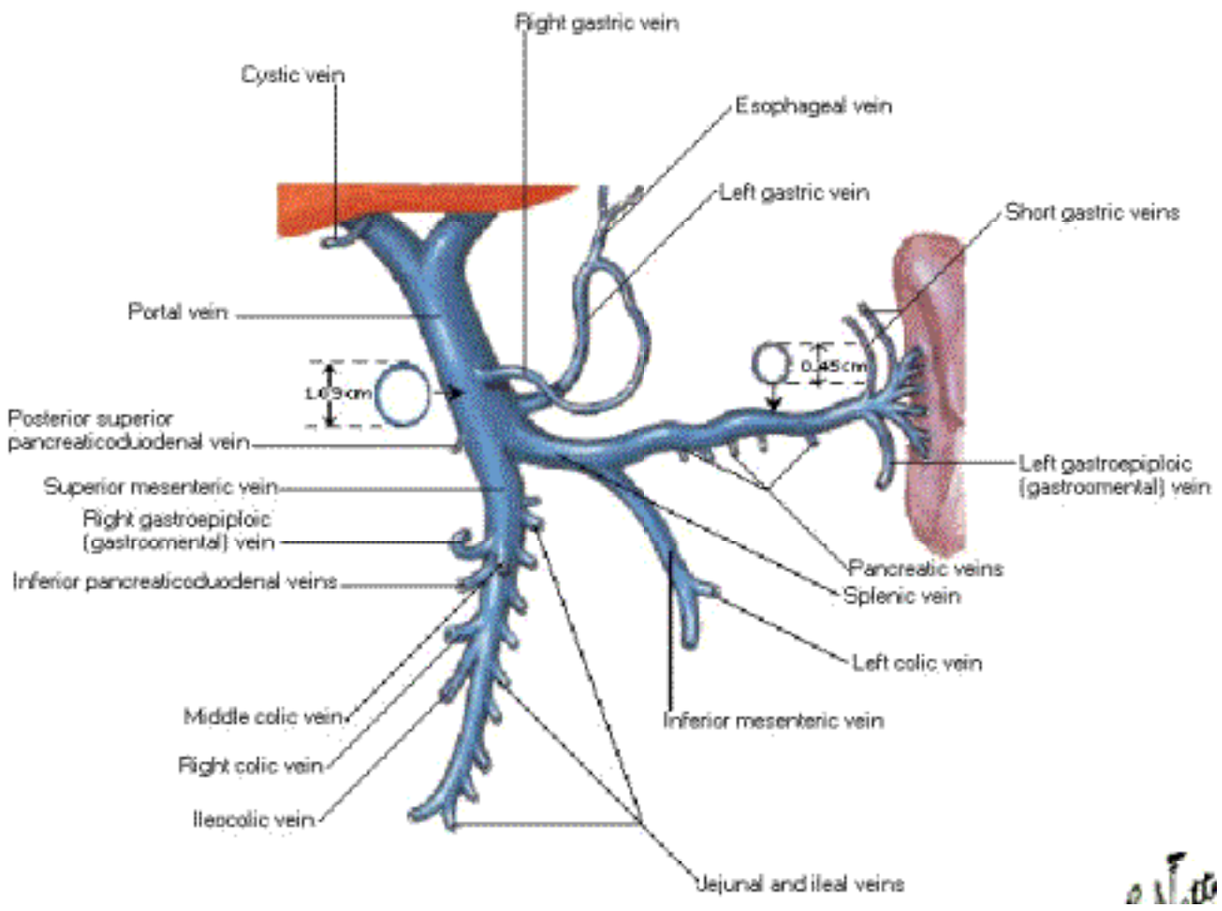


Portal Vein Tributaries

Portacaval Anastomoses

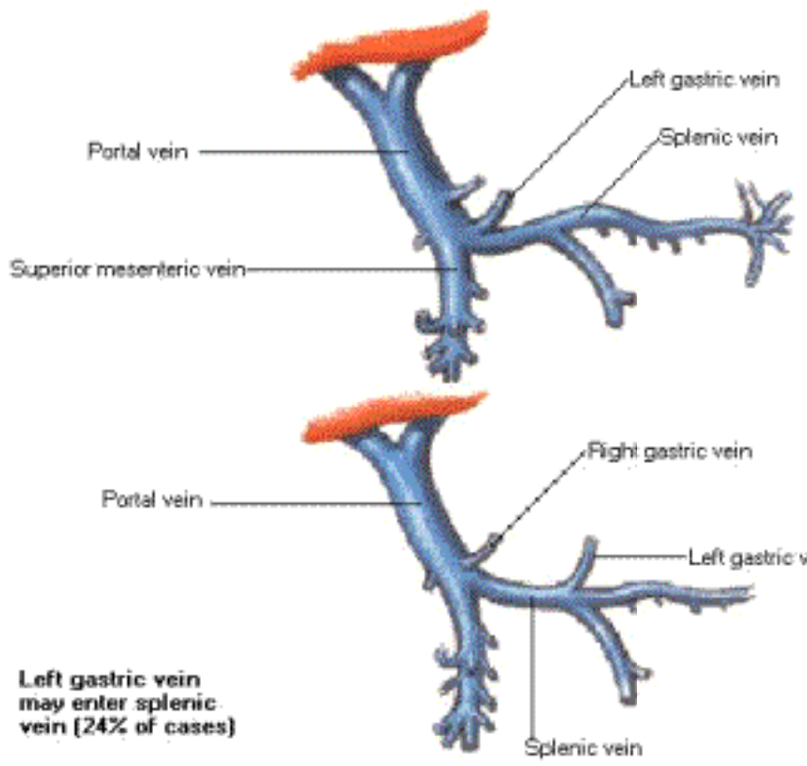


Typical Arrangement of Portal Vein



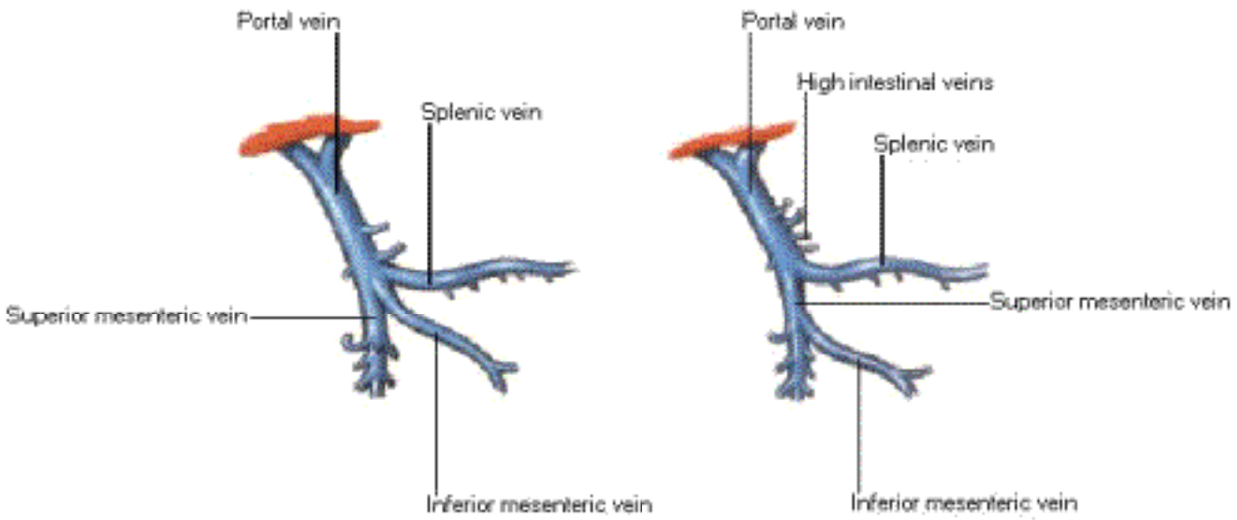
Variations of Portal Vein

Left gastric vein often enters junction of splenic and superior mesenteric veins



Left gastric vein may enter splenic vein (24% of cases)

Variations of Portal Vein [Continued]

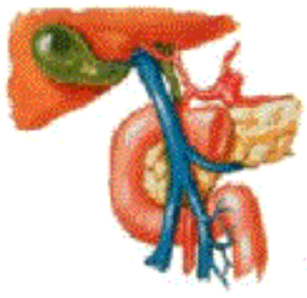


Inferior mesenteric vein may enter junction of splenic and superior mesenteric veins

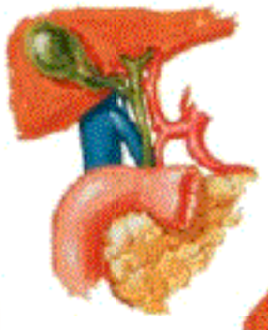
Inferior mesenteric vein may enter superior mesenteric vein

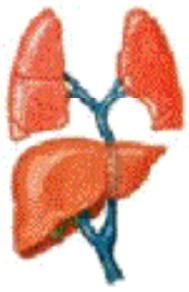
Anomalies of Portal Vein

Portal vein anterior to head of pancreas and 1st part of duodenum



Portal vein may enter inferior vena cava (hepatic arteries enlarged)



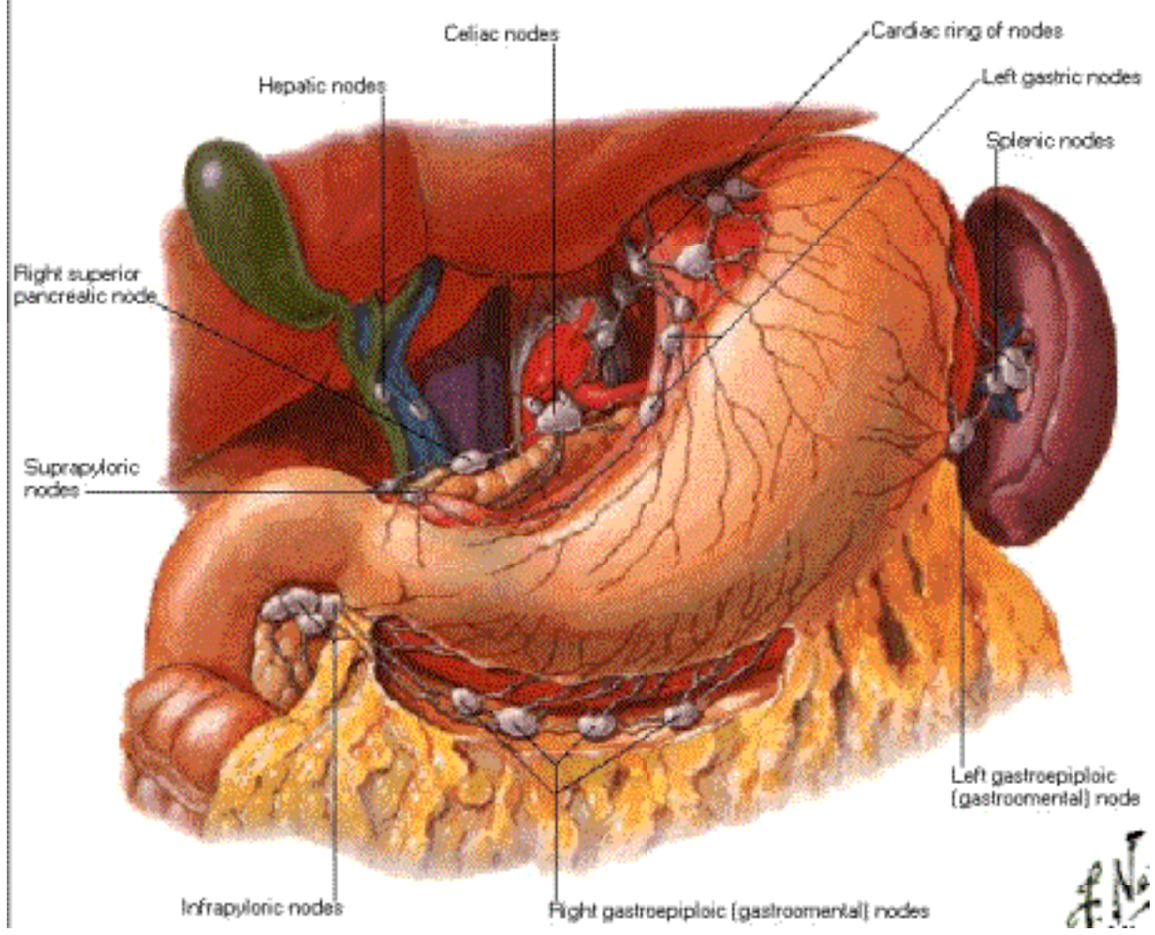




Pulmonary vein may enter portal vein

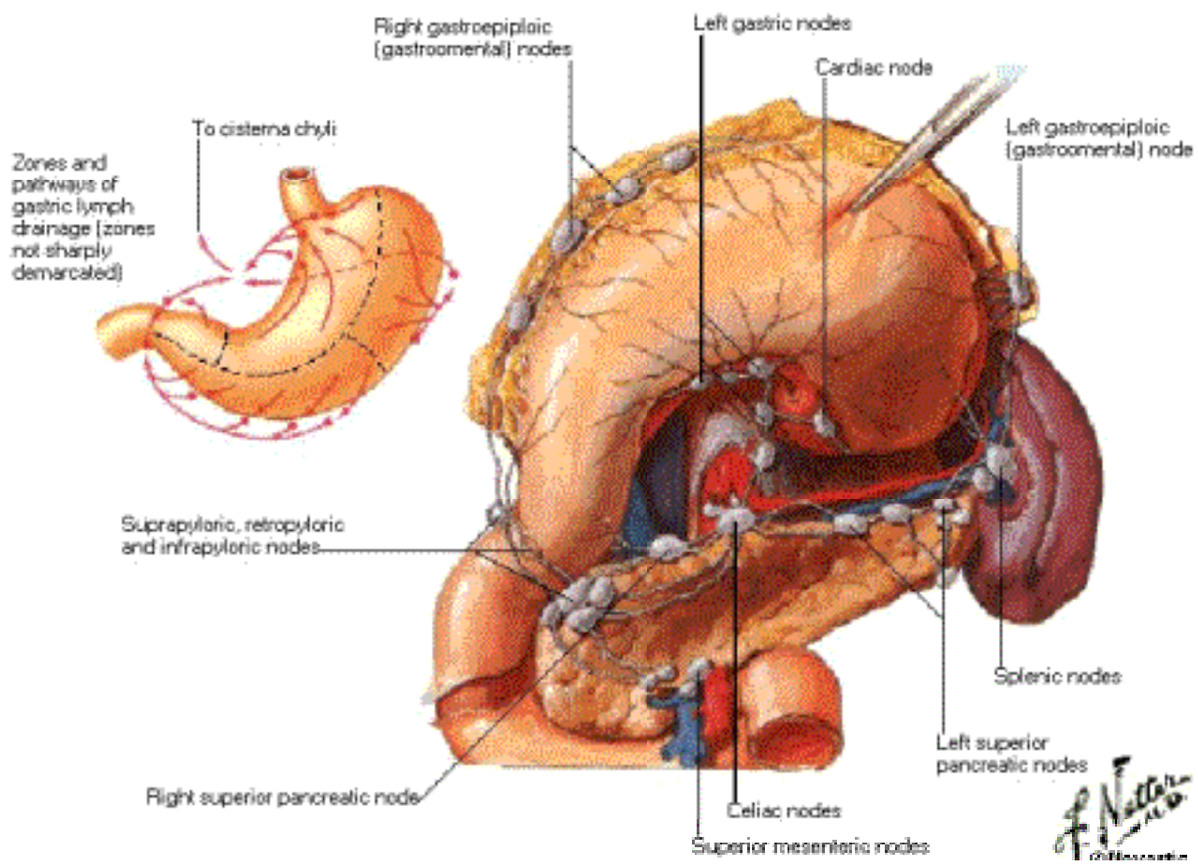
Congenital stricture of portal vein

Lymph Vessels and Nodes of Stomach

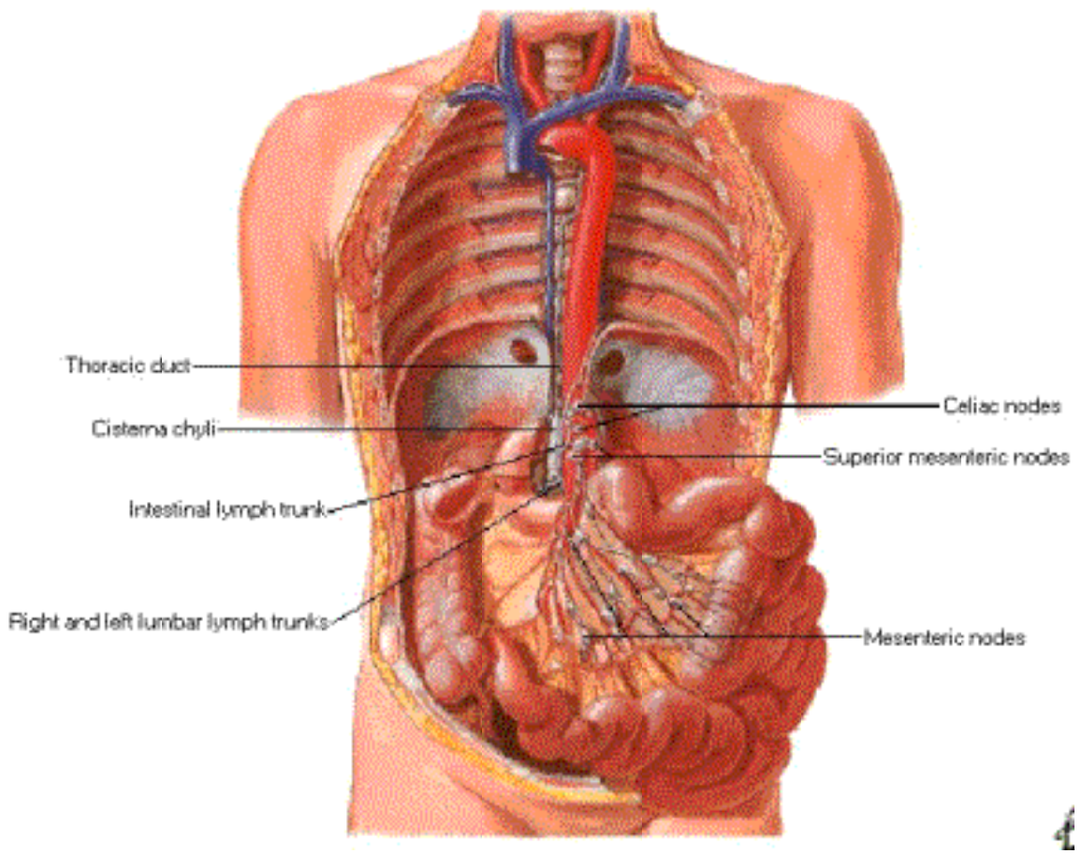


Lymph Vessels and Nodes of Stomach

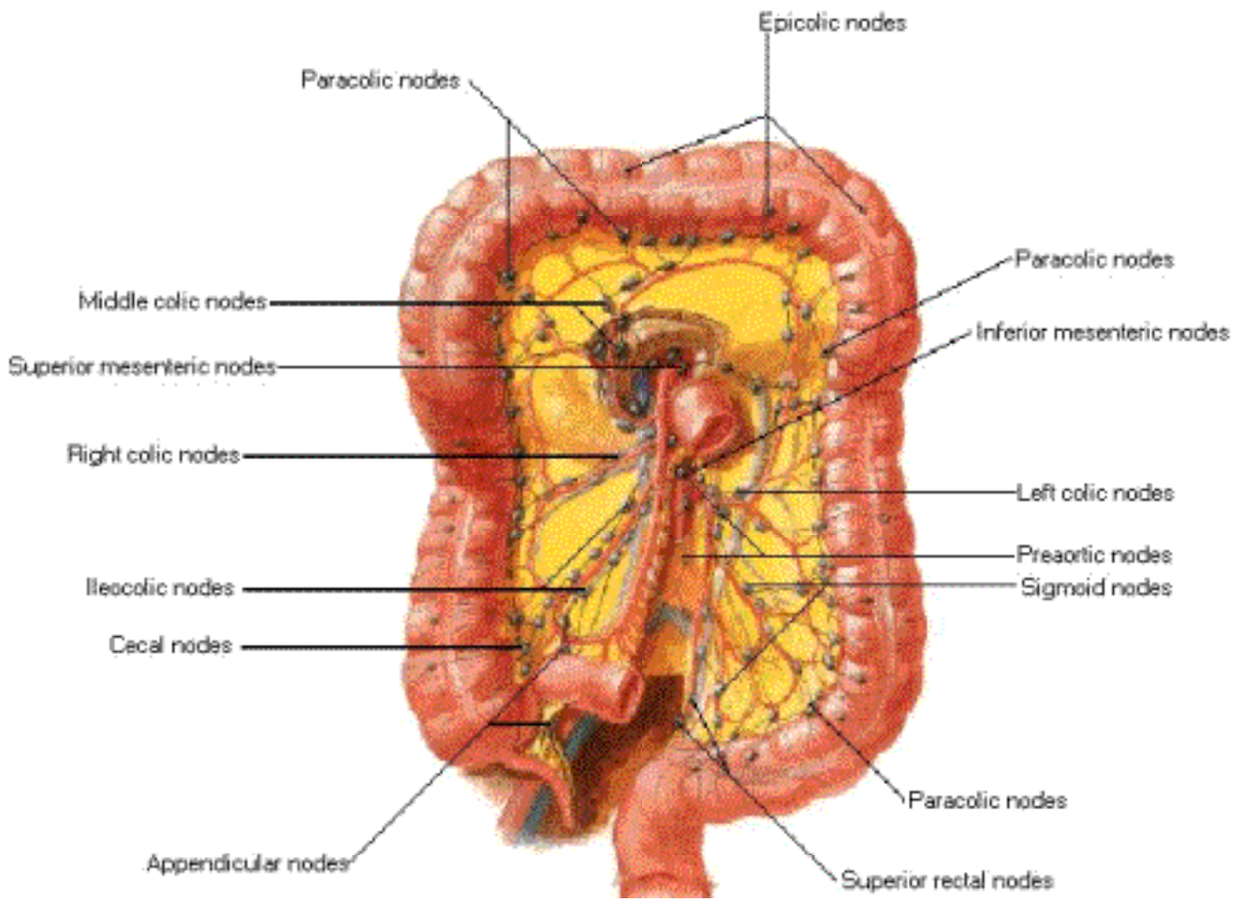
Stomach Reflected



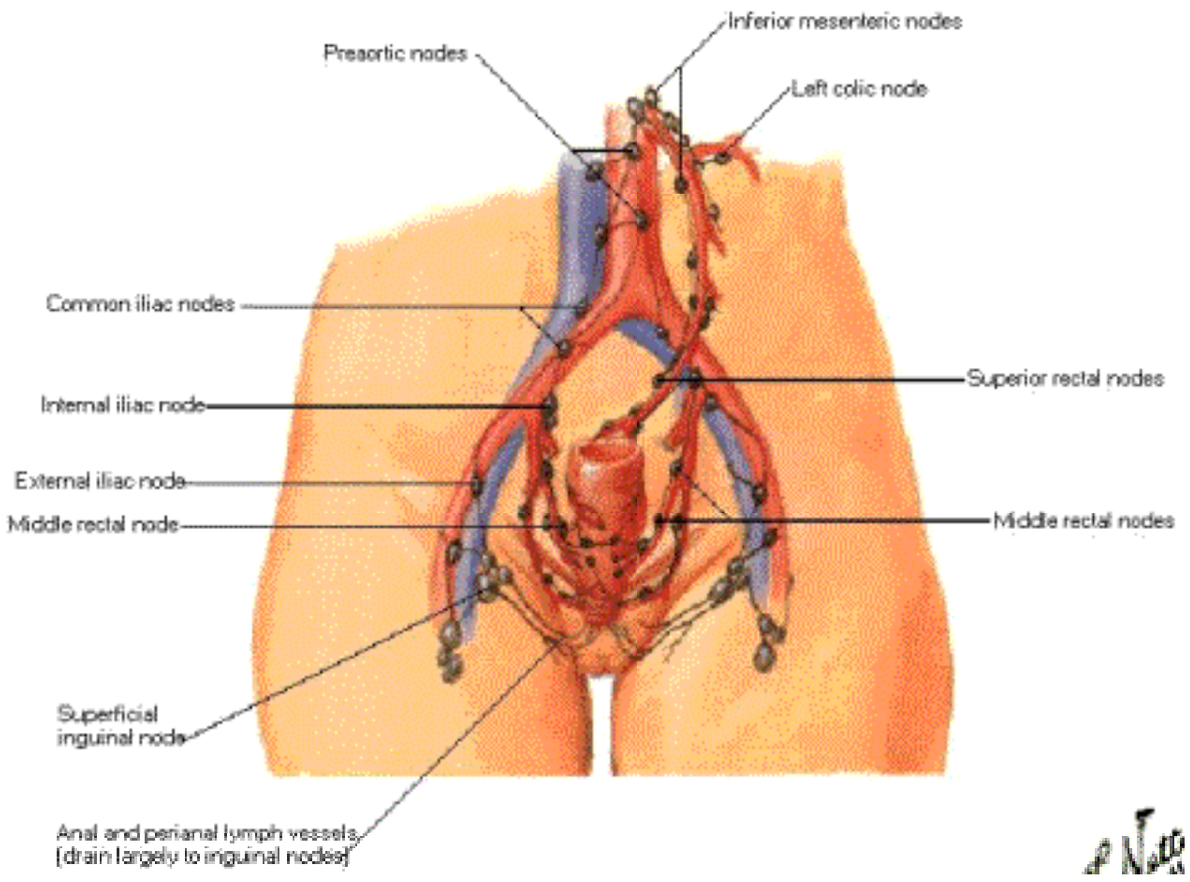
Lymph Vessels and Nodes of Small Intestine



Lymph Vessels and Nodes of Large Intestine

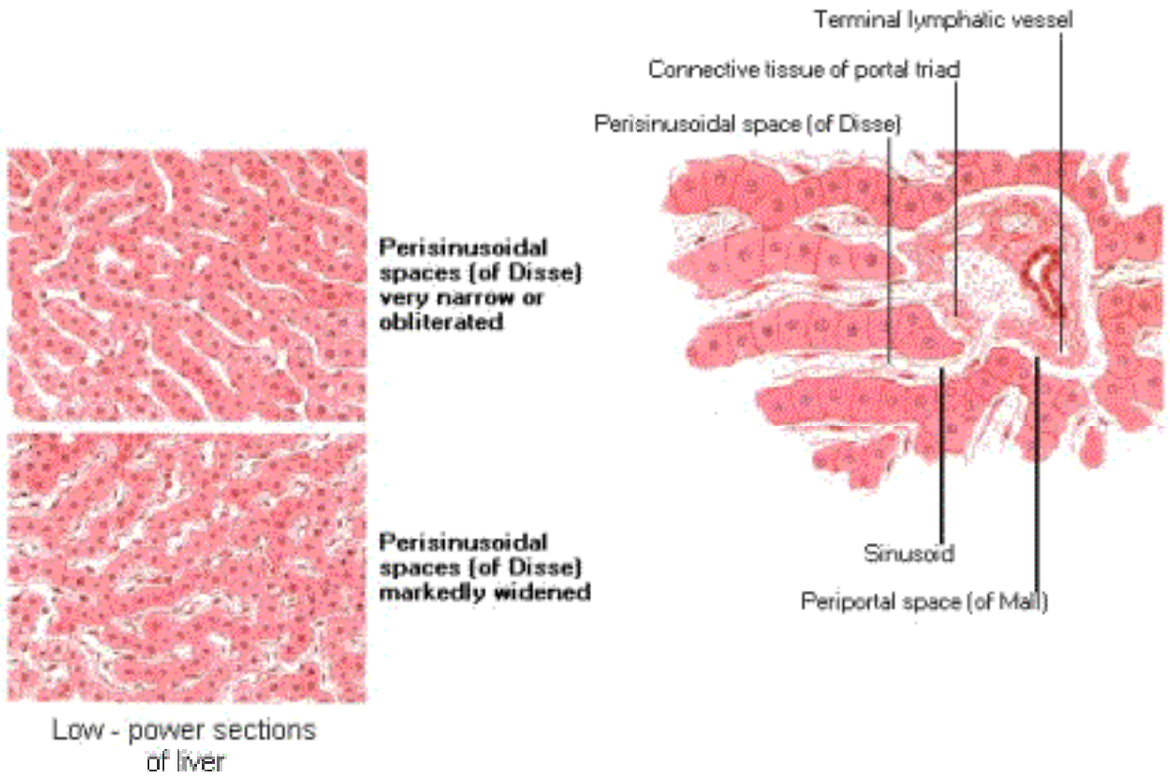


Lymph Vessels and Nodes of Large Intestine [Continued]

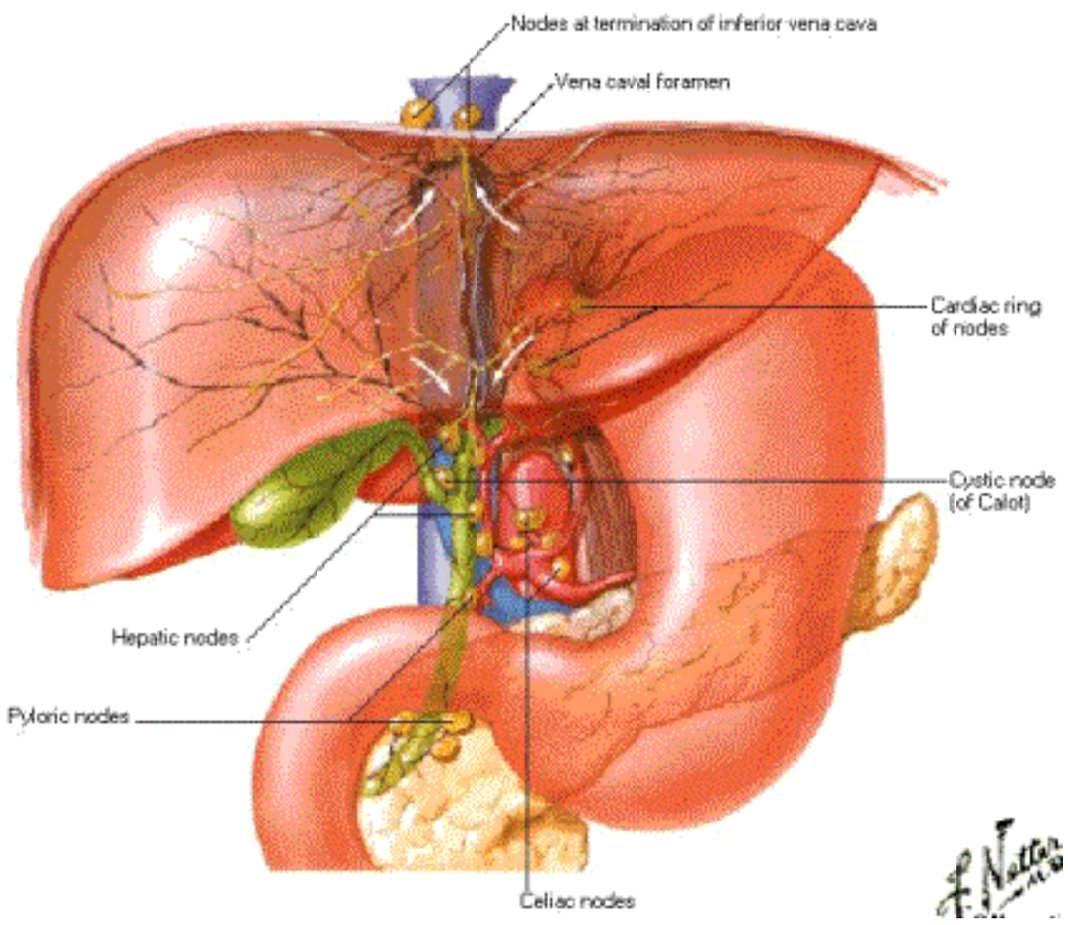


Lymph Vessels and Nodes of Liver

Histology

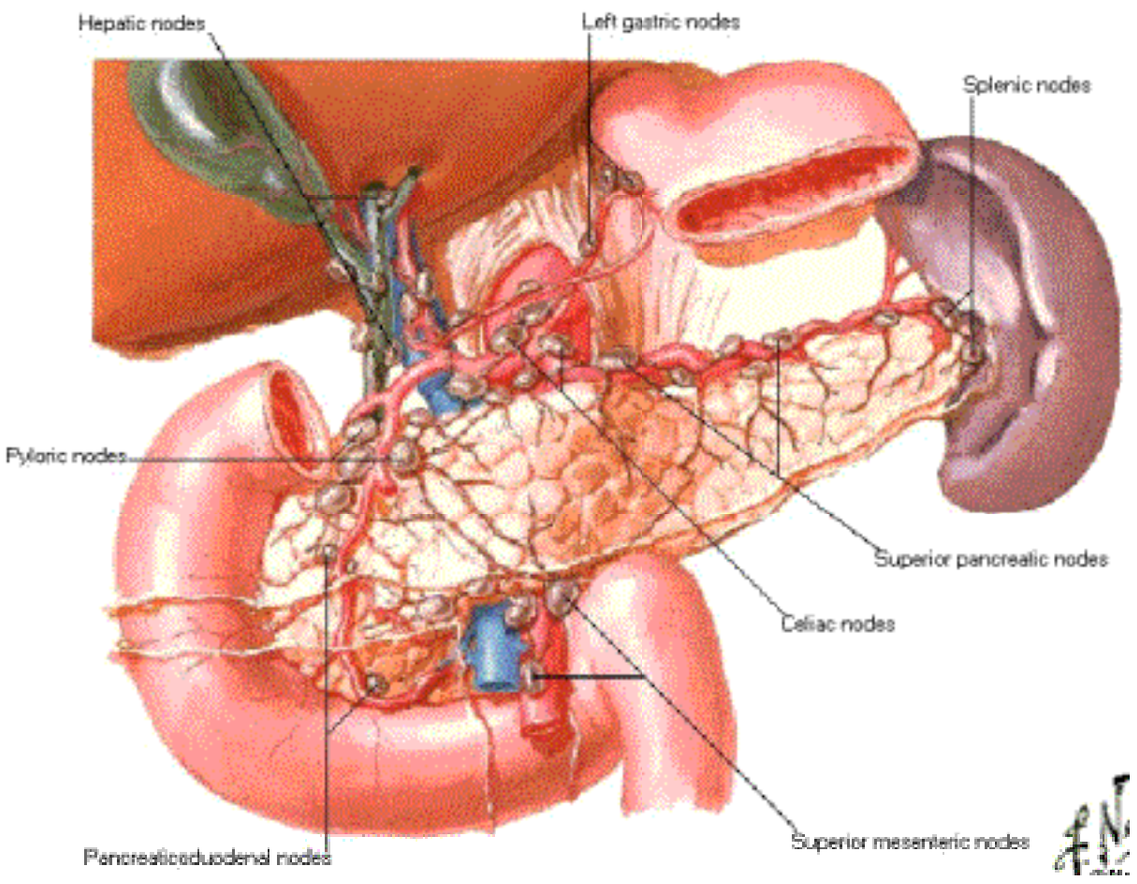


Lymph Vessels and Nodes of Liver



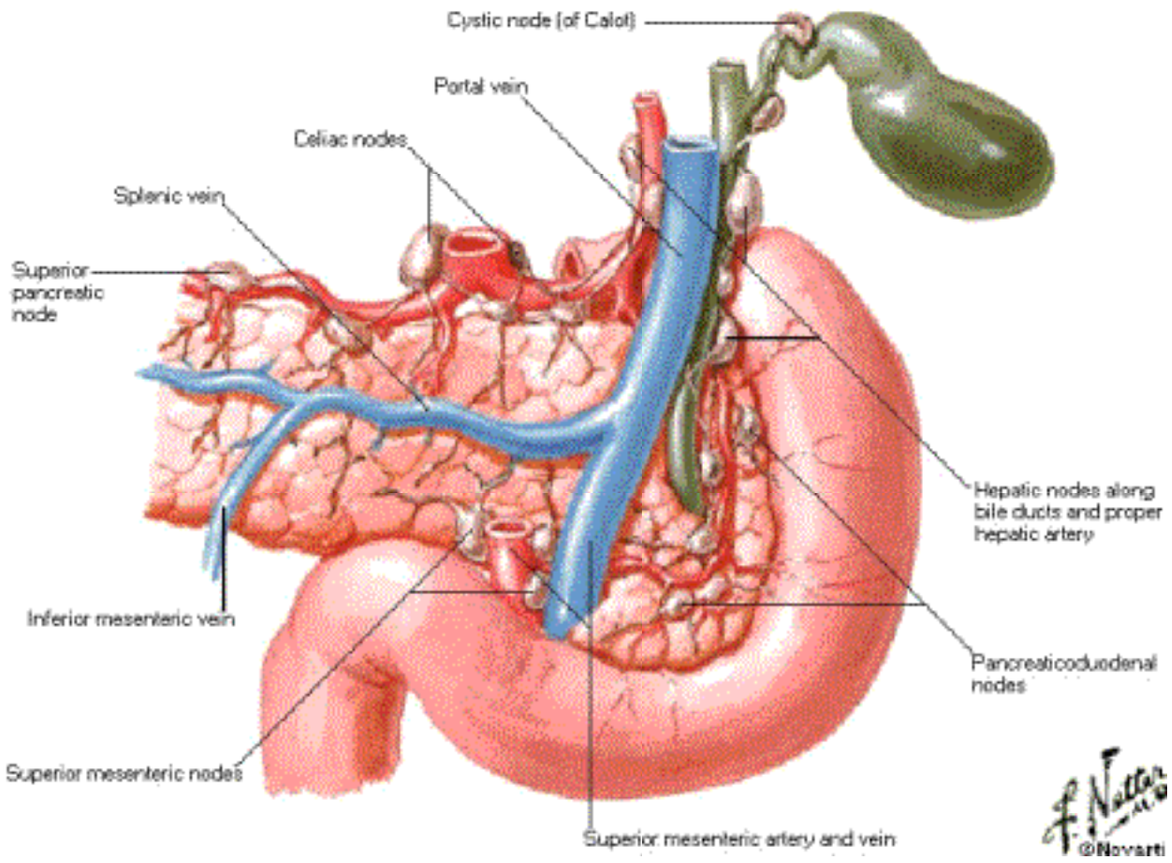
Lymph Vessels and Nodes of Pancreas

Anterior View

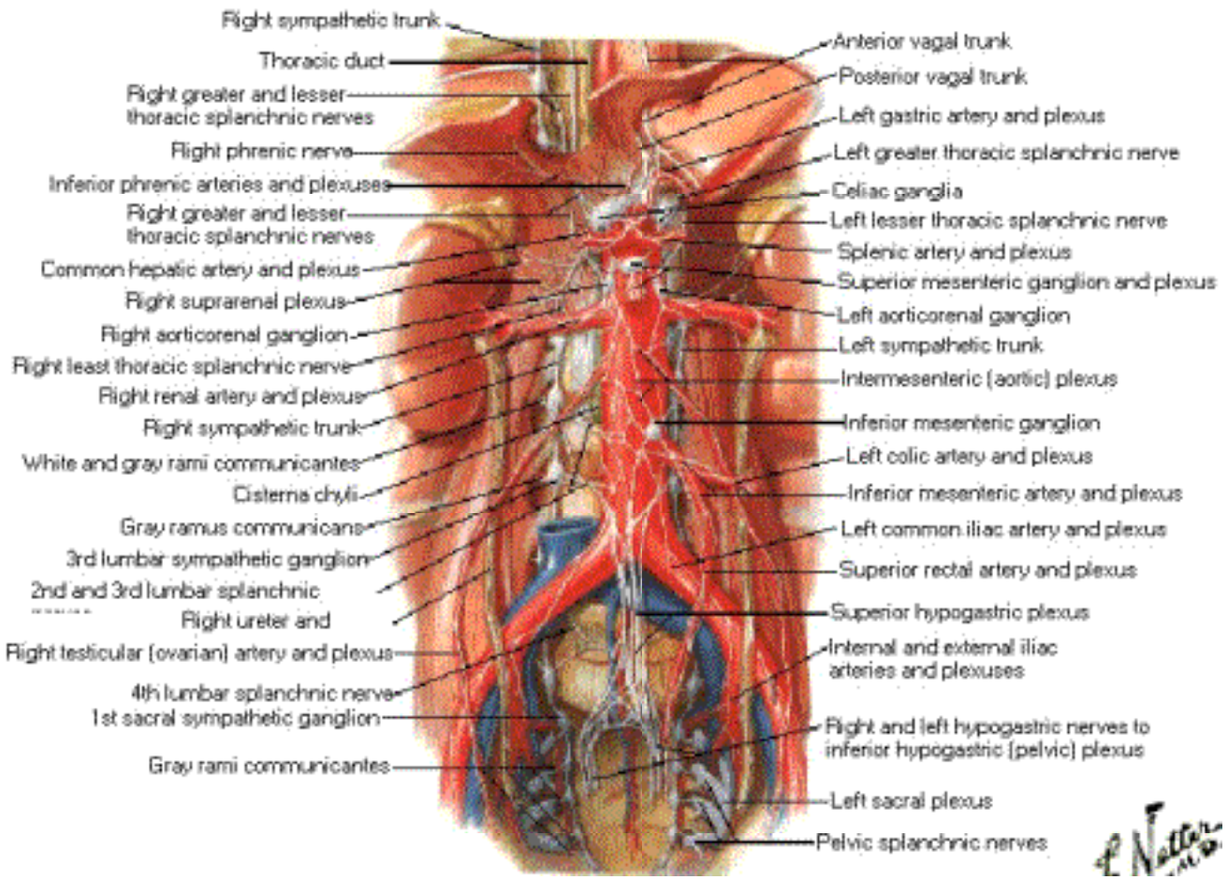


Lymph Vessels and Nodes of Pancreas

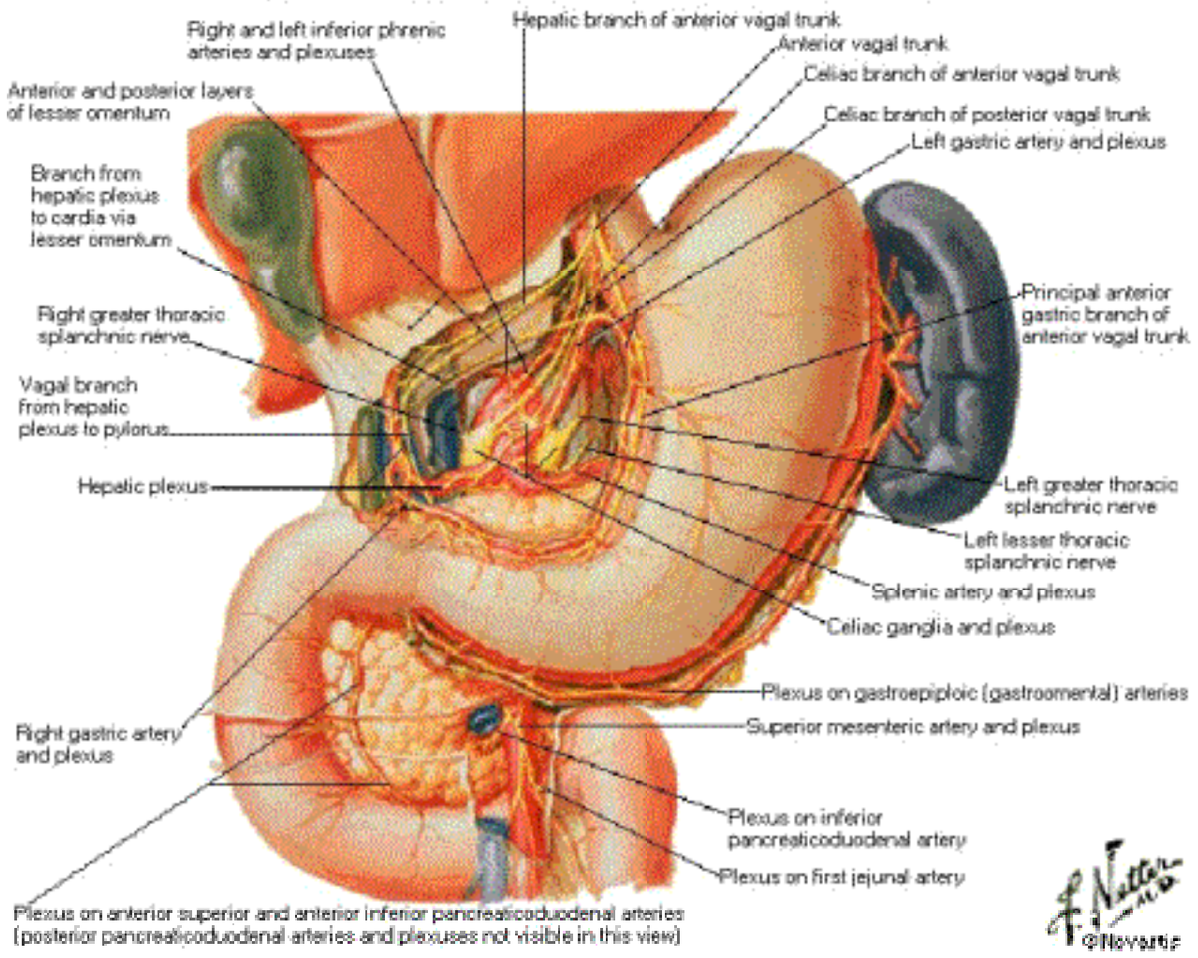
Posterior View



Autonomic Nerves and Ganglia of Abdomen



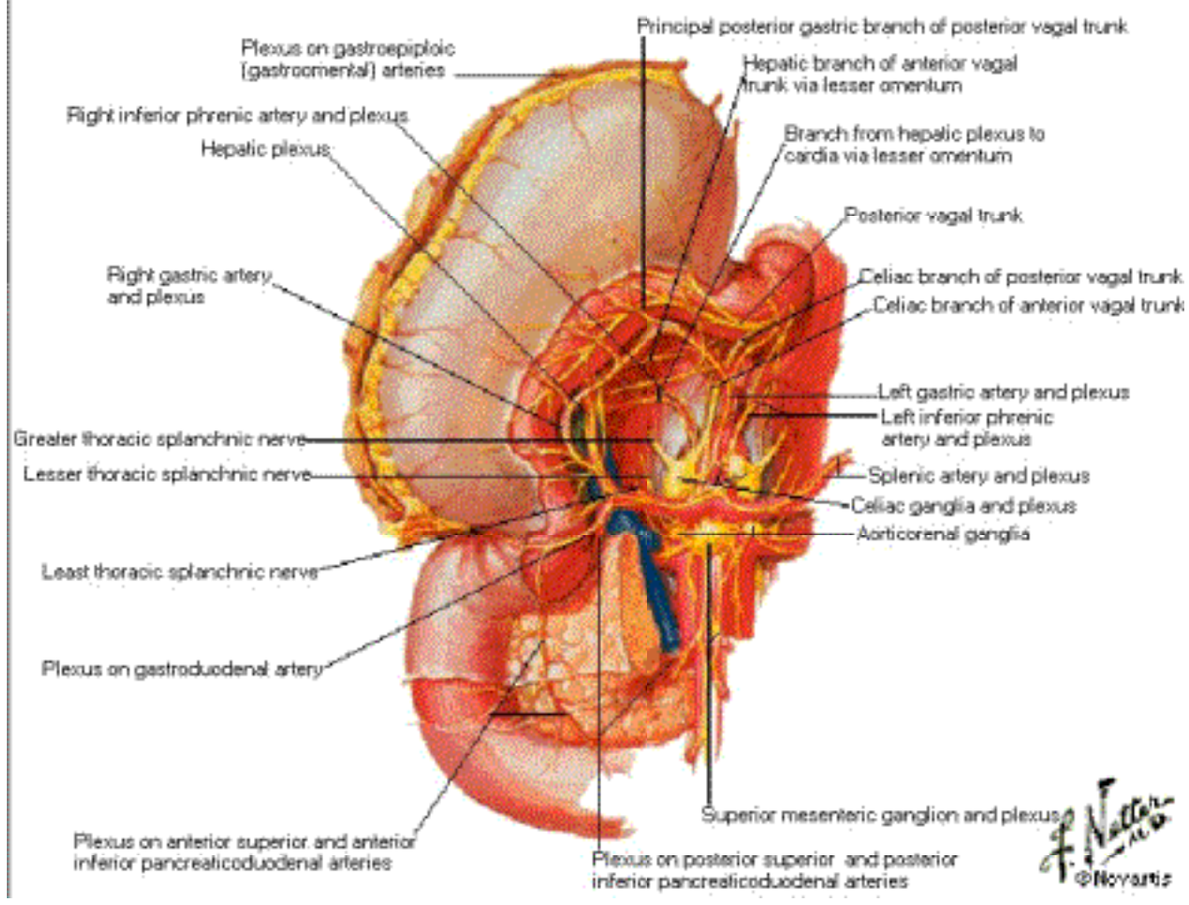
Nerves of Stomach and Duodenum



F. Netter M.D.
©Novartis

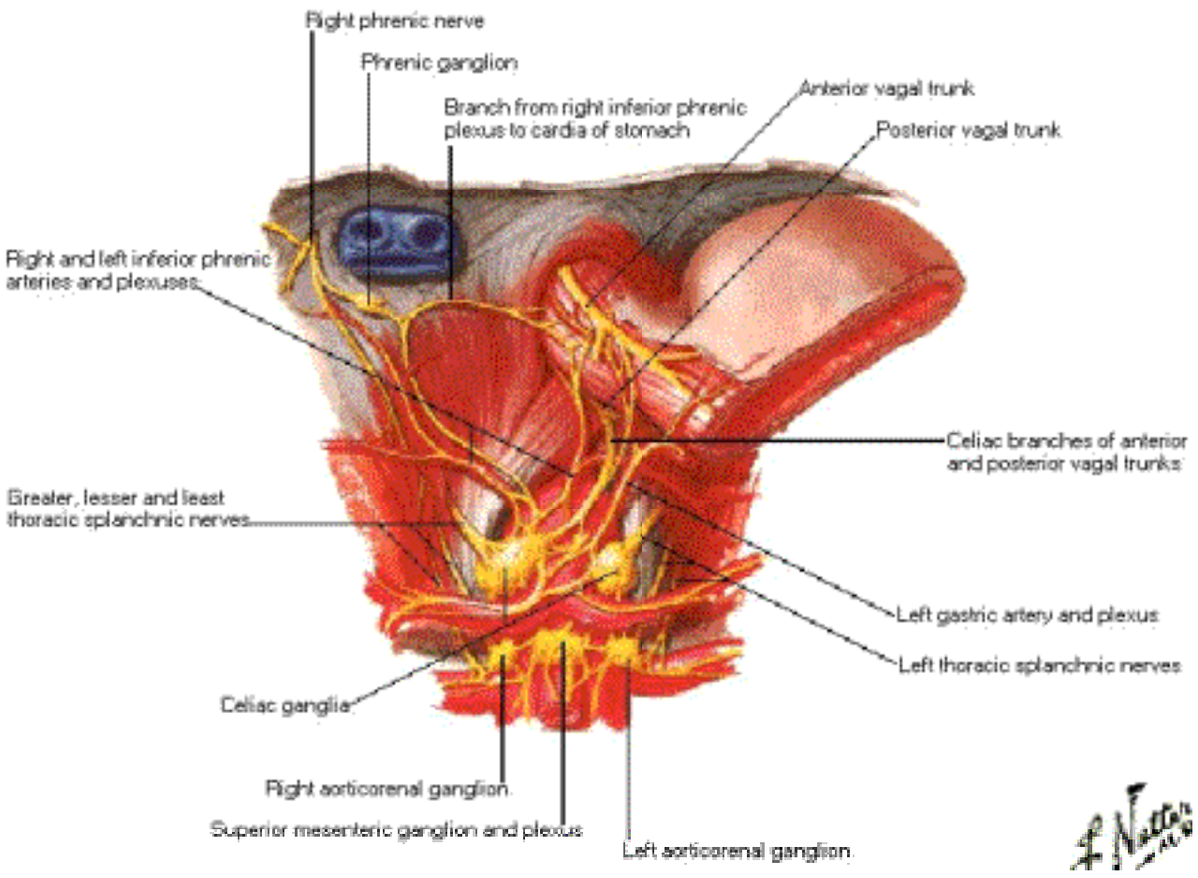
Nerves of Stomach and Duodenum

View with Stomach Reflected



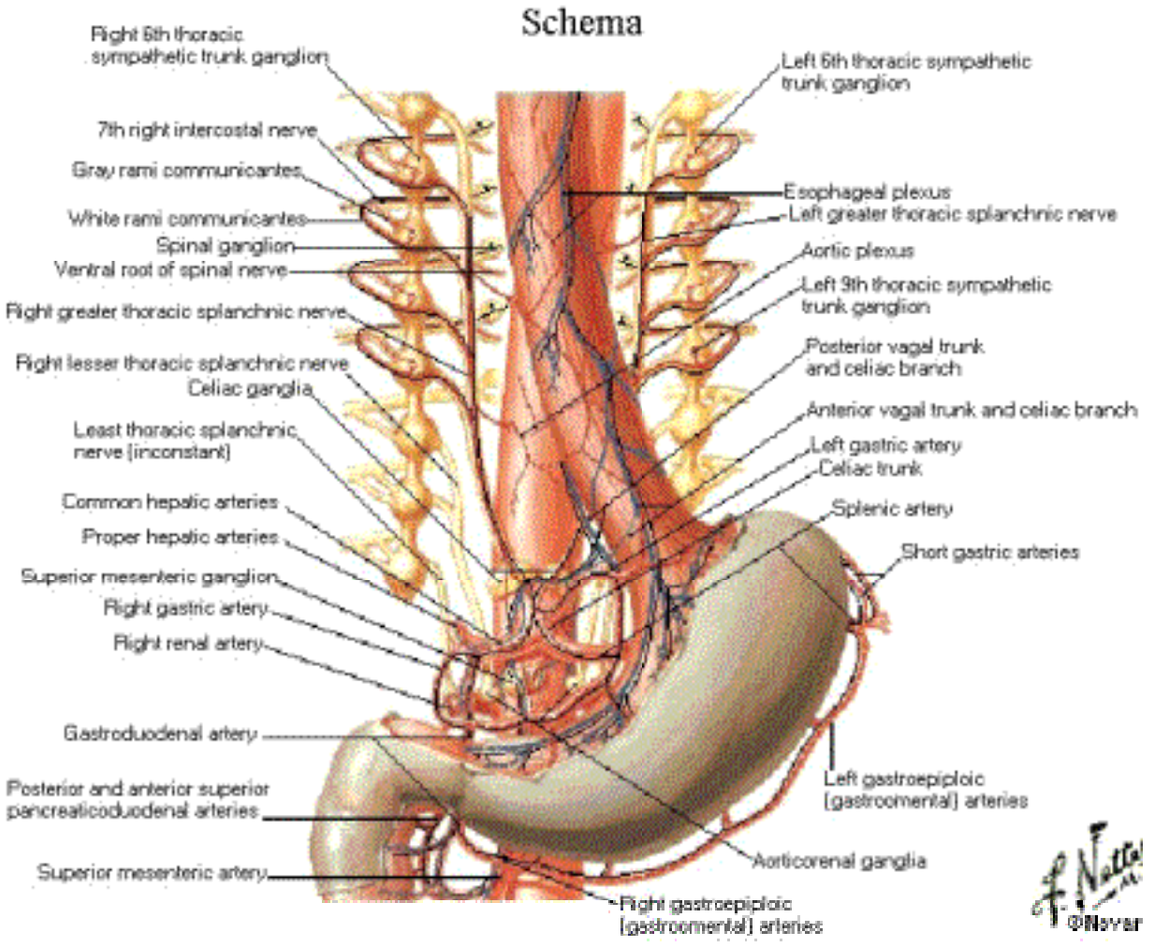
Nerves of Stomach and Duodenum

Hiatal Region

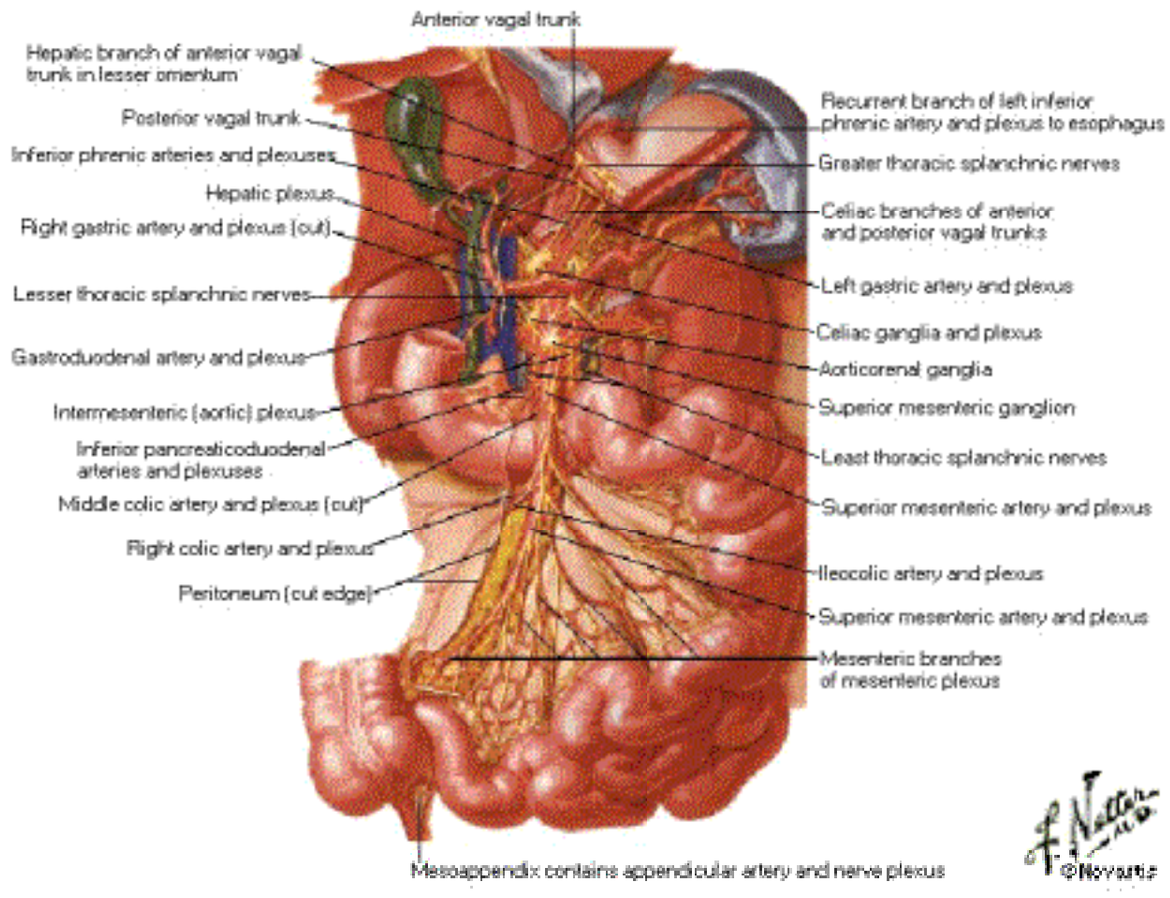


Innervation of Stomach and Duodenum

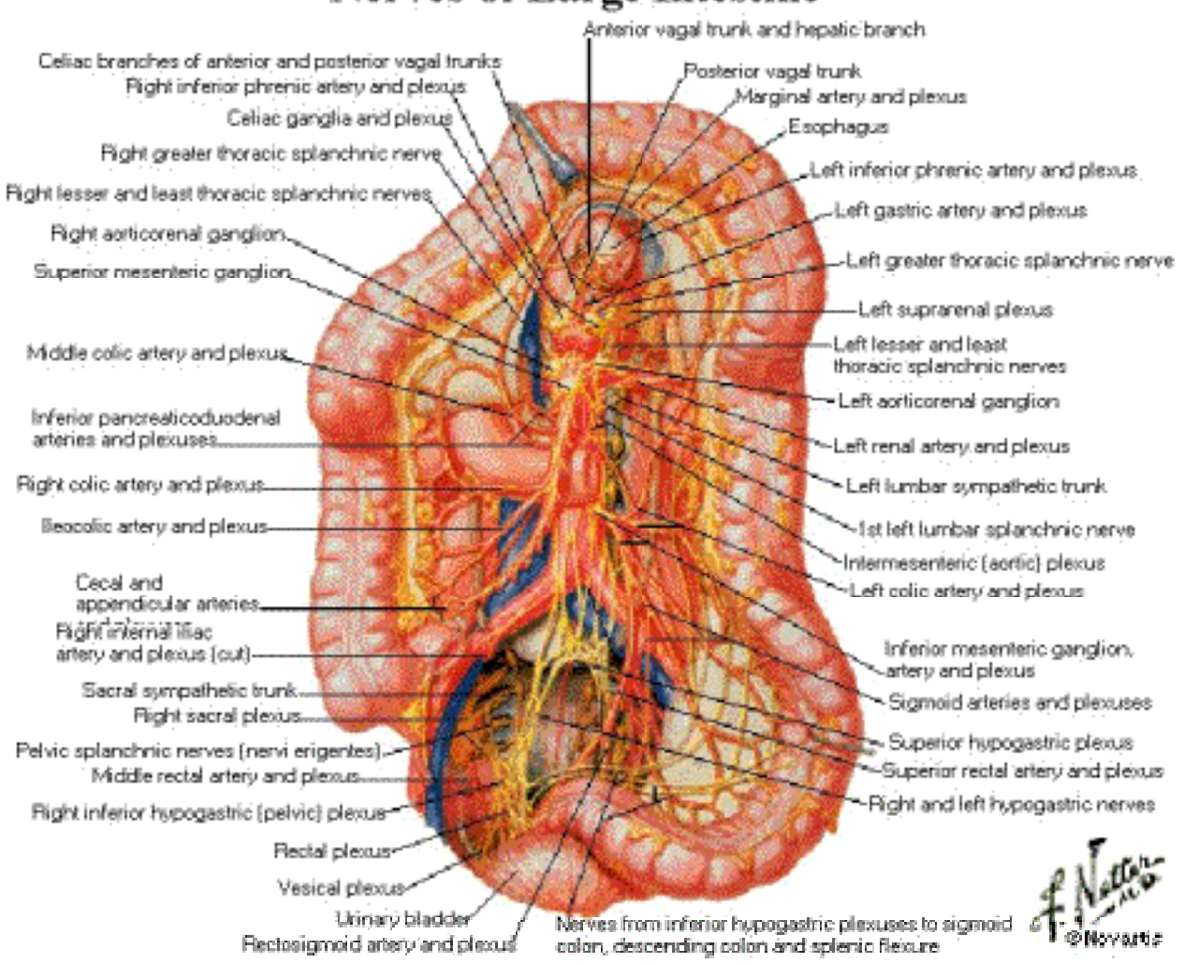
Schema



Nerves of Small Intestine

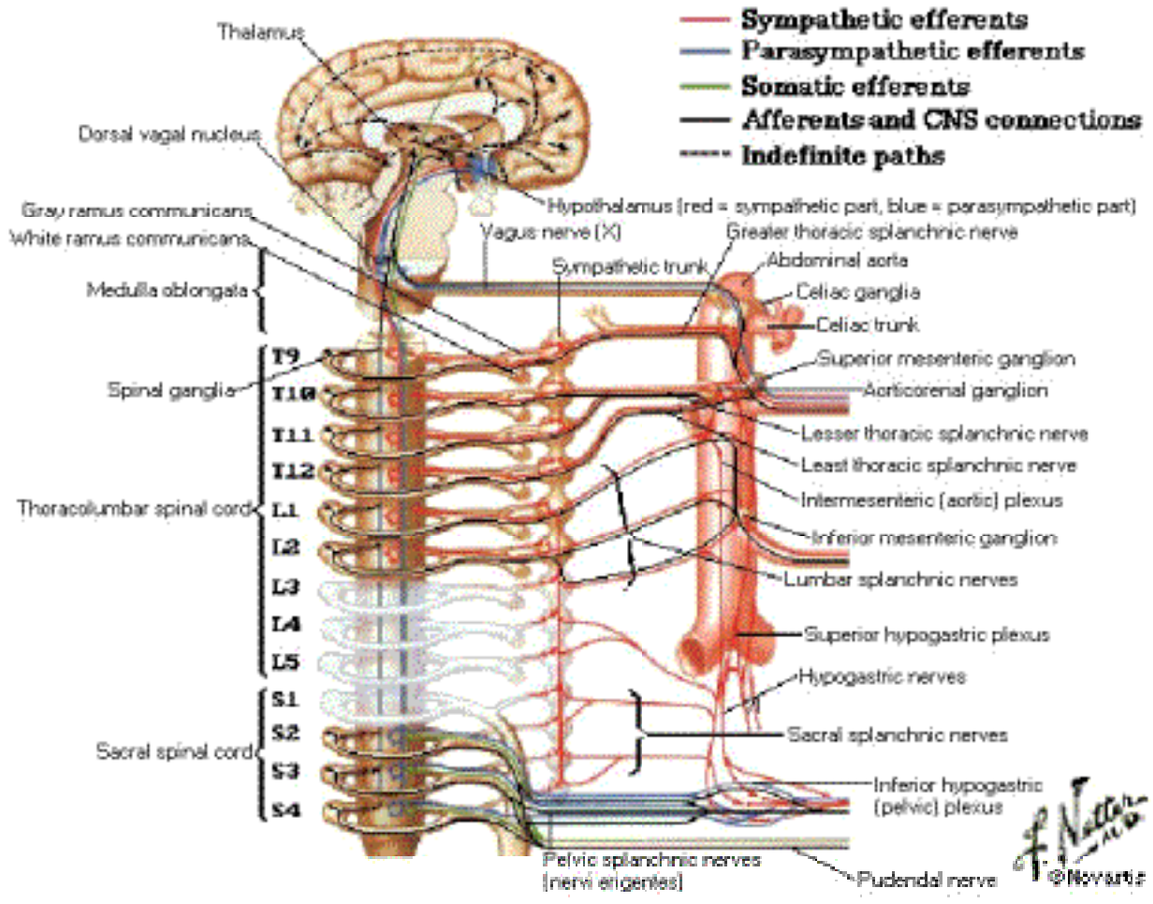


Nerves of Large Intestine



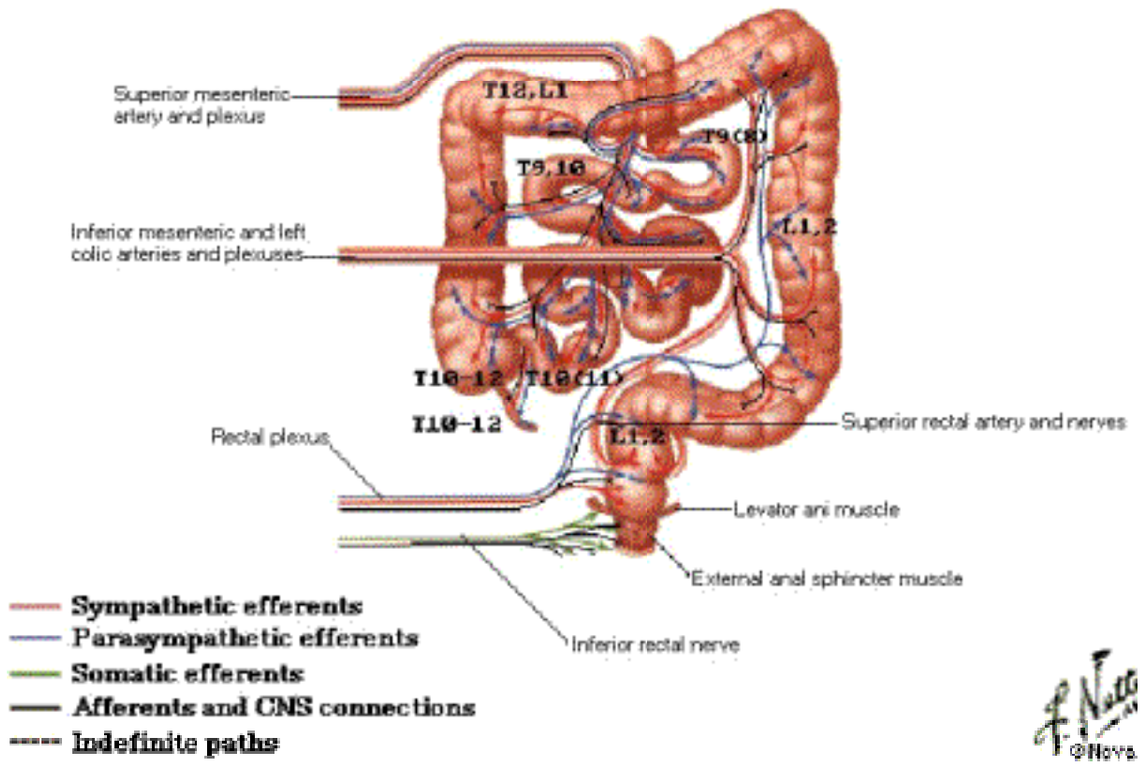
Innervation of Small and Large Intestines

Left Side of Schema



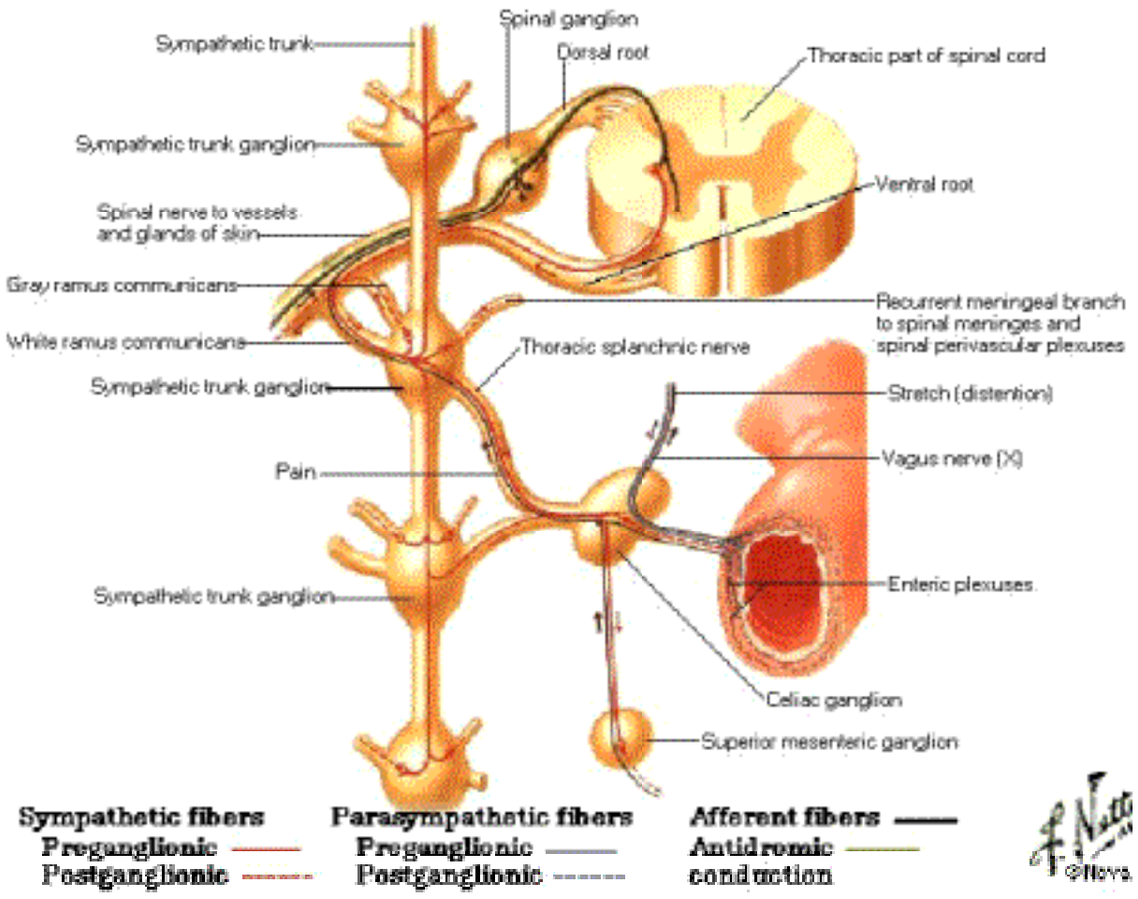
Innervation of Small and Large Intestines

Right Side of Schema



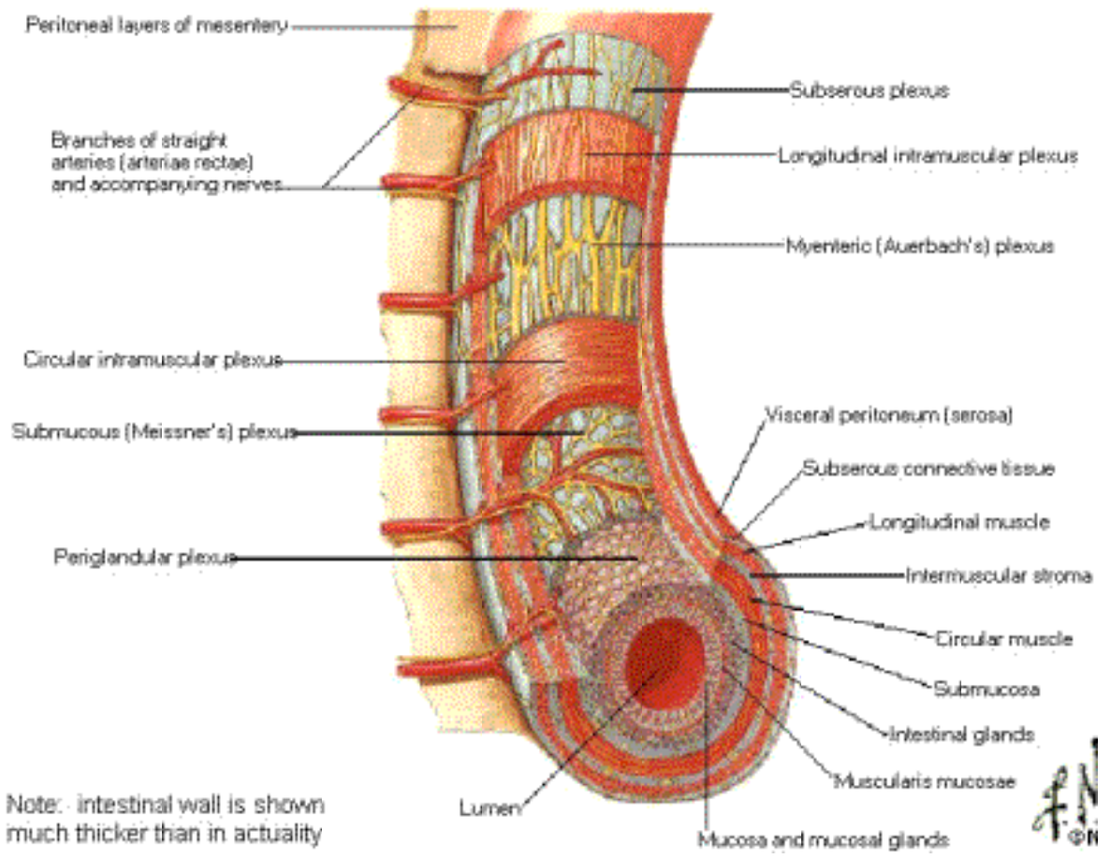
Autonomic Reflex Pathways

Schema



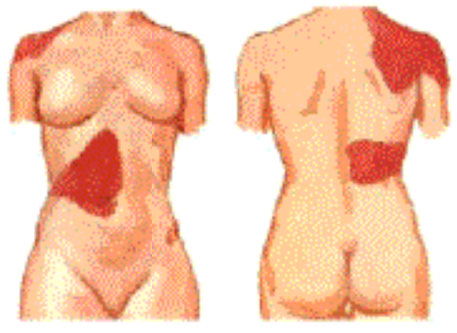
Intrinsic Autonomic Plexuses of Intestine

Schema



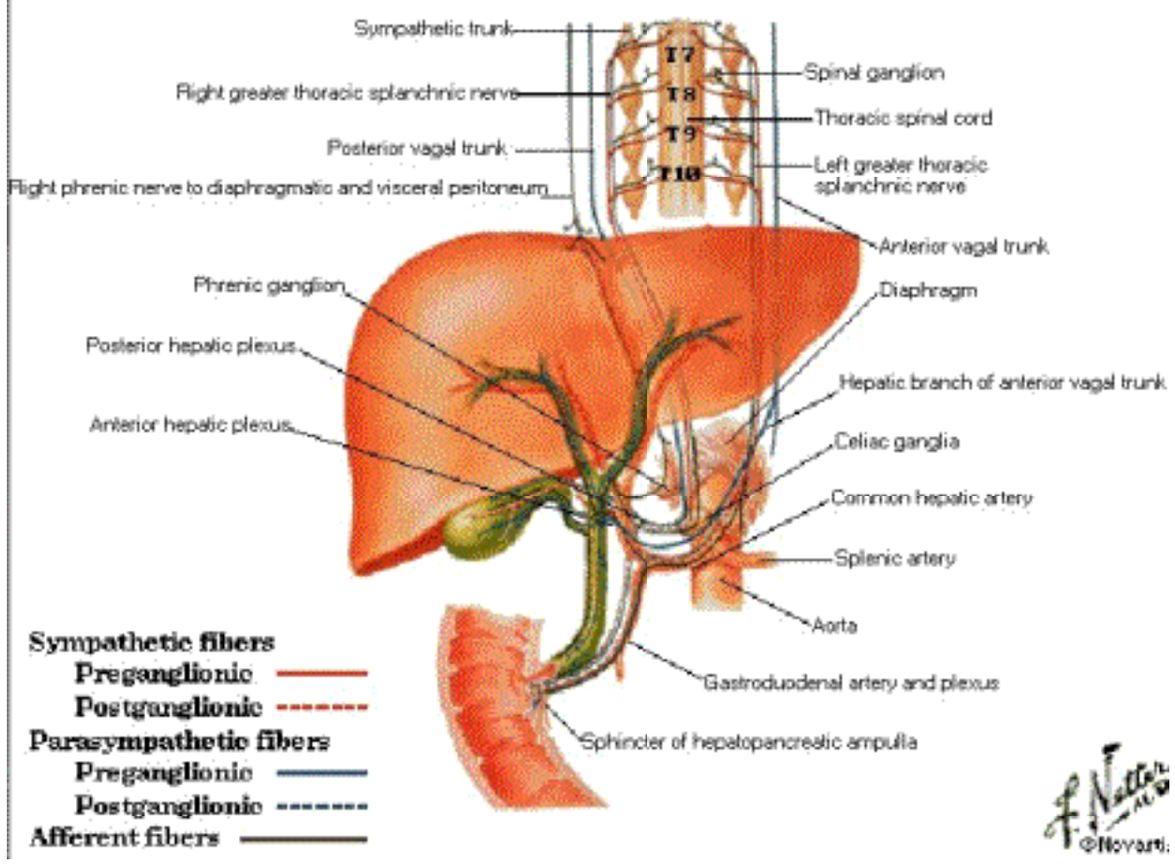
Note: intestinal wall is shown much thicker than in actuality

Common Areas of Referred Pain in Biliary Disease



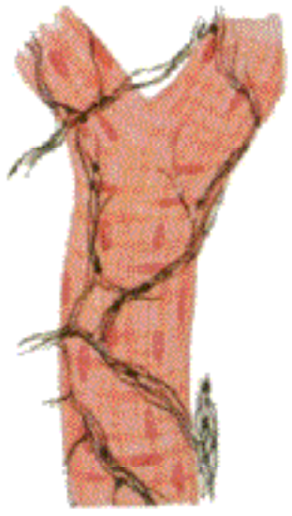
Innervation of Liver and Biliary Tract

Schema



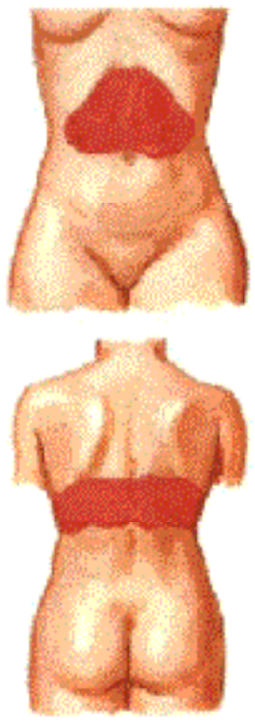
Innervation of Liver

Nerve Fibers around Fine Branch of Hepatic Artery



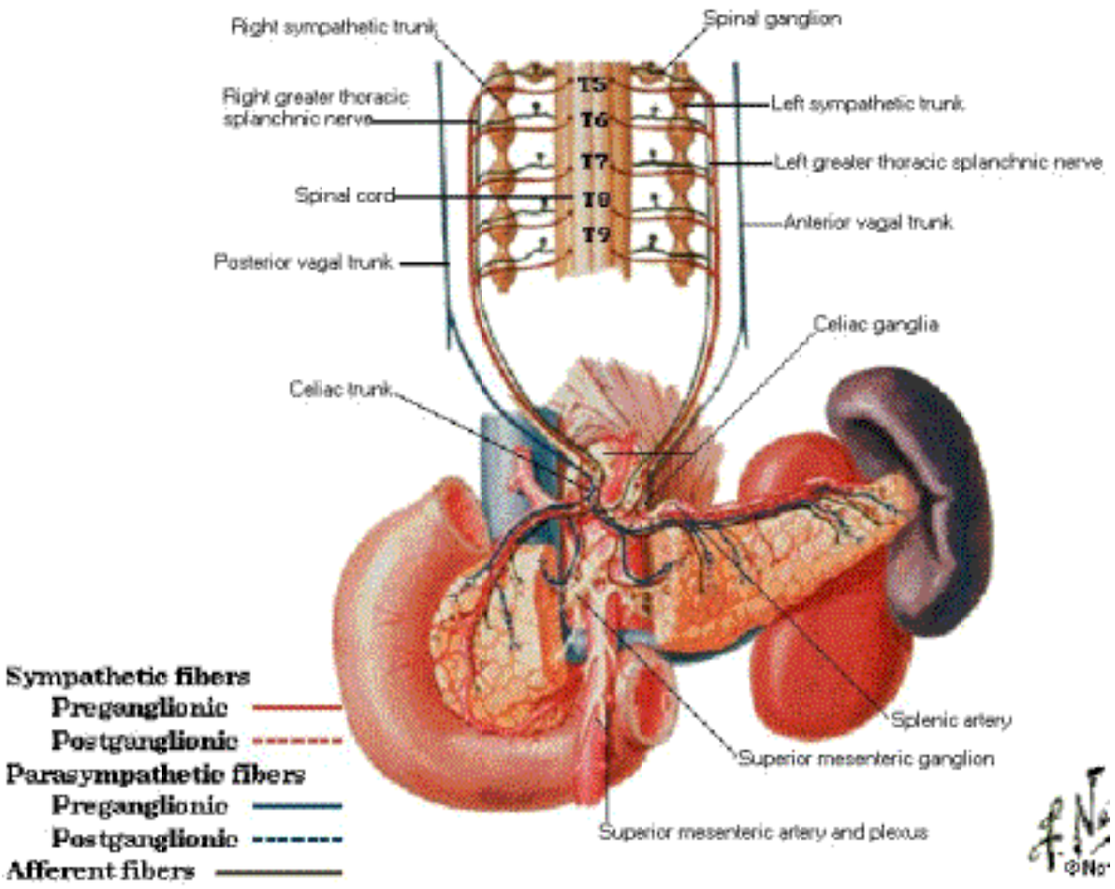
¡@

Common Areas of Pancreatic Pain

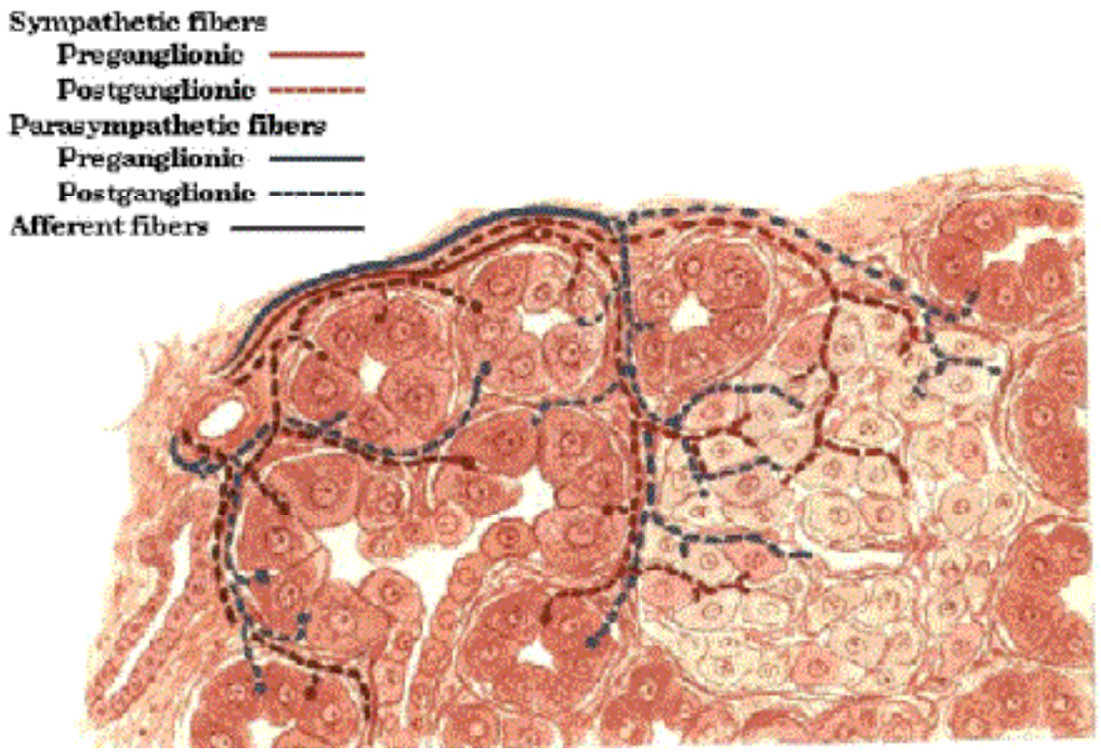


Innervation of Pancreas

Schema

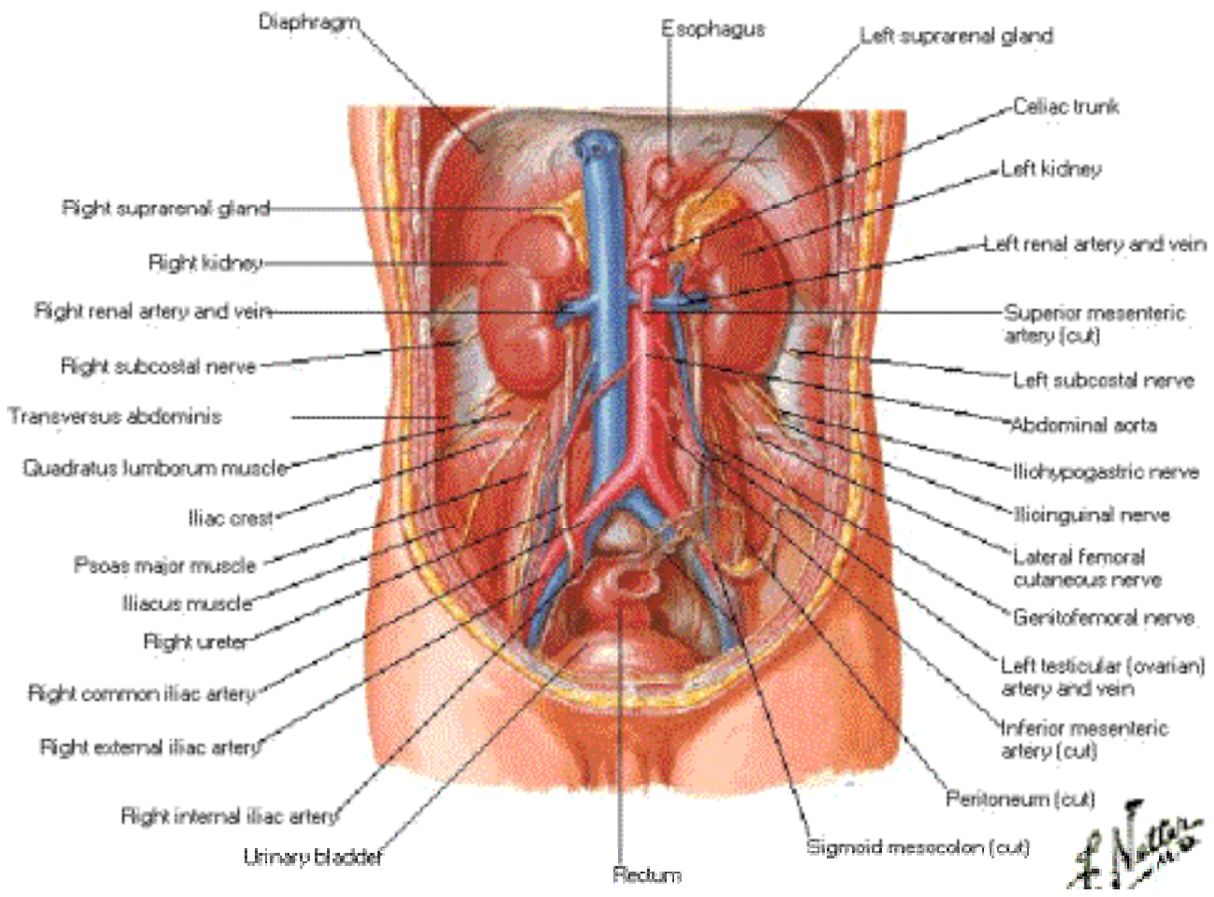


Schema of Intrinsic Nerve Supply of Pancreas



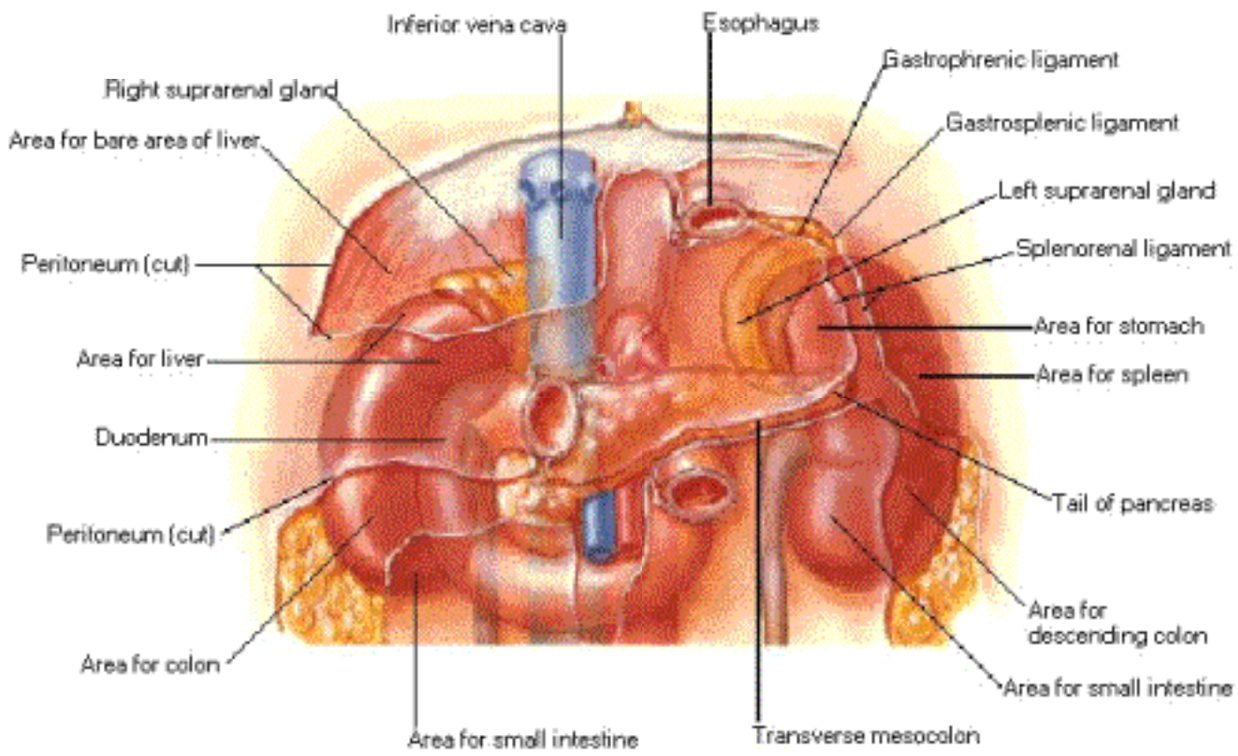
Kidneys in Situ

Anterior View



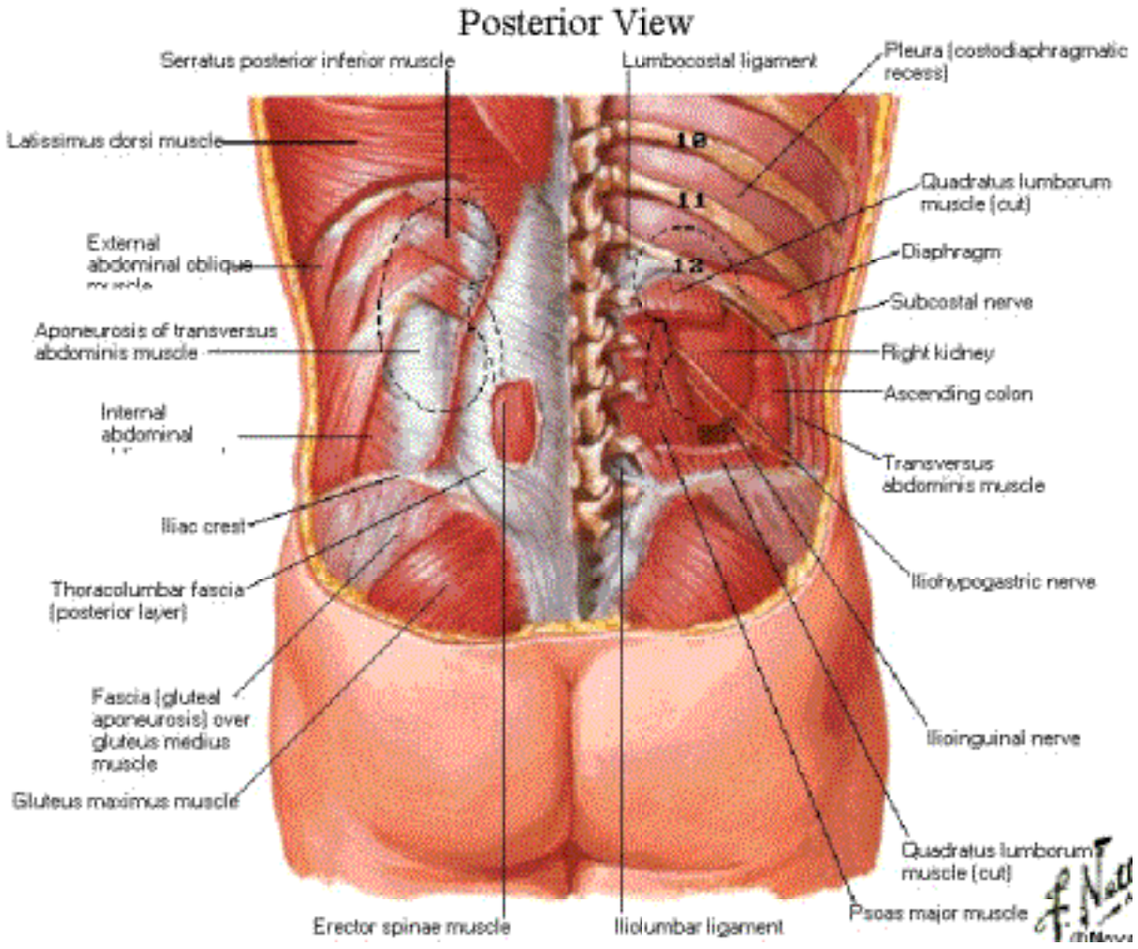
Kidneys in Situ

Anterior Relations of Kidneys



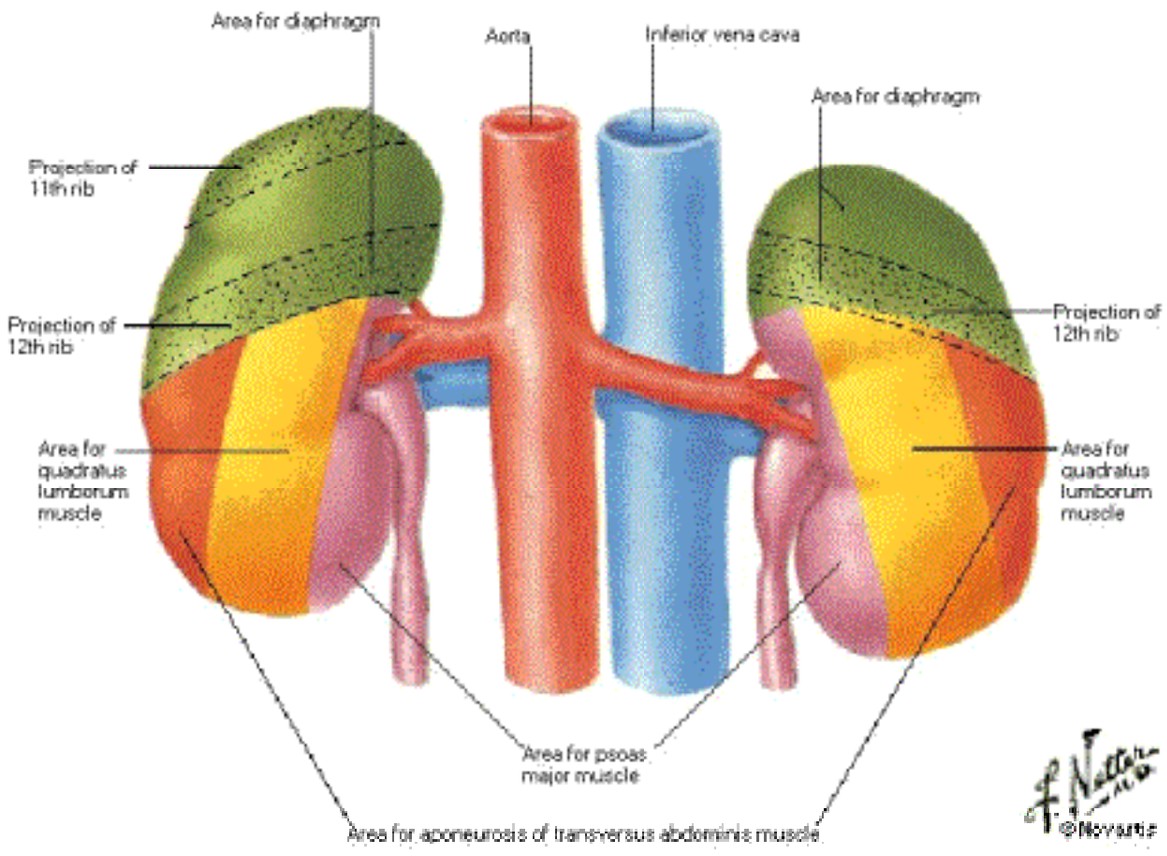
Kidneys in Situ

Posterior View

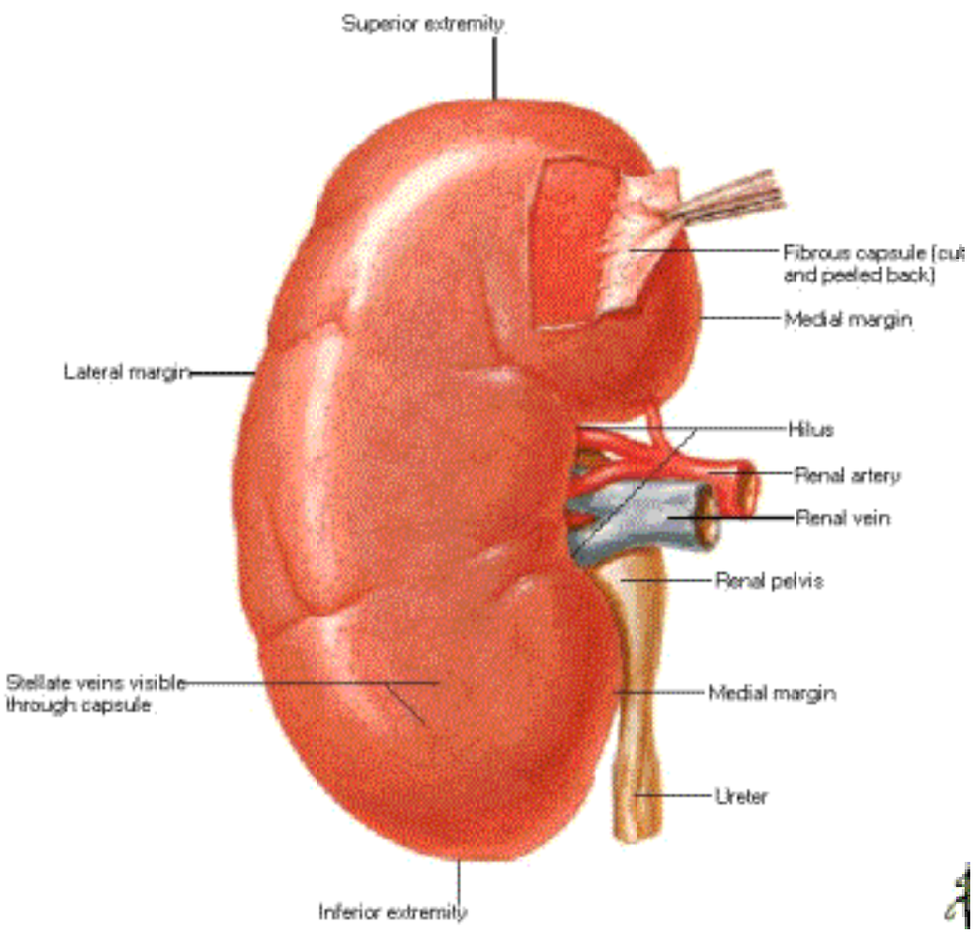


Kidneys in Situ

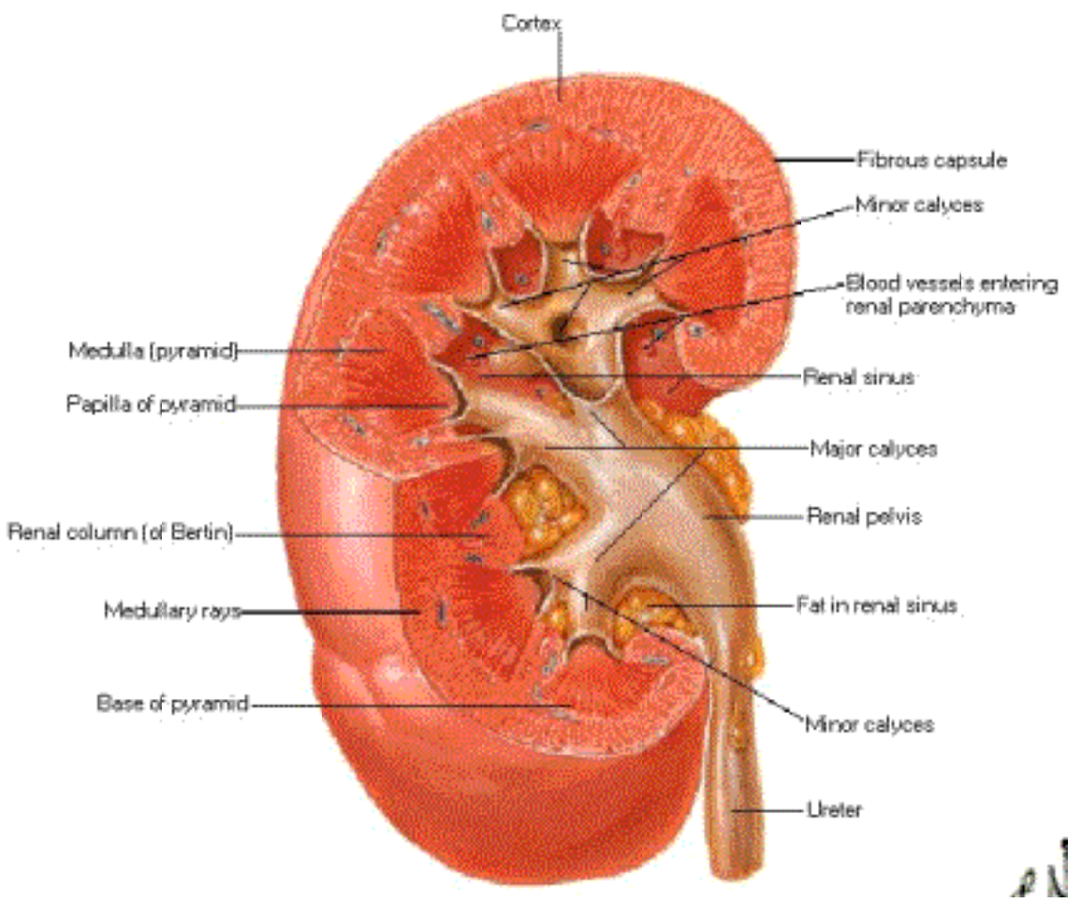
Posterior Relations of Kidneys



Anterior Surface of Right Kidney



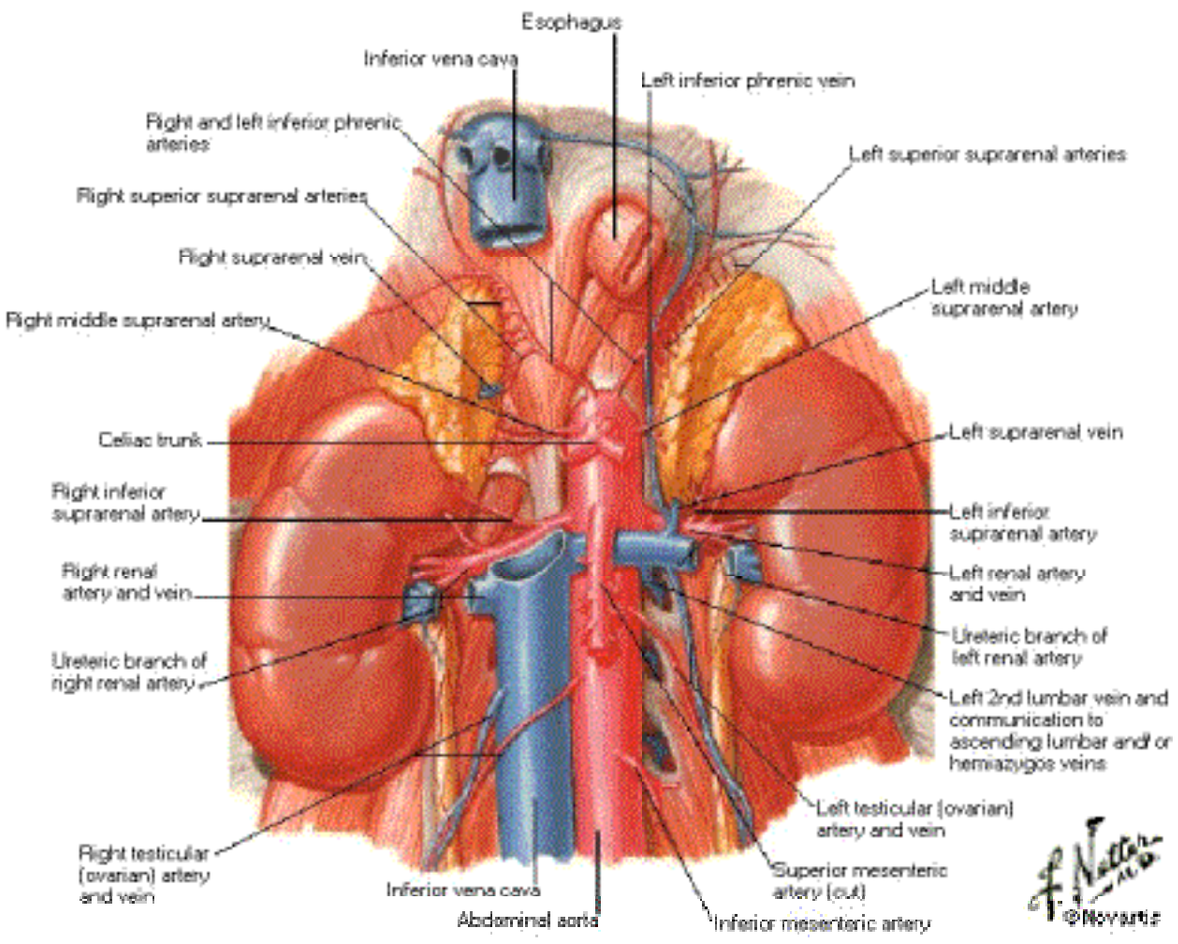
Right Kidney Sectioned in Several Planes



Suprarenal Gland and Lobulated Kidney of Infant

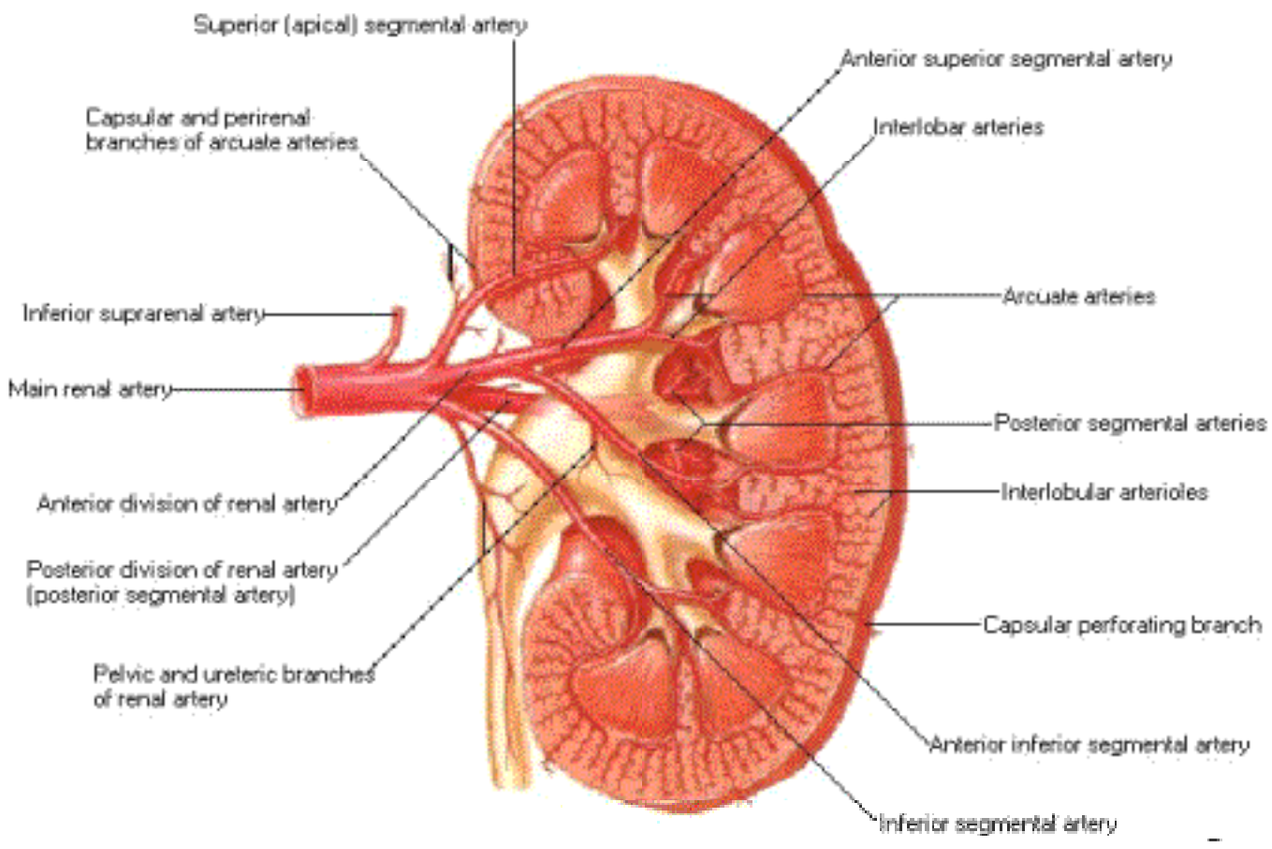


Renal Artery and Vein in Situ

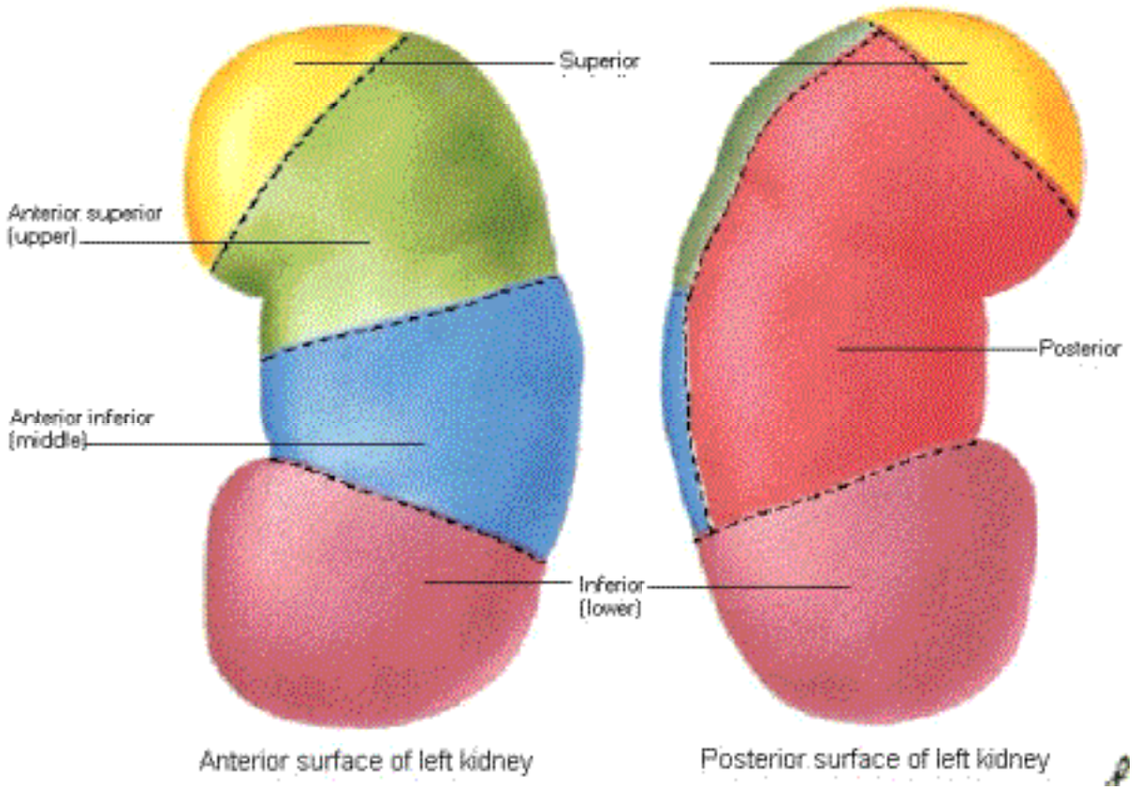


Intrarenal Arteries

Frontal Section of Left Kidney - Anterior View



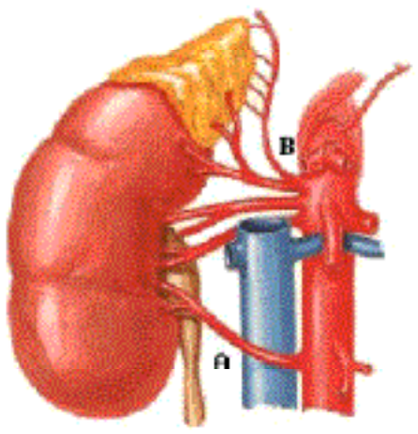
Vascular Renal Segments



Anterior surface of left kidney

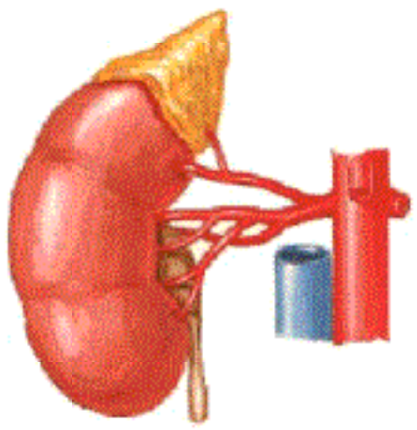
Posterior surface of left kidney

Variations in Renal Artery



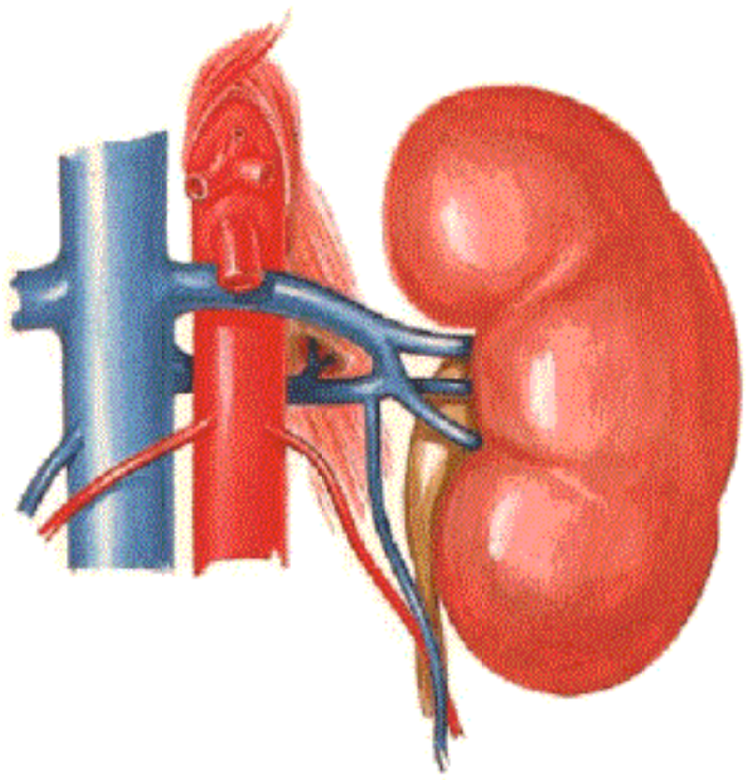
A) Low accessory right renal artery may pass in front of inferior vena cava instead of behind it

B) Inferior phrenic artery with suprarenal arteries may arise from renal artery



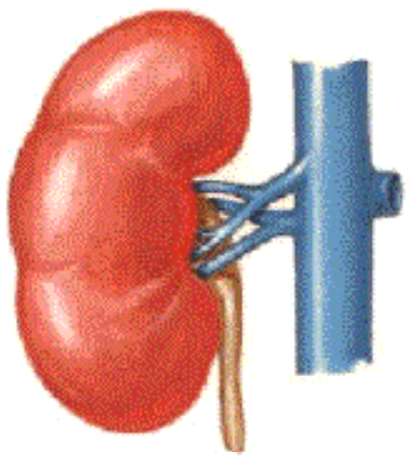
Proximal subdivision of renal artery

Variations in Renal Vein



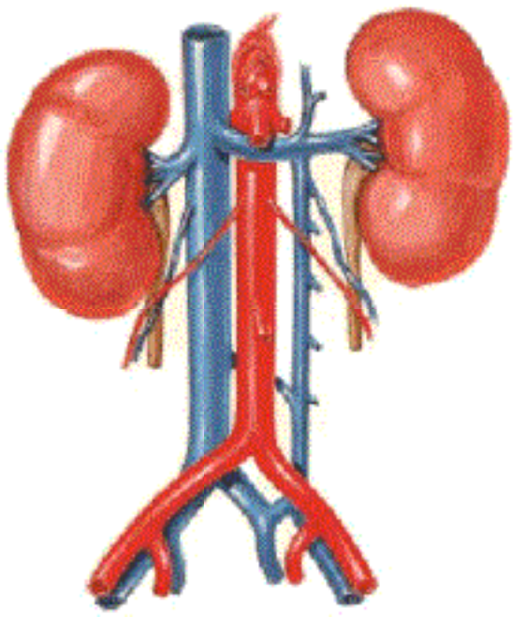
Double renal vein may form ring around aorta

Variations in Renal Vein [Continued]



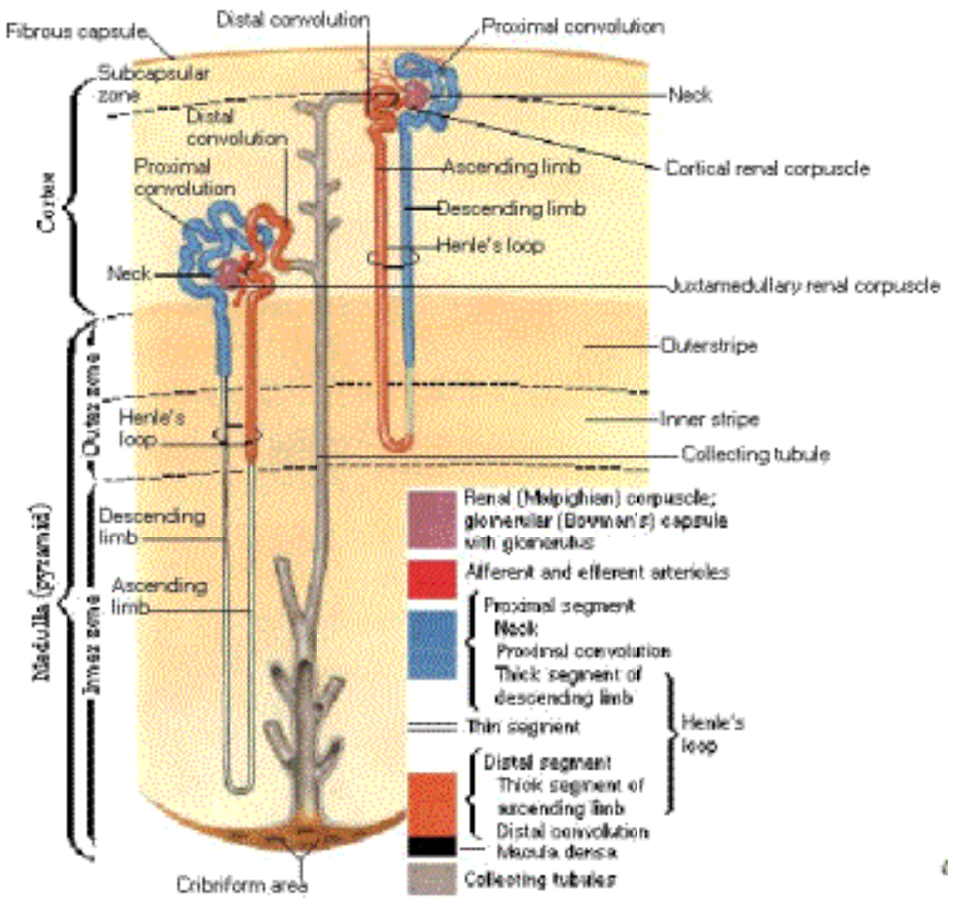
Multiple renal veins

Persistent left inferior vena cava
may join left renal vein

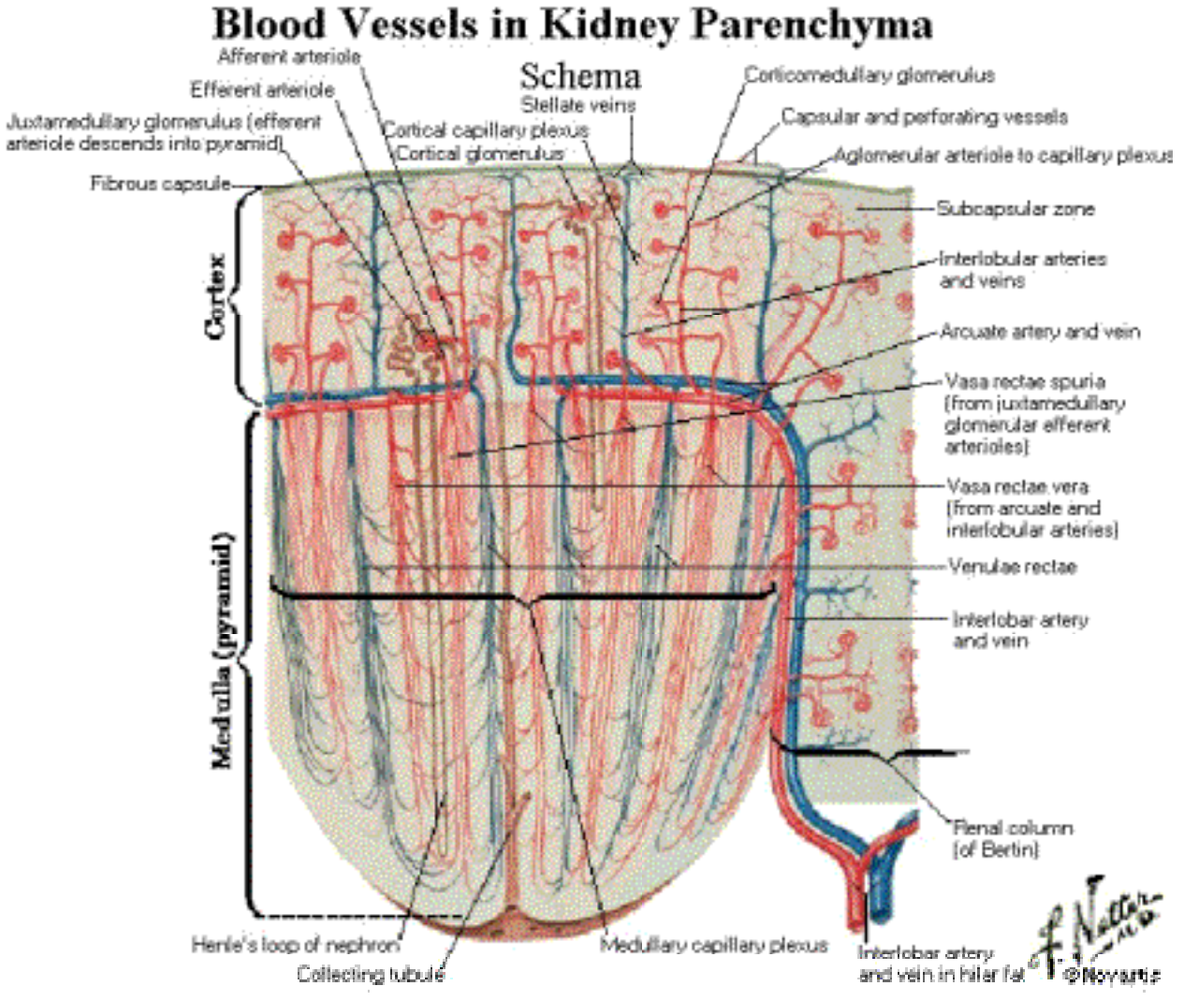


Nephron and Collecting Tubule

Schema

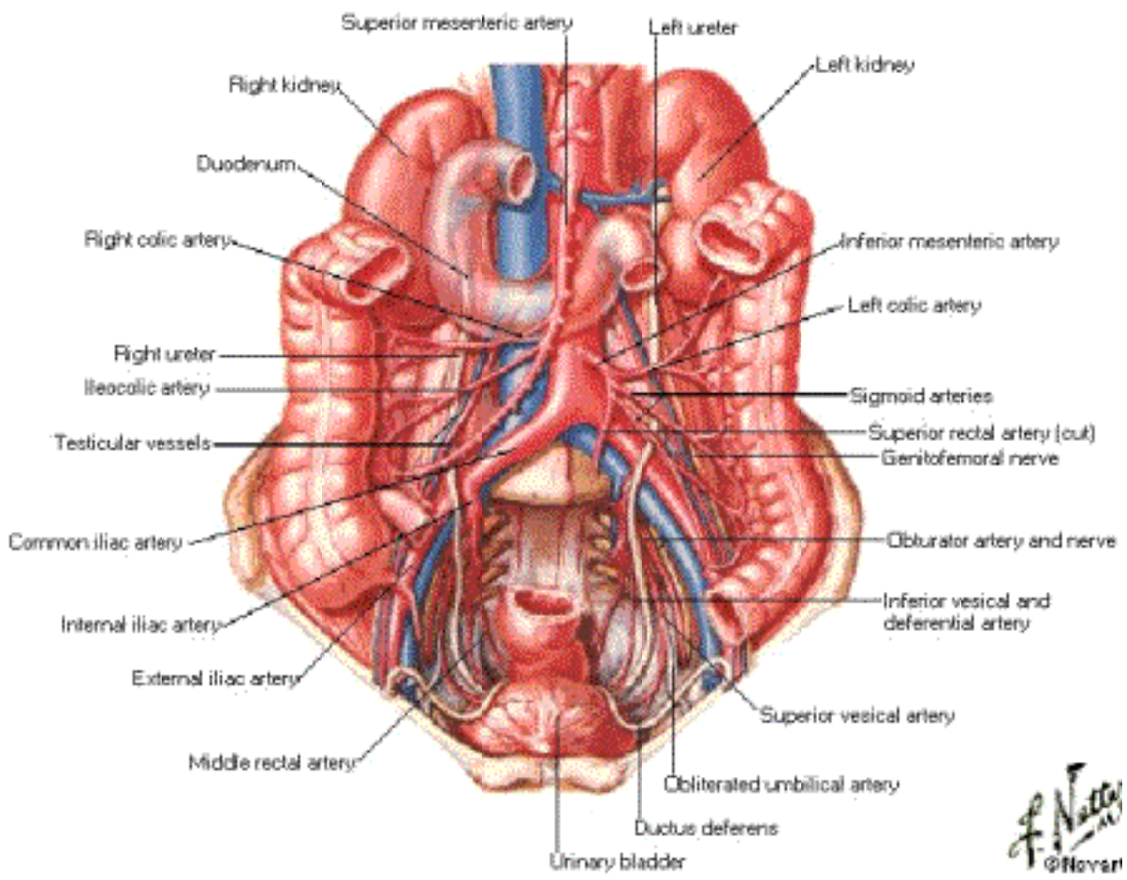


Blood Vessels in Kidney Parenchyma



Ureters in Male

Anterior View

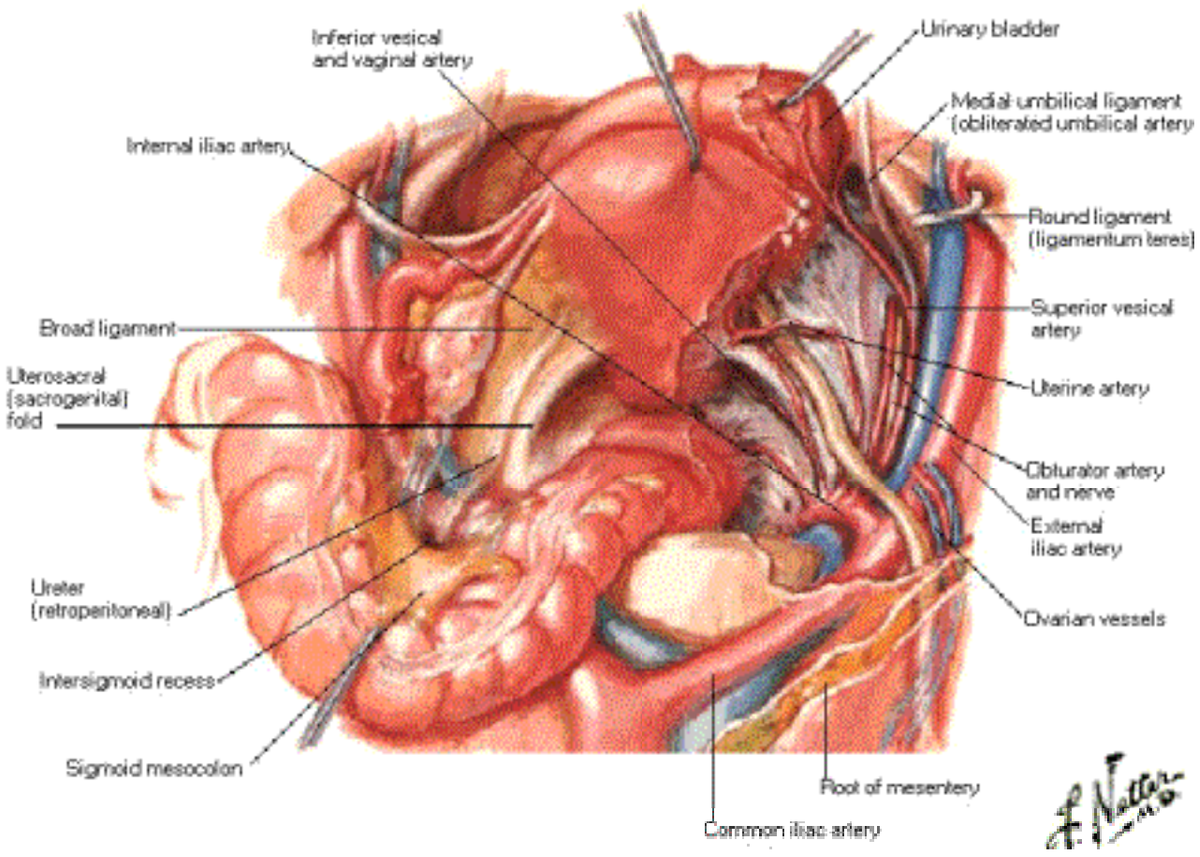


Diagonal Course of Ureter through Bladder Wall

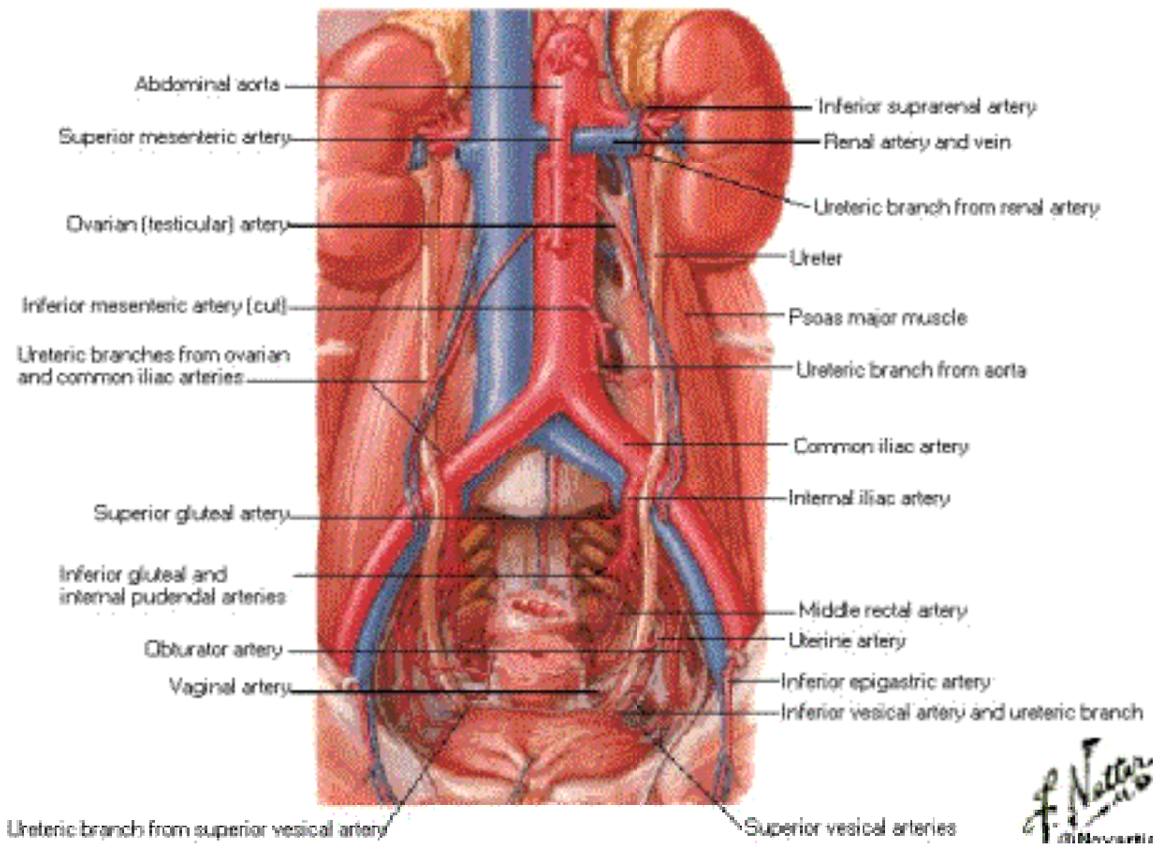


Ureters in Female

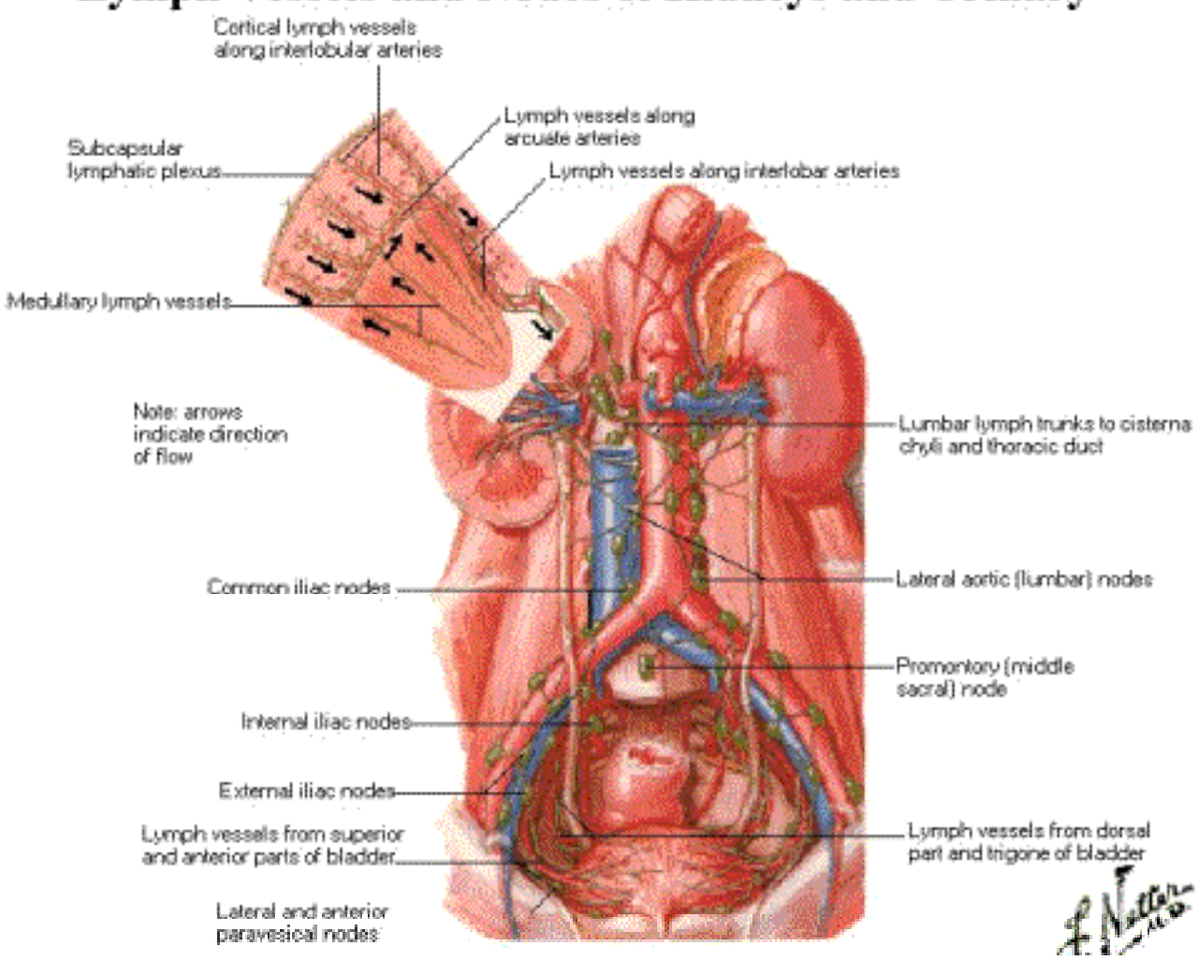
Superior View



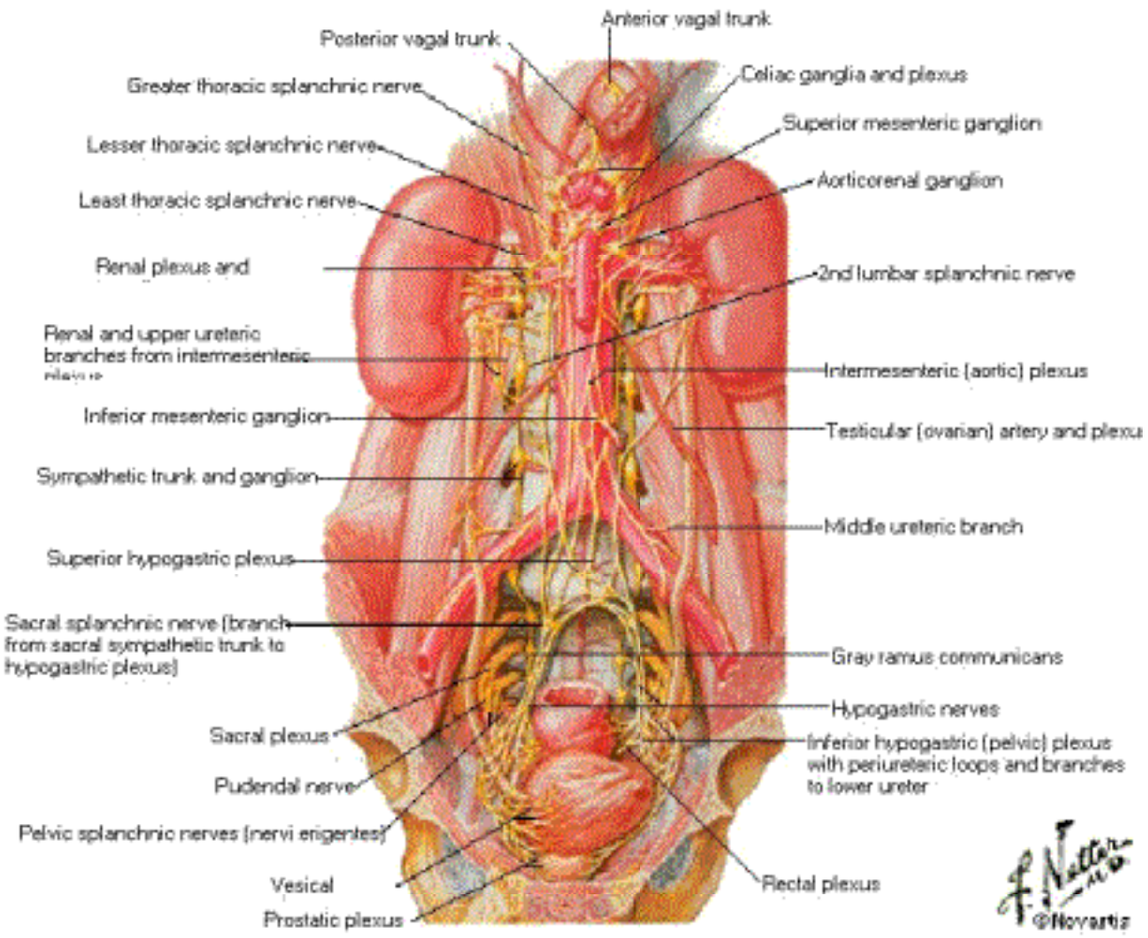
Arteries of Ureters and Urinary Bladder



Lymph Vessels and Nodes of Kidneys and Urinary

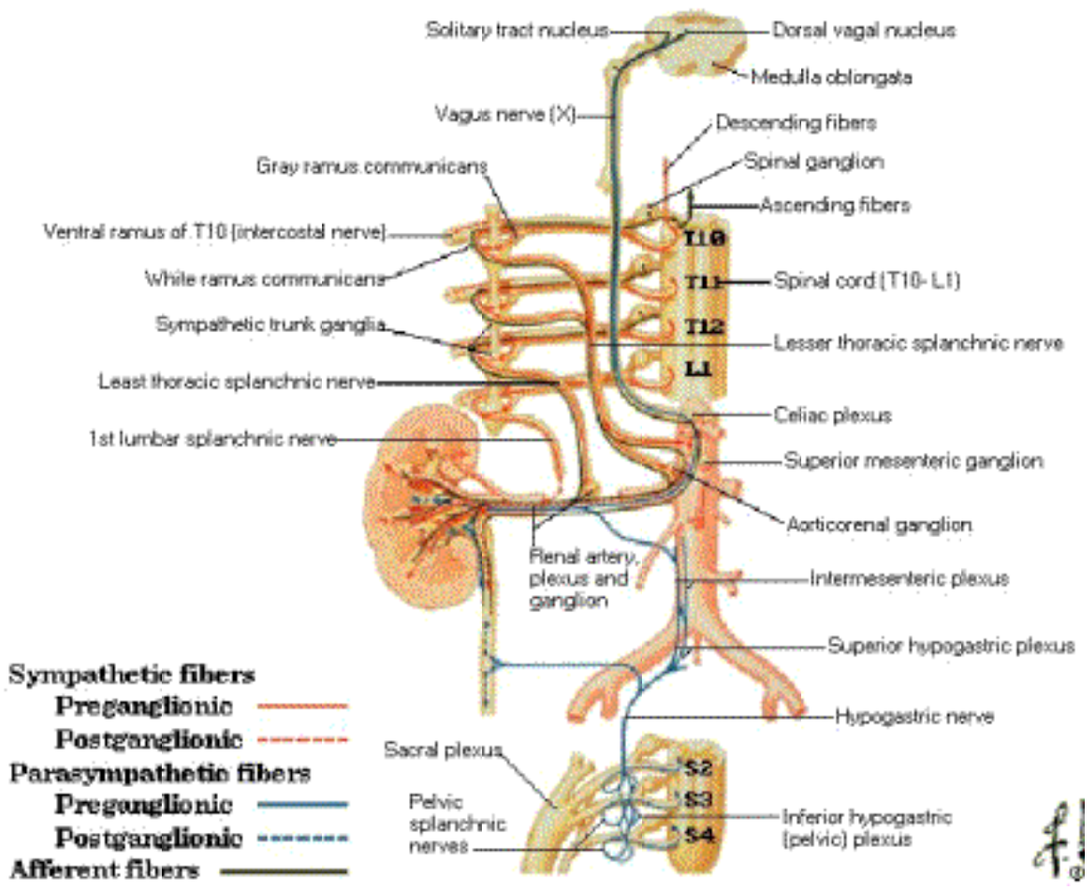


Nerves of Kidneys, Ureters and Urinary Bladder



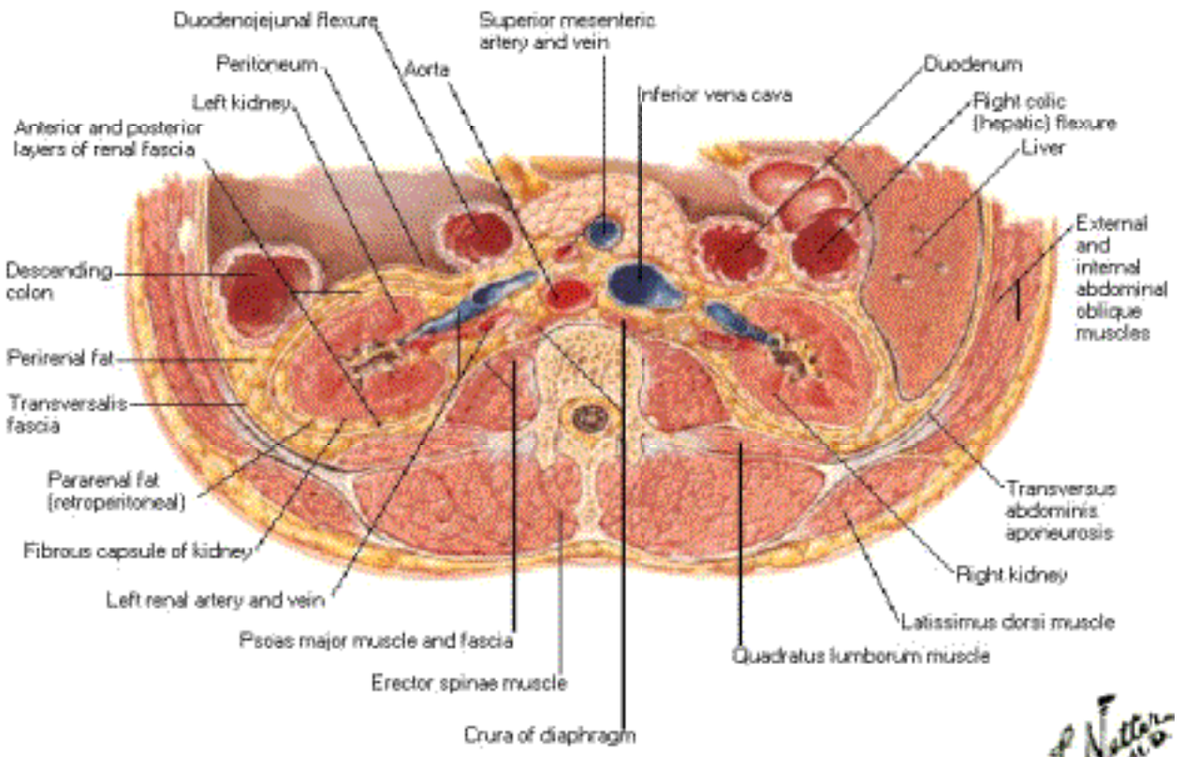
Innervation of Kidneys and Upper Ureters

Schema



Renal Fascia

Transverse Section through 2nd Lumbar Vertebra

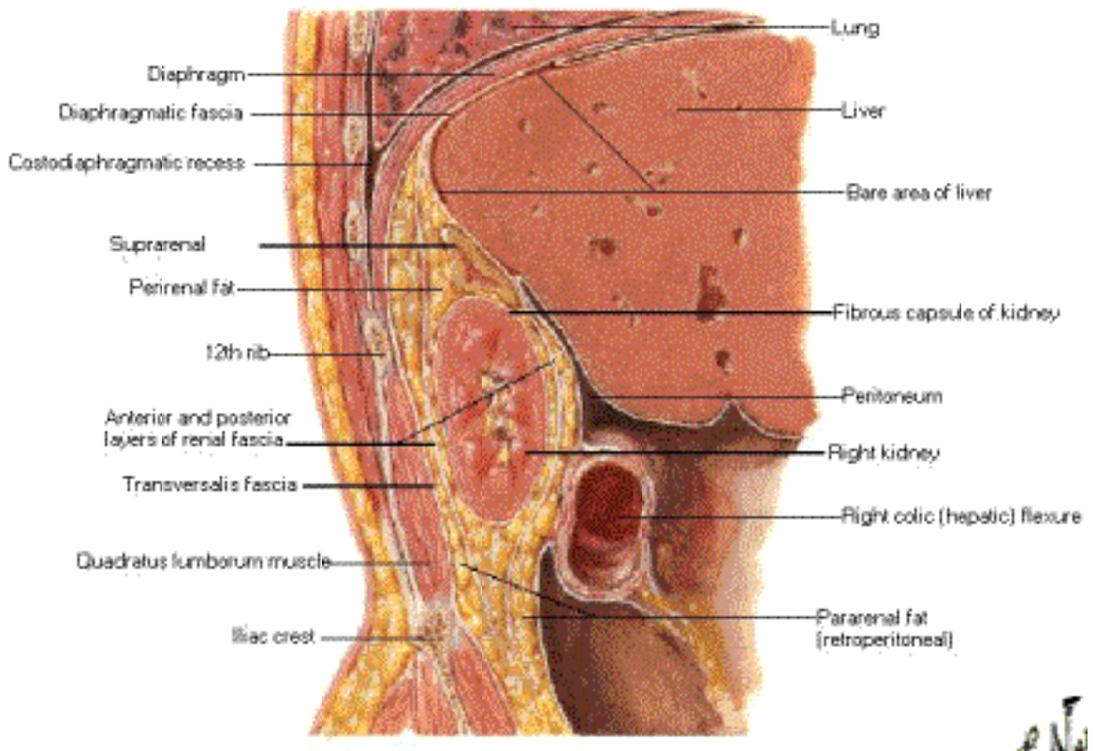


Demonstrates horizontal disposition of fascia

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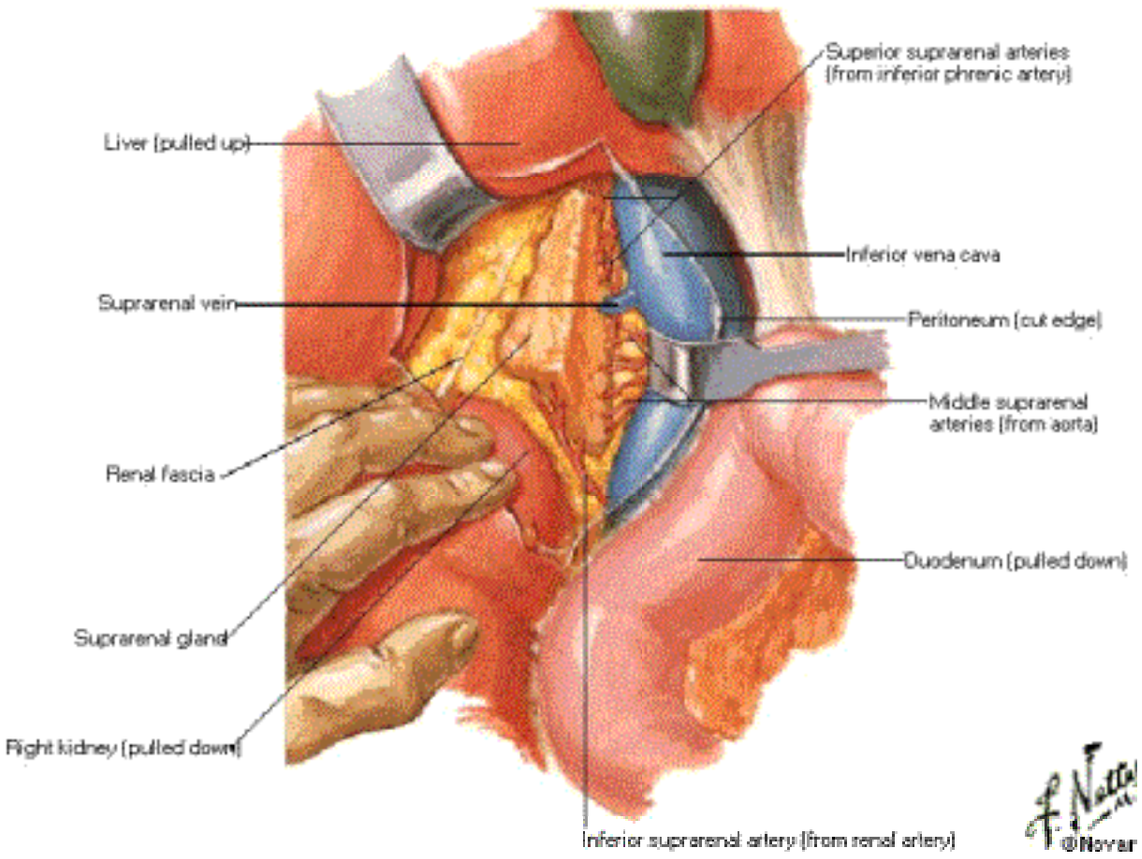
Renal Fascia

Sagittal Section through Right Kidney

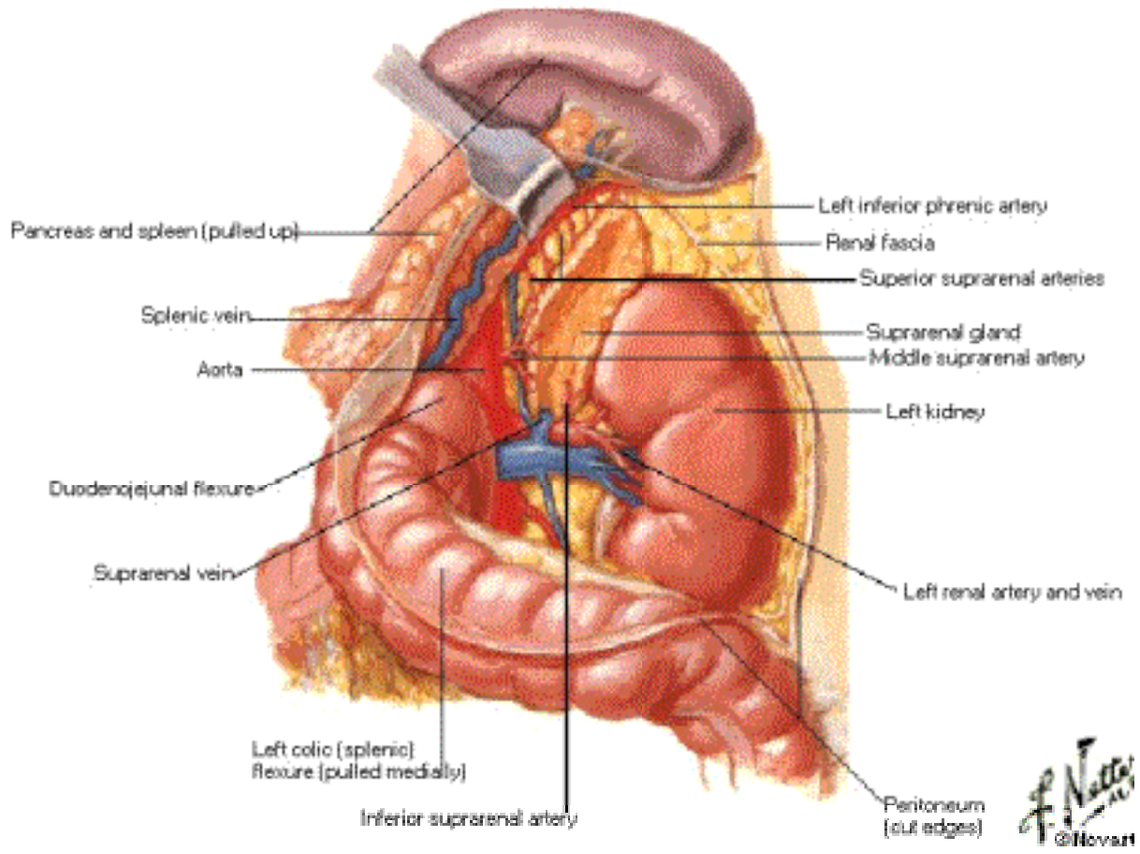


Demonstrates vertical disposition of renal fascia

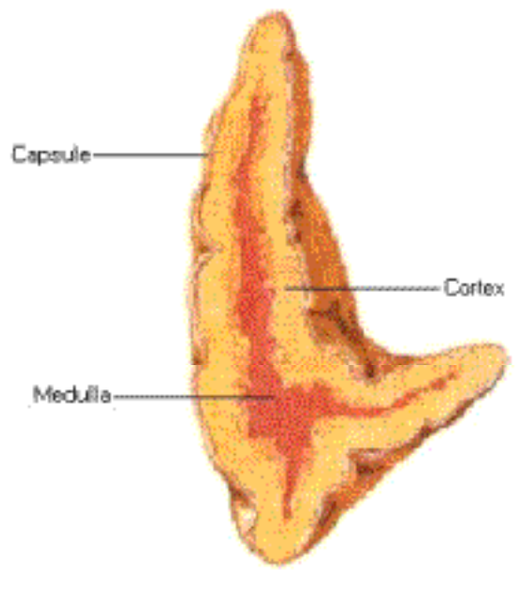
Arteries and Veins of Right Suprarenal Gland in Situ



Arteries and Veins of Left Suprarenal Gland in Situ

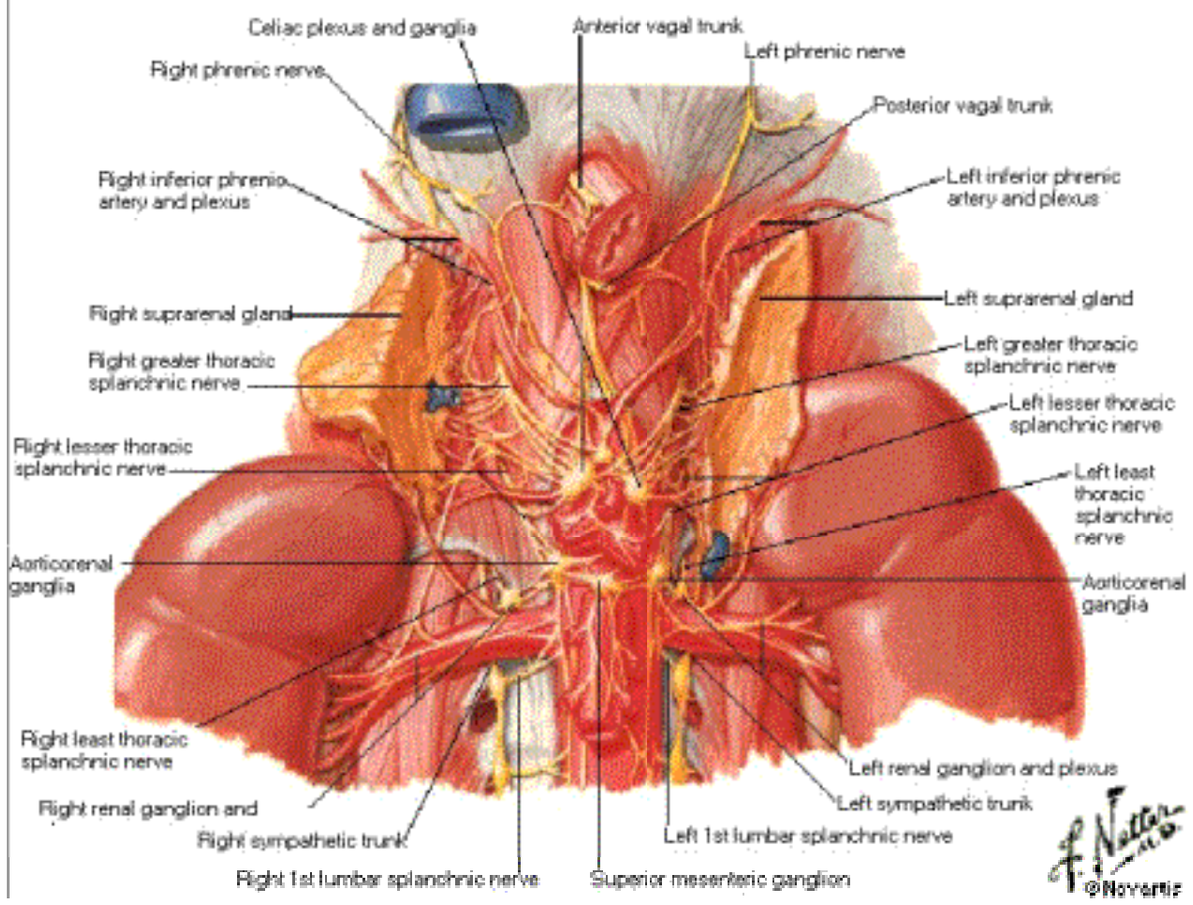


Cross Section through Suprarenal Gland



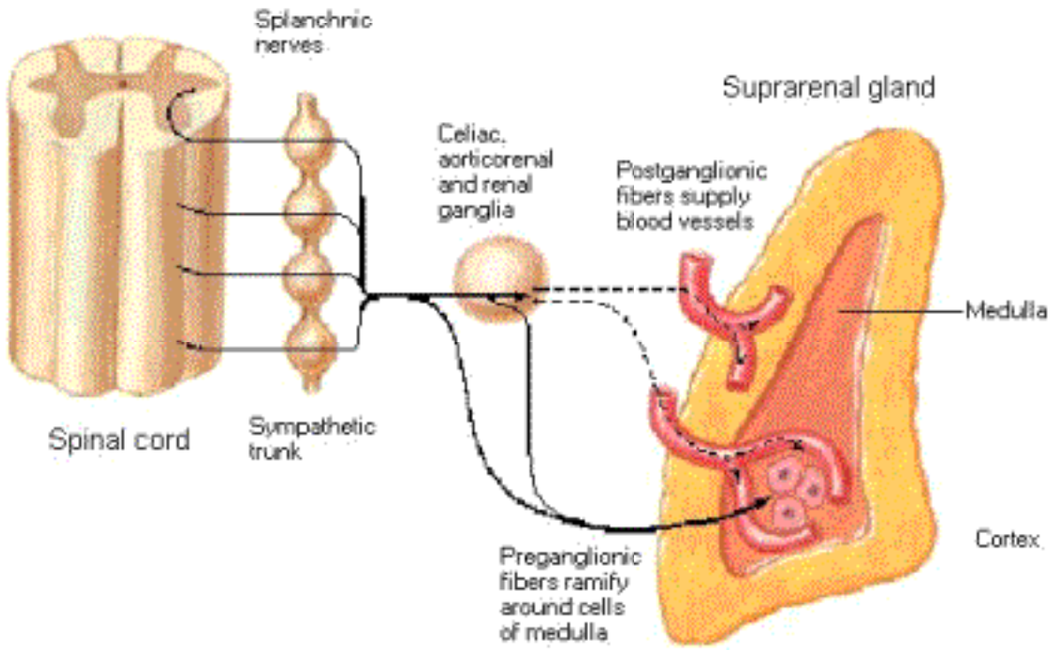
Nerves of Suprarenal Glands

Dissection



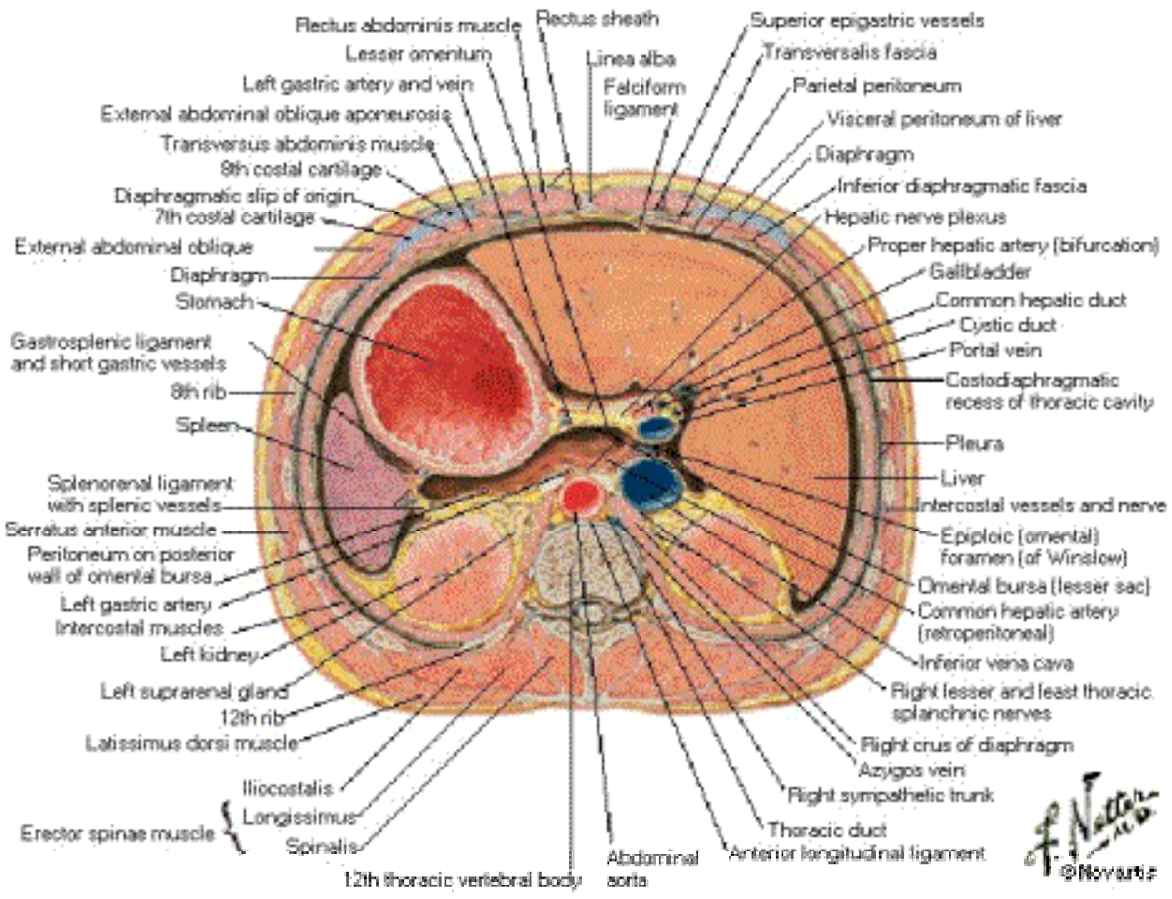
Nerves of Suprarenal Glands

Schema



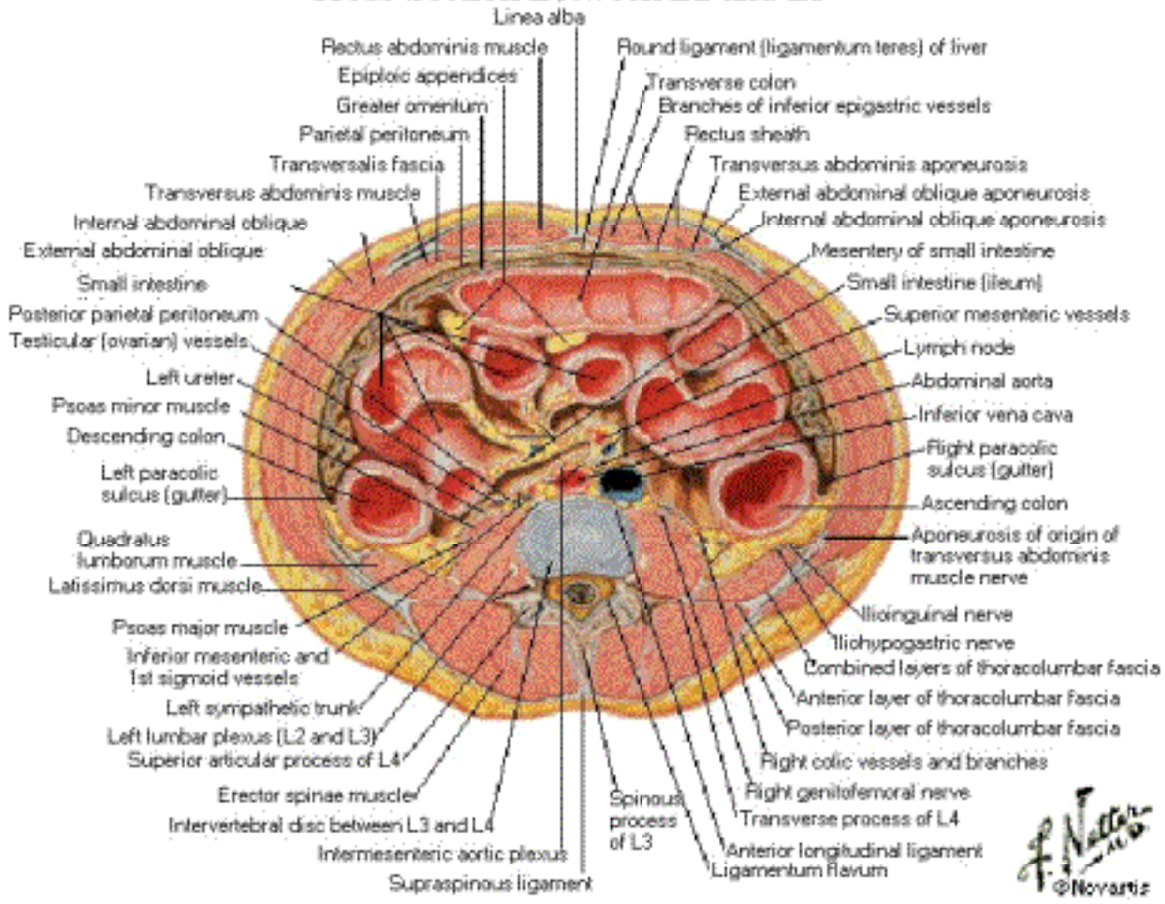
Abdominal Wall and Viscera

Cross Section at T12



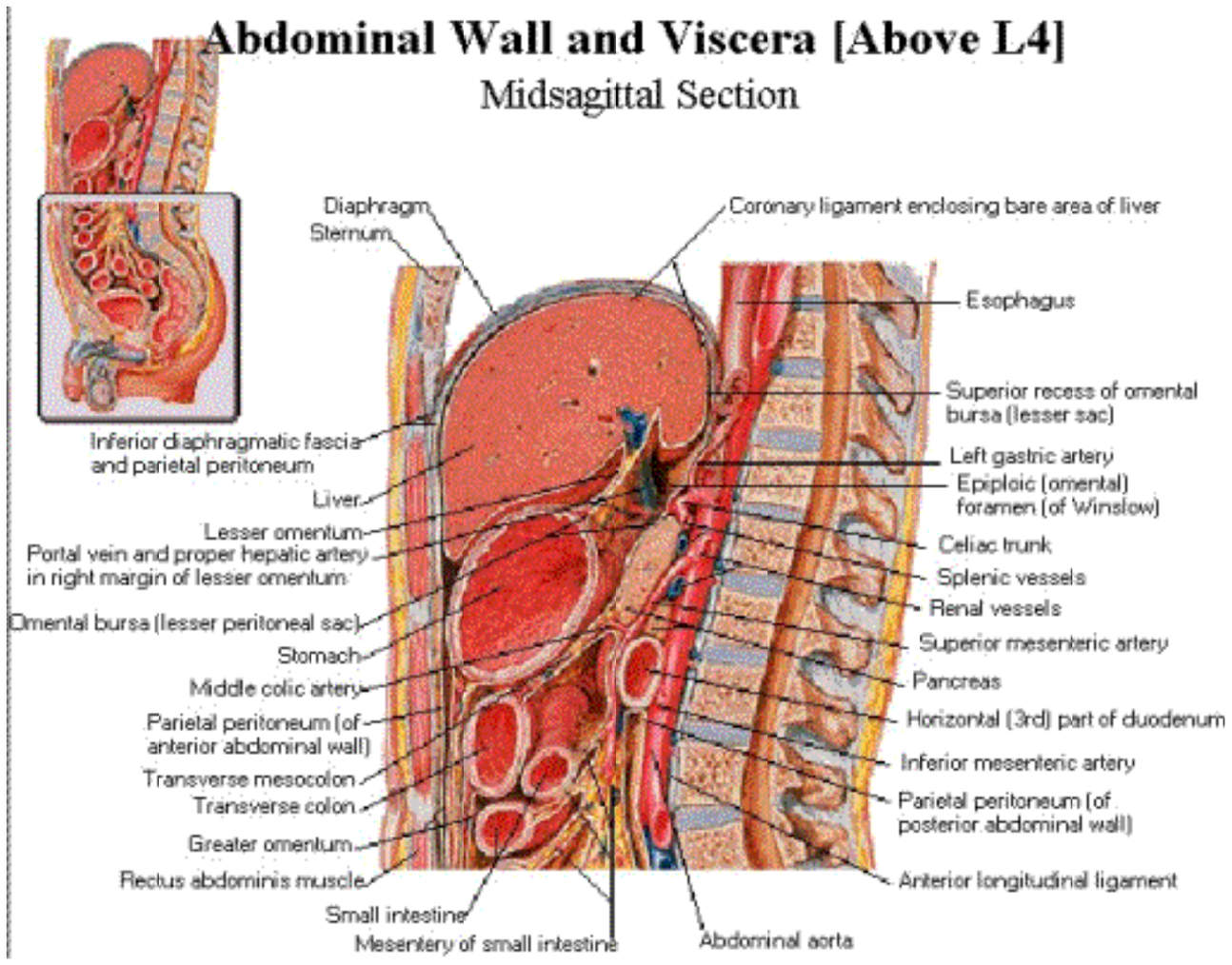
Abdominal Wall and Viscera

Cross Section Between L2 and L3



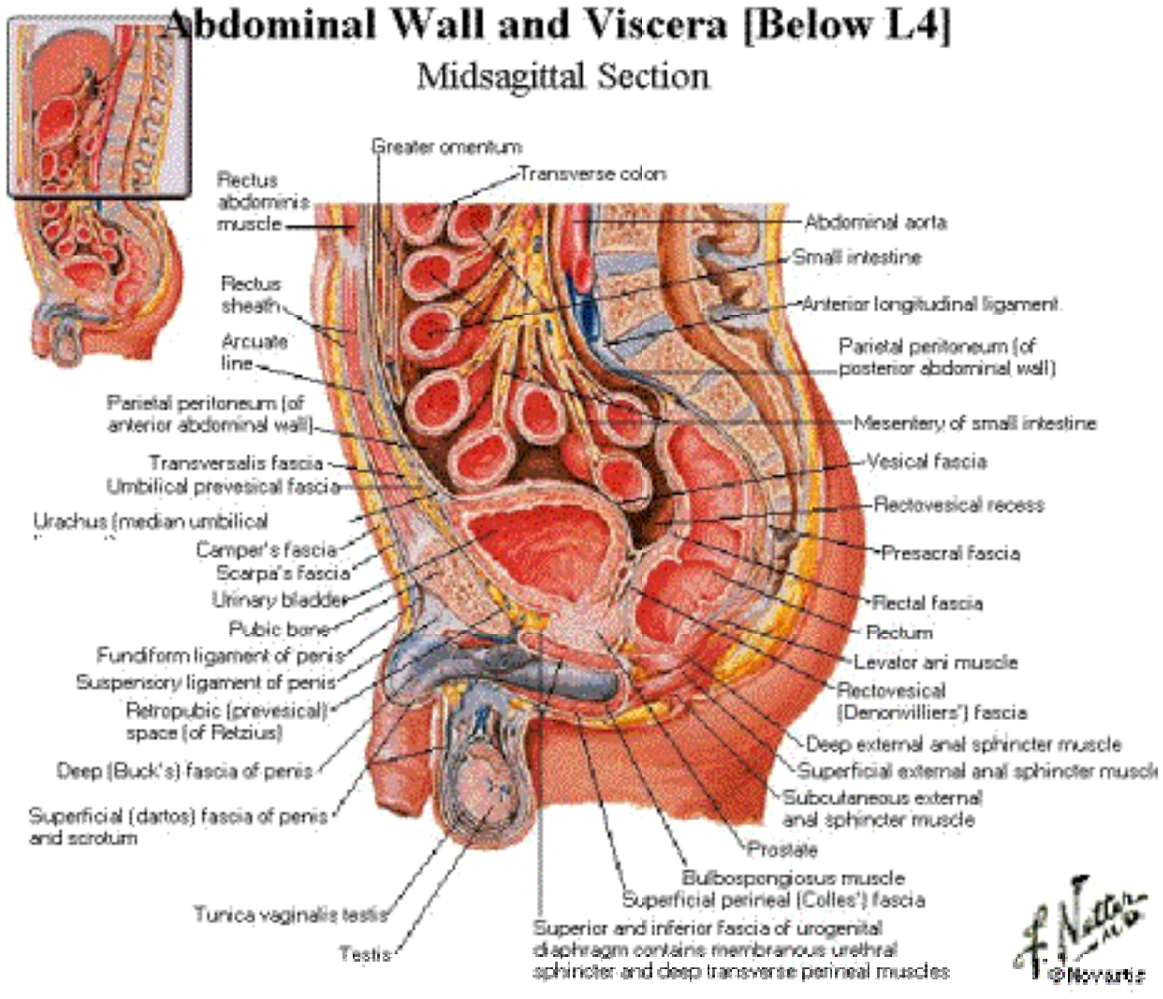
Abdominal Wall and Viscera [Above L4]

Midsagittal Section



Abdominal Wall and Viscera [Below L4]

Midsagittal Section

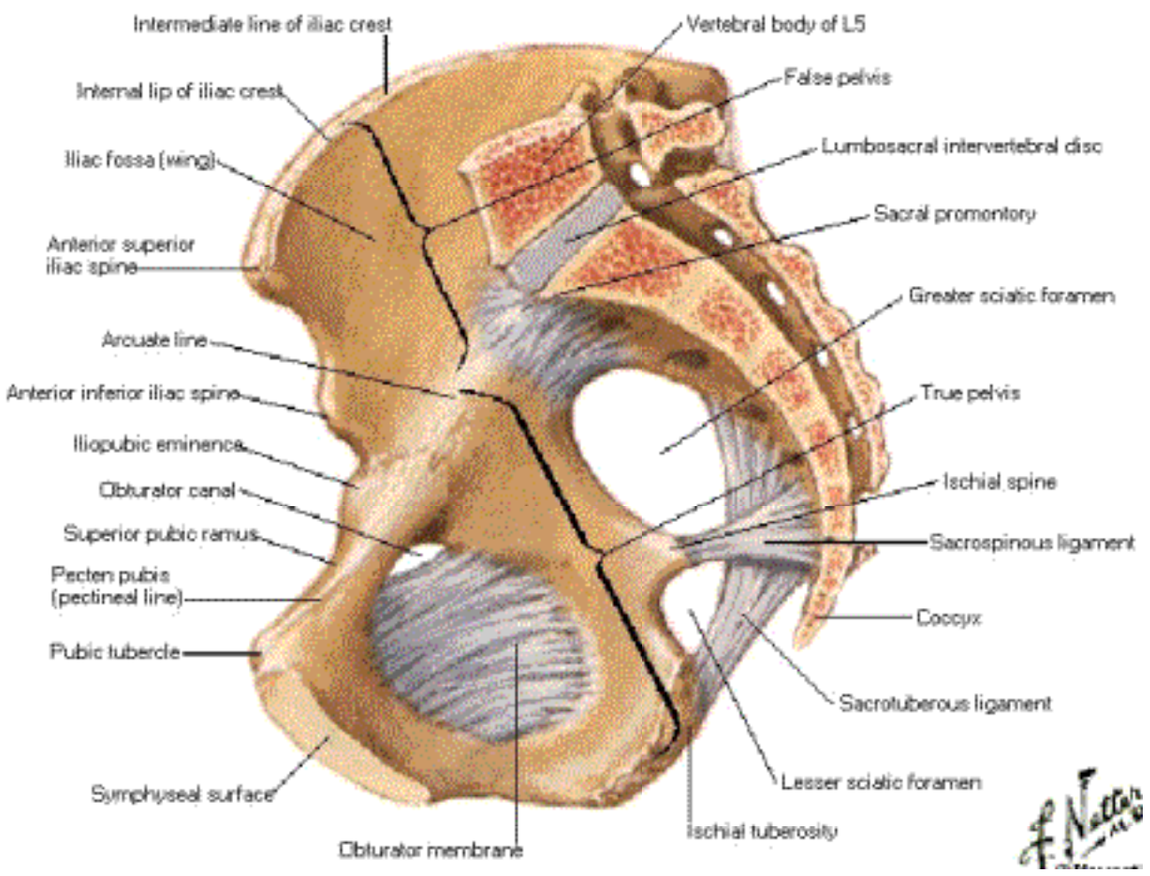


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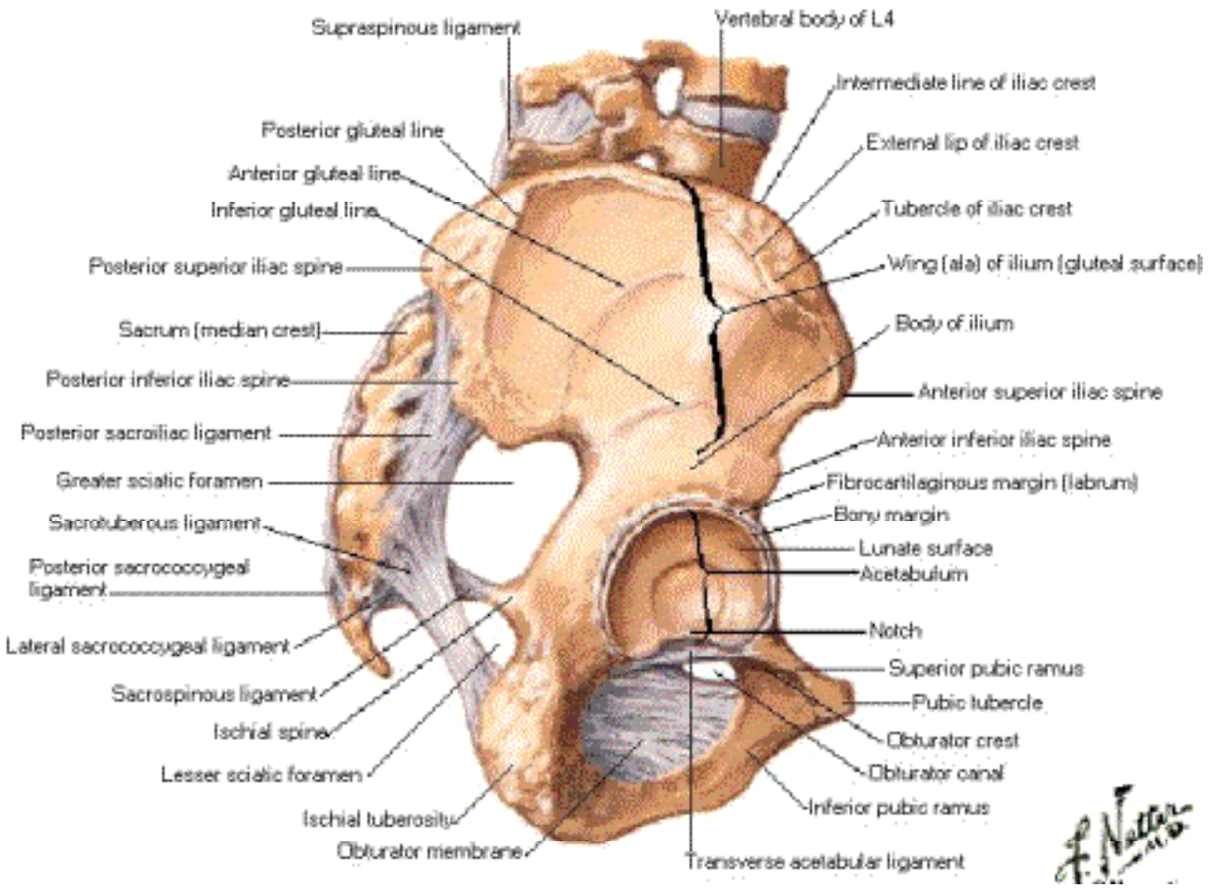
Bones and Ligaments of Pelvis

Midsagittal Section



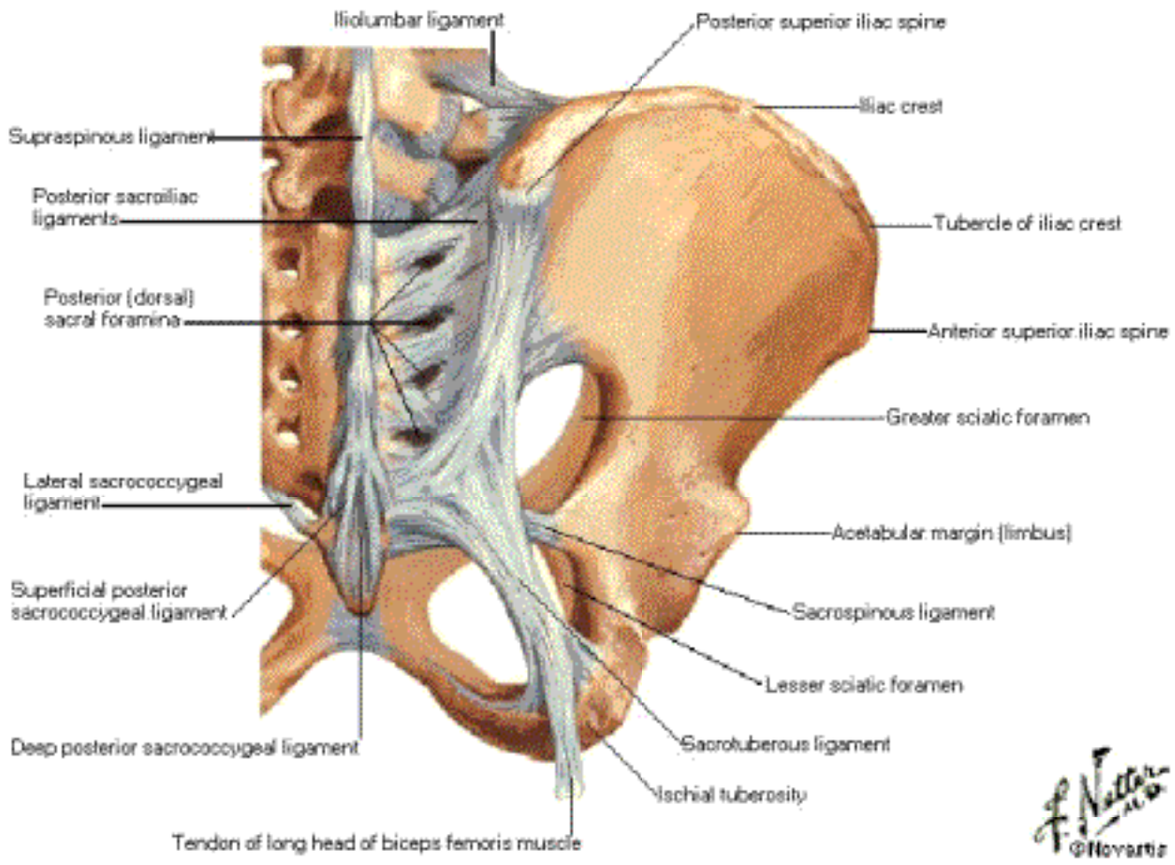
Bones and Ligaments of Pelvis

Lateral View



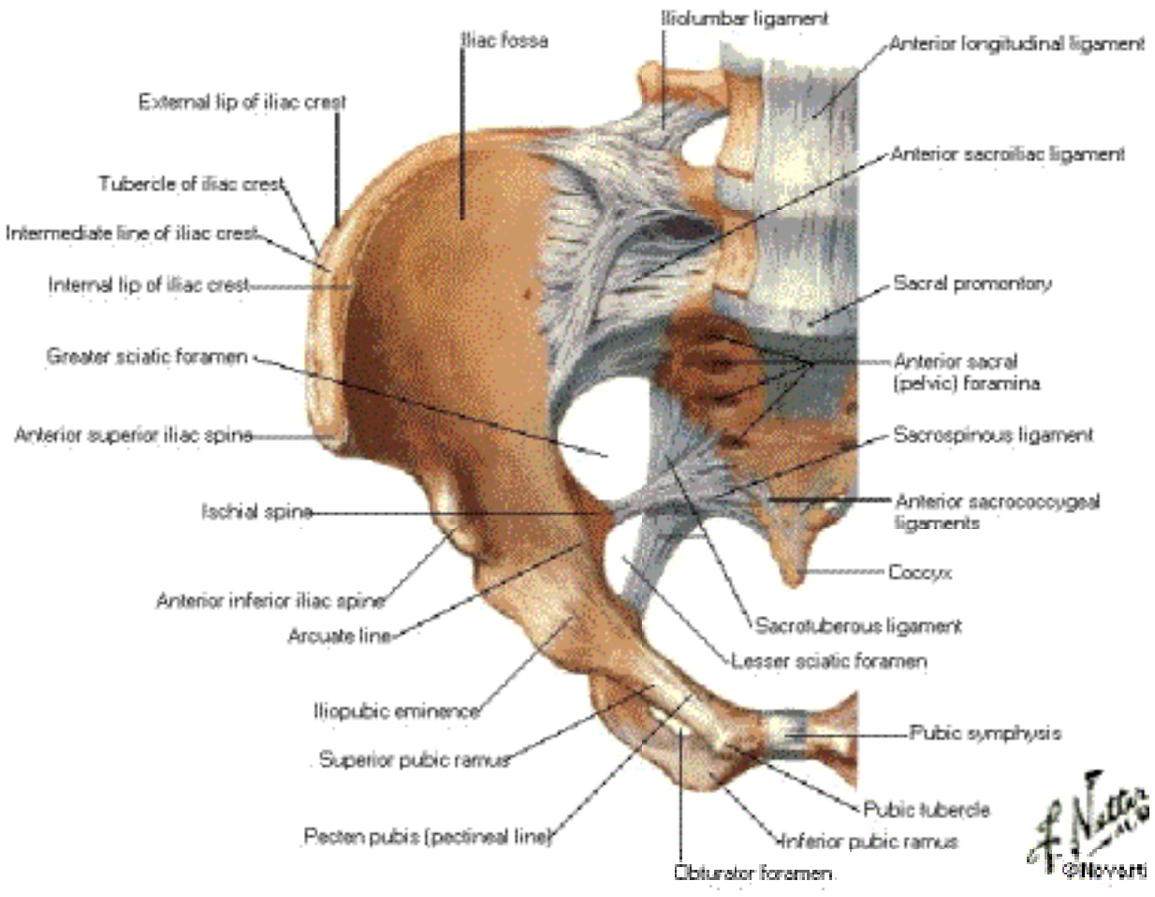
Bones and Ligaments of Pelvis

Posterior View



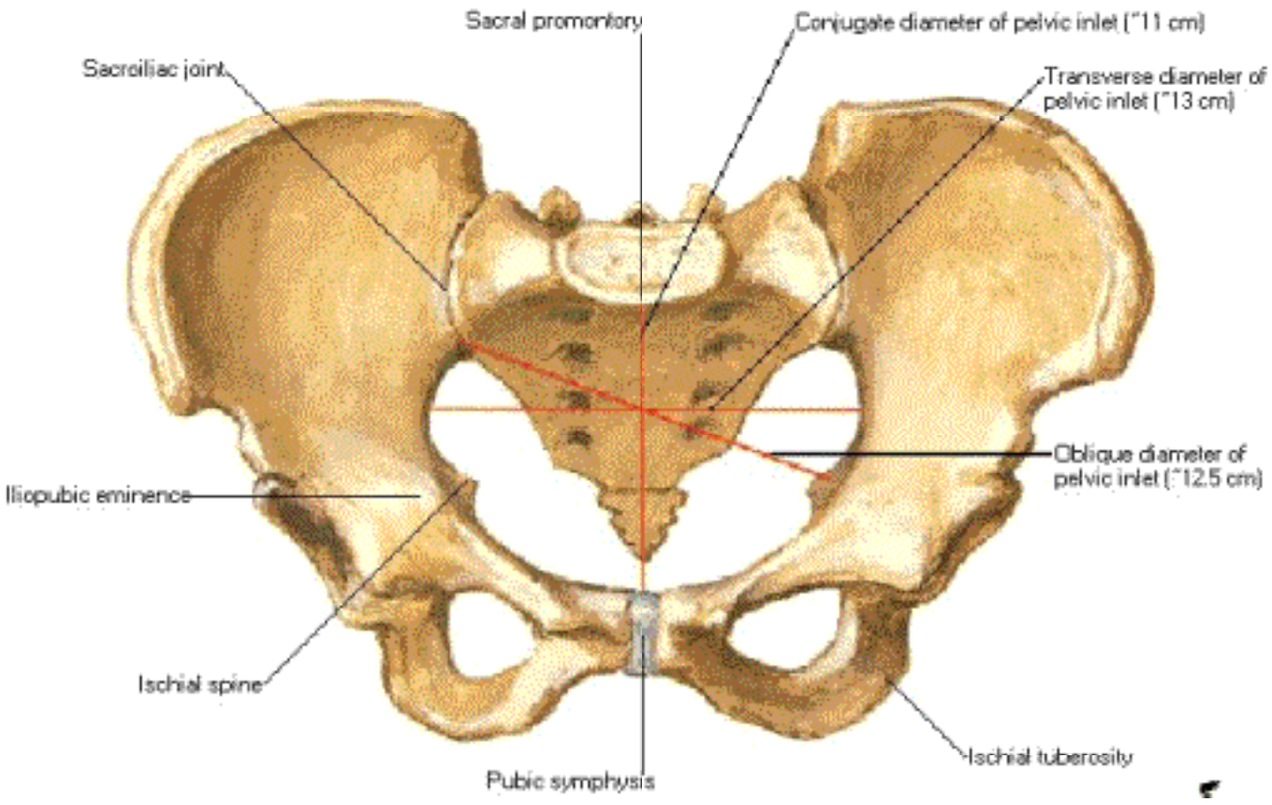
Bones and Ligaments of Pelvis

Anterior View



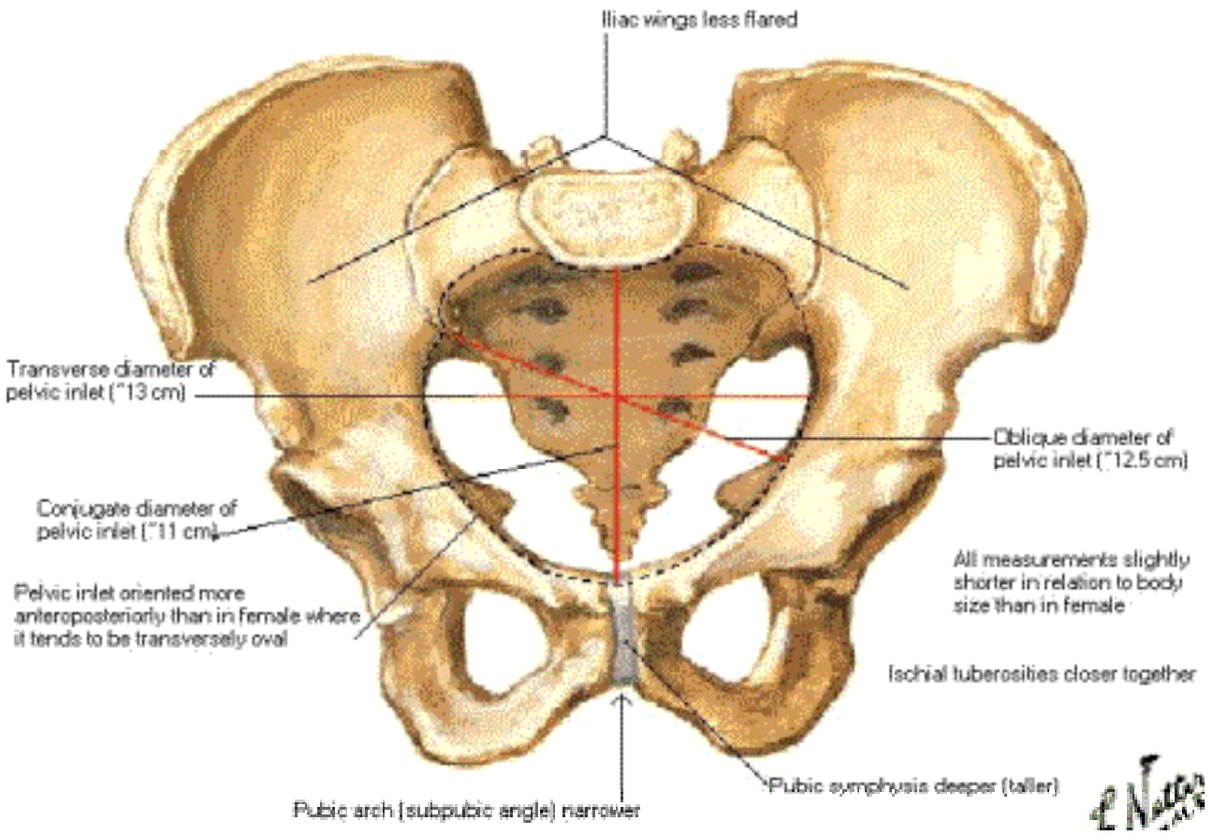
Female Pelvis

Measurements - Anterior View



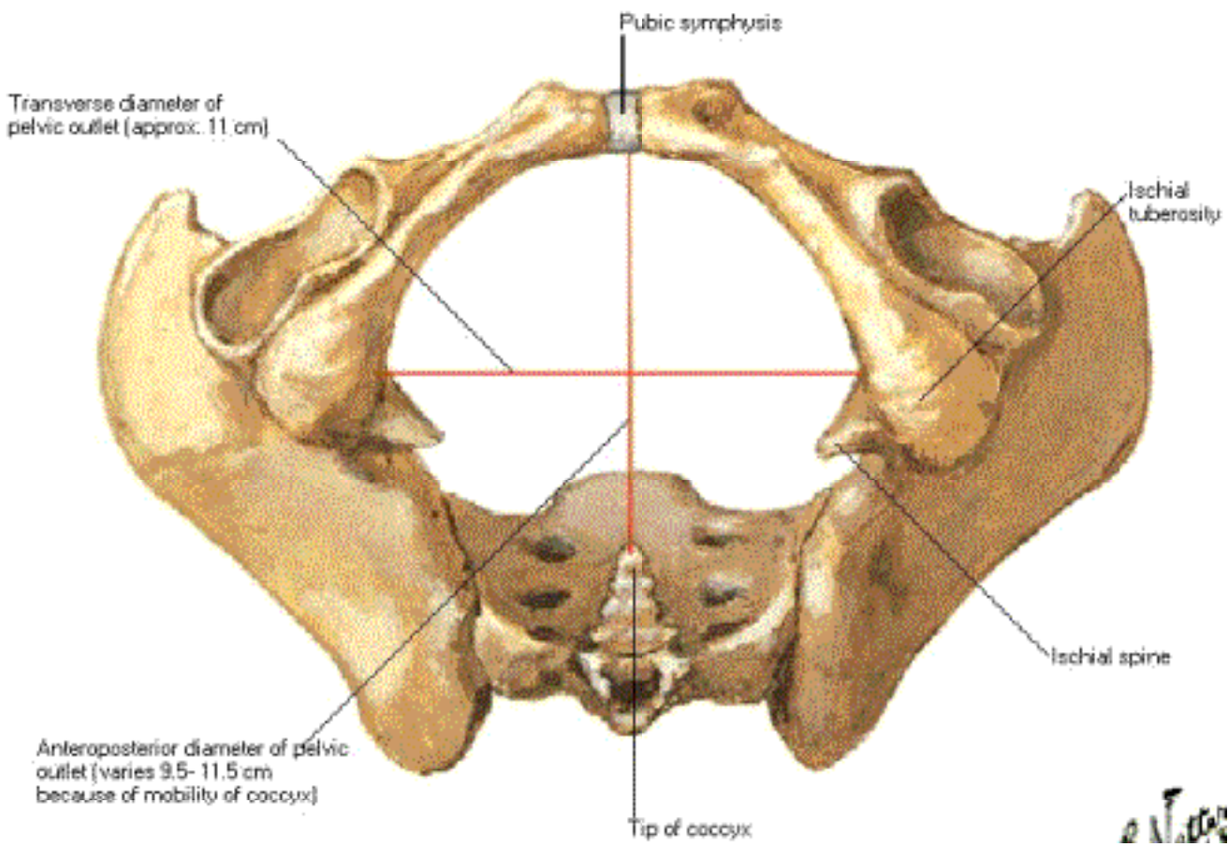
Male Pelvis

Measurements - Anterior View



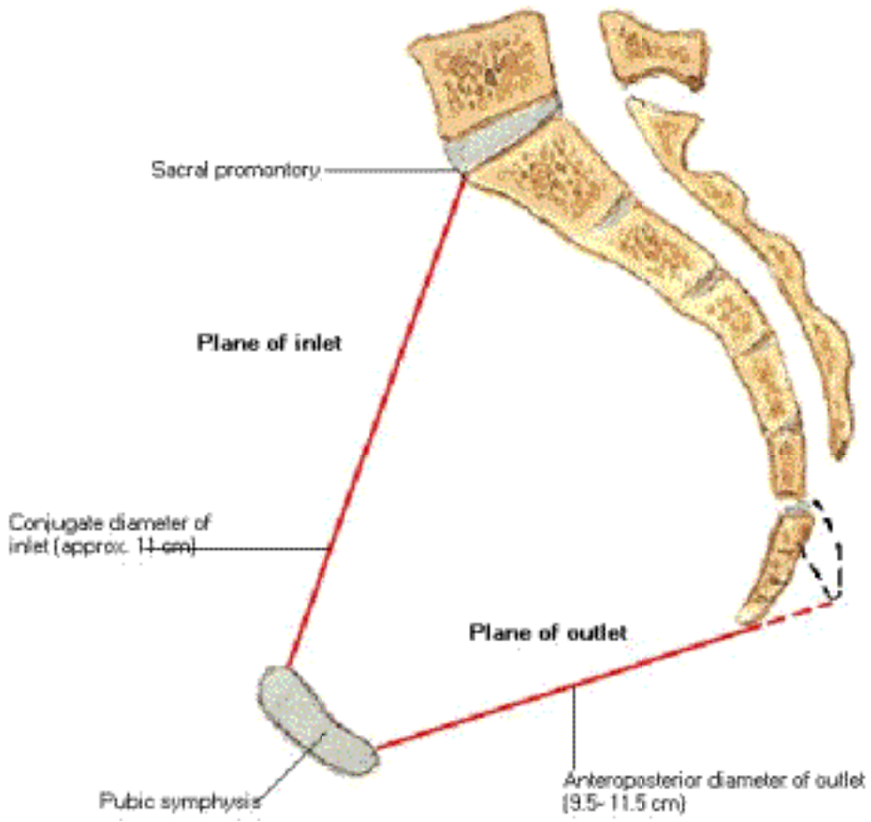
Female Pelvis

Measurements - Inferior View



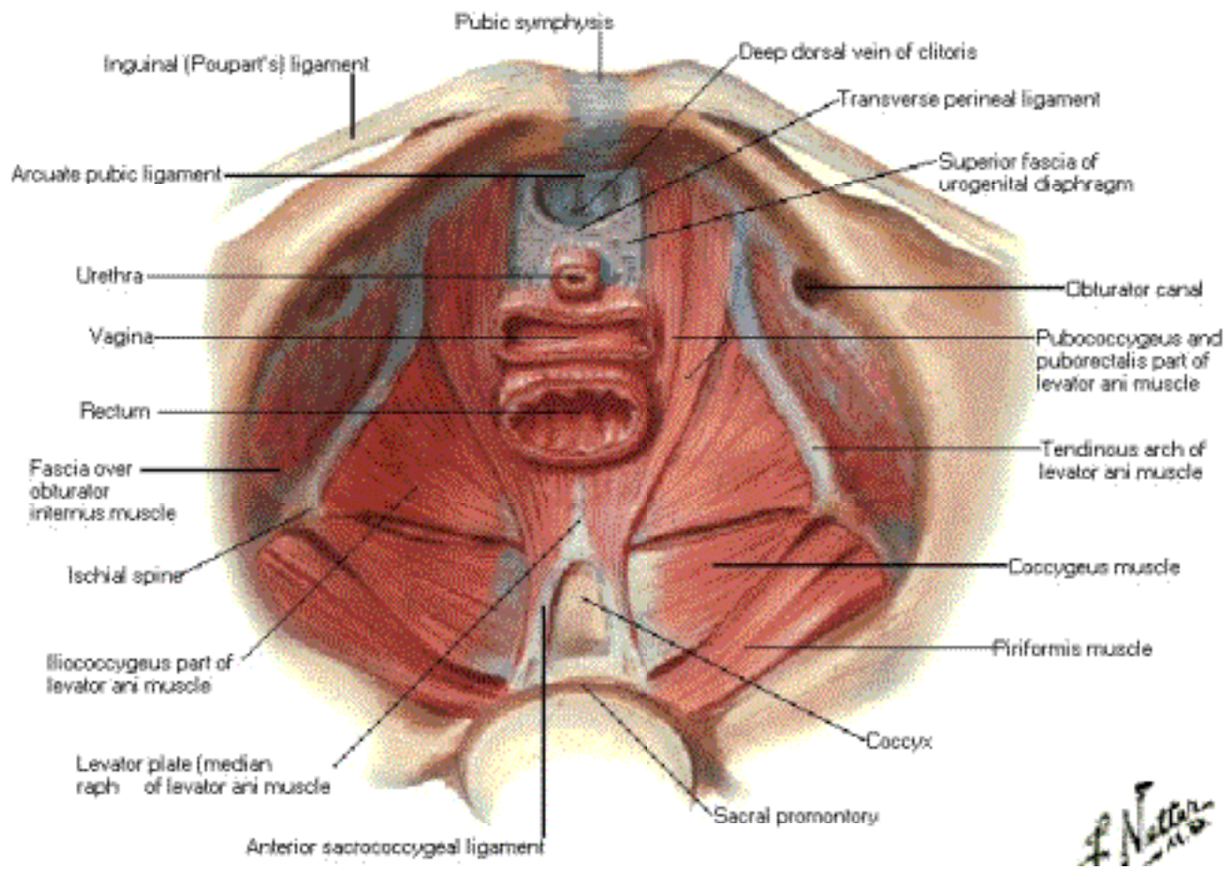
Female Pelvis

Measurements - Sagittal Section



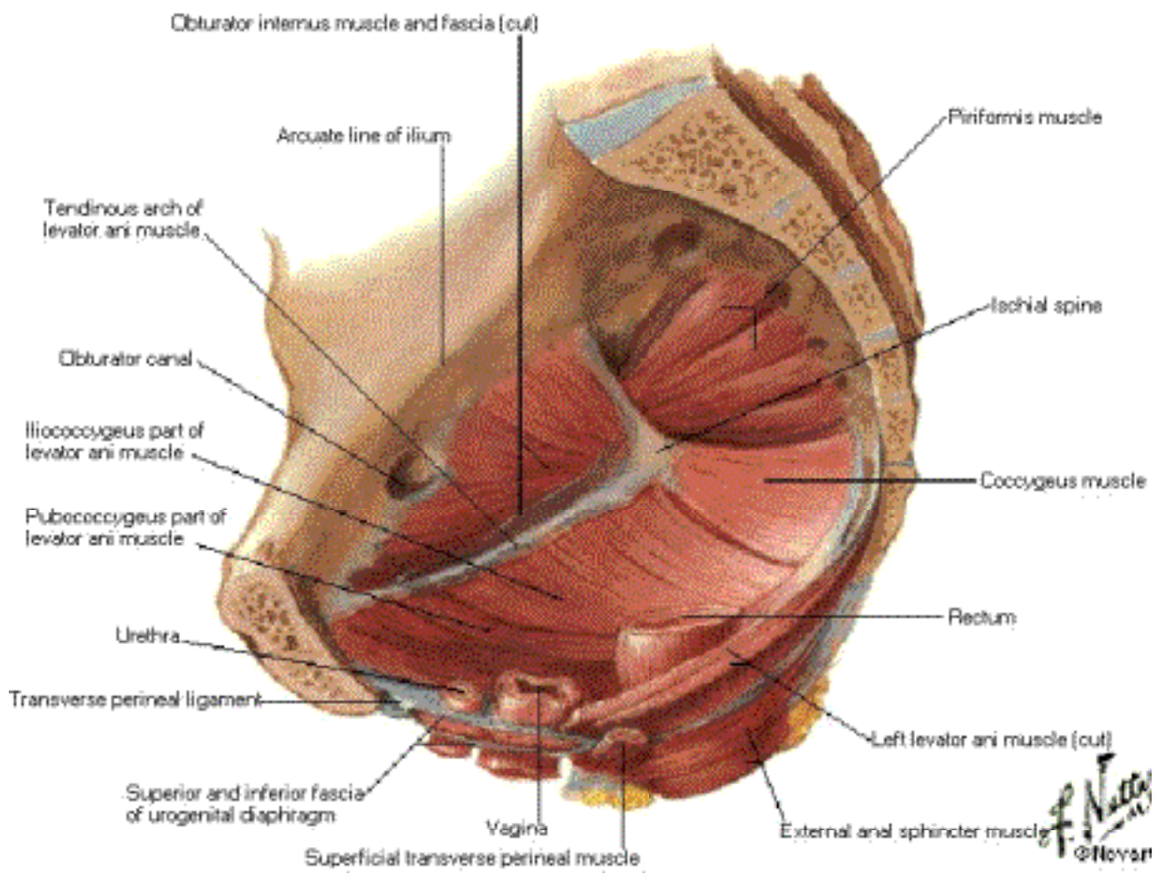
Pelvic Diaphragm of Female

Superior View



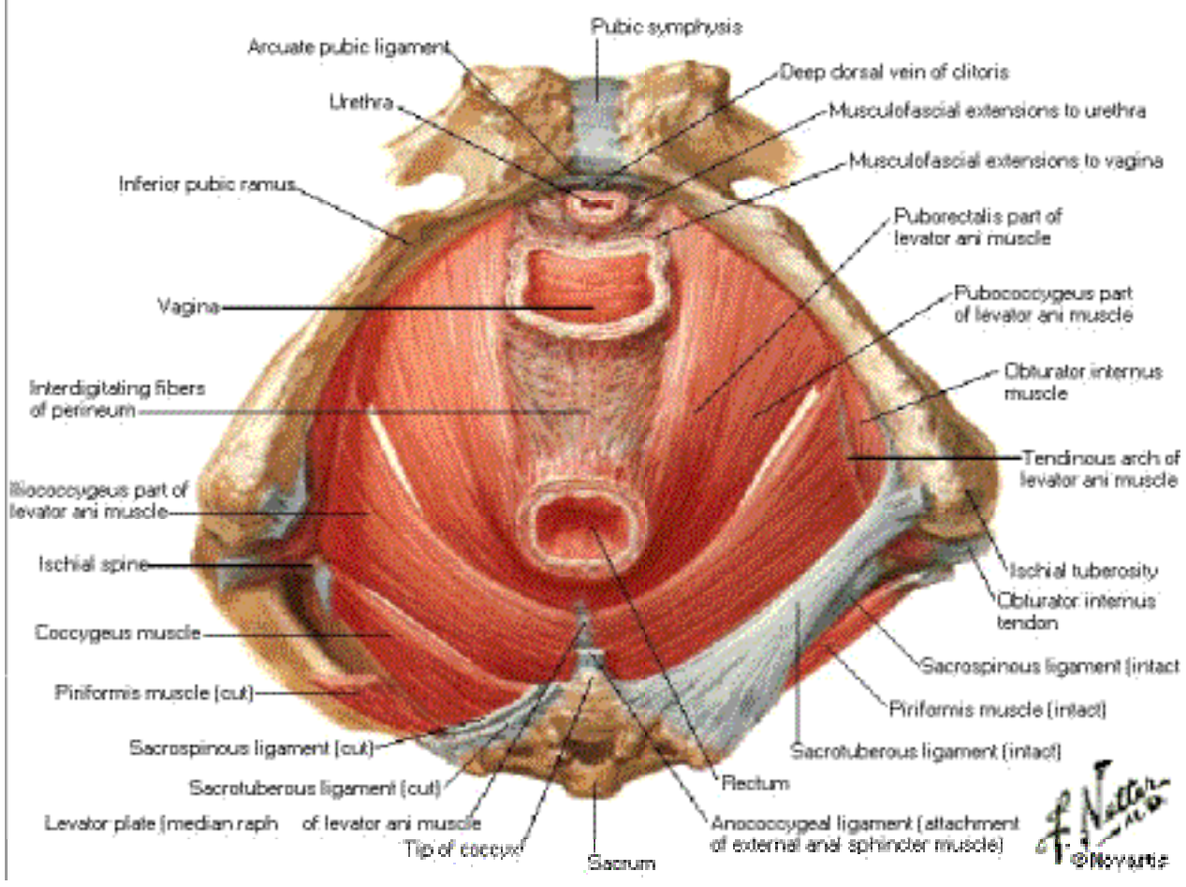
Pelvic Diaphragm of Female

Medial View



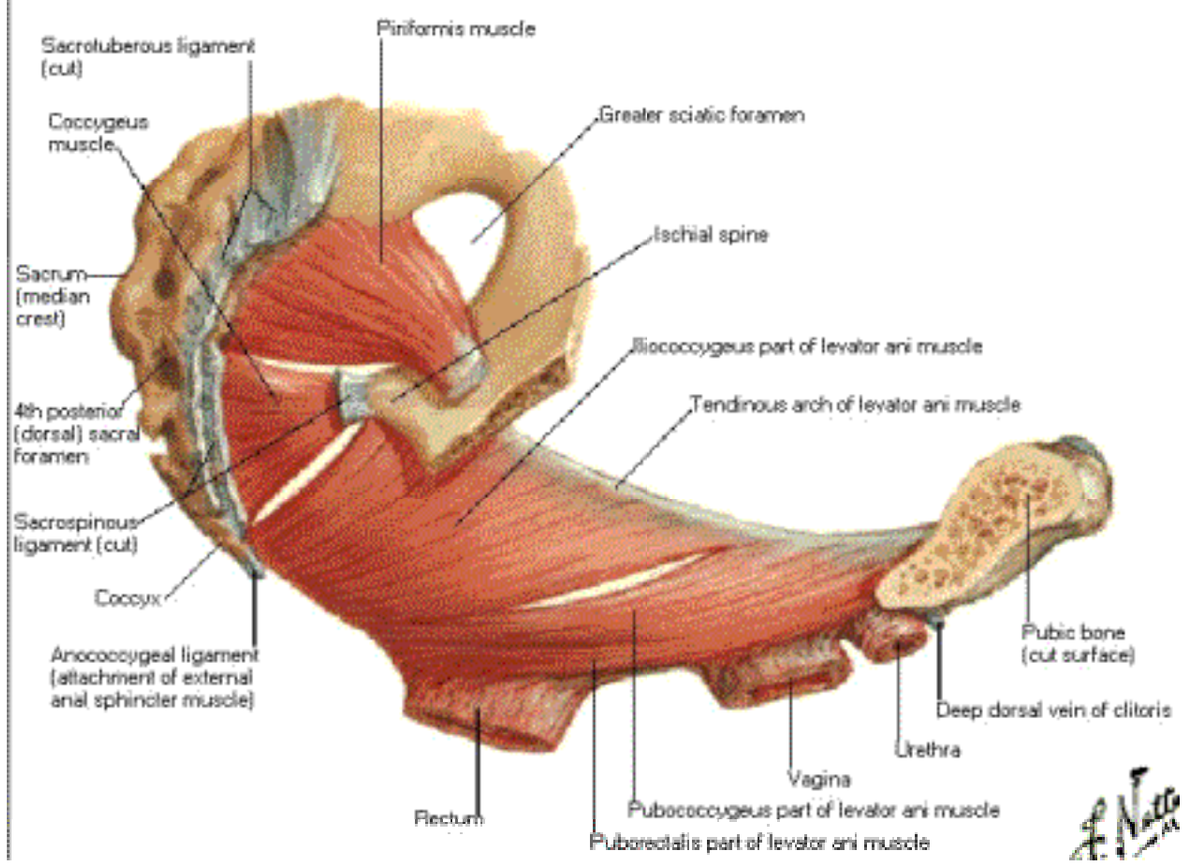
Pelvic Diaphragm of Female

Inferior View



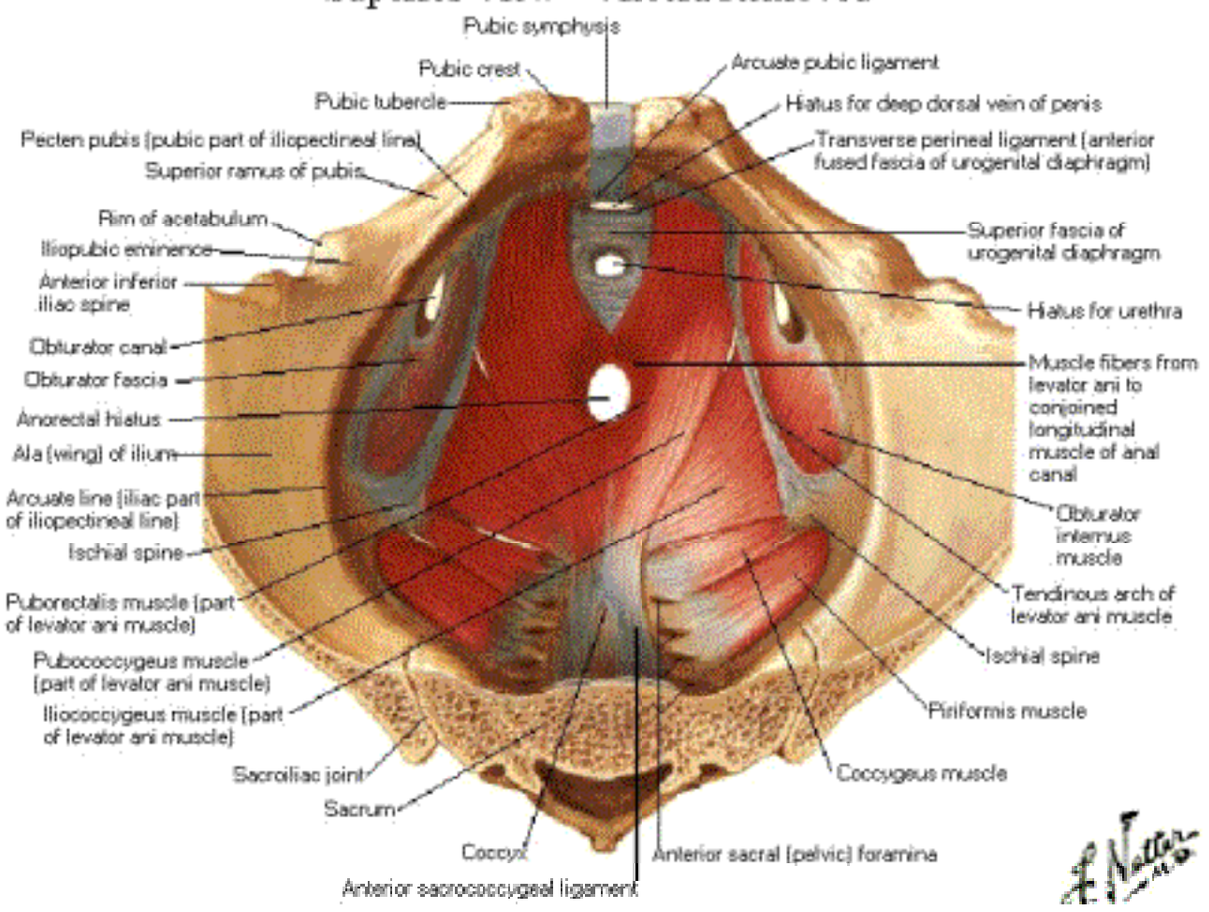
Pelvic Diaphragm of Female

Lateral View



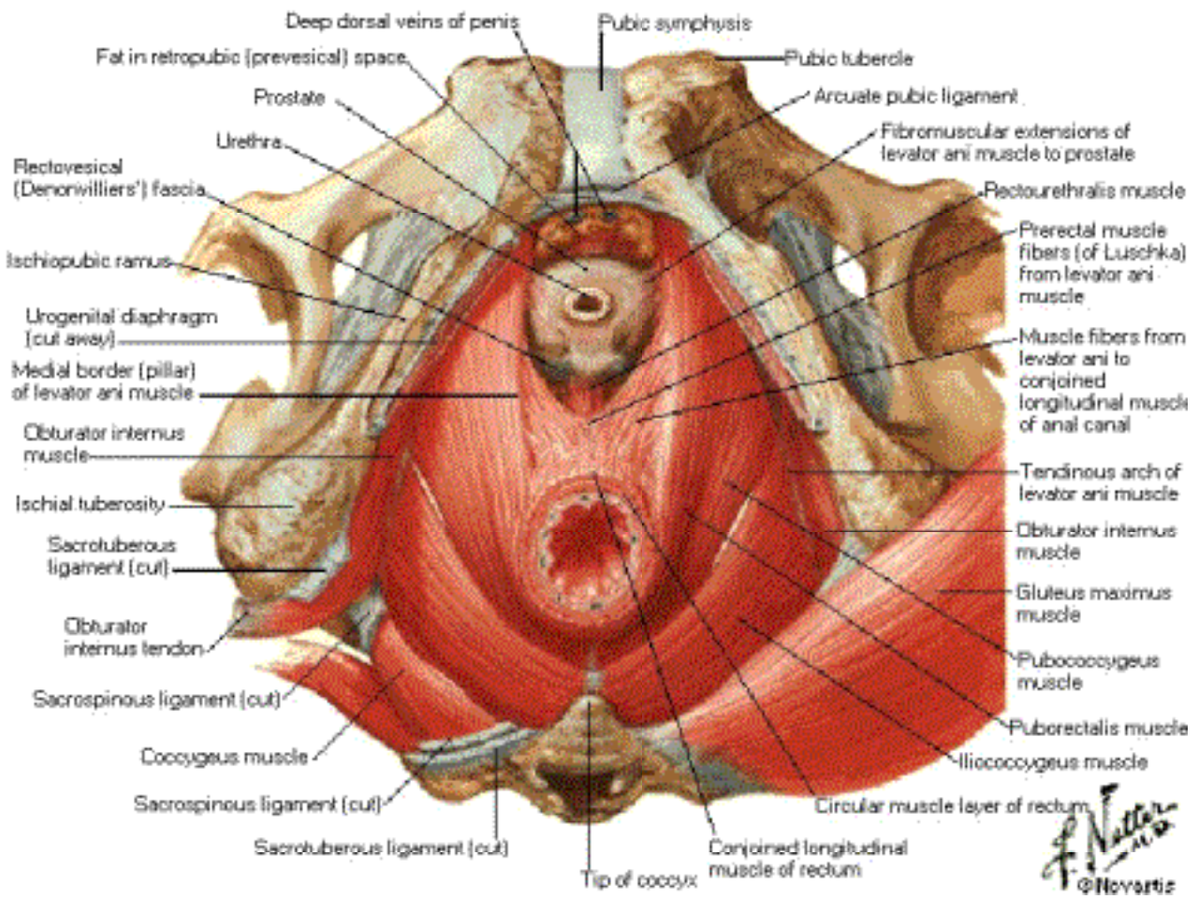
Pelvic Diaphragm of Male

Superior View - Viscera Removed



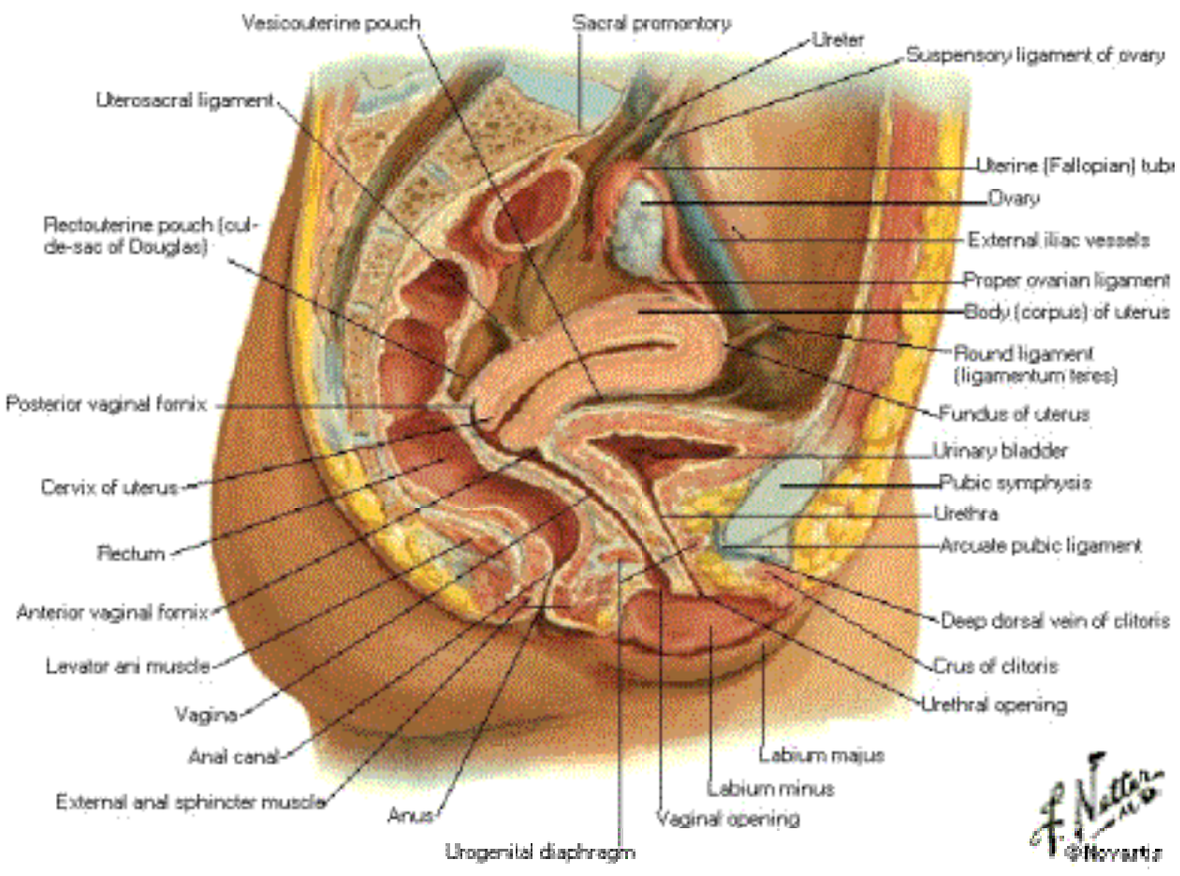
Pelvic Diaphragm of Male

Inferior View



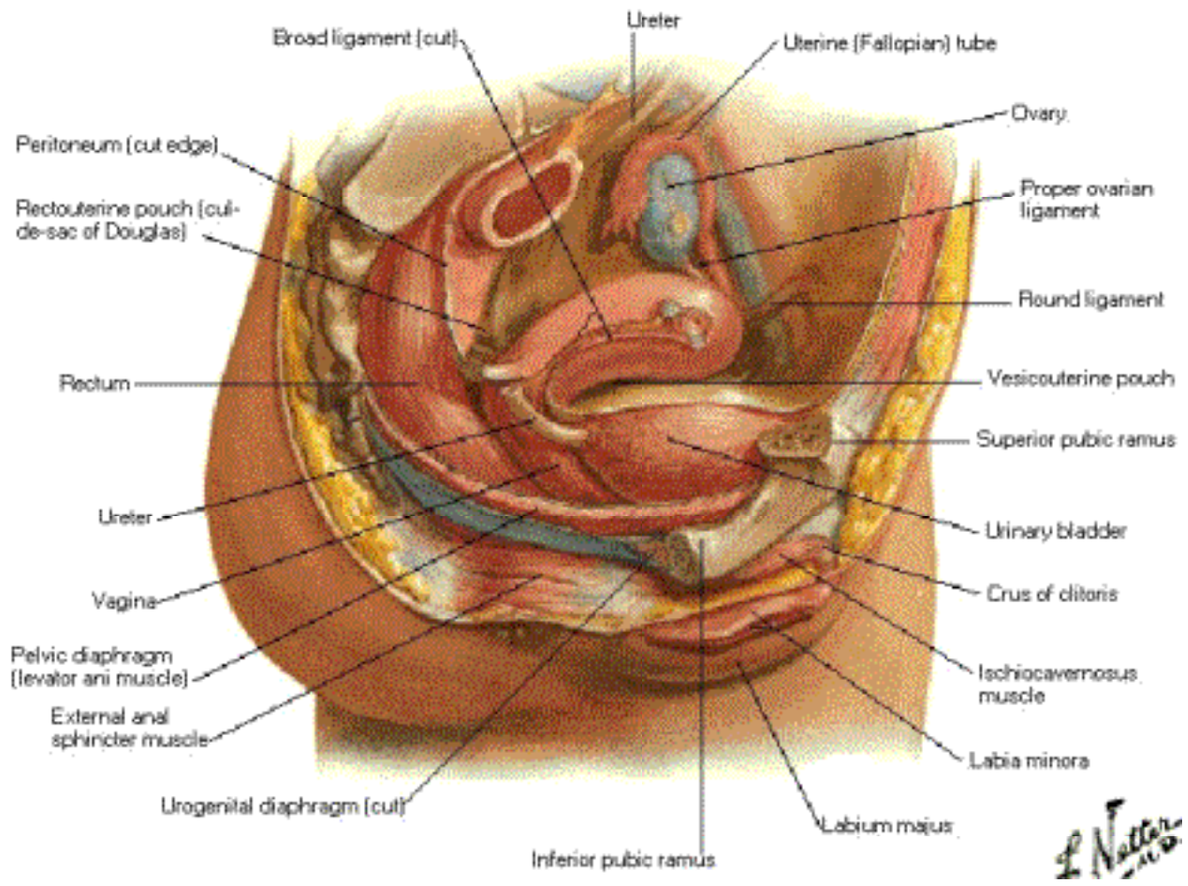
Pelvic Viscera and Perineum of Female

Midsagittal Section



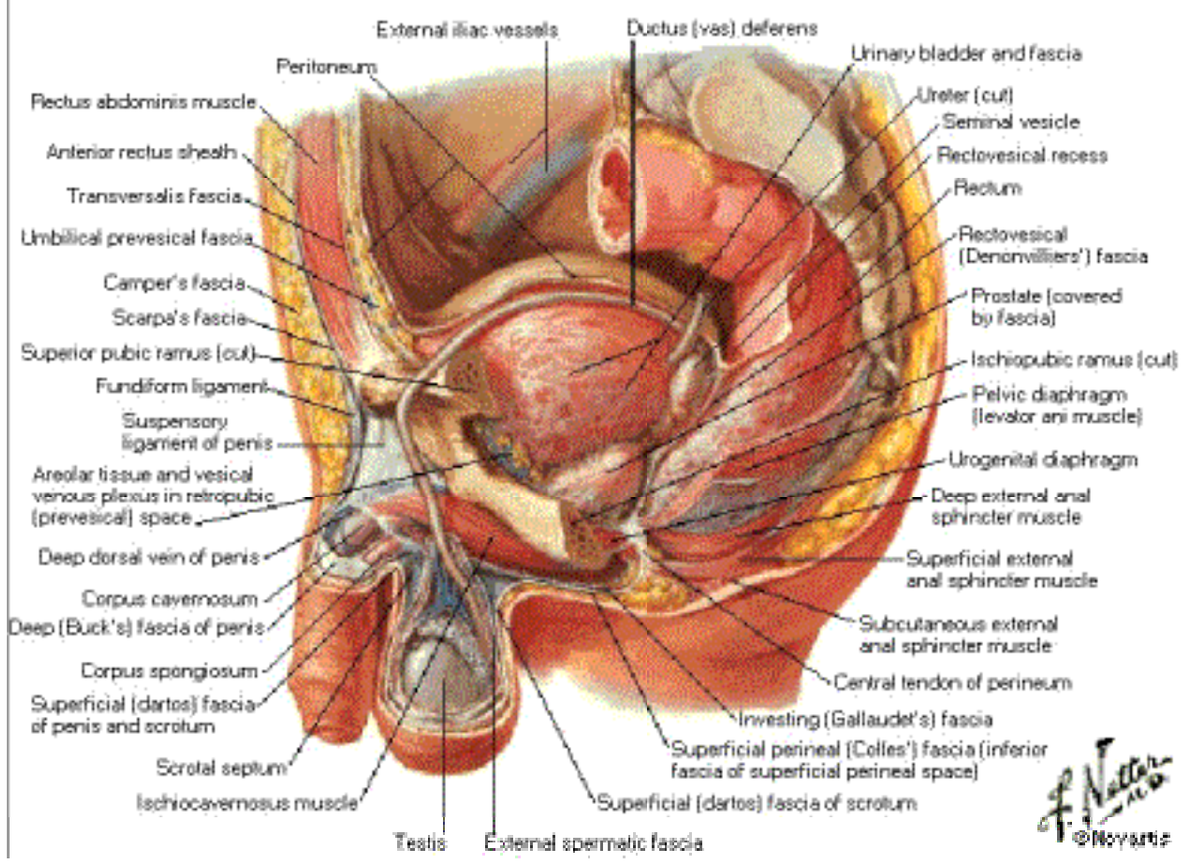
Pelvic Viscera and Perineum of Female

Paramedian Sagittal Section



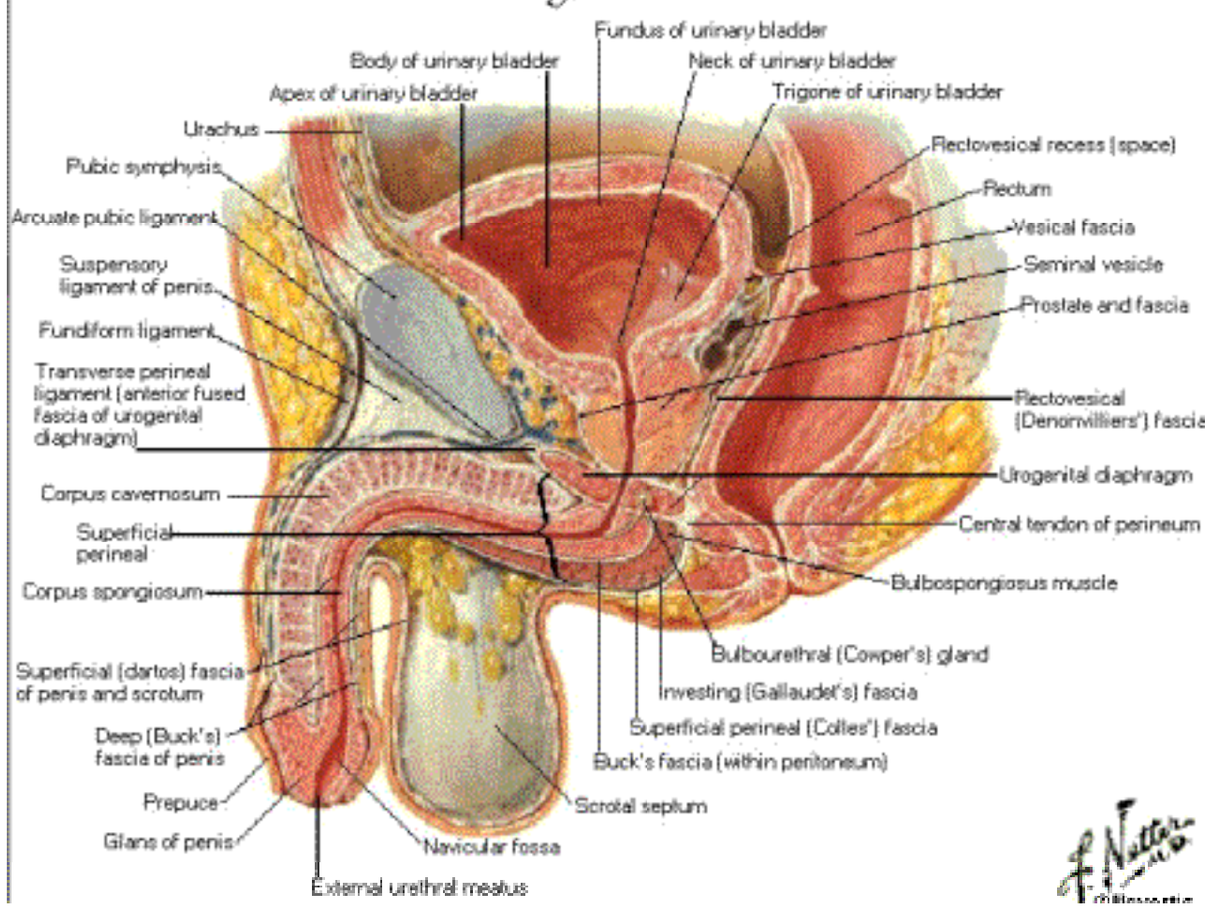
Pelvic Viscera and Perineum of Male

Paramedian Sagittal Section



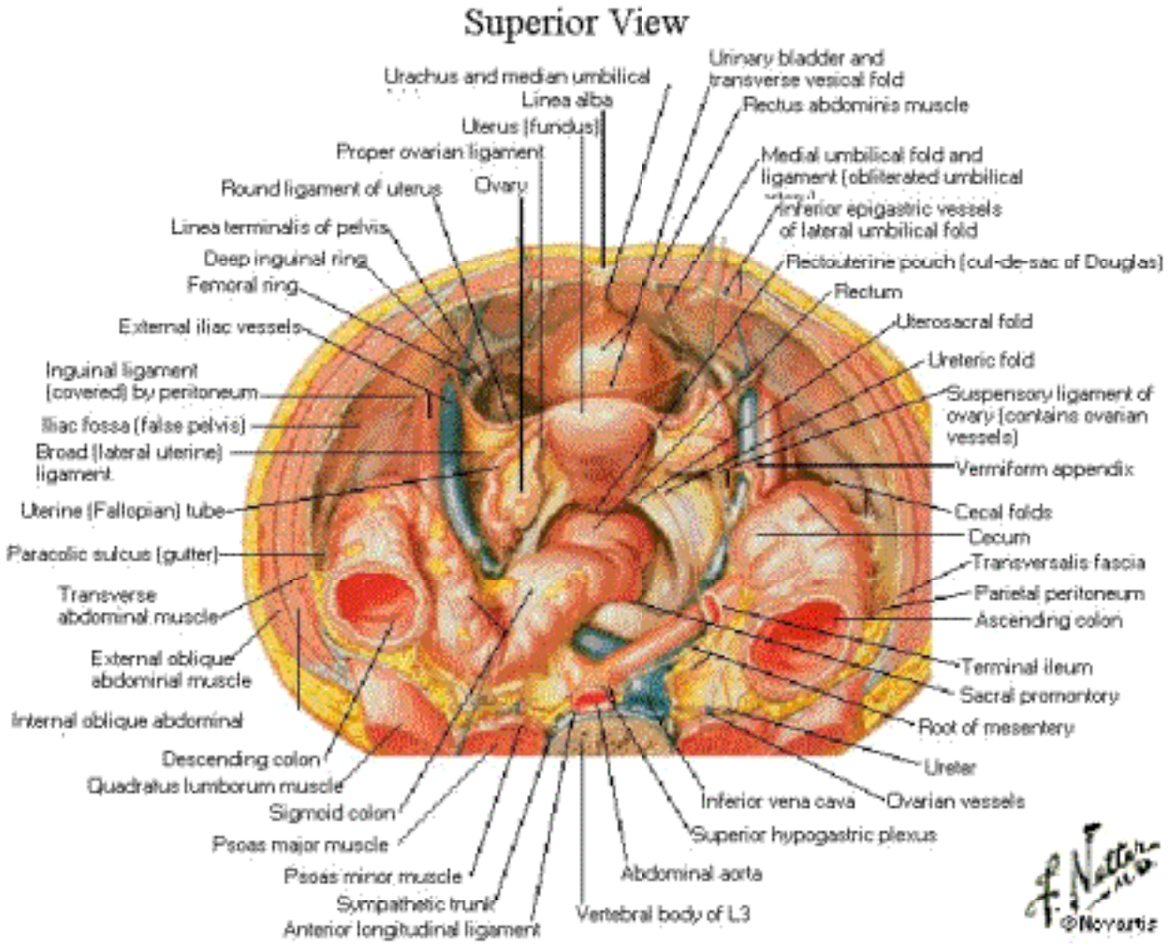
Pelvic Viscera and Perineum of Male

Midsagittal Section



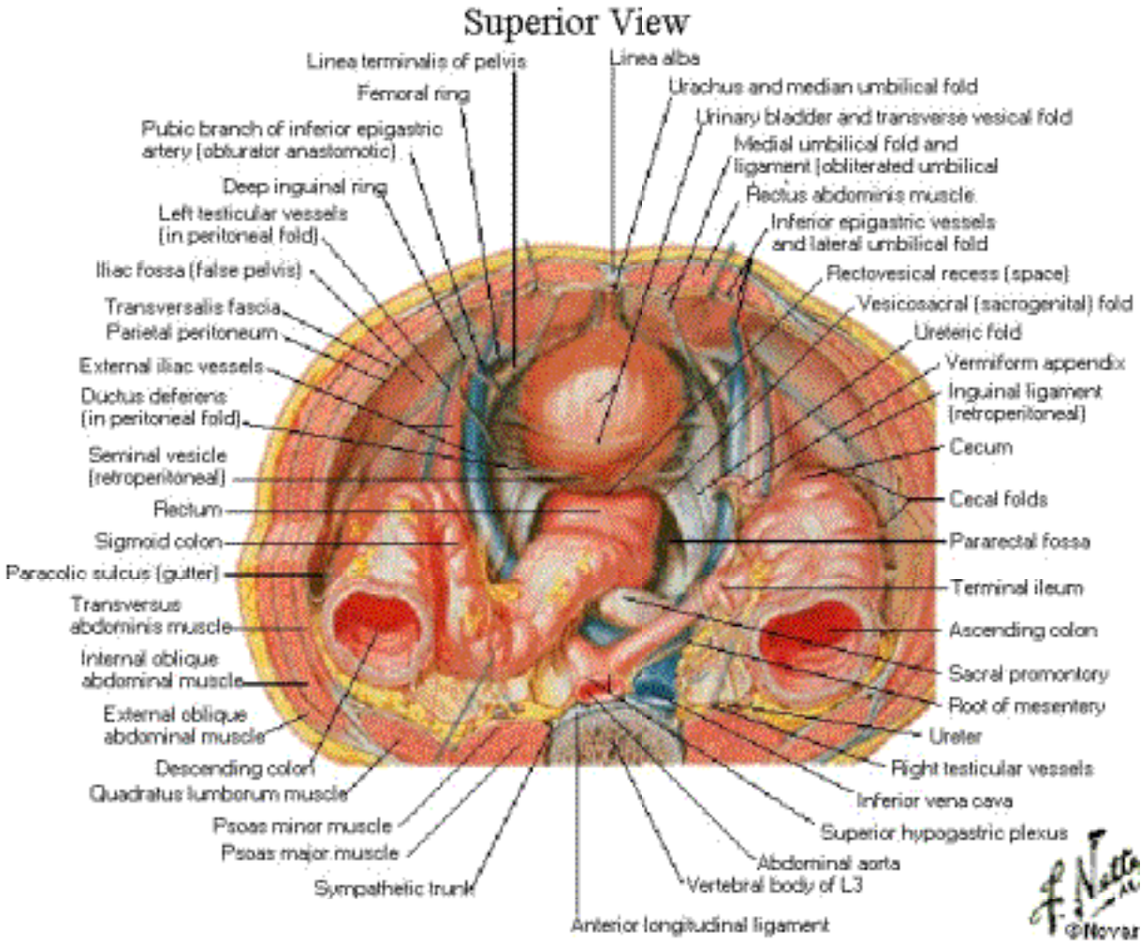
Pelvic Contents of Female

Superior View



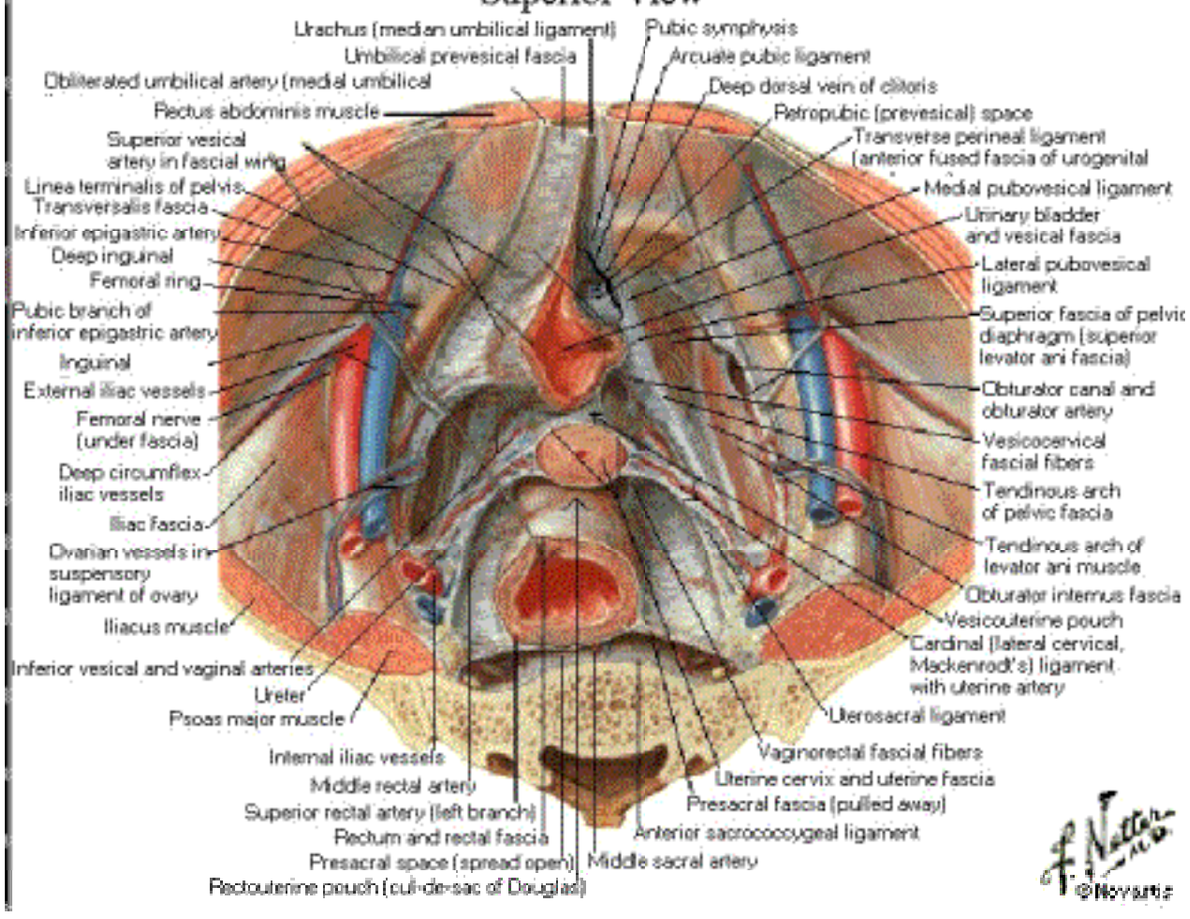
Pelvic Contents of Male

Superior View



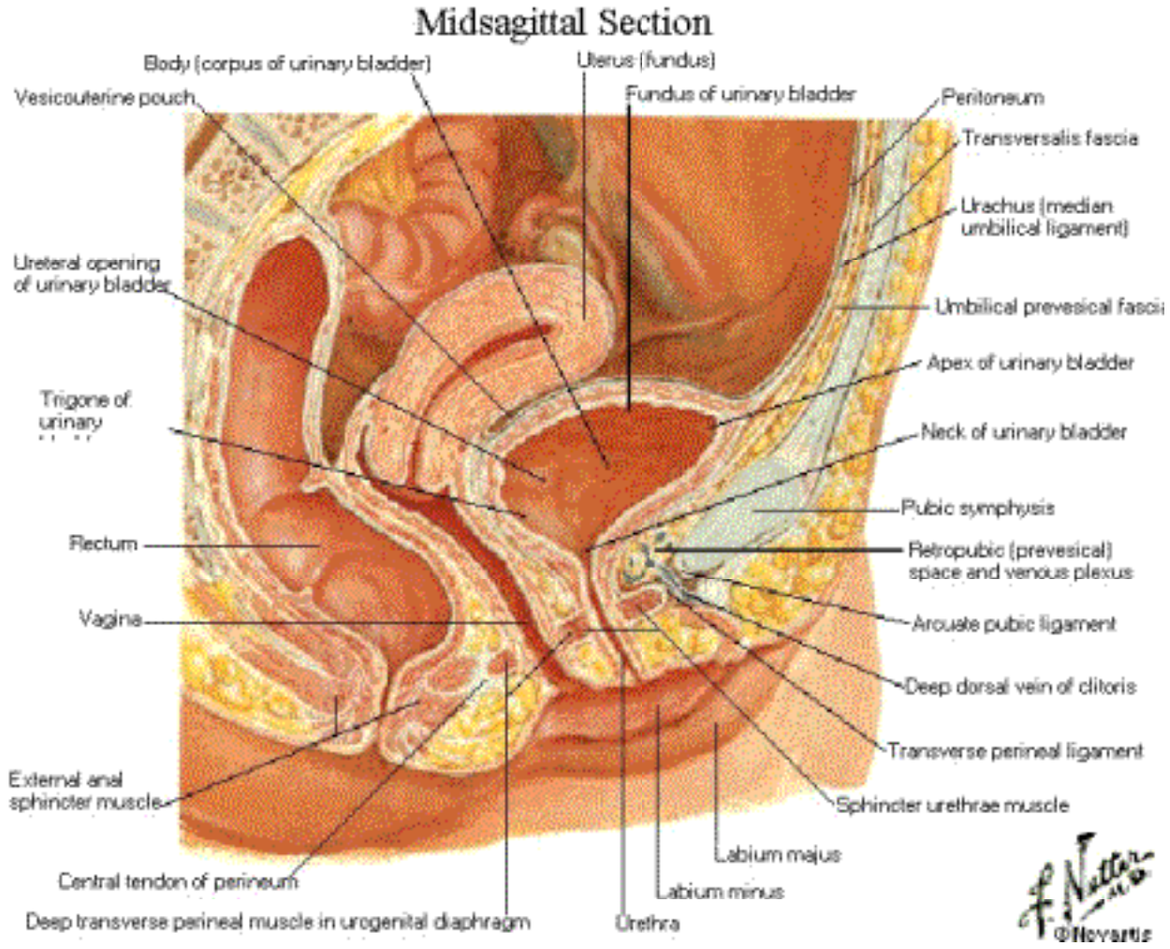
Endopelvic Fascia and Spaces of Female

Superior View



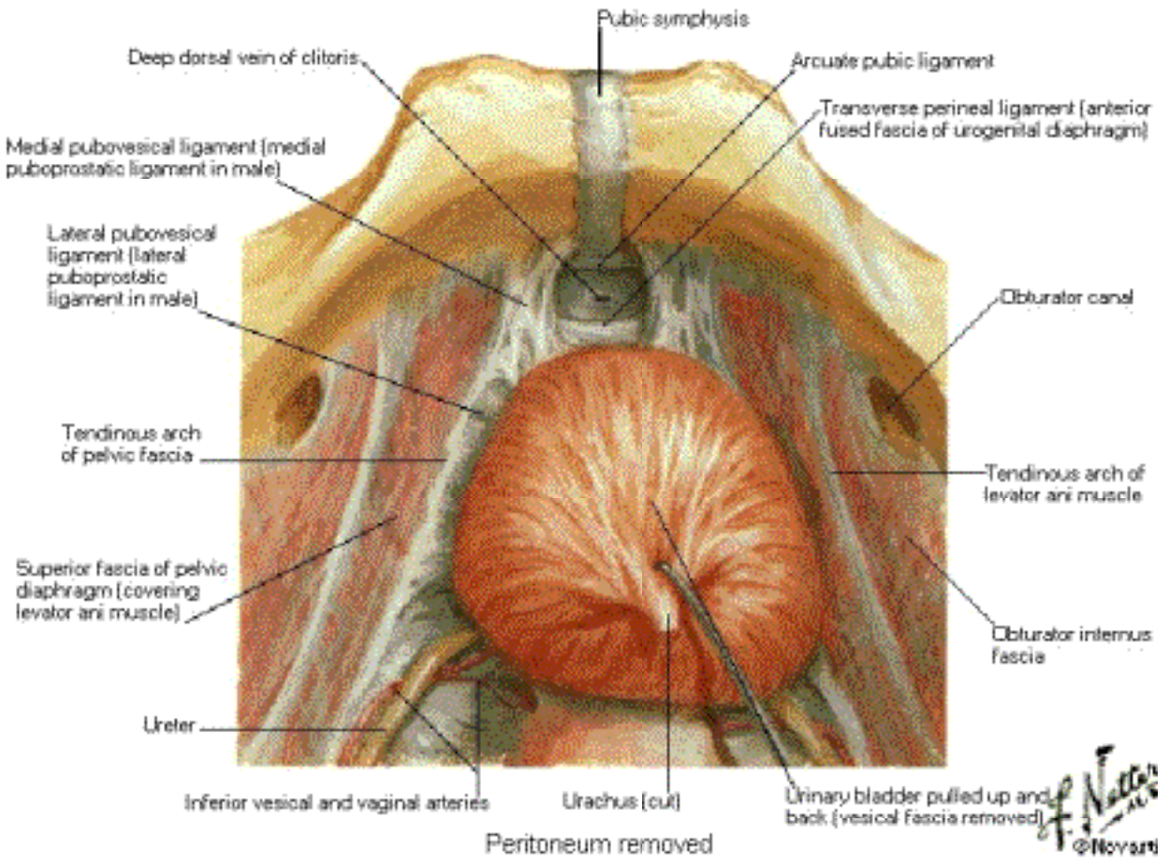
Urinary Bladder - Orientation and Supports

Midsagittal Section



Urinary Bladder - Orientation and Supports

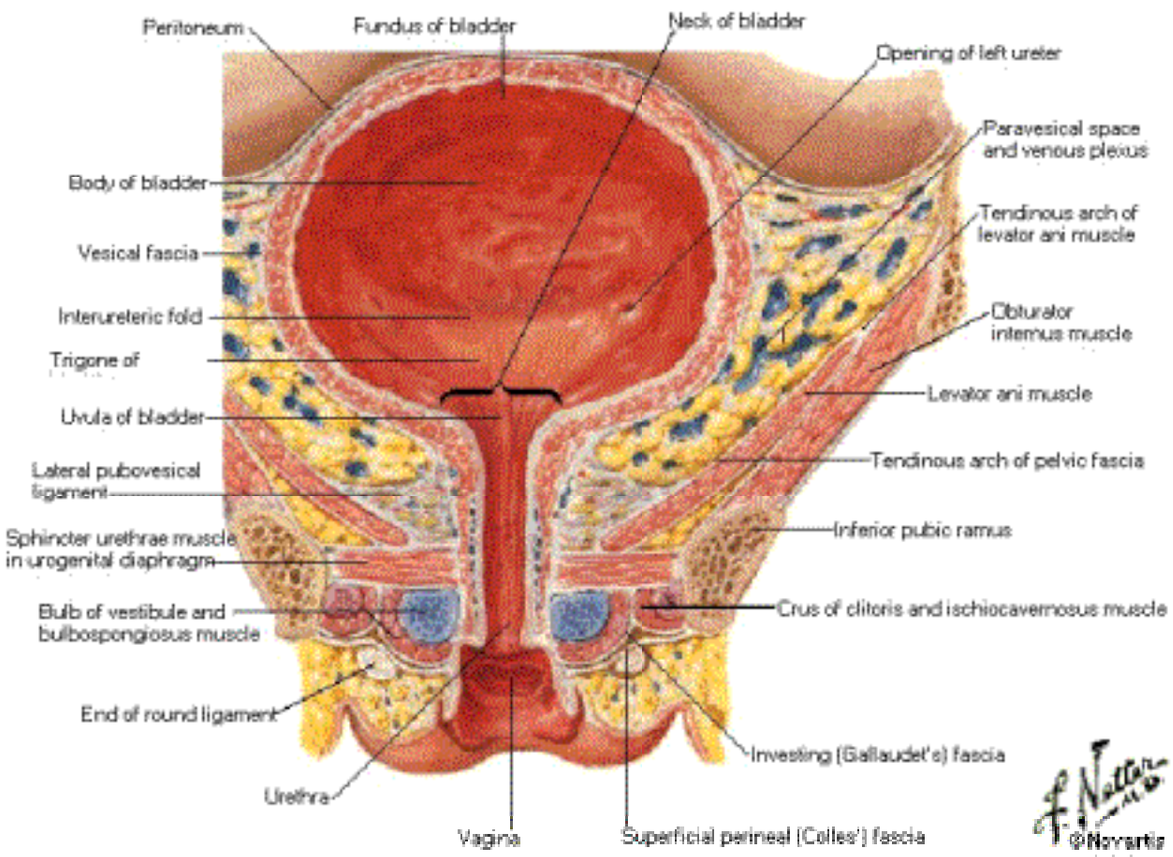
Superior View



Peritoneum removed

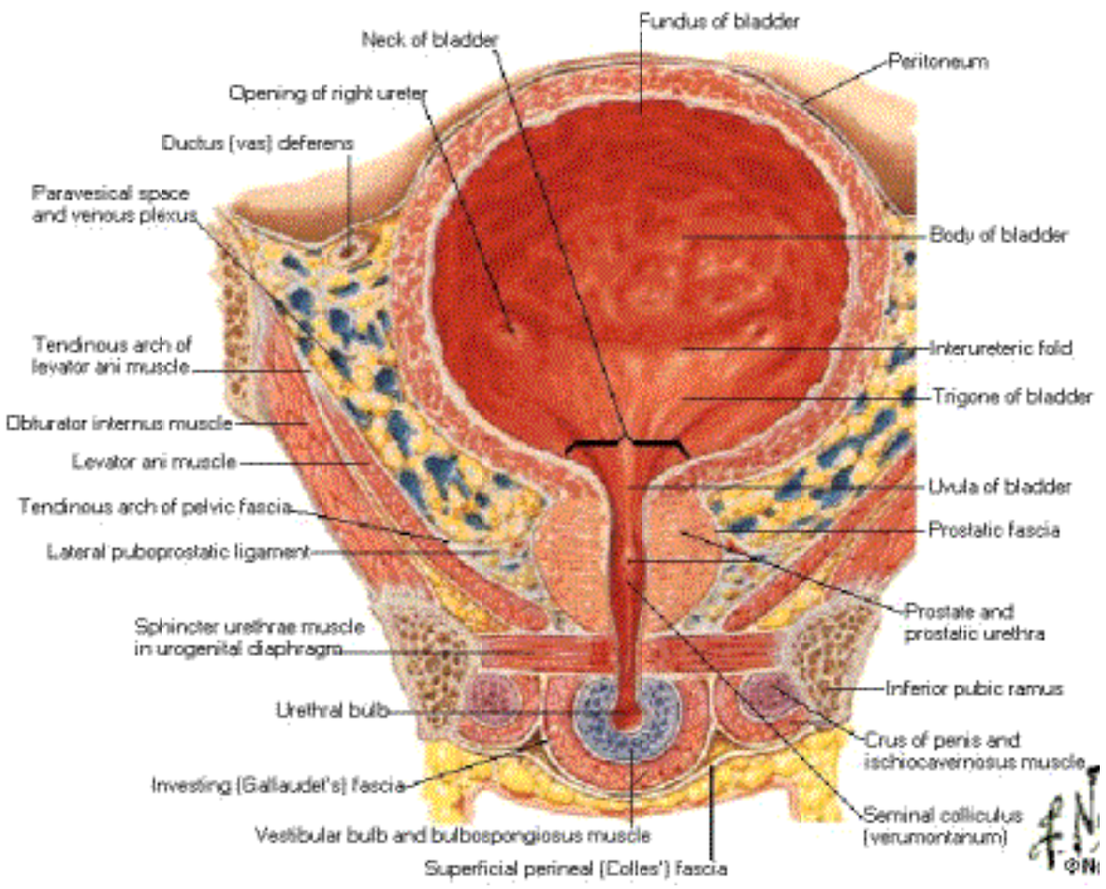
Urinary Bladder of Female

Frontal Section



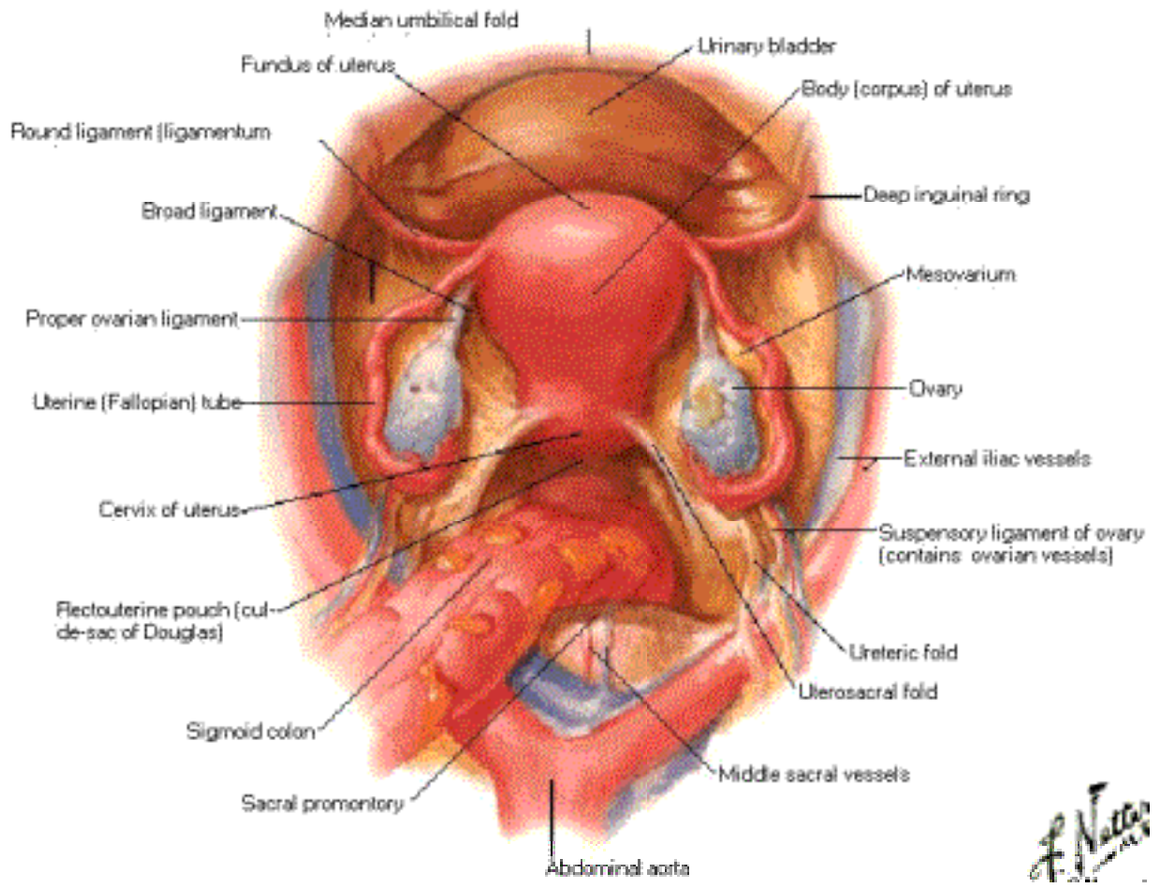
Urinary Bladder of Male

Frontal Section



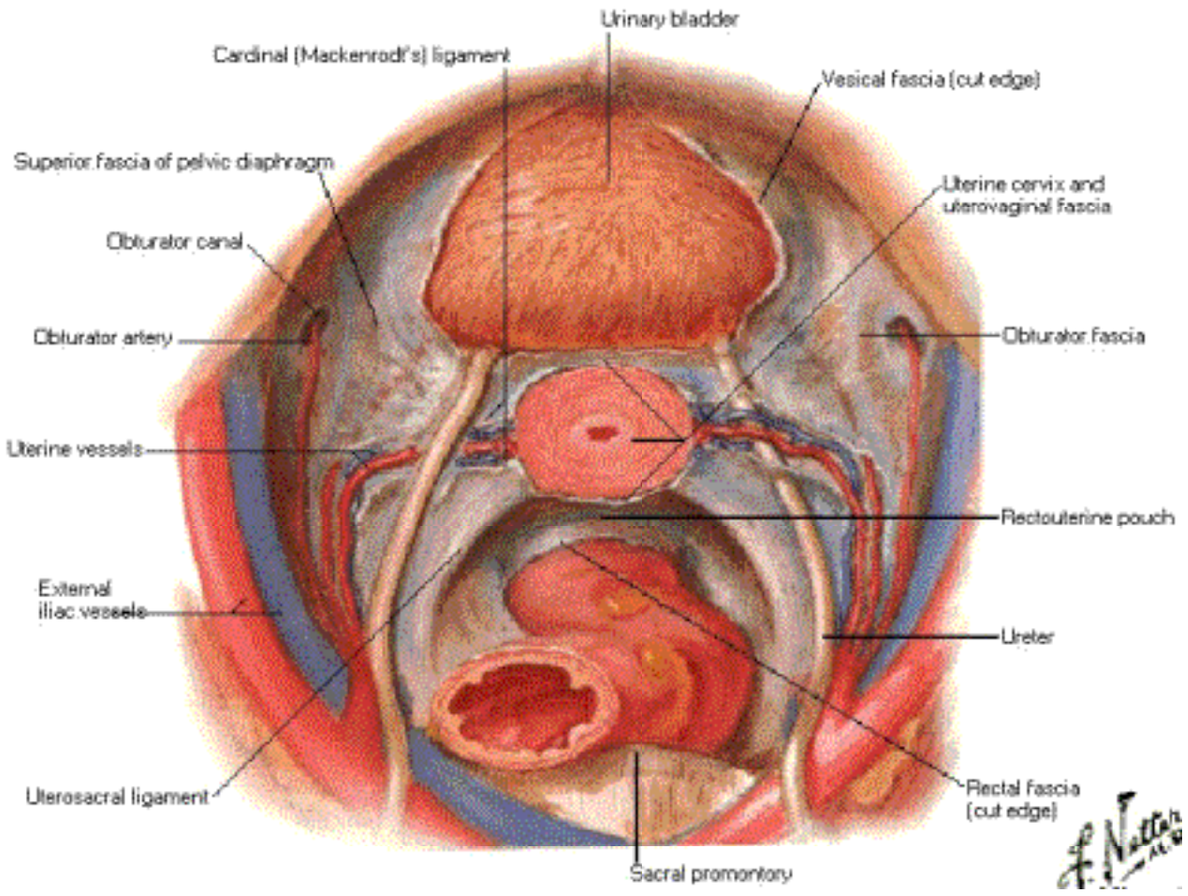
Pelvic Viscera of Female

Superior View - Peritoneum Intact

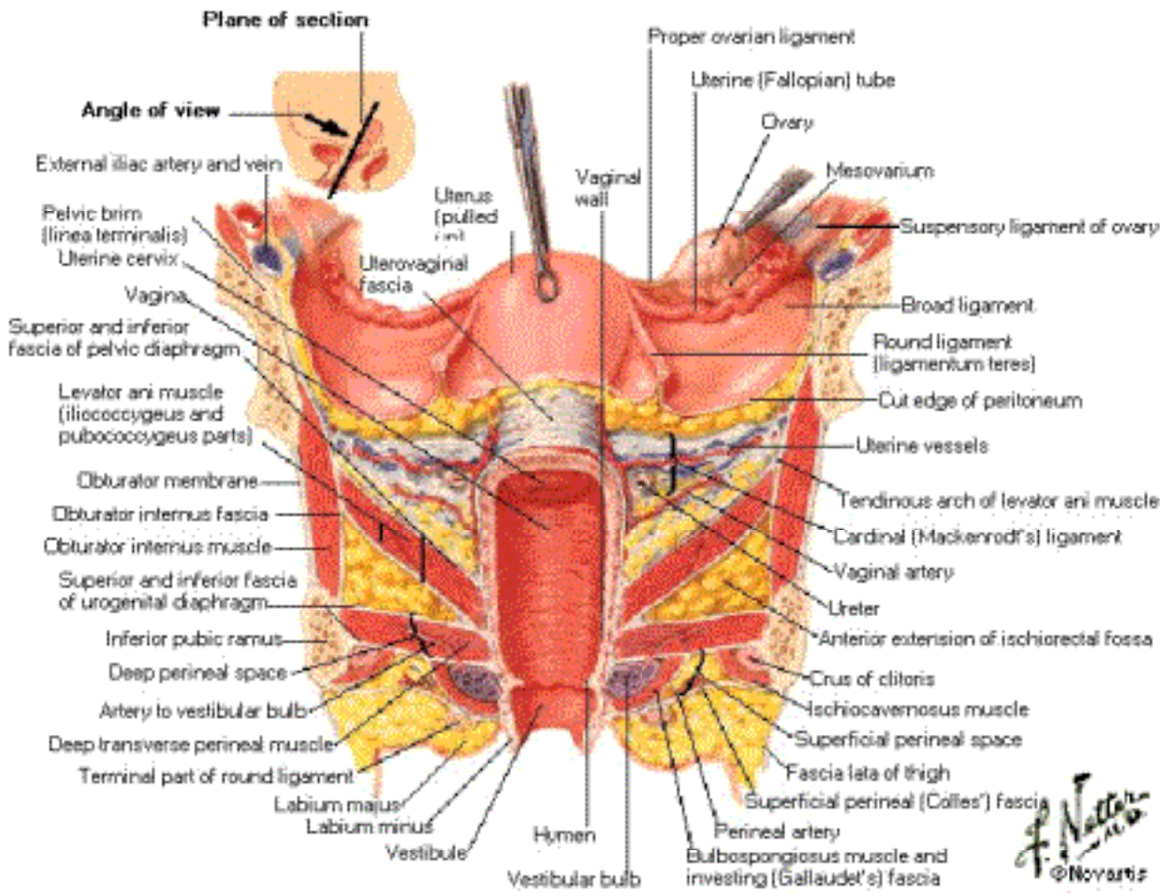


Pelvic Viscera of Female

Superior View - Peritoneum Removed

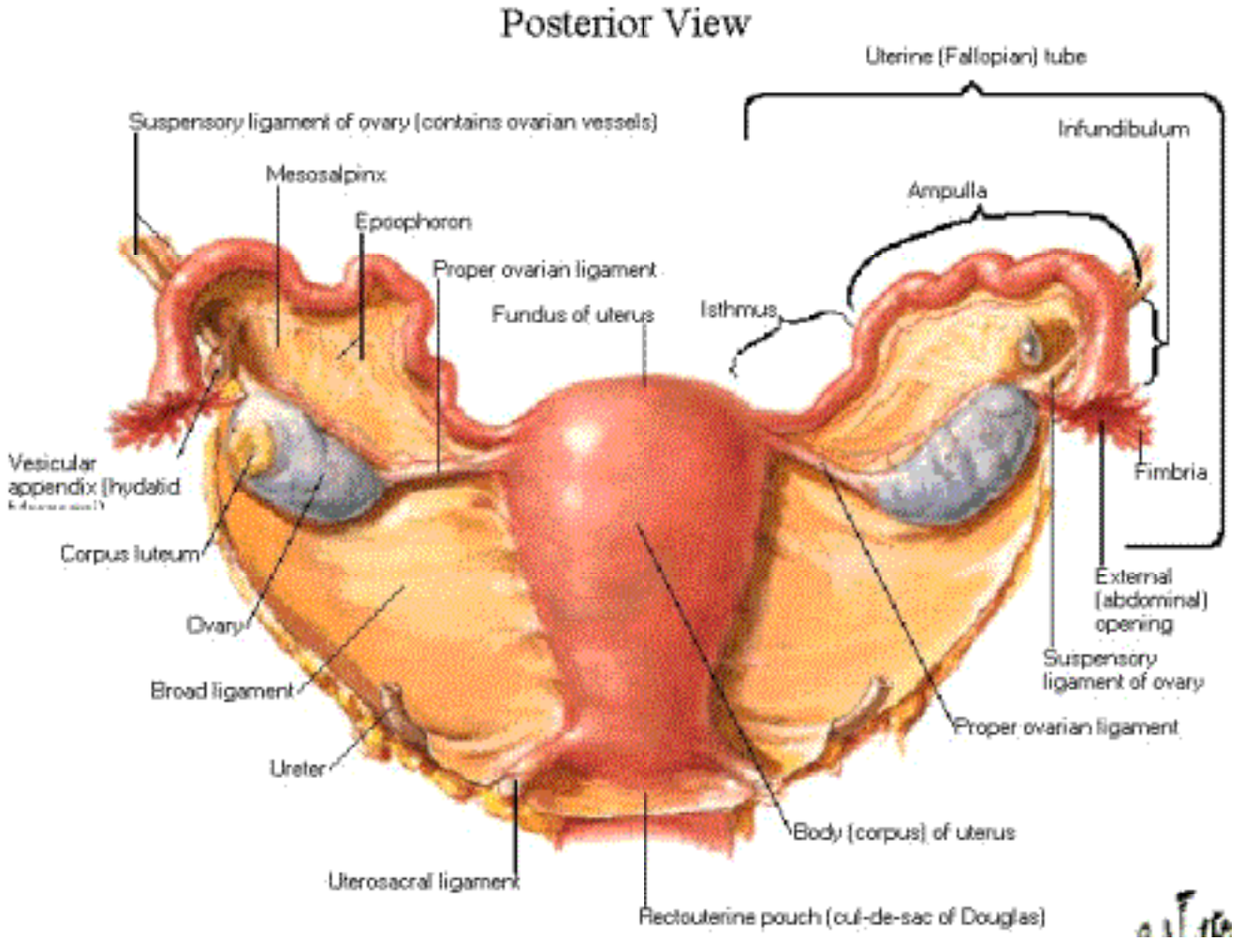


Uterus, Vagina and Supporting Structures



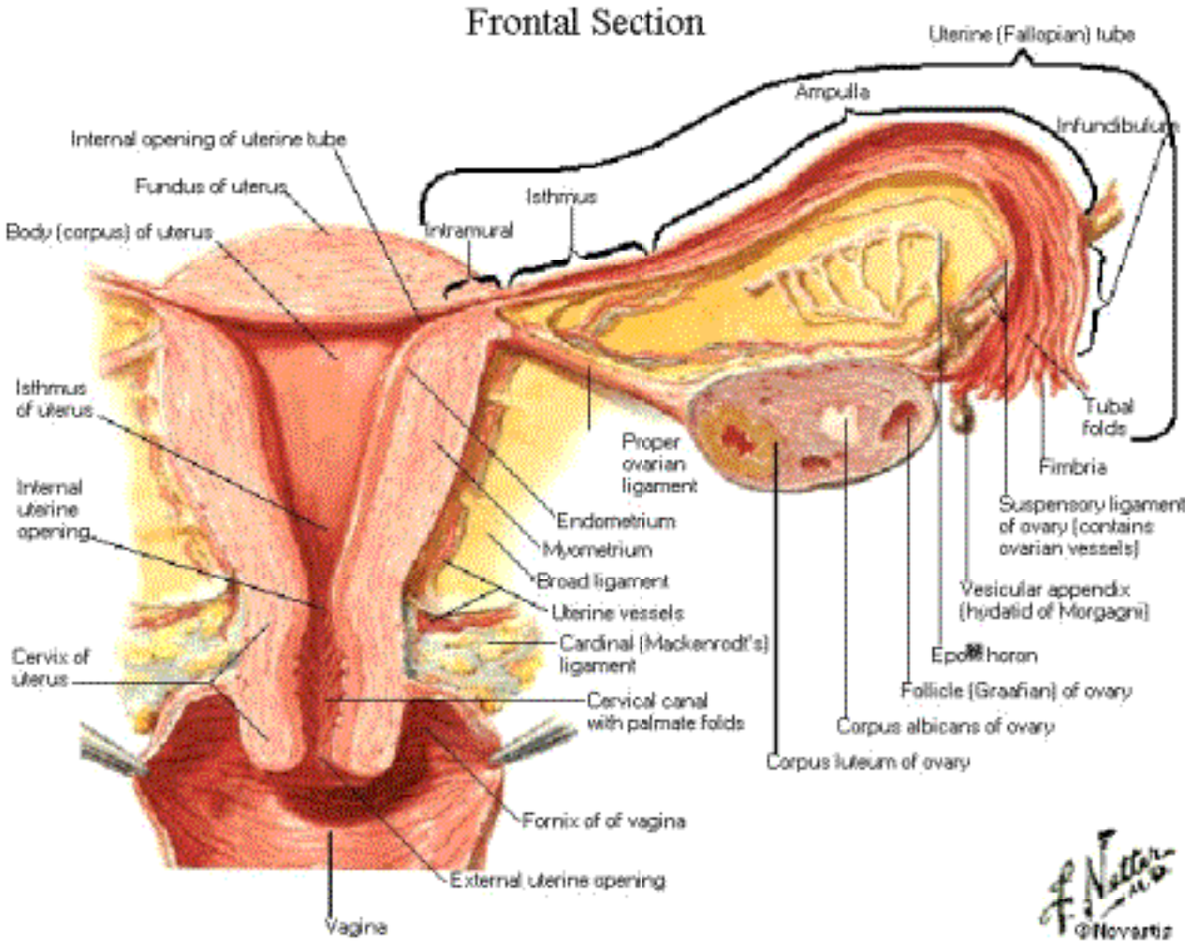
Uterus and Adnexa

Posterior View



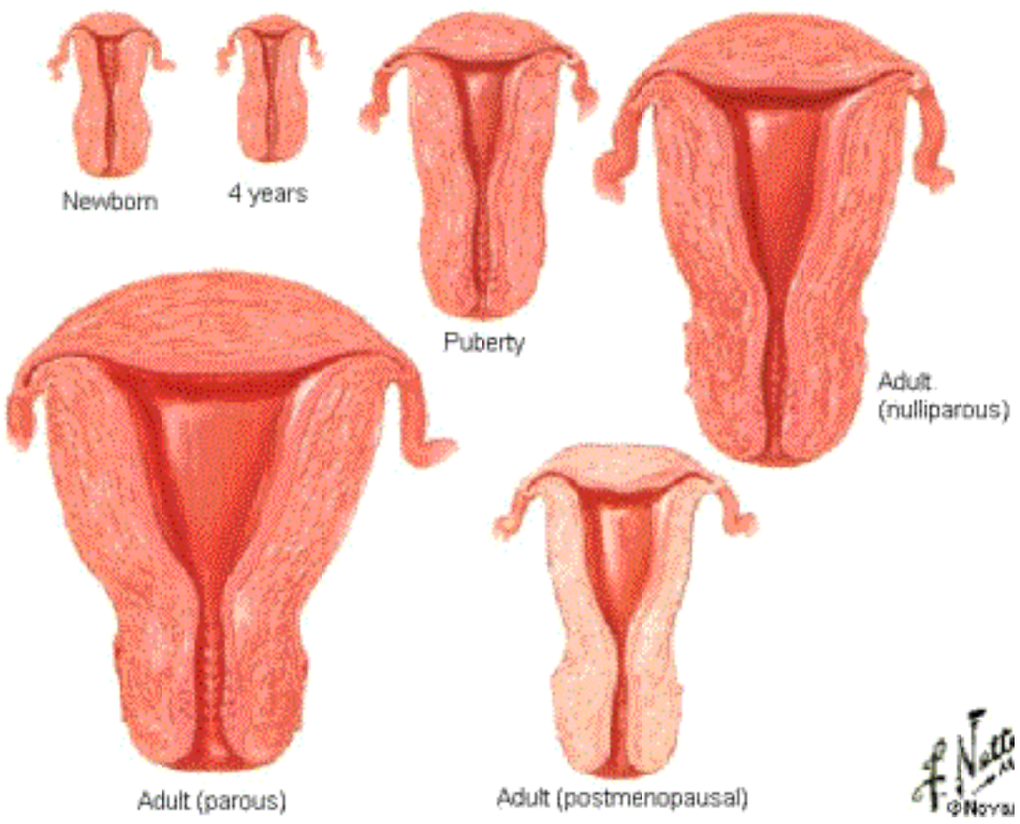
Uterus and Adnexa

Frontal Section



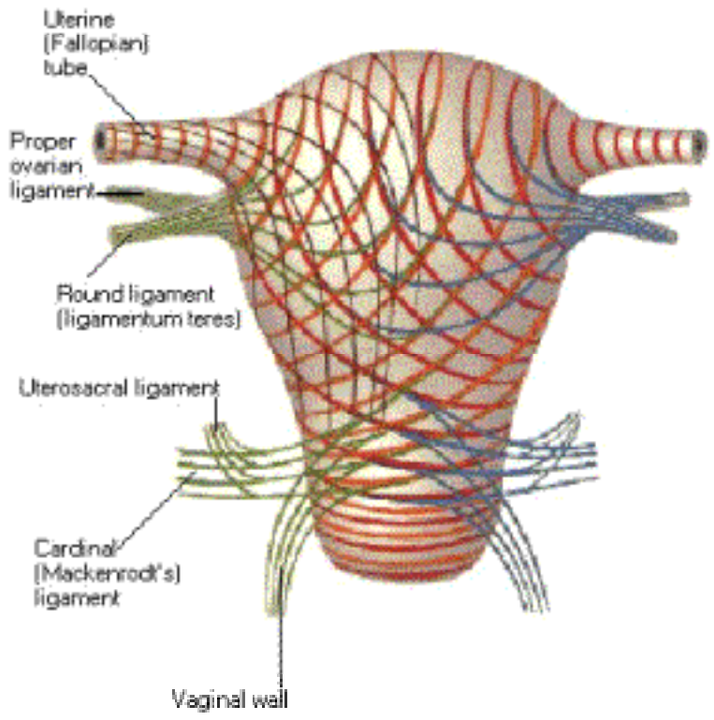
Uterus

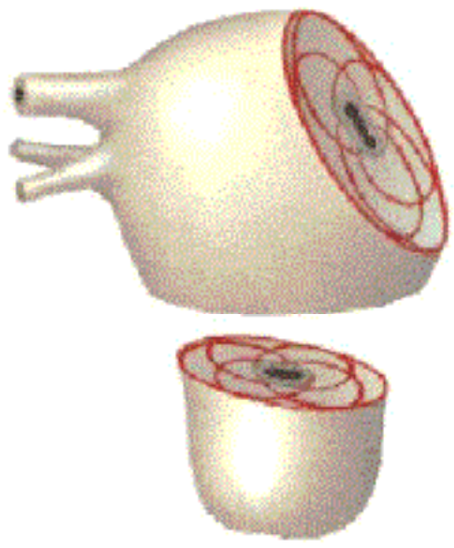
Changes with Age



Uterus

Schema of Musculature

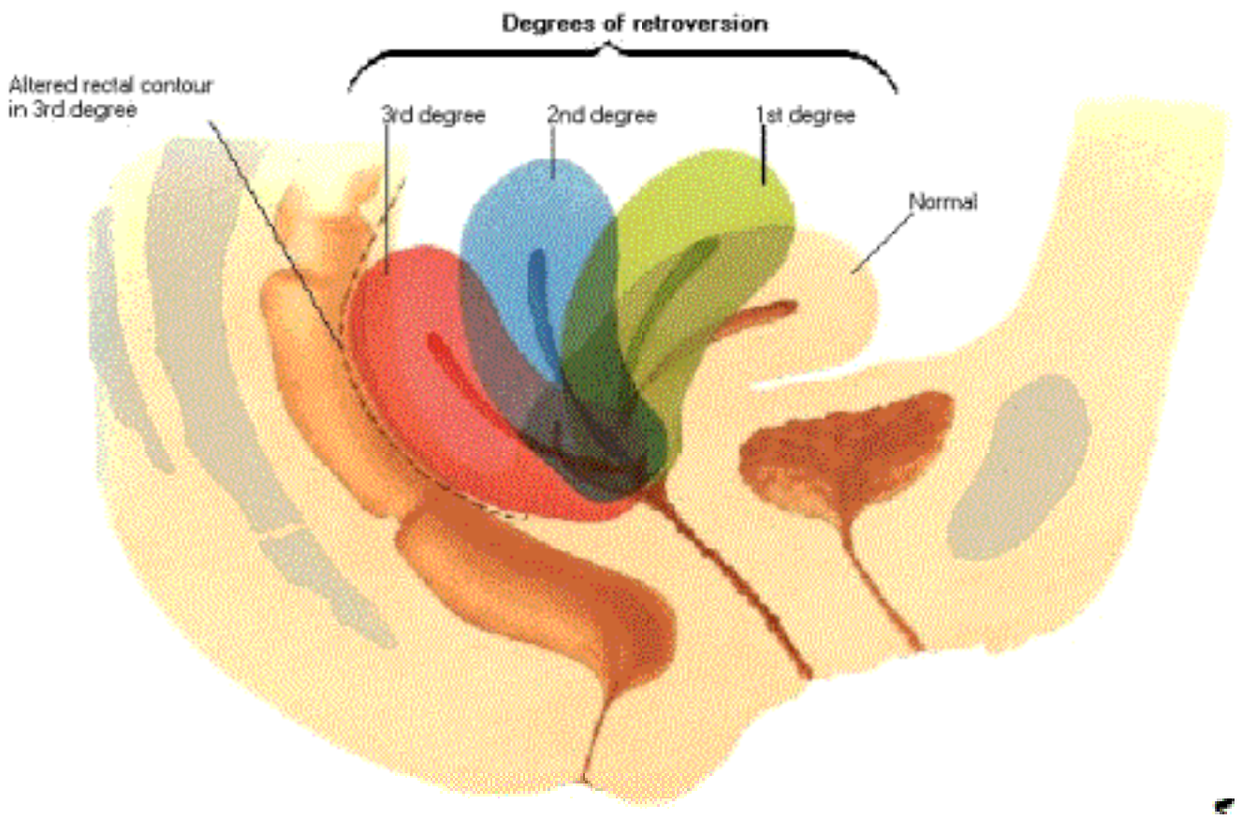




Spiral fibers pass deeply into wall and interlace (schema)

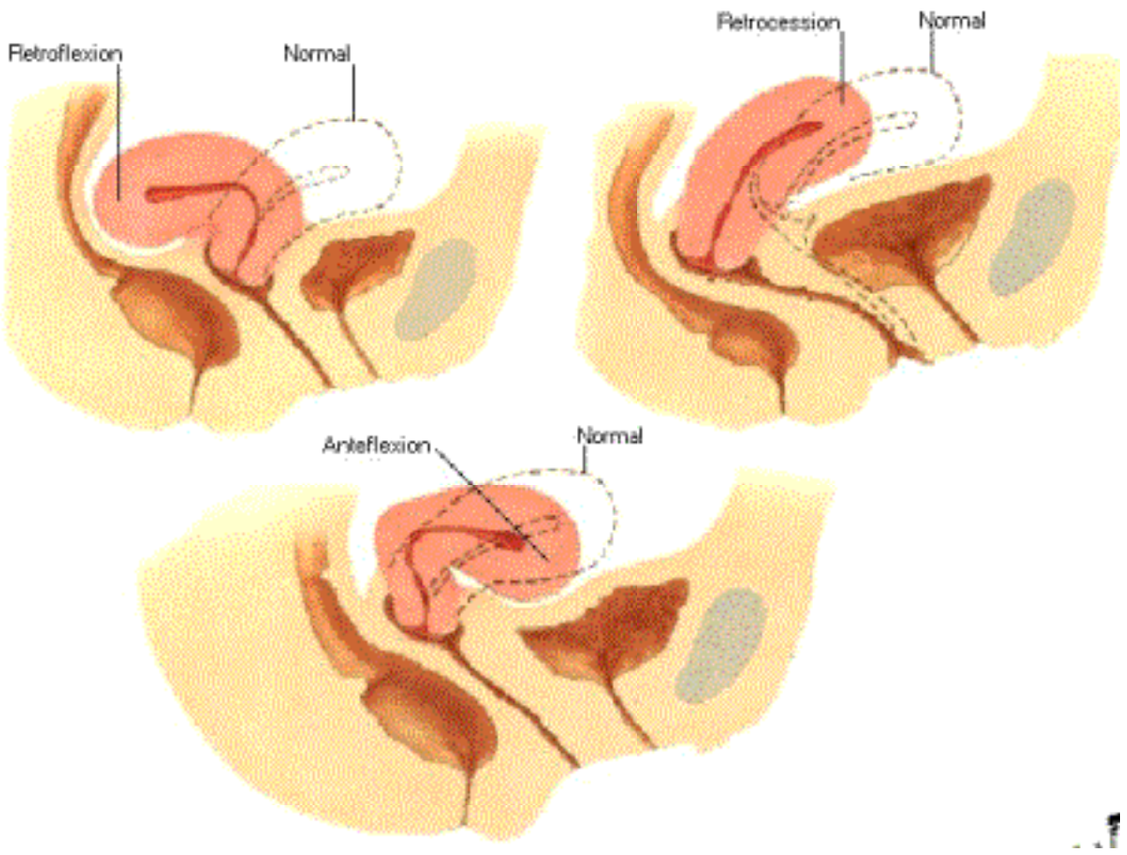
Uterus

Variations in Position



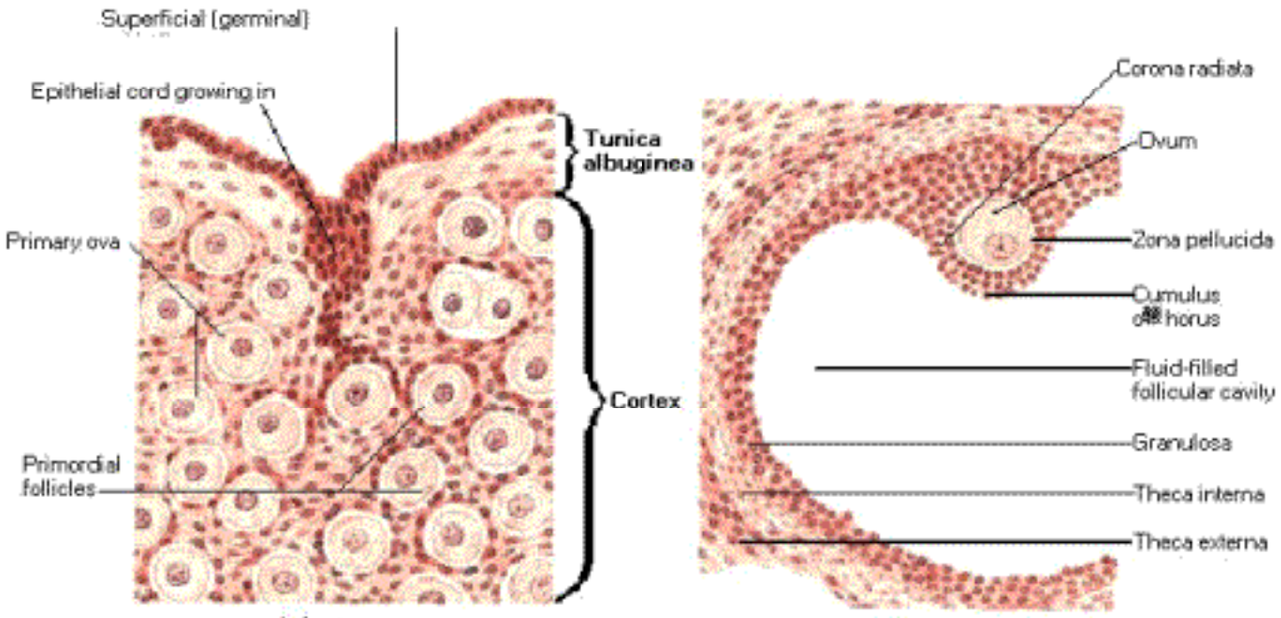
Uterus [Continued]

Variations in Position



Infant Ovary and Ripening Follicle

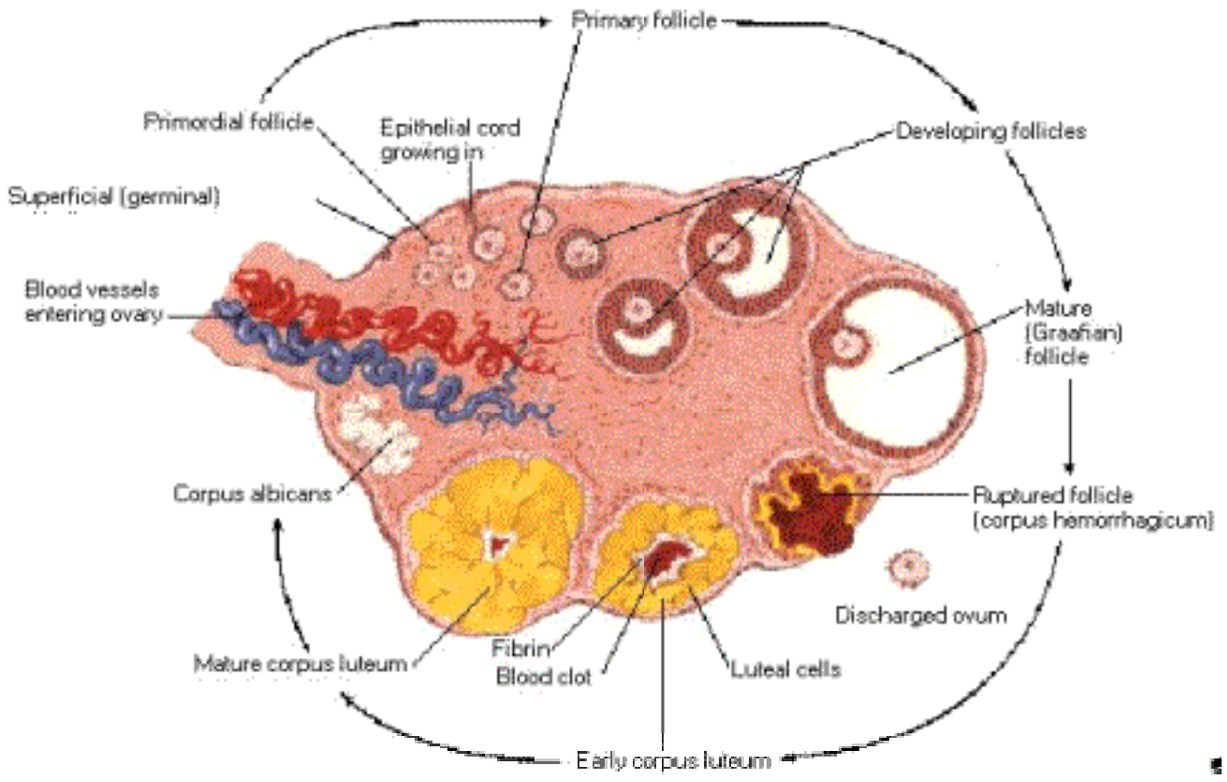
Histology



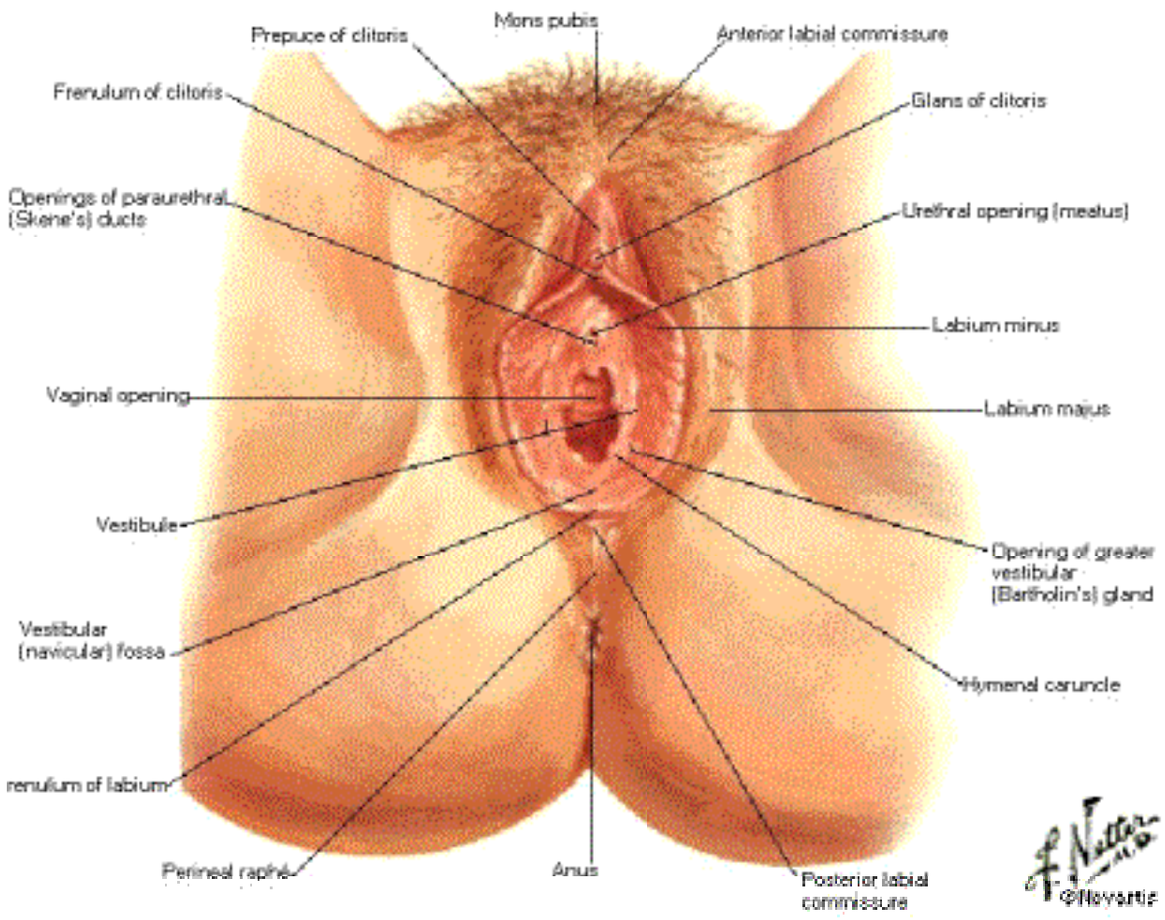
Infant ovary

Ripening follicle

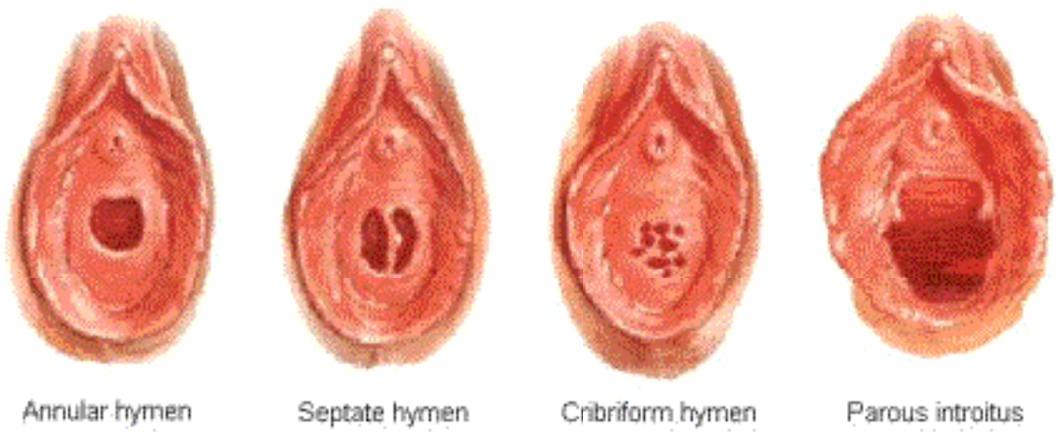
Stages of Ovum and Follicle



Perineum and External Genitalia of Female



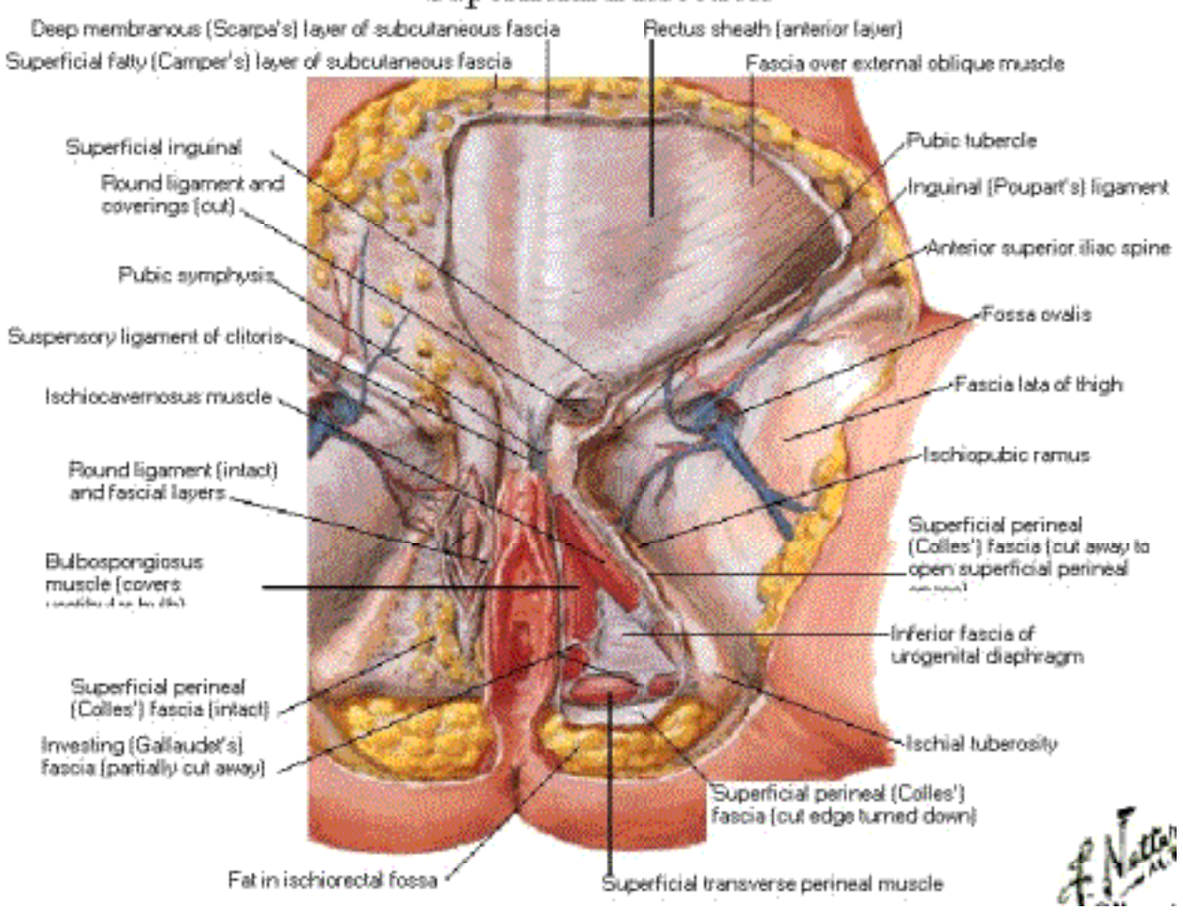
Perineum and External Genitalia of Female [Continued]



Annular hymen | Septate hymen | Cribriform hymen | Parous introitus

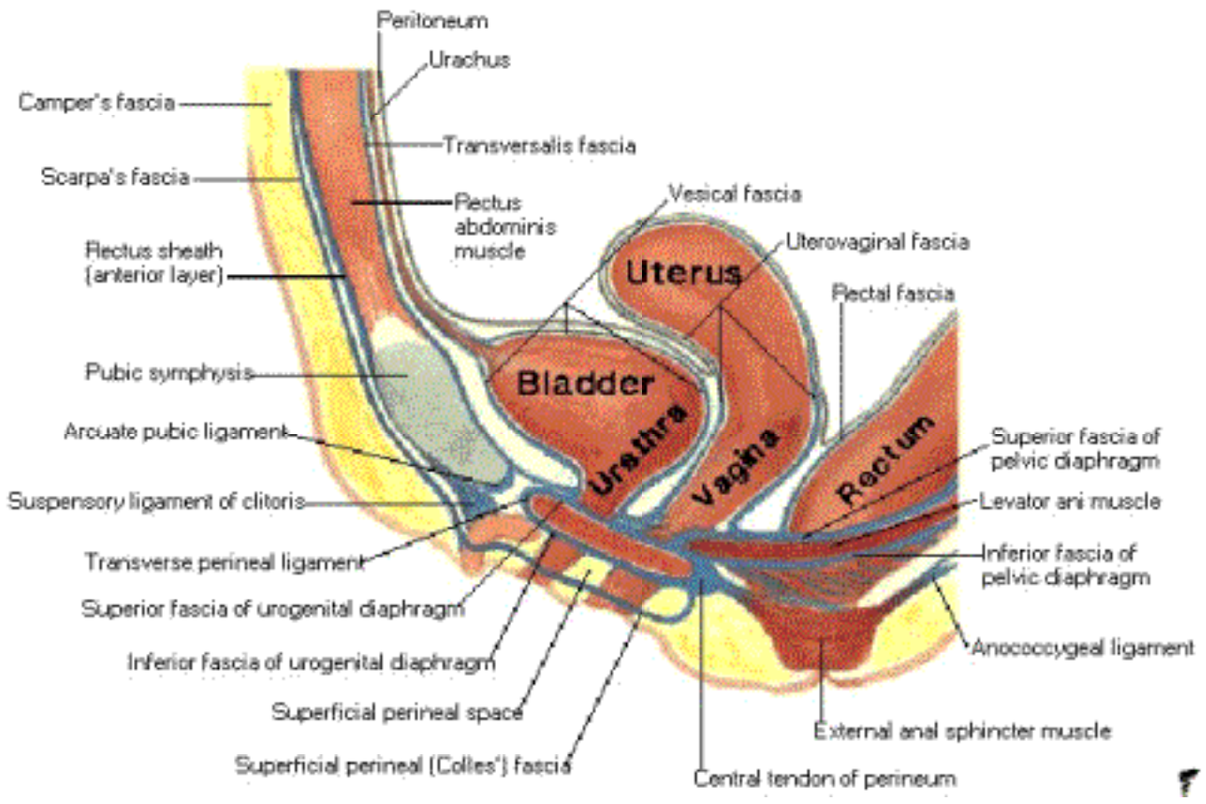
Perineum of Female

Superficial Dissection

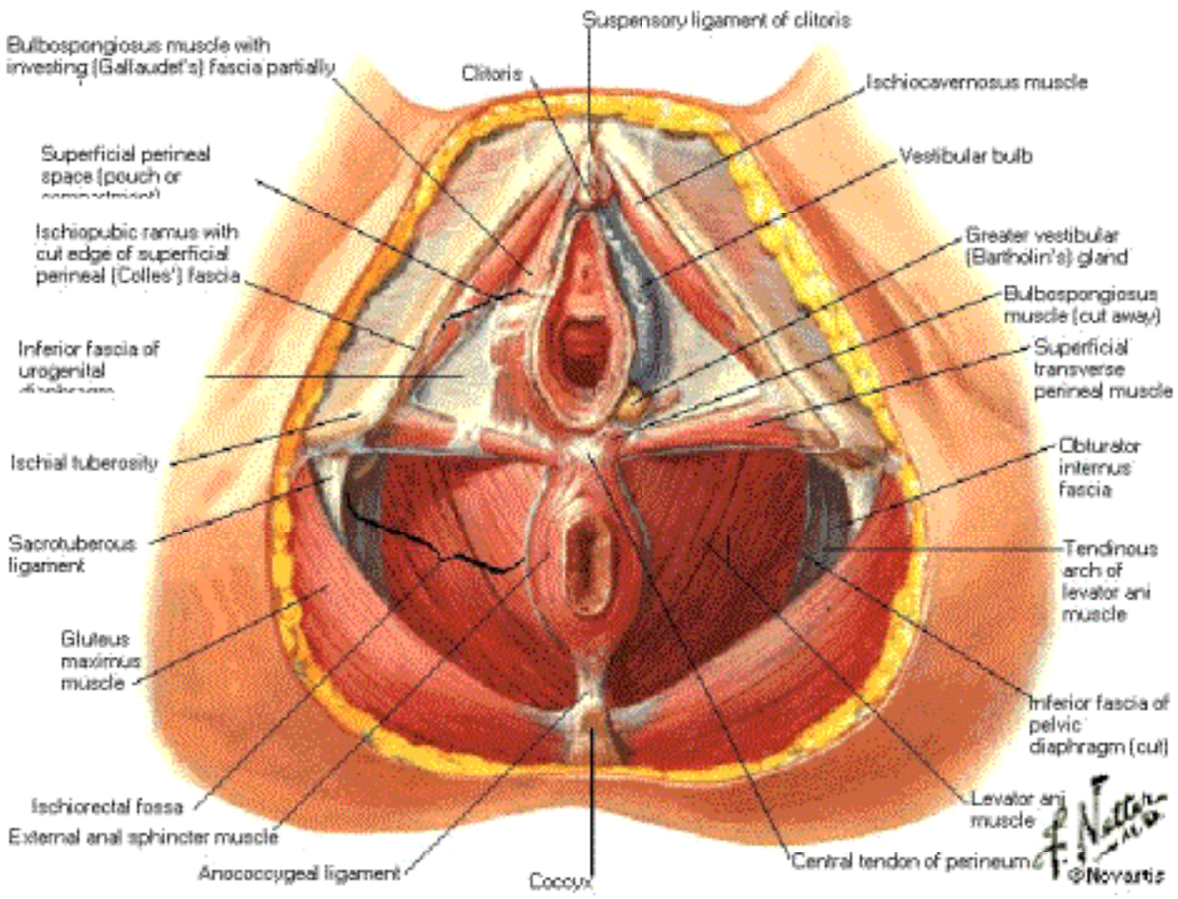


Perineum of Female

Midsagittal Section

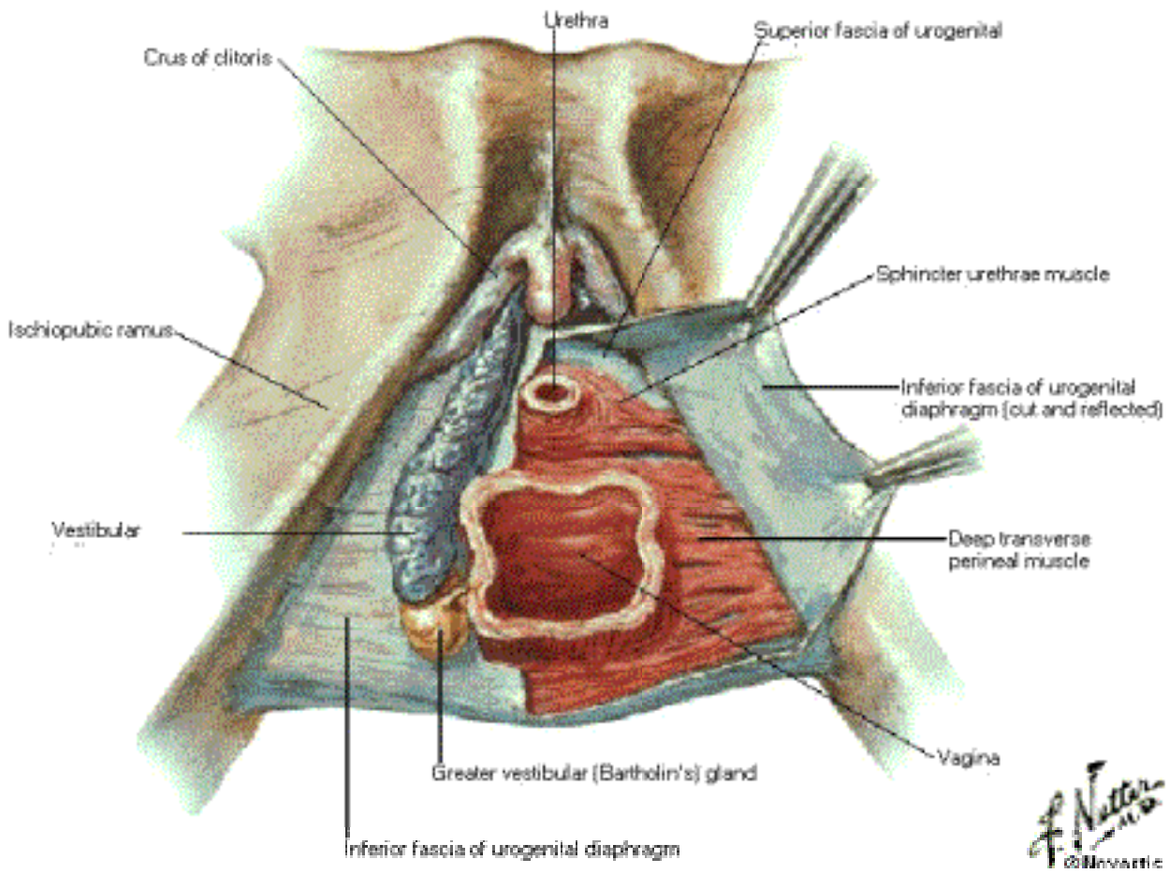


Perineum and Urogenital Diaphragm of Female



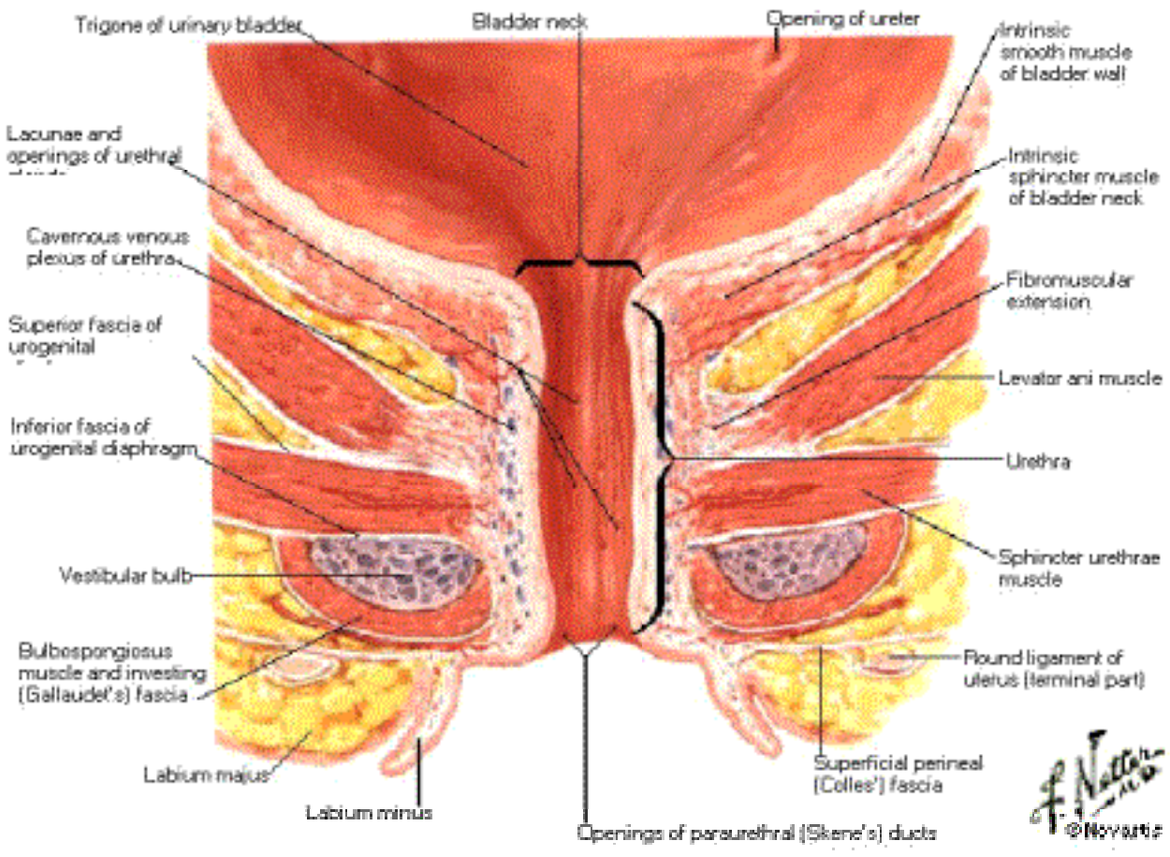
Perineum and Urogenital Diaphragm of Female

Deep Dissection



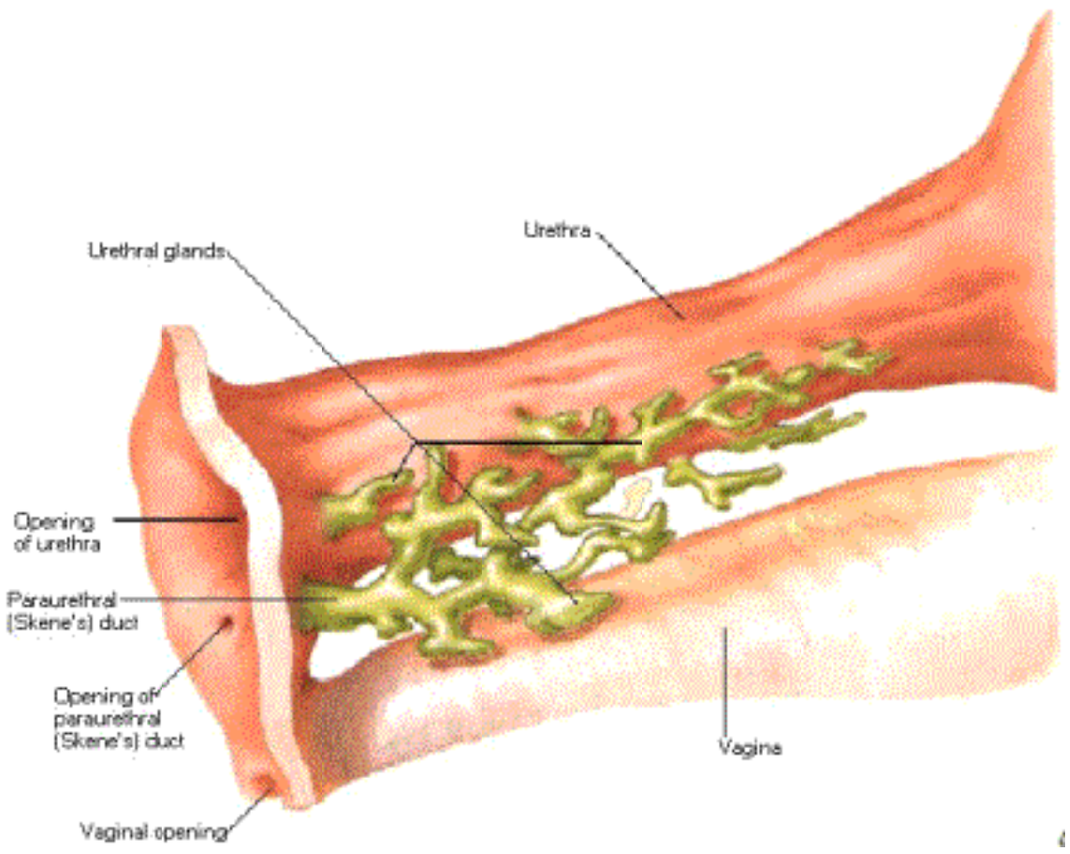
Urethra of Female

Frontal Section



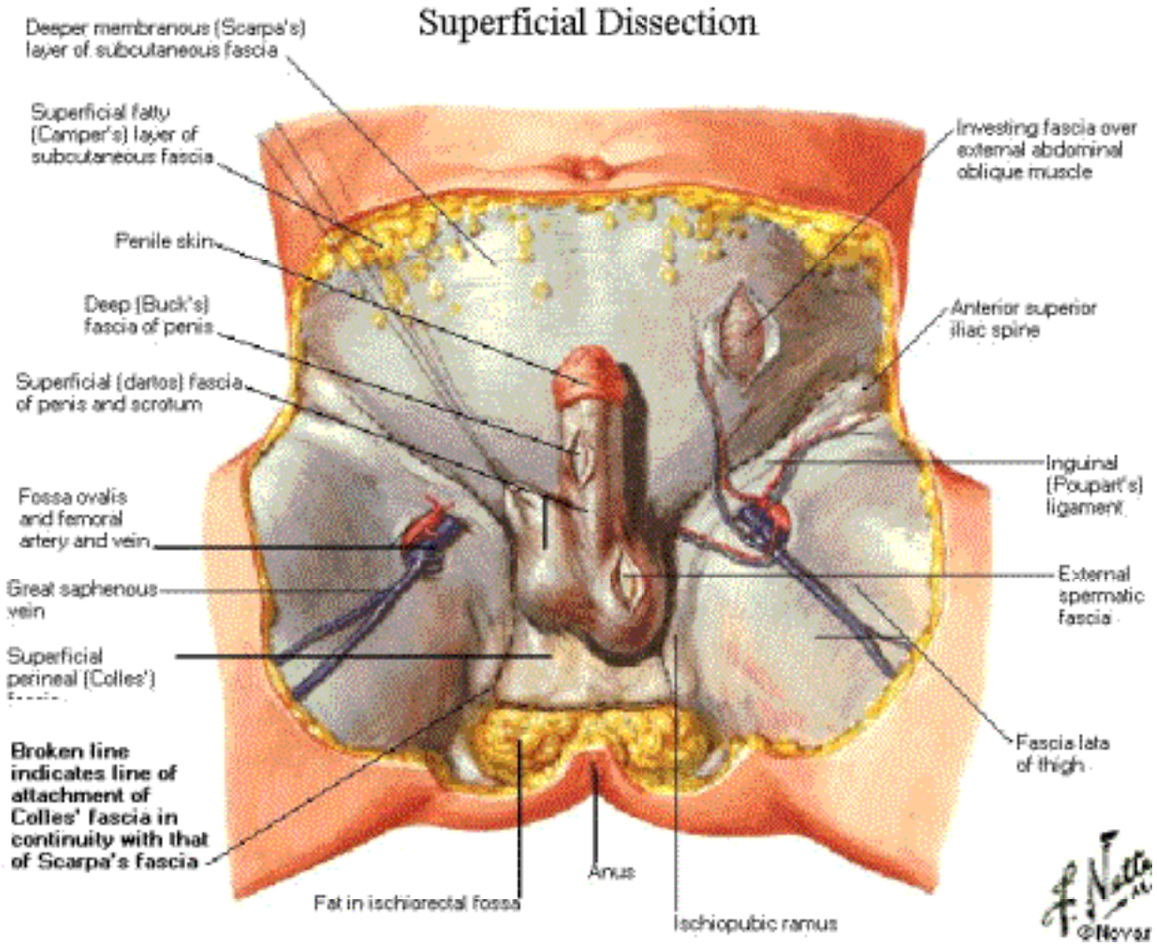
Urethra of Female

Schematic Reconstruction



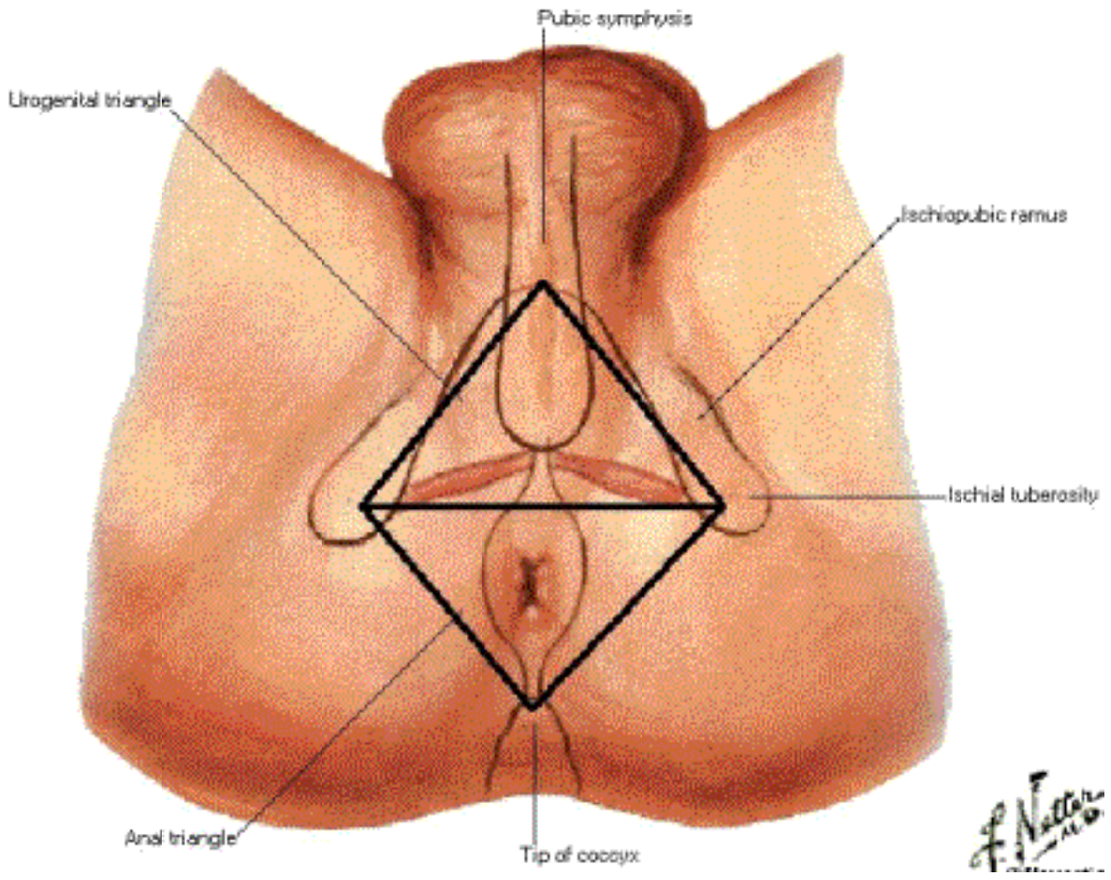
Perineum and External Genitalia of Male

Superficial Dissection



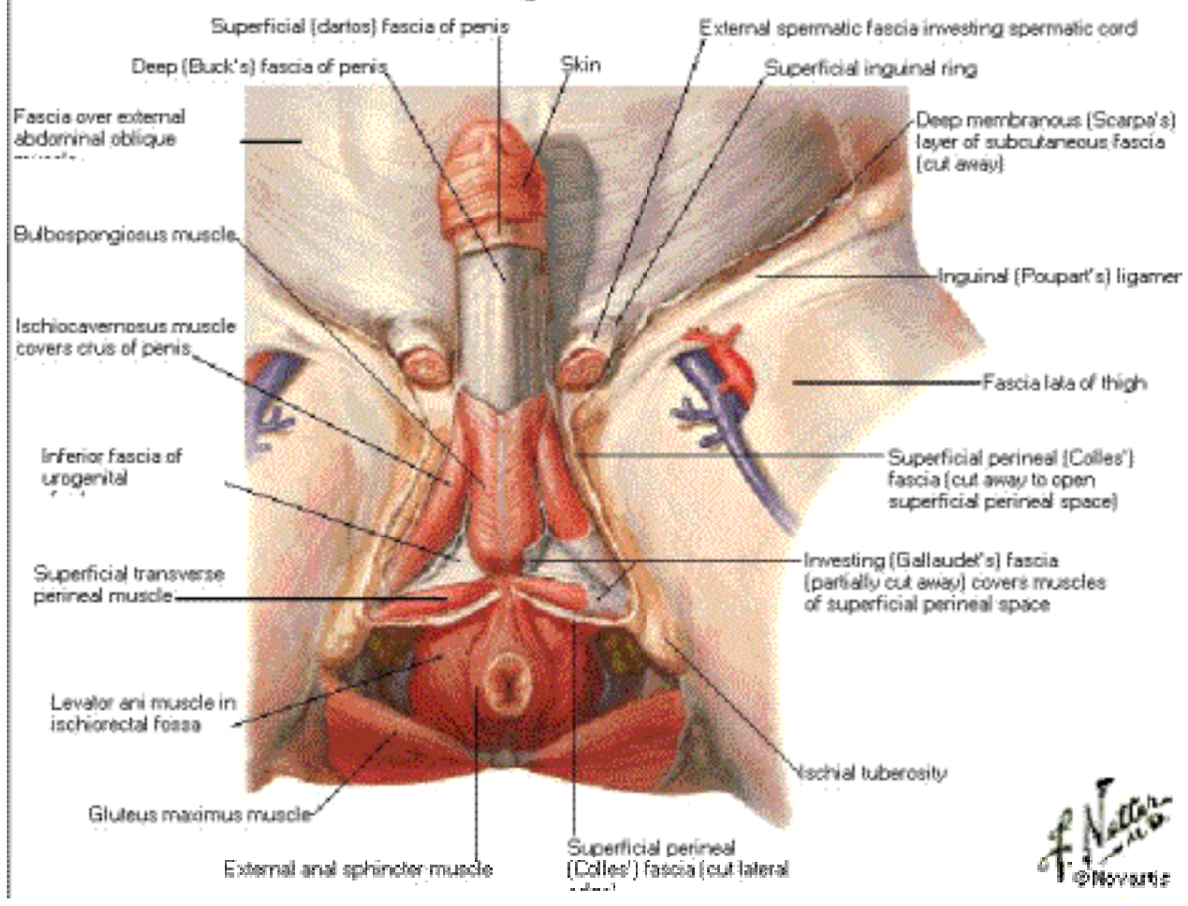
Perineum of Male

Regions [Triangles] and Surface Topography

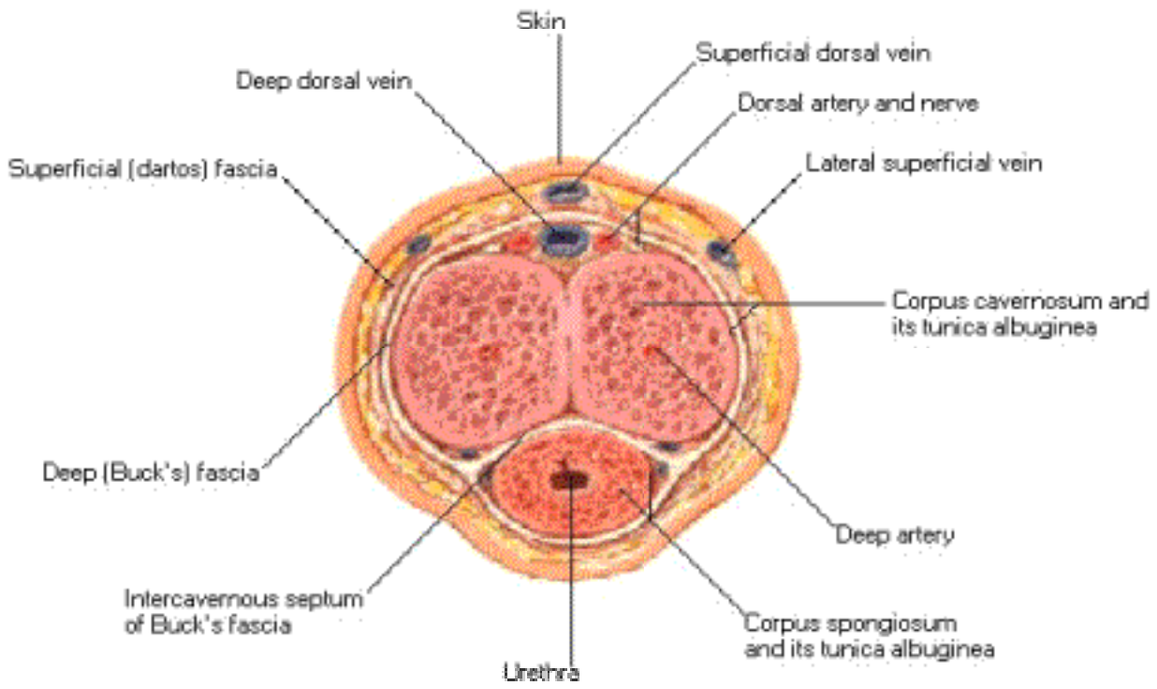


Perineum and External Genitalia of Male

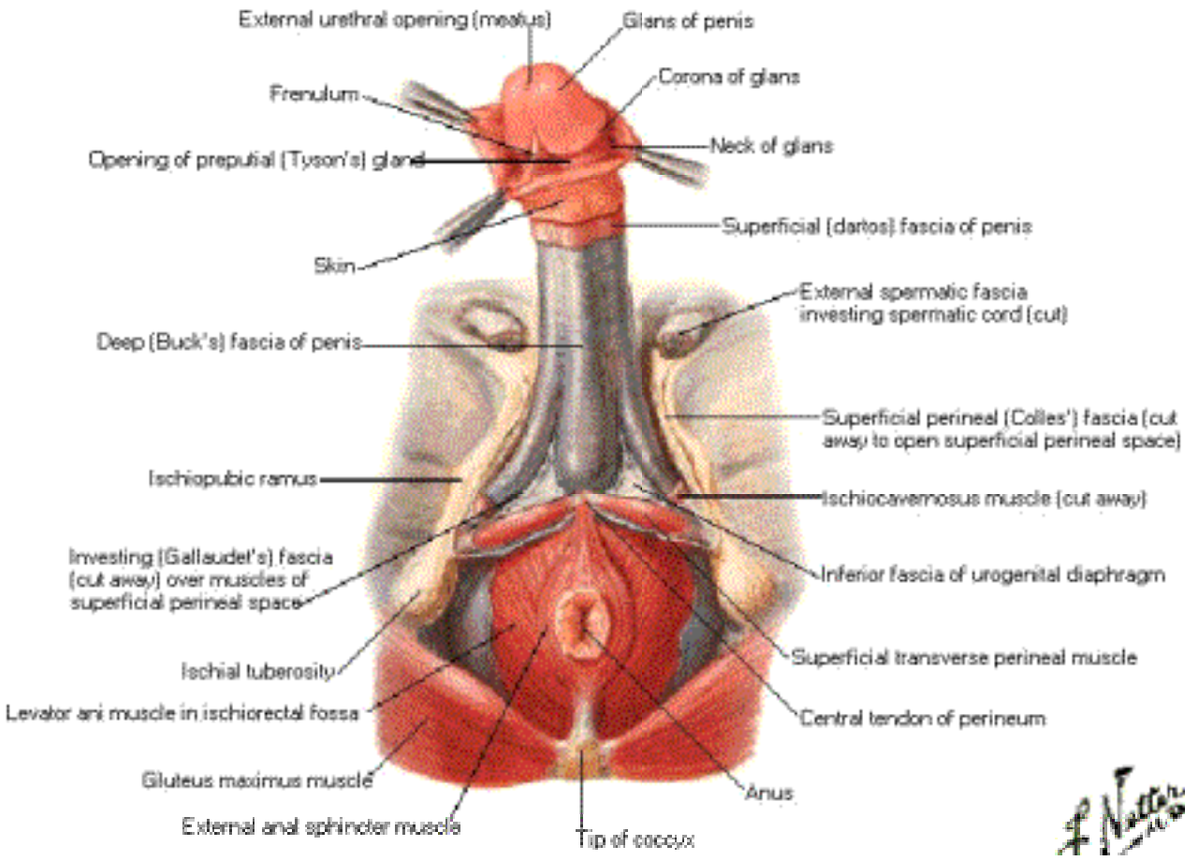
Deep Dissection



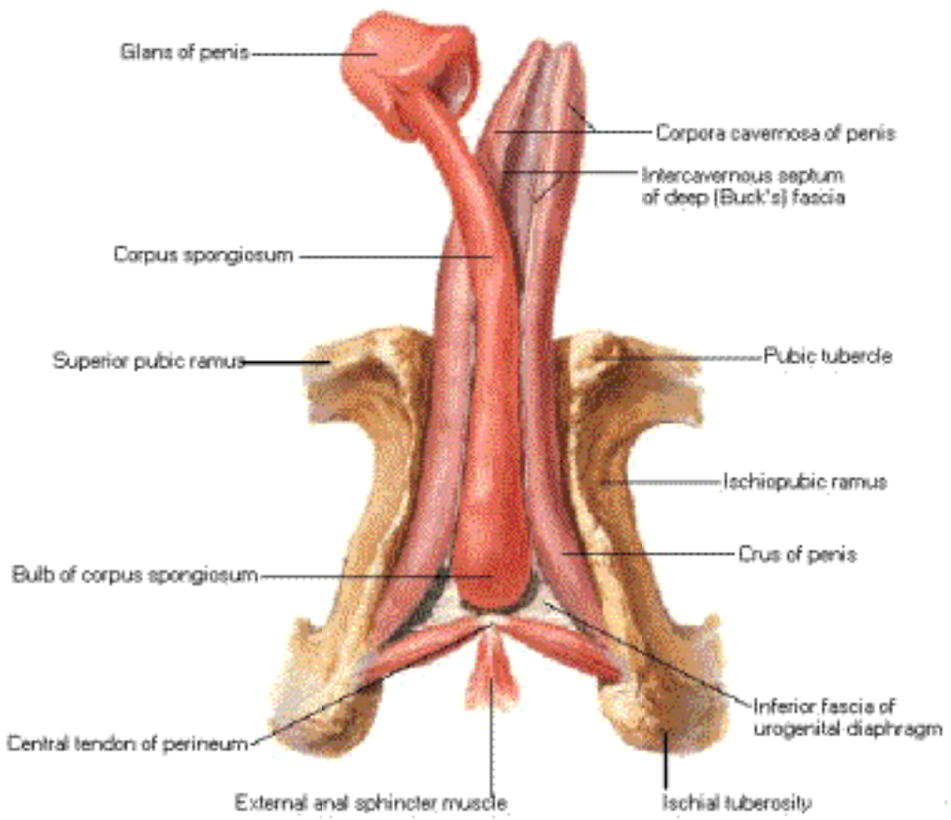
Section through Body of Penis



Penis

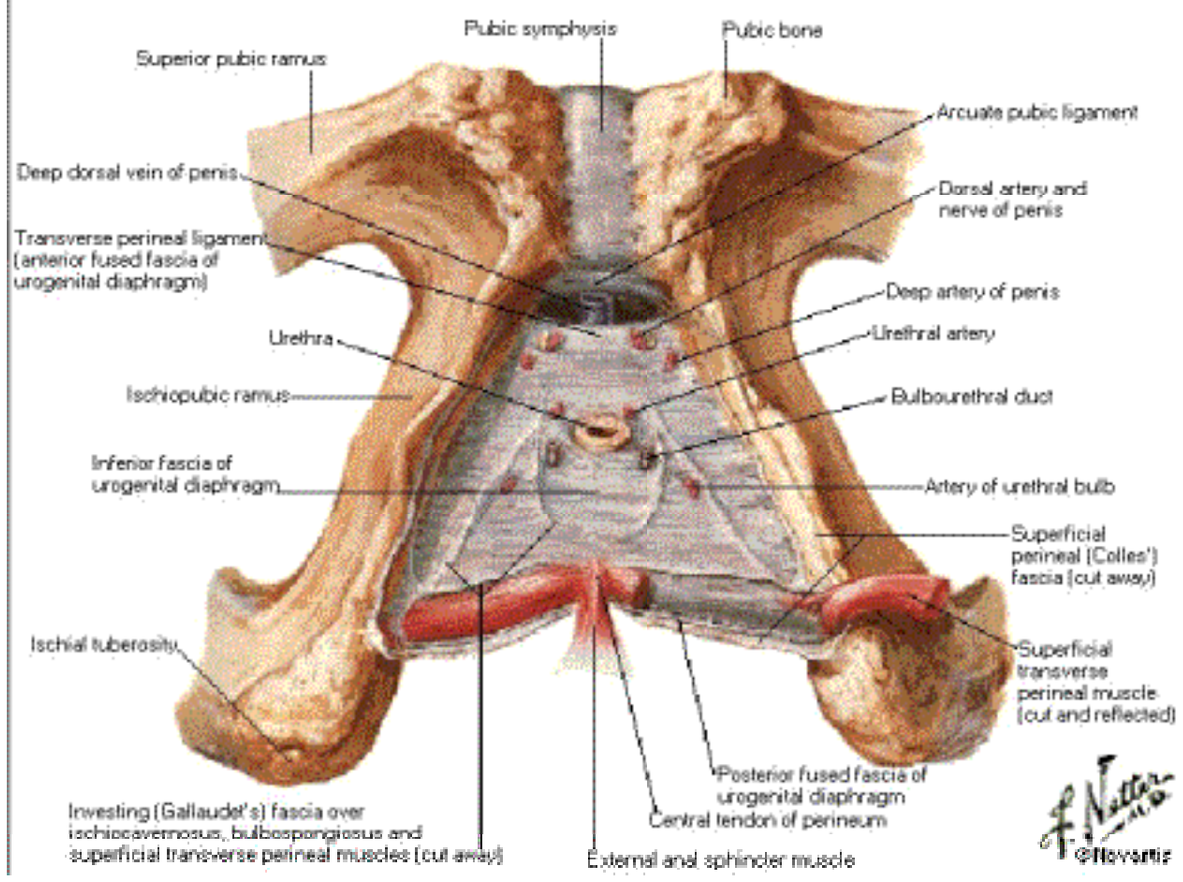

External urethral opening (meatus)
Glans of penis
Frenulum
Corona of glans
Opening of prepulial (Tyson's) gland
Neck of glans
Superficial (dartos) fascia of penis
Skin
External spermatic fascia investing spermatic cord (cut)
Deep (Buck's) fascia of penis
Superficial perineal (Colles') fascia (cut away to open superficial perineal space)
Ischiopubic ramus
Ischiocavernosus muscle (cut away)
Investing (Gallaudet's) fascia (cut away) over muscles of superficial perineal space
Inferior fascia of urogenital diaphragm
Superficial transverse perineal muscle
Ischial tuberosity
Central tendon of perineum
Levator ani muscle in ischiorectal fossa
Anus
Gluteus maximus muscle
External anal sphincter muscle
Tip of coccyx

Penis [Continued]



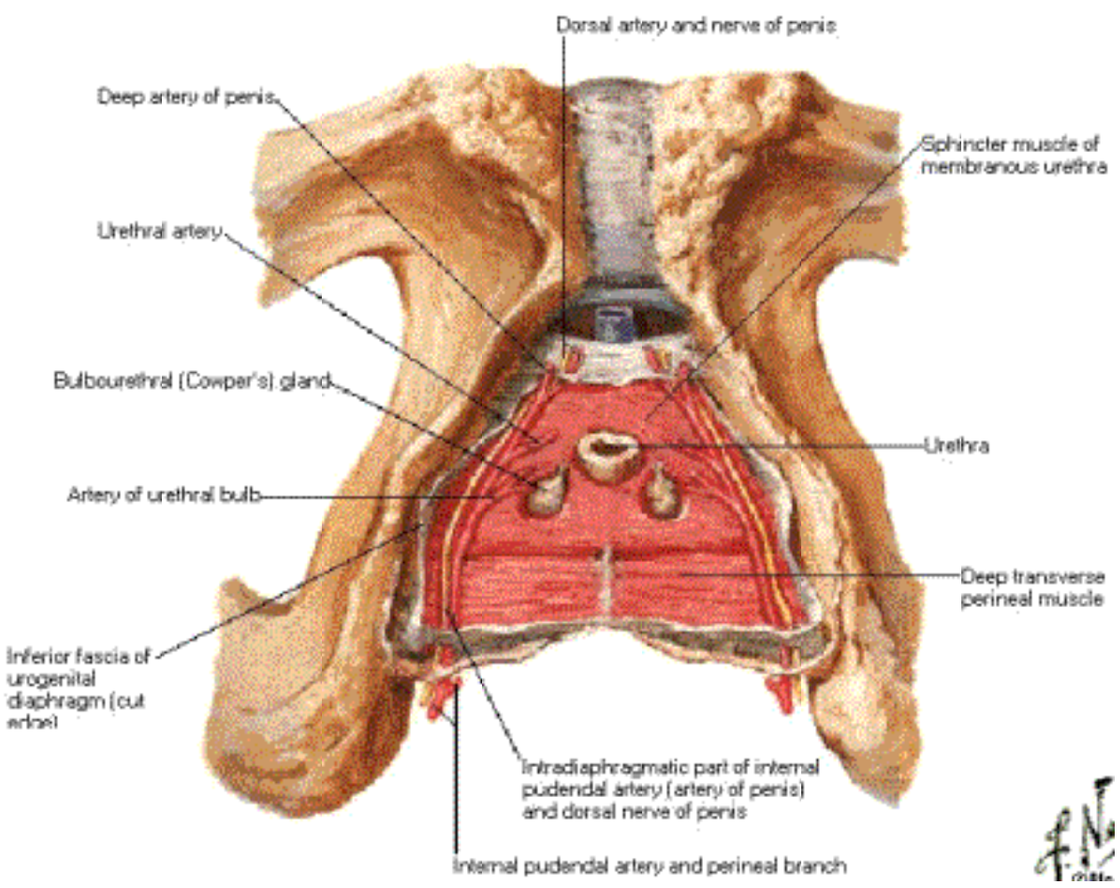
Urogenital Diaphragm of Male

Dissection



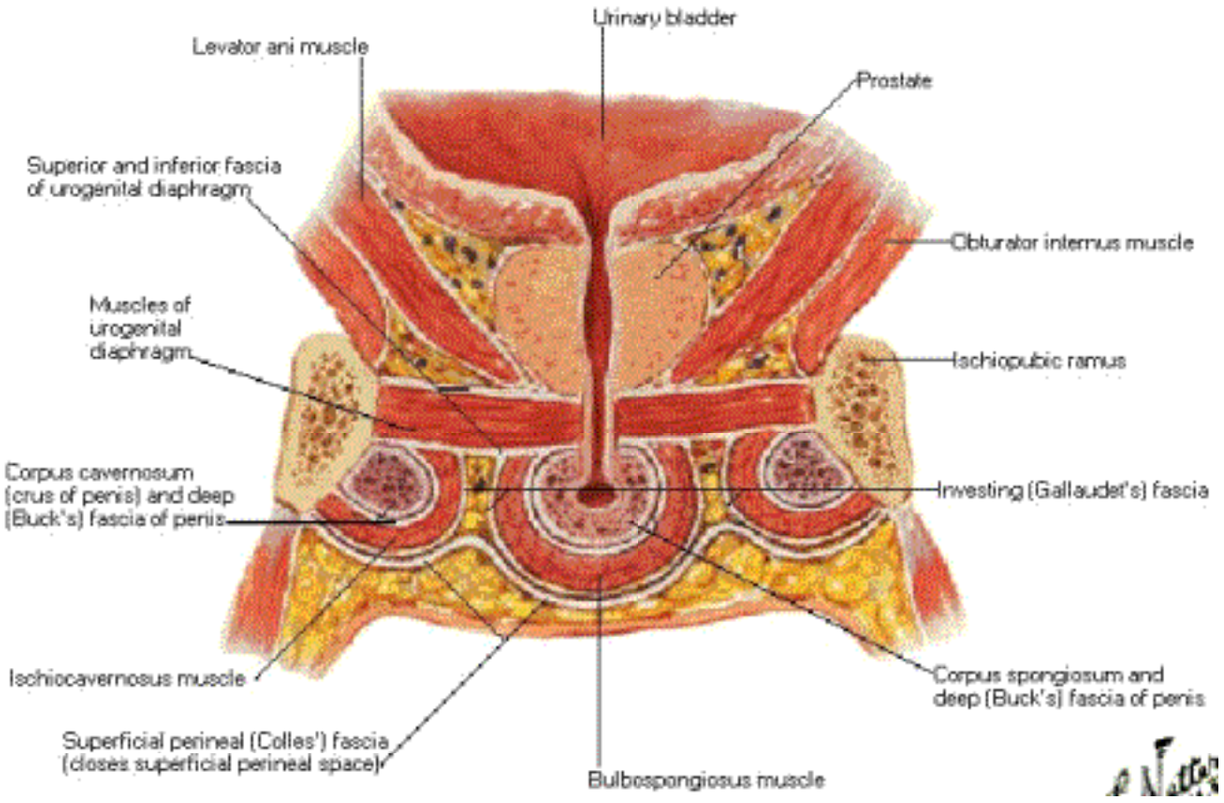
Urogenital Diaphragm of Male

Deep Dissection



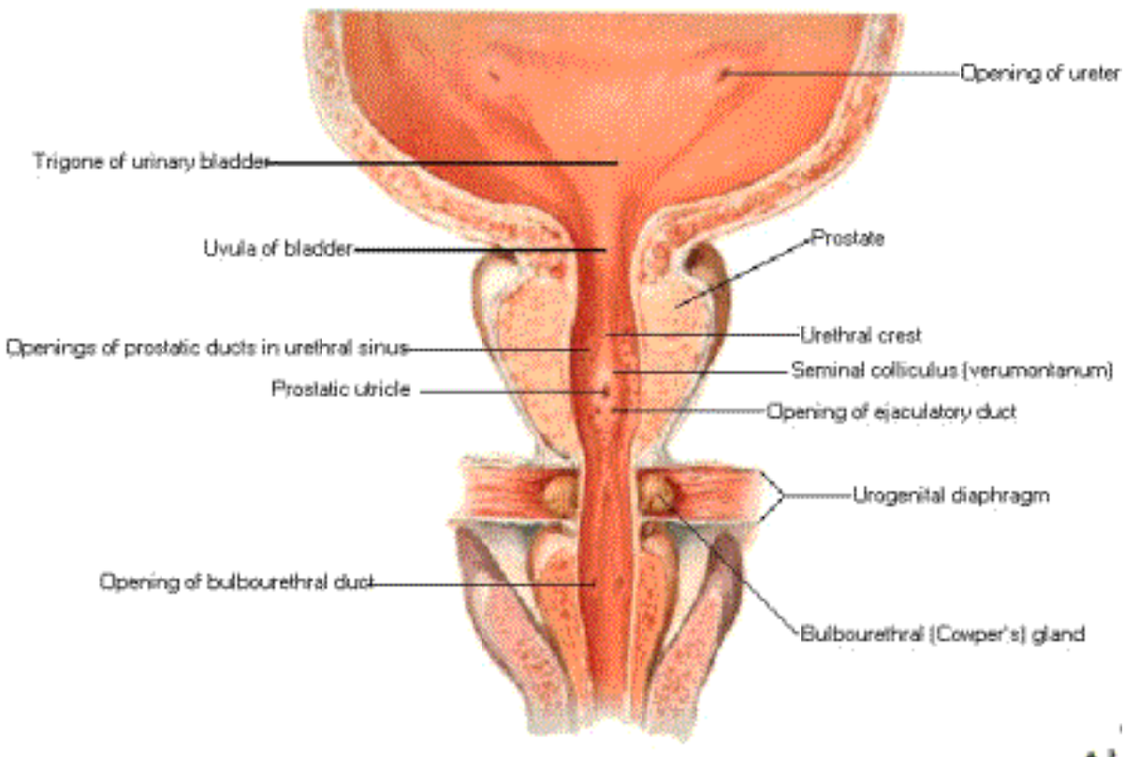
Urogenital Diaphragm of Male

Frontal Section - Schema

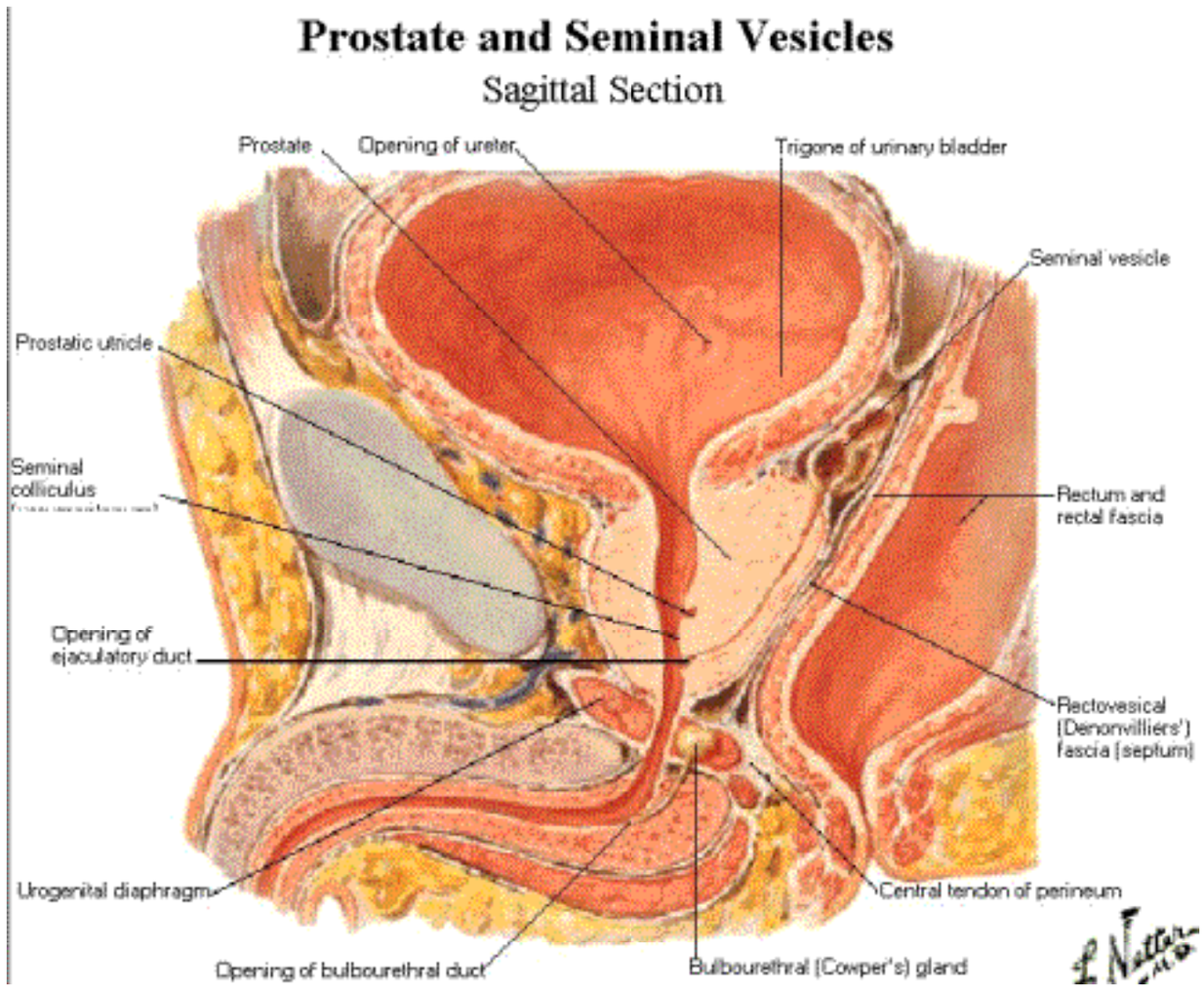


Prostate and Seminal Vesicles

Frontal Section

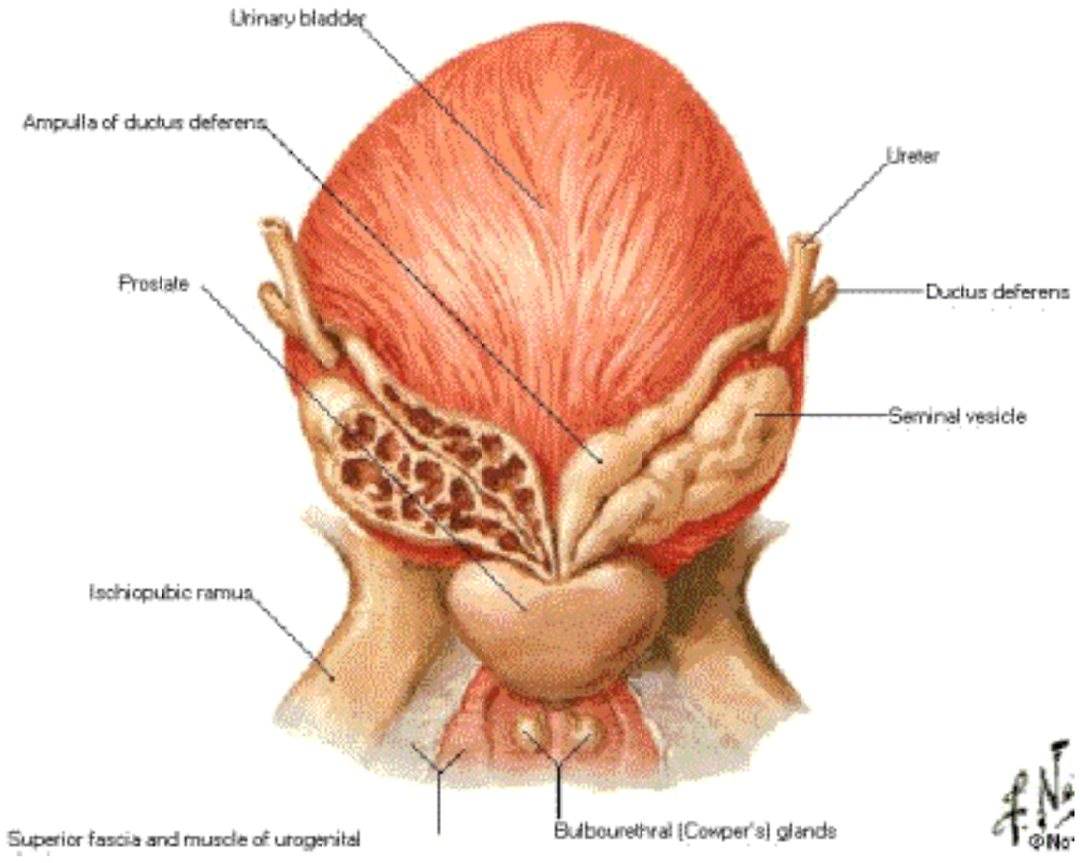


Urethral bulb schematically extended


Prostate and Seminal Vesicles
Sagittal Section
Prostate
Opening of ureter
Trigone of urinary bladder
Seminal vesicle
Prostatic utricle
Seminal colliculus
Rectum and rectal fascia
Opening of ejaculatory duct
Rectovesical (Denonvilliers') fascia (septum)
Urogenital diaphragm
Central tendon of perineum
Opening of bulbourethral duct
Bulbourethral (Cowper's) gland
F. Netter M.D.

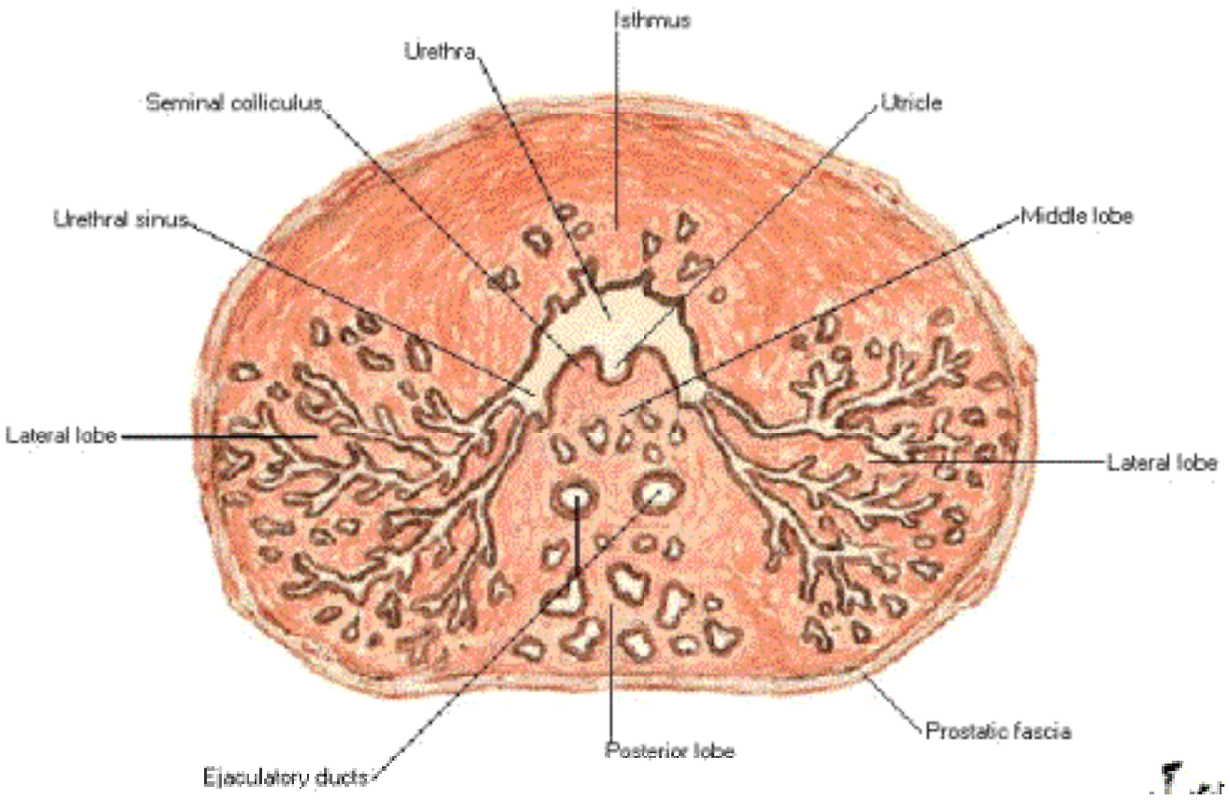
Prostate and Seminal Vesicles

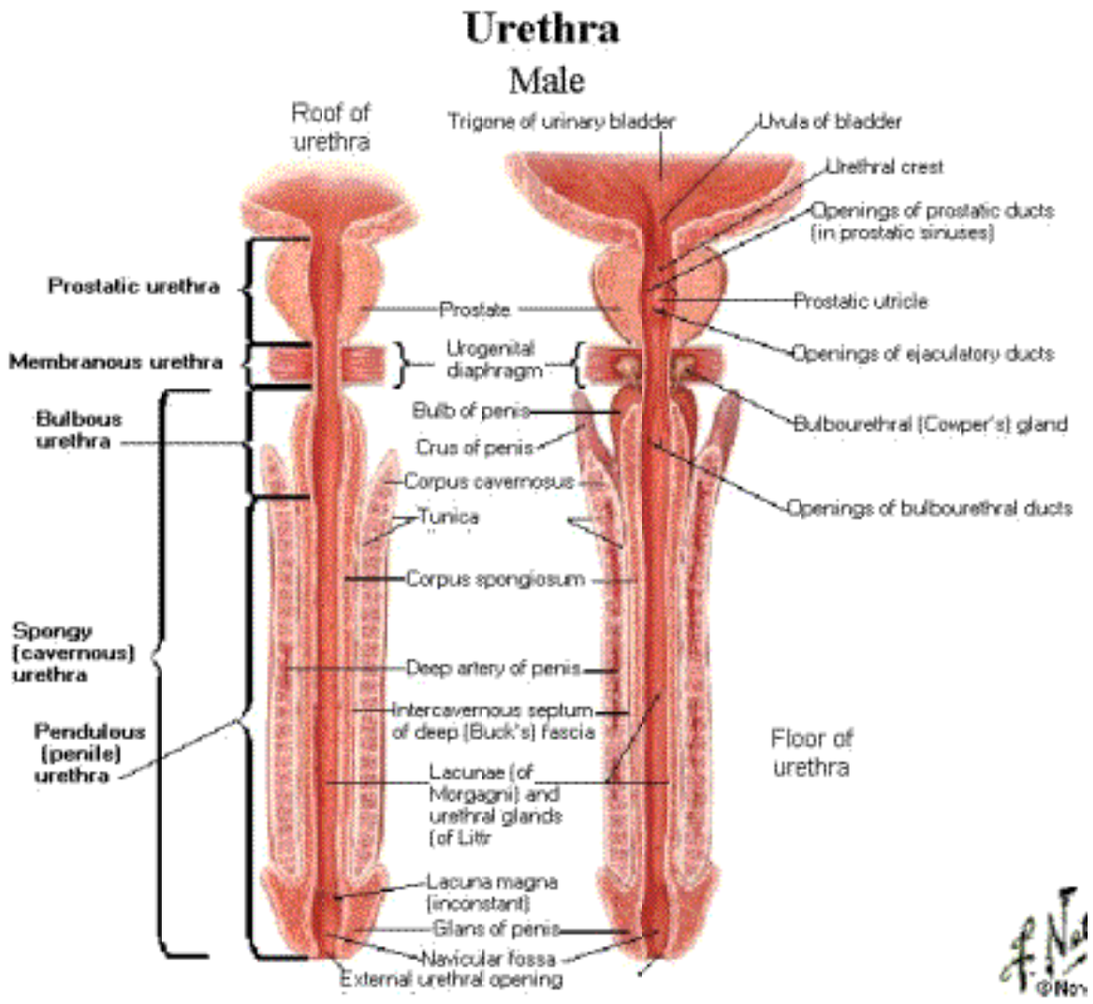
Posterior View



Prostate and Seminal Vesicles

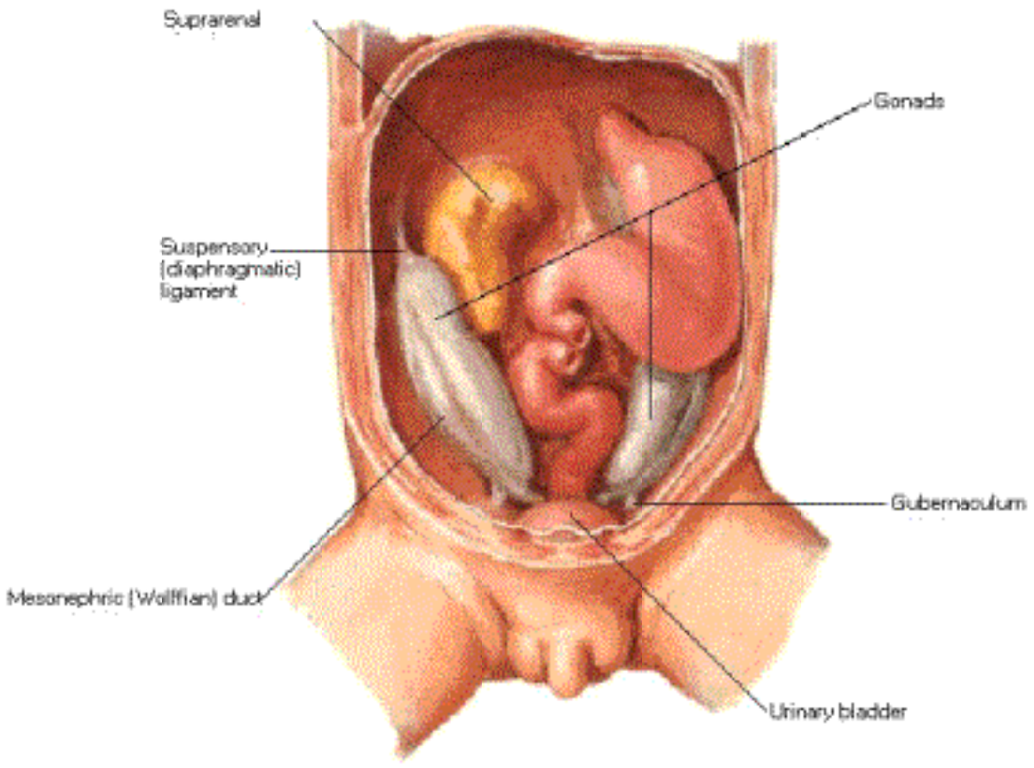
Cross Section through Prostate




Urethra
Male
Roof of urethra
Trigone of urinary bladder
Uvula of bladder
Urethral crest
Openings of prostatic ducts (in prostatic sinuses)
Prostatic urethra
Prostate
Prostatic utricle
Membranous urethra
Urogenital diaphragm
Openings of ejaculatory ducts
Bulbous urethra
Bulb of penis
Bulbourethral (Cowper's) gland
Crus of penis
Corpus cavernosus
Openings of bulbourethral ducts
Tunica
Corpus spongiosum
Spongy (cavernous) urethra
Deep artery of penis
Intercavernous septum of deep (Buck's) fascia
Penduleous (penile) urethra
Floor of urethra
Lacunae (of Morgagni) and urethral glands (of Littr
Lacuna magna (inconstant)
Glans of penis
Navicular fossa
External urethral opening

Descent of Testis

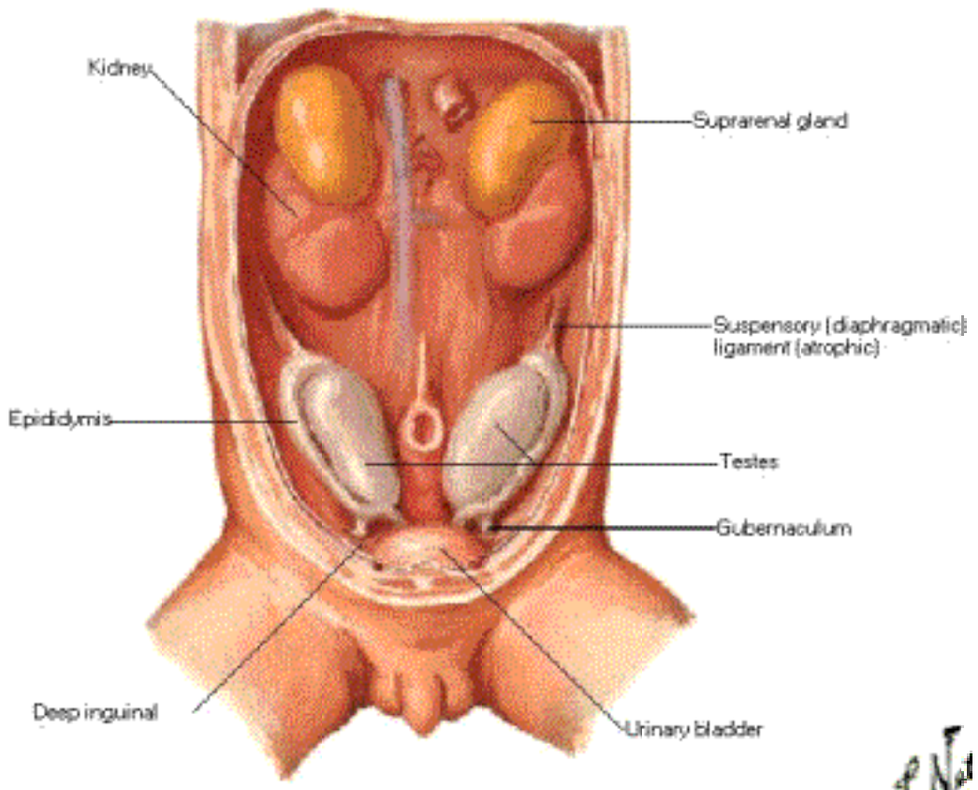
8 Weeks



22.5-mm crown rump

Descent of Testis

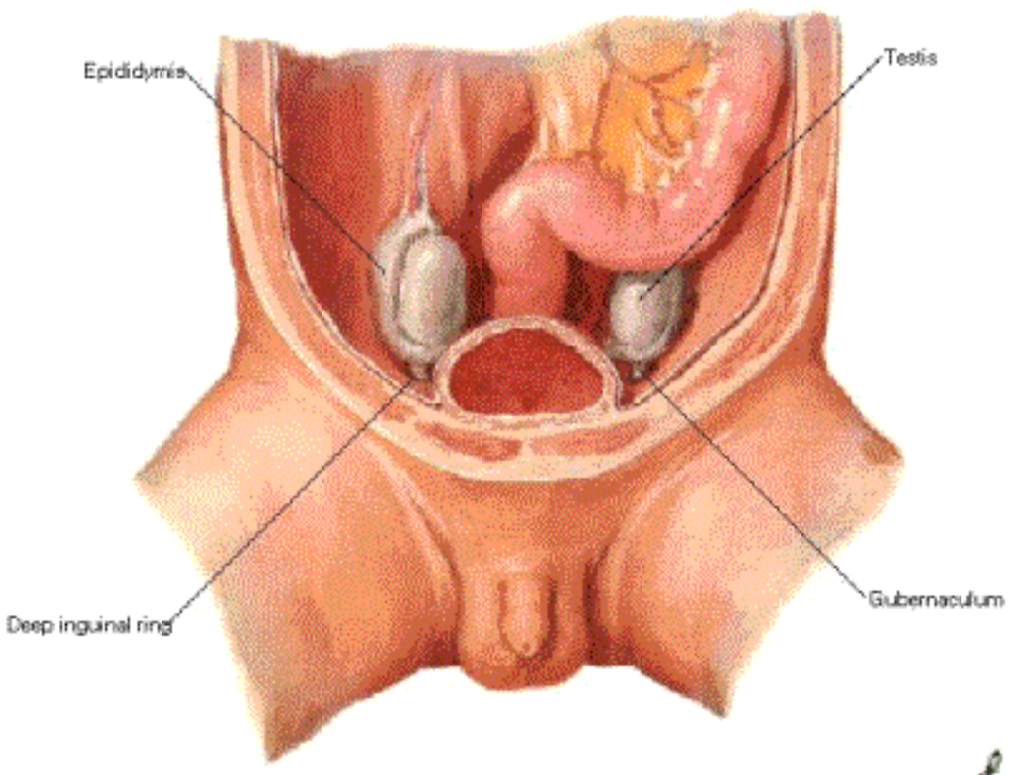
11 Weeks



43-mm crown rump

Descent of Testis

4 Lunar Months

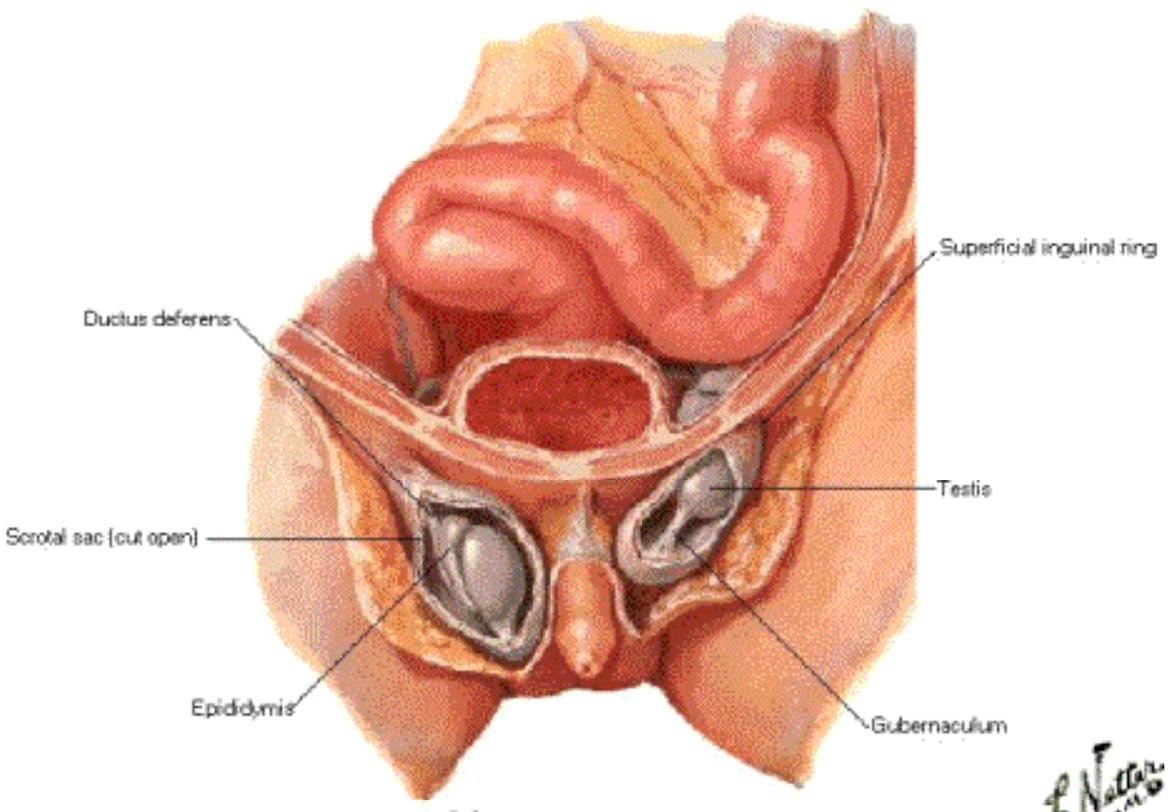


107-mm crown rump

Fig

Descent of Testis

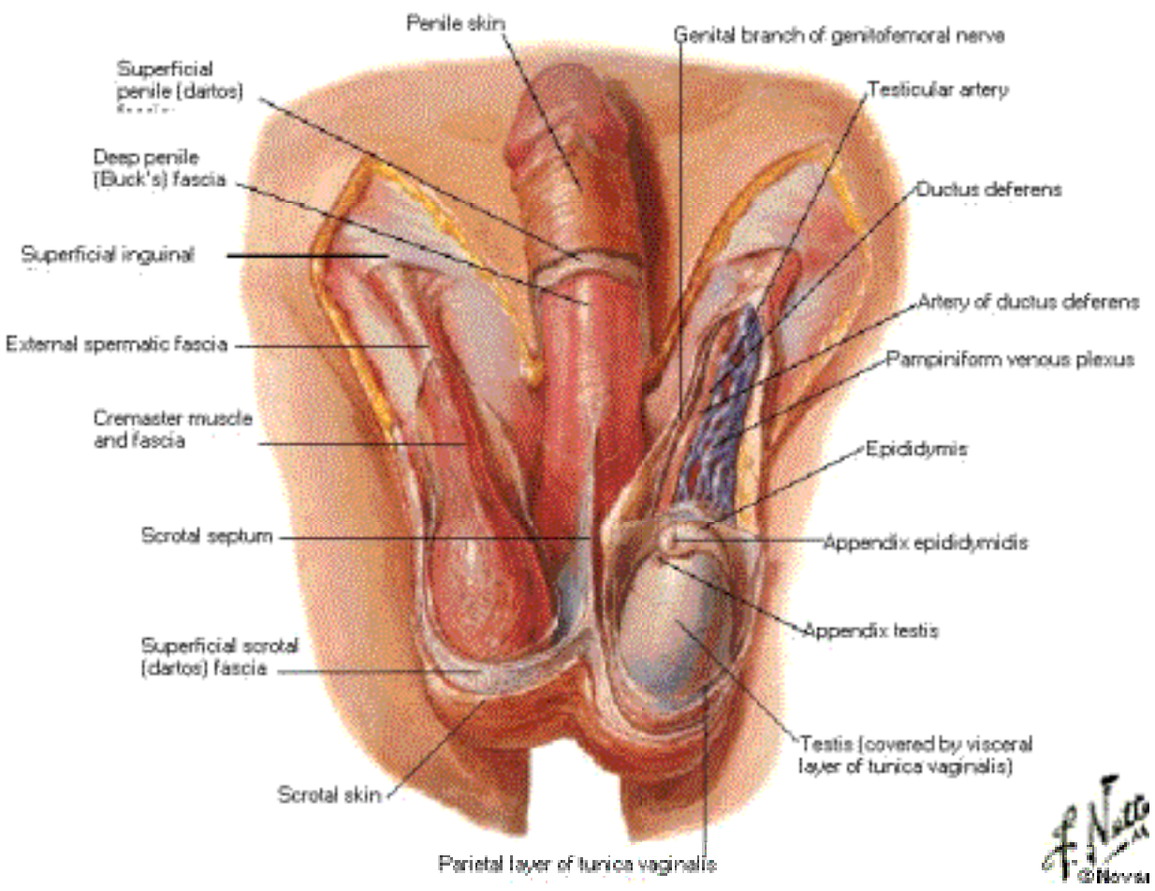
8 Lunar Months



26-cm crown rump

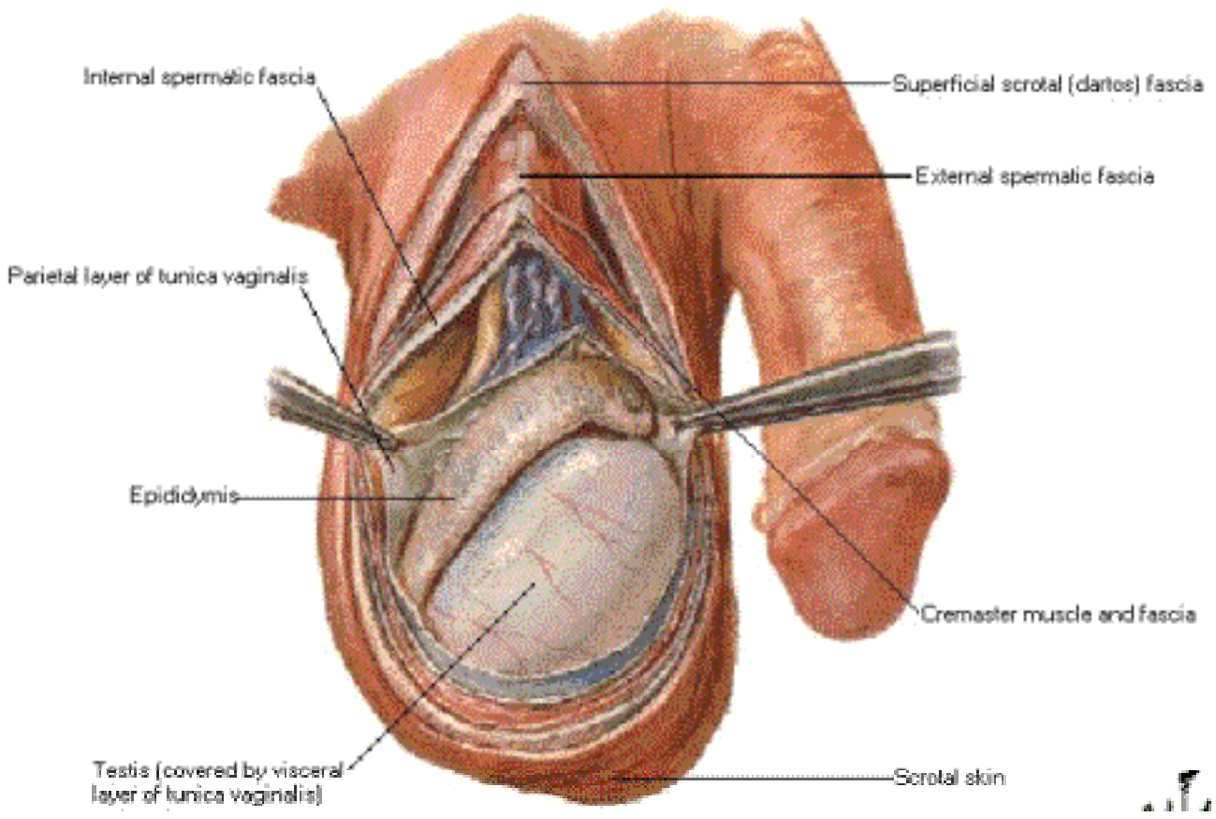
Scrotum and Contents

Anterior View



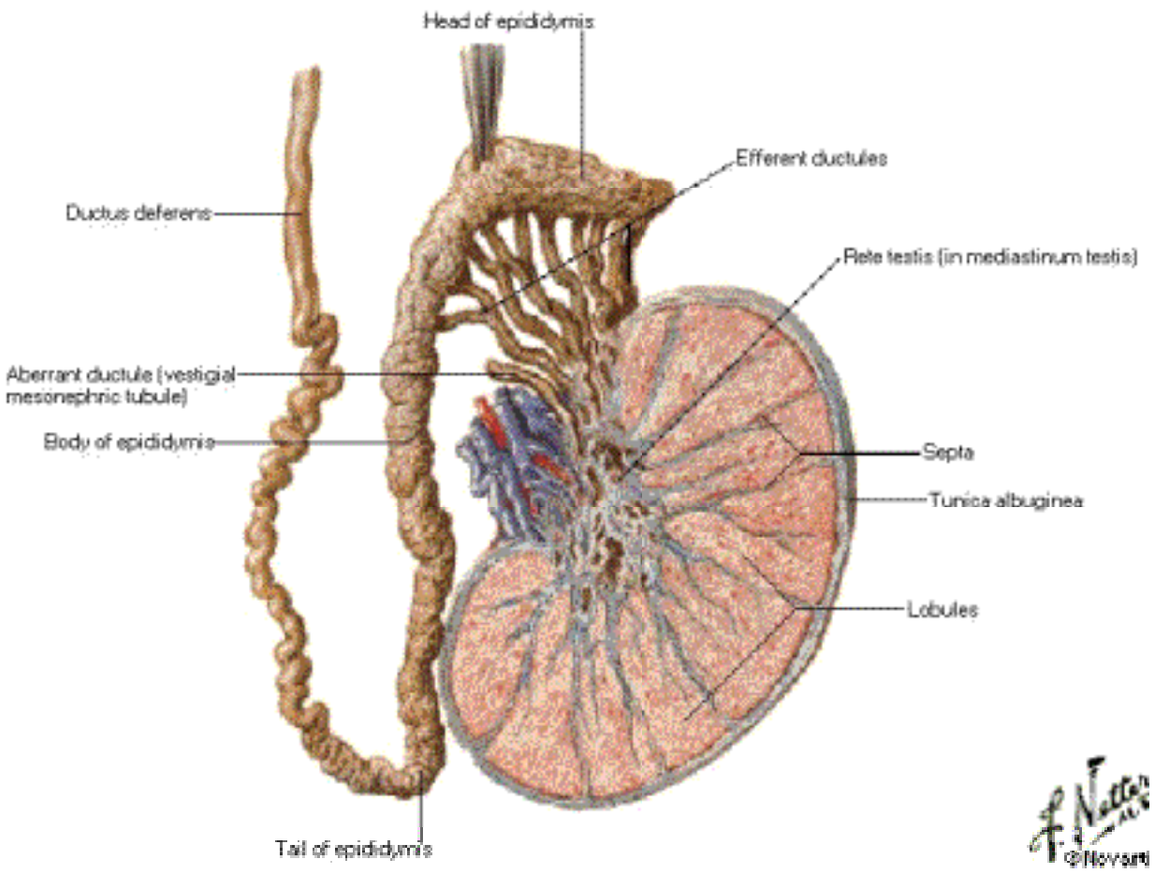
Scrotum and Contents

Lateral View



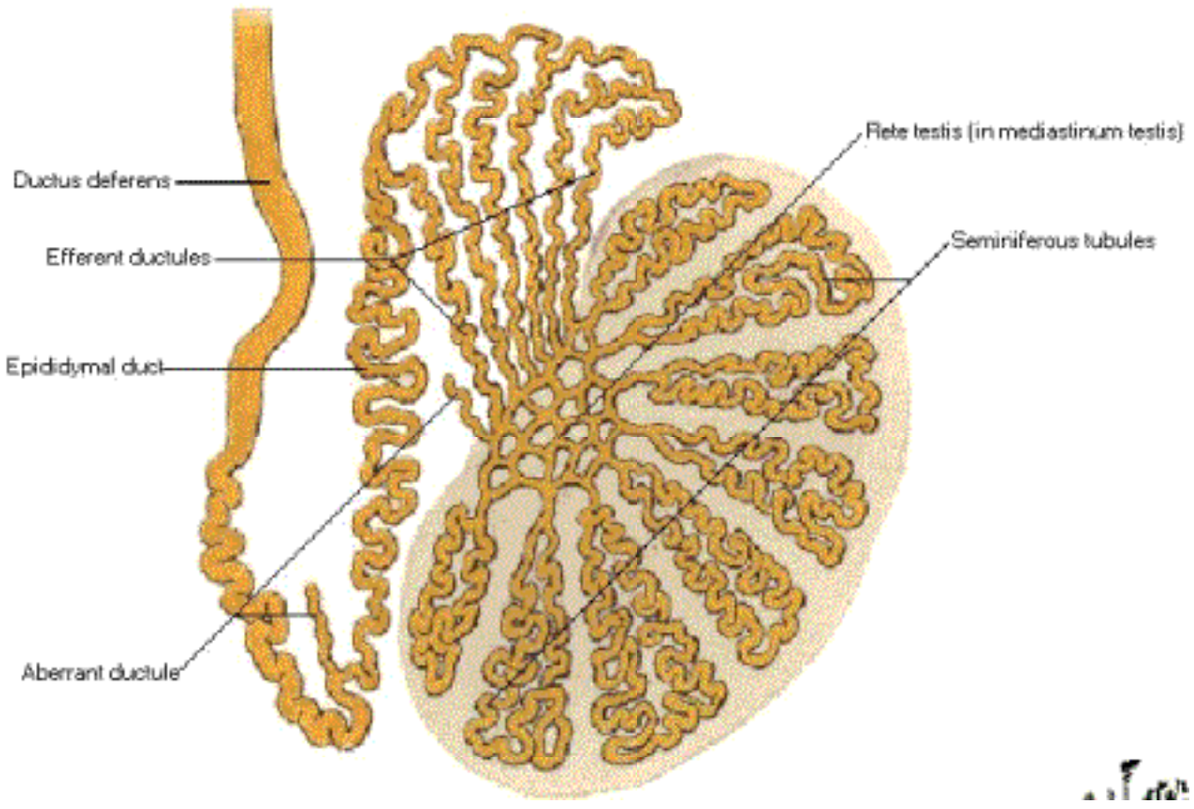
Testis, Epididymis and Ductus Deferens

Frontal Section



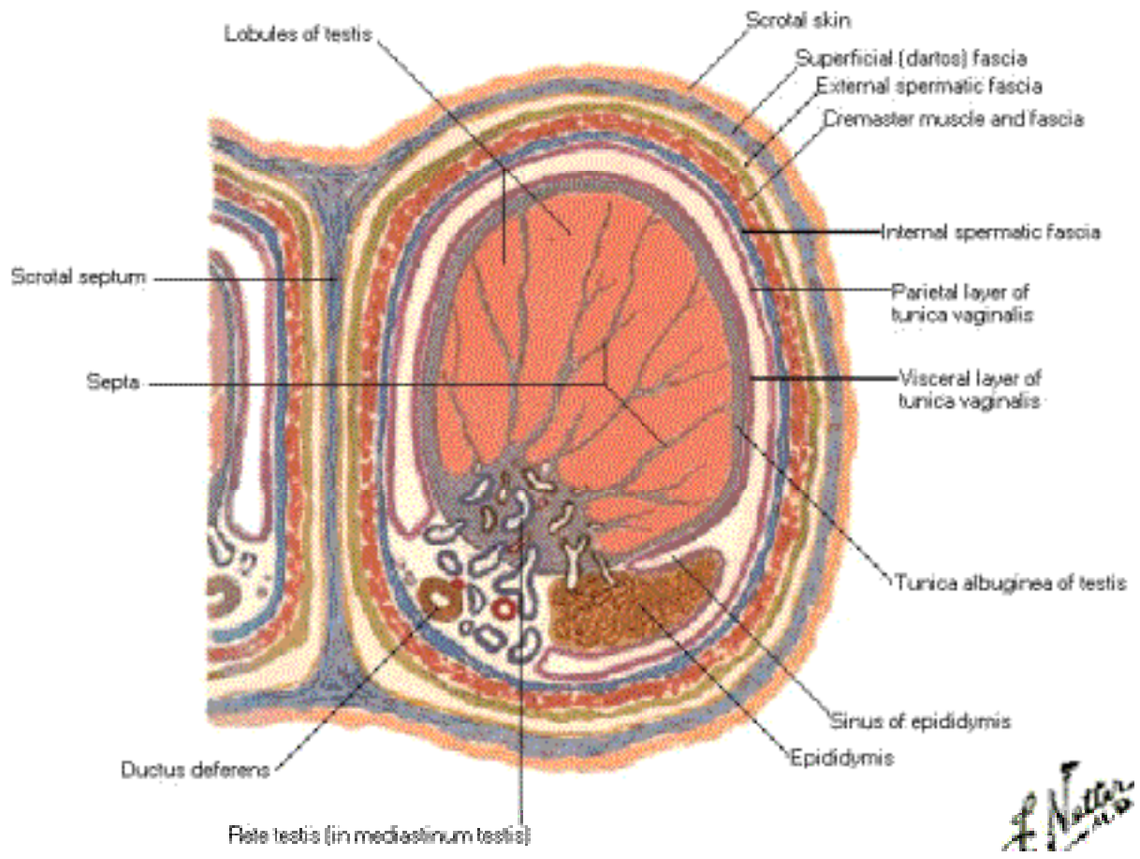
Testis, Epididymis and Ductus Deferens

Schema

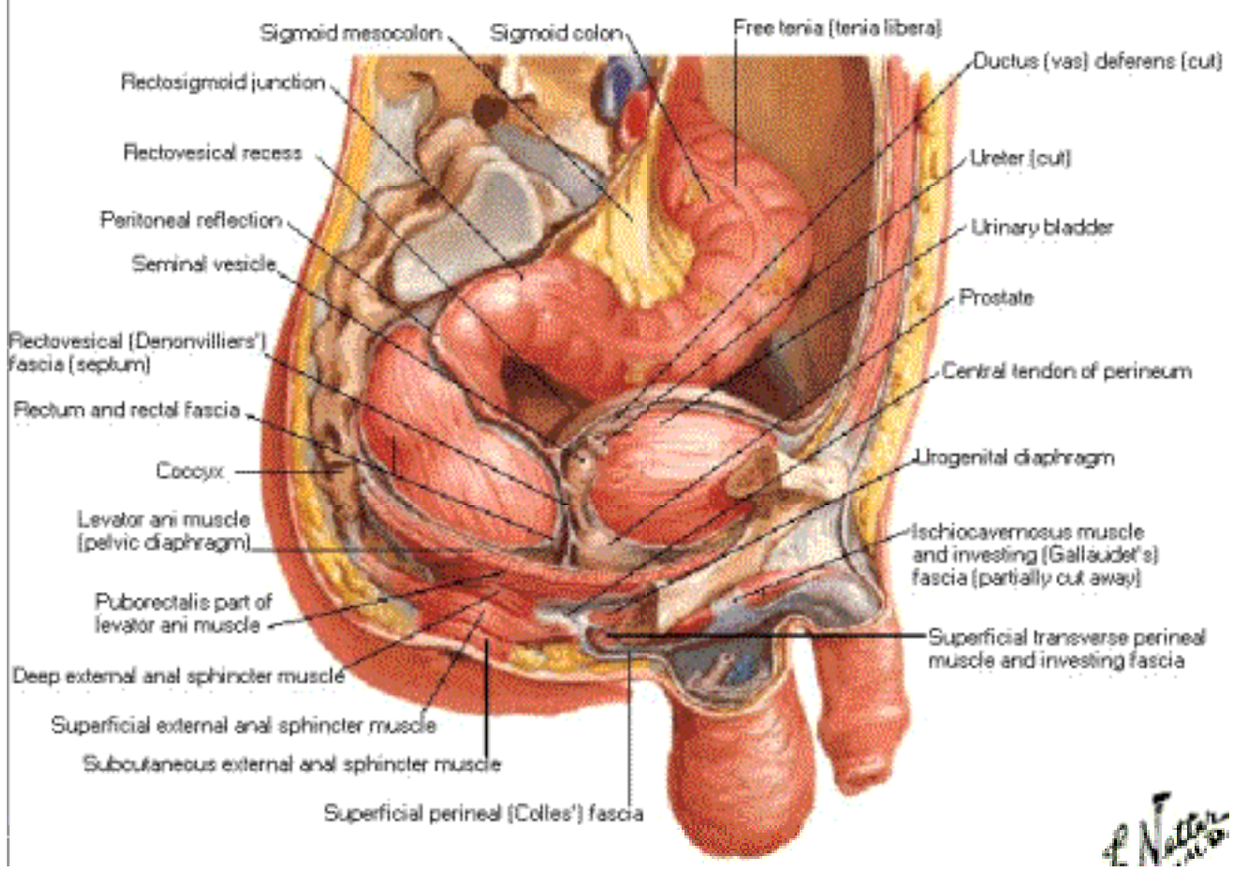


Testis, Epididymis and Ductus Deferens

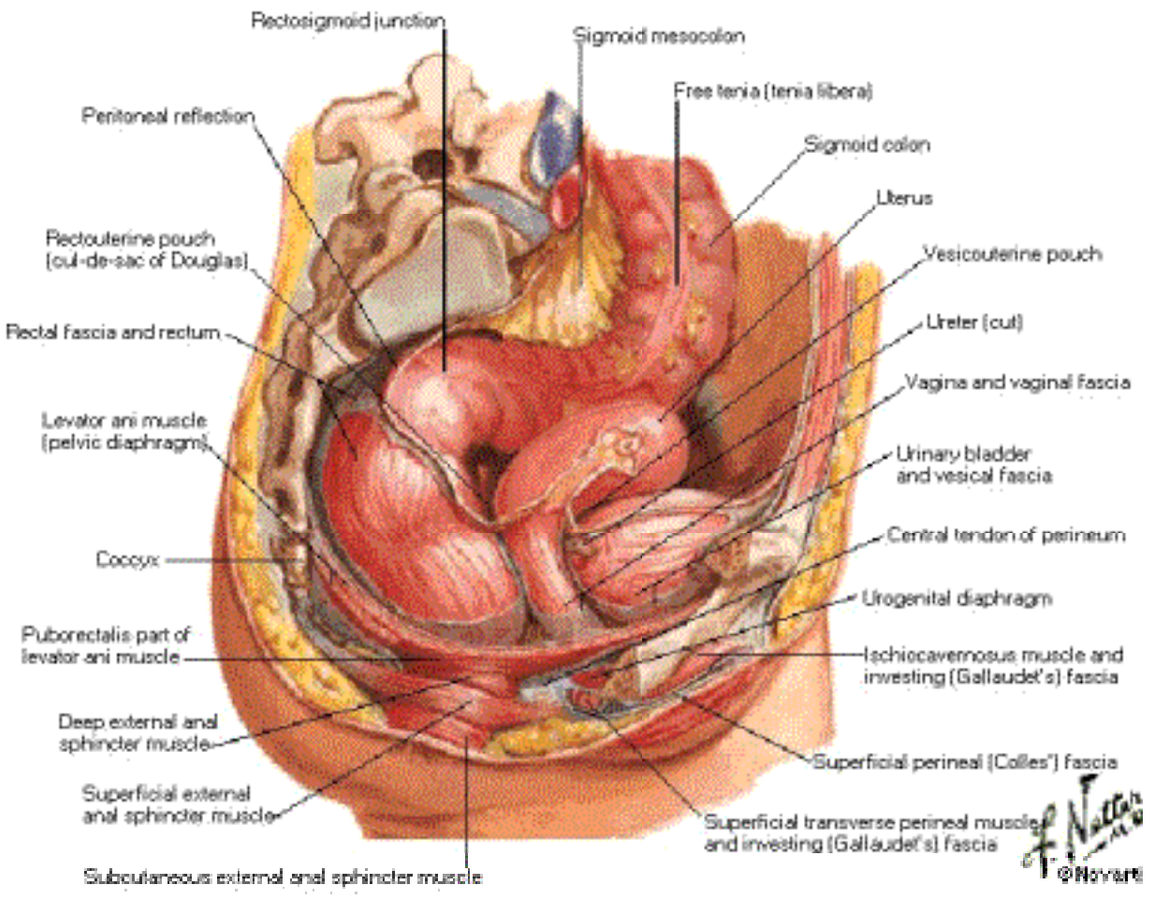
Cross Section



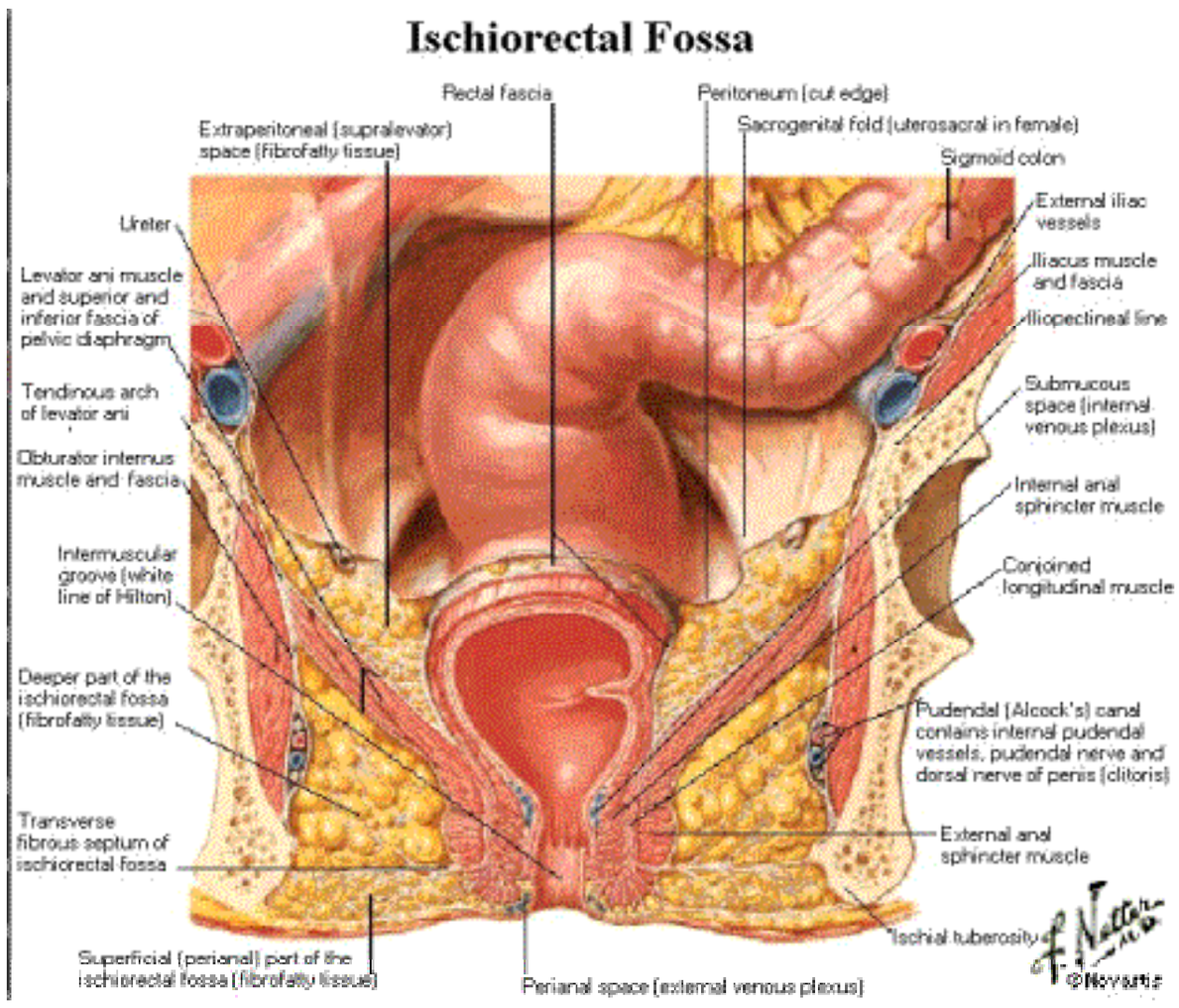
Rectum of Male in Situ



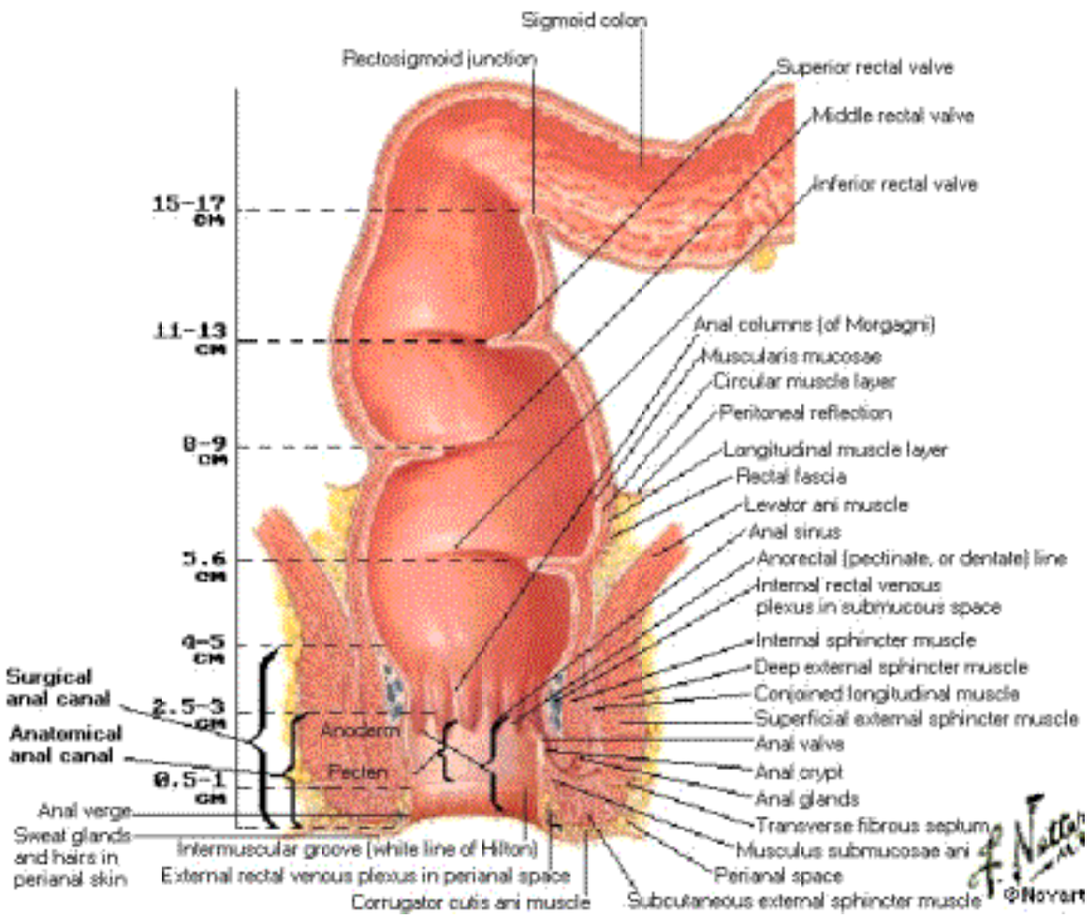
Rectum of Female in Situ



Ischiorectal Fossa

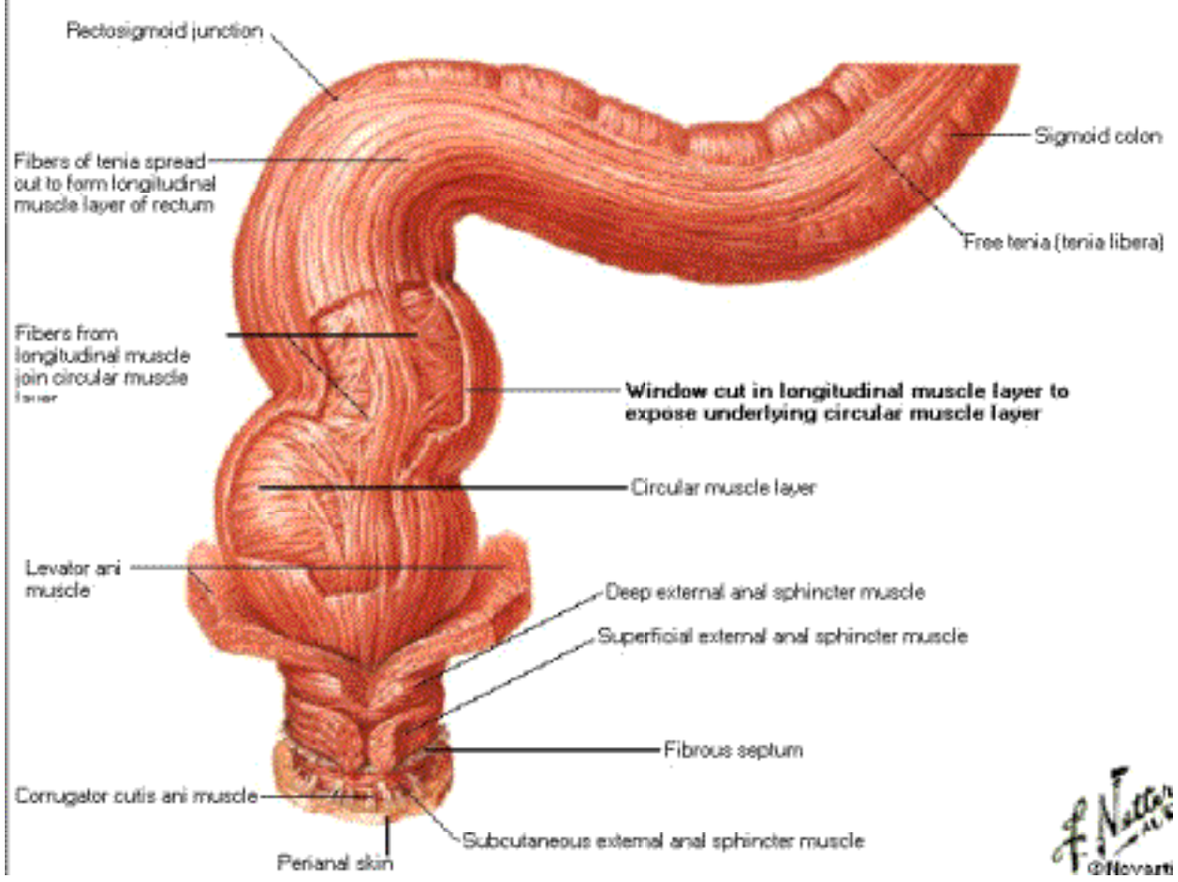


Rectum and Anal Canal



Anorectal Musculature

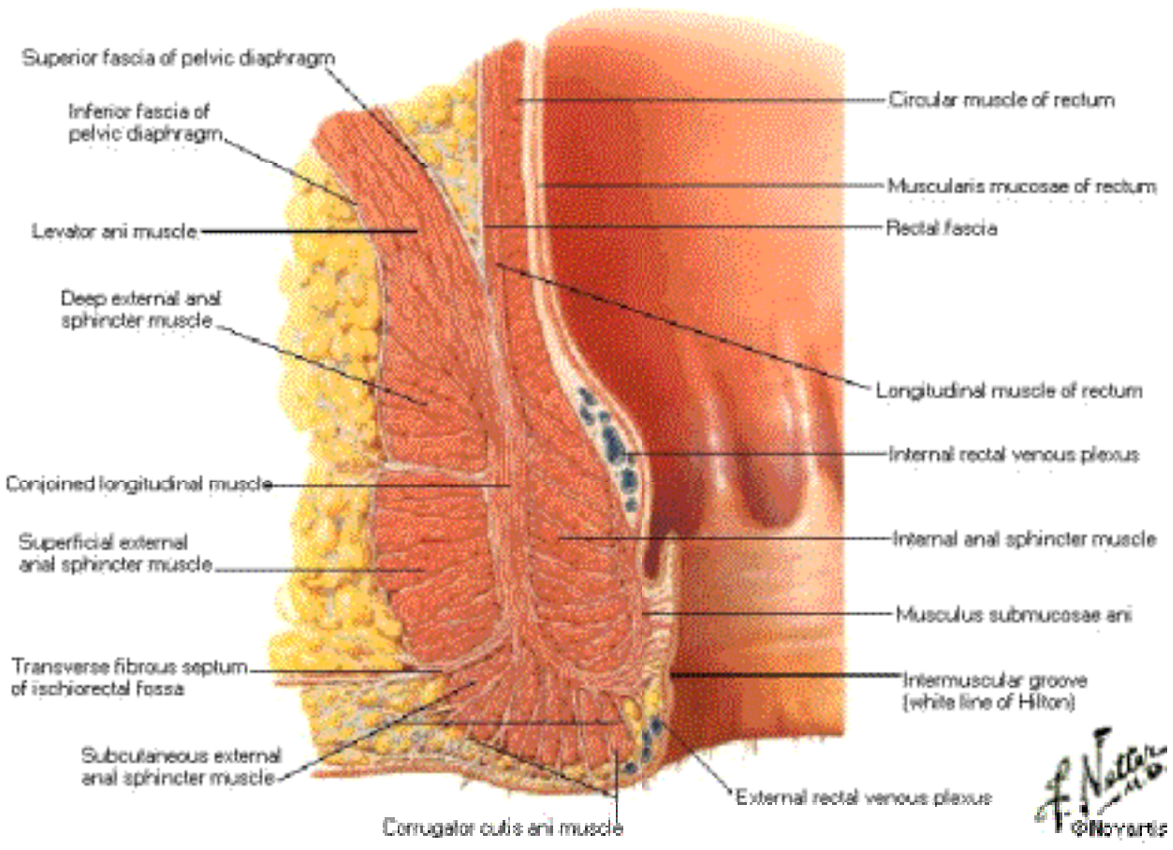
Anterior View



©Novarti

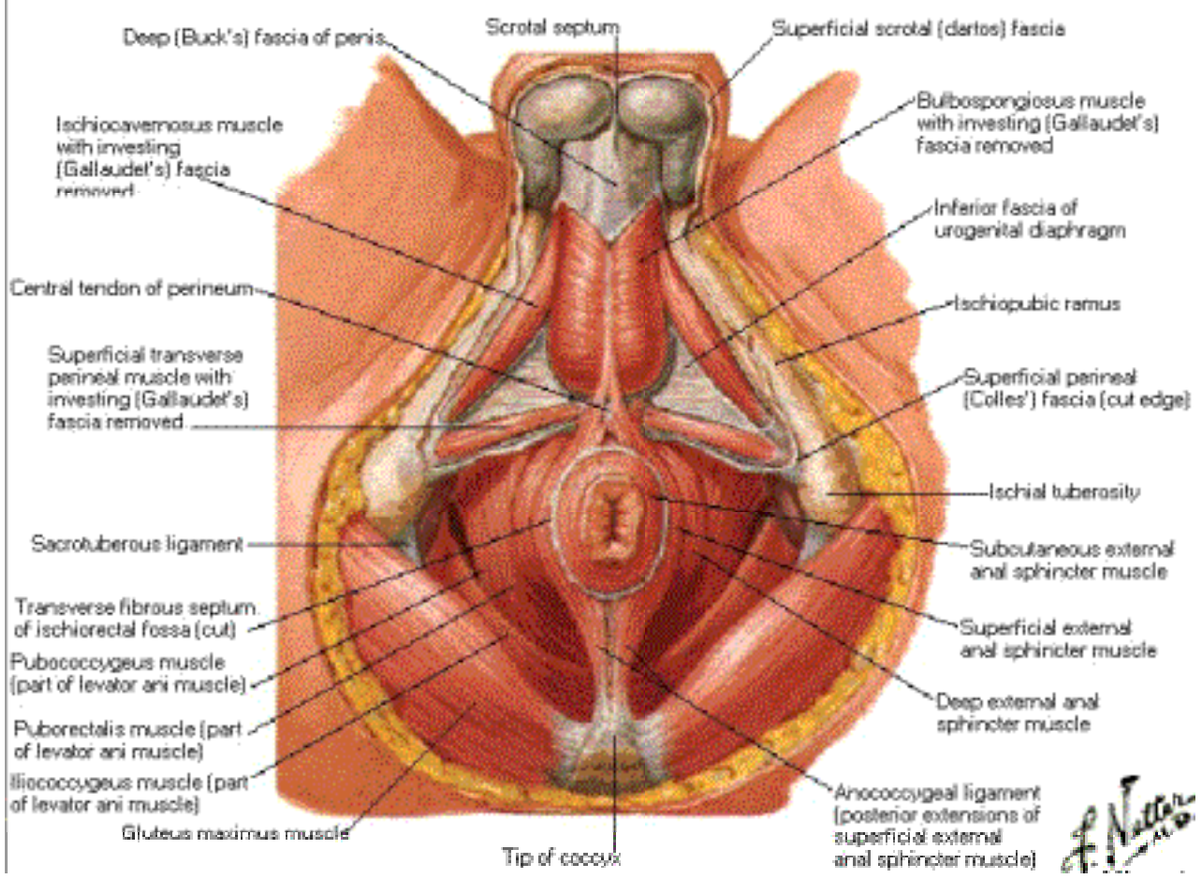
Anorectal Musculature

Frontal Section



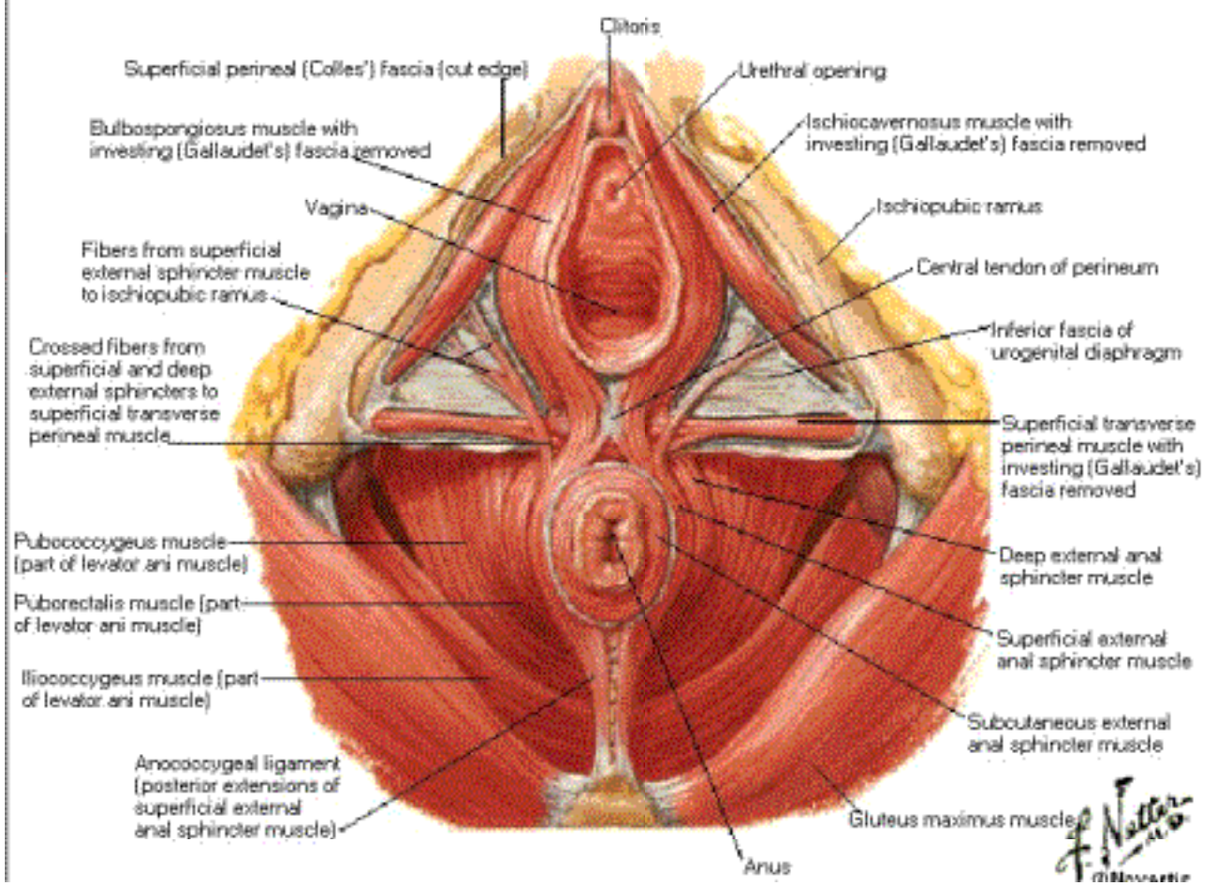
External Anal Sphincter Muscle of Male

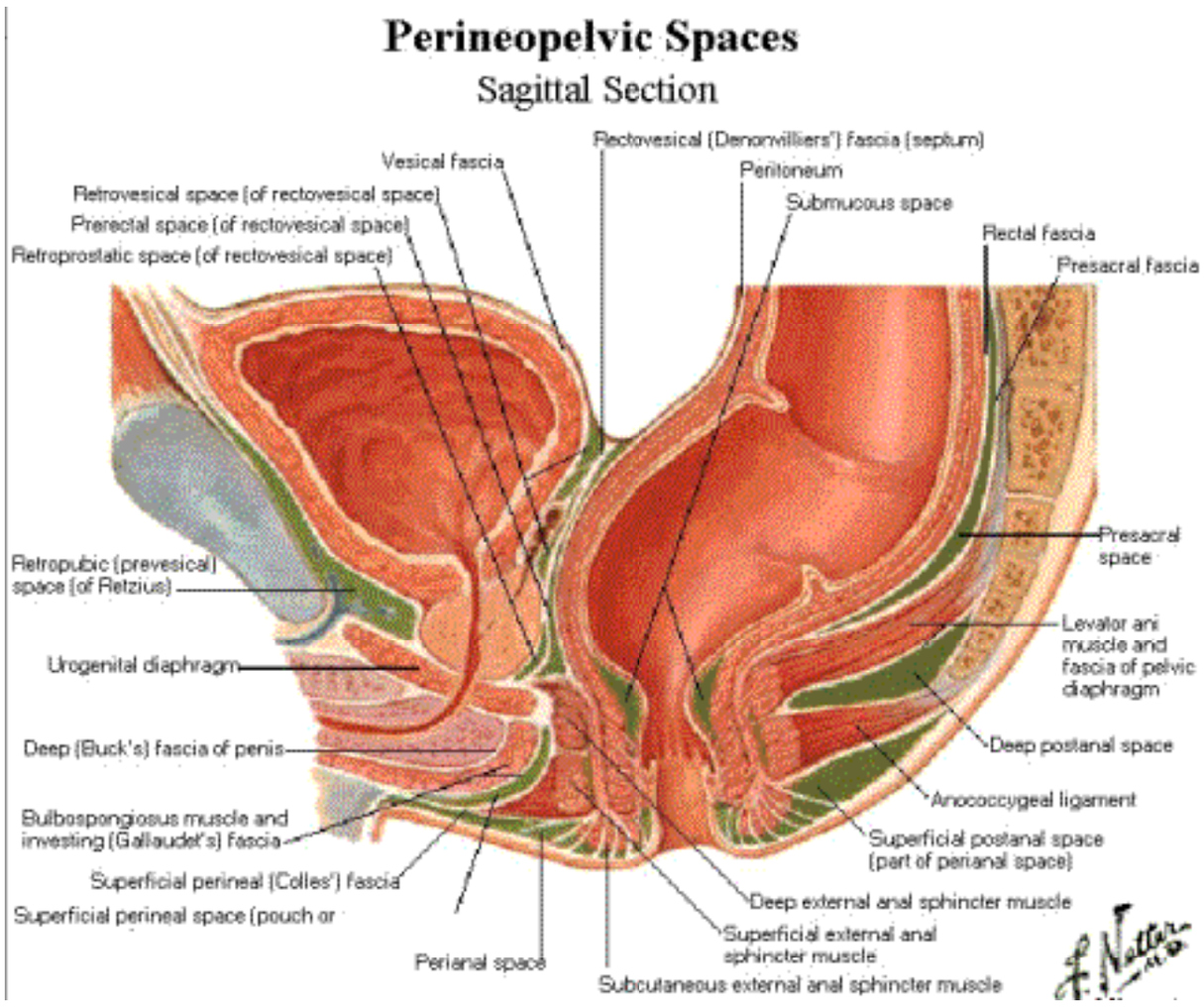
Perineal View



External Anal Sphincter Muscle of Female

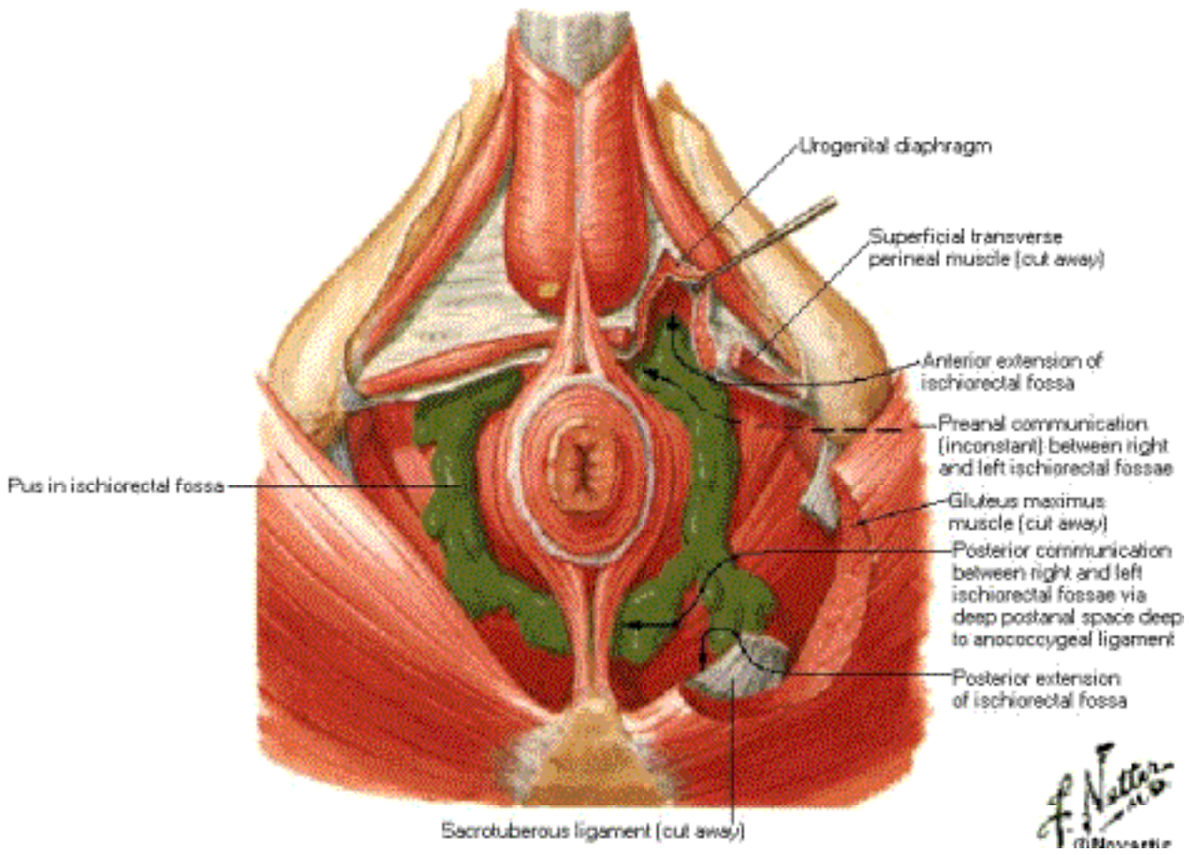
Perineal View



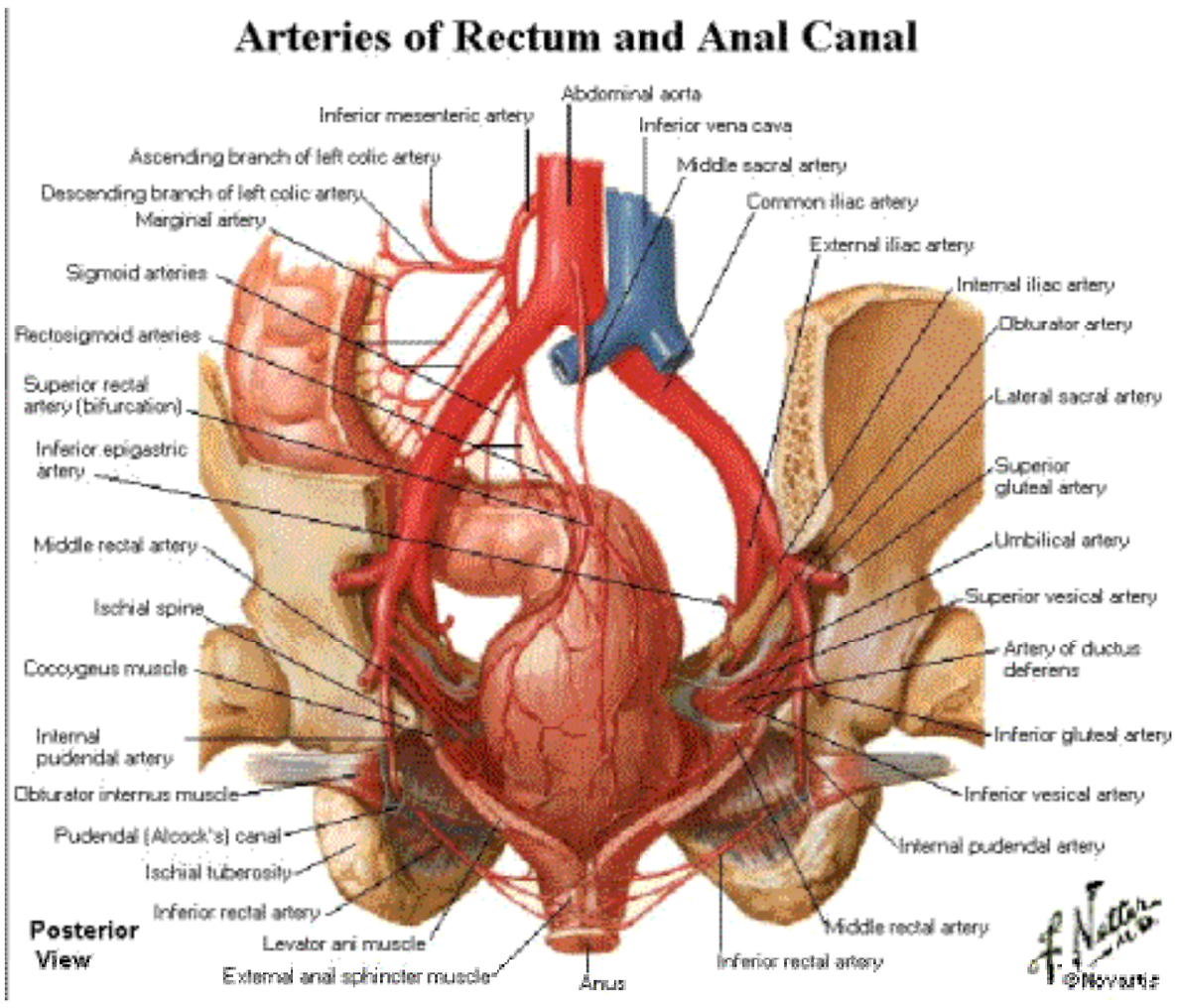

Perineopelvic Spaces
Sagittal Section
Rectovesical (Denonvilliers') fascia (septum)
Vesical fascia
Peritoneum
Retrovesical space (of rectovesical space)
Submucous space
Prerectal space (of rectovesical space)
Rectal fascia
Retroprostatic space (of rectovesical space)
Presacral fascia
Presacral space
Retropubic (prevesical) space (of Retzius)
Levator ani muscle and fascia of pelvic diaphragm
Urogenital diaphragm
Deep postanal space
Deep (Buck's) fascia of penis
Anococcygeal ligament
Bulbospongiosus muscle and investing (Gallaudet's) fascia
Superficial postanal space (part of perianal space)
Superficial perineal (Colles') fascia
Deep external anal sphincter muscle
Superficial perineal space (pouch or
Superficial external anal sphincter muscle
Perianal space
Subcutaneous external anal sphincter muscle

Perineopelvic Spaces

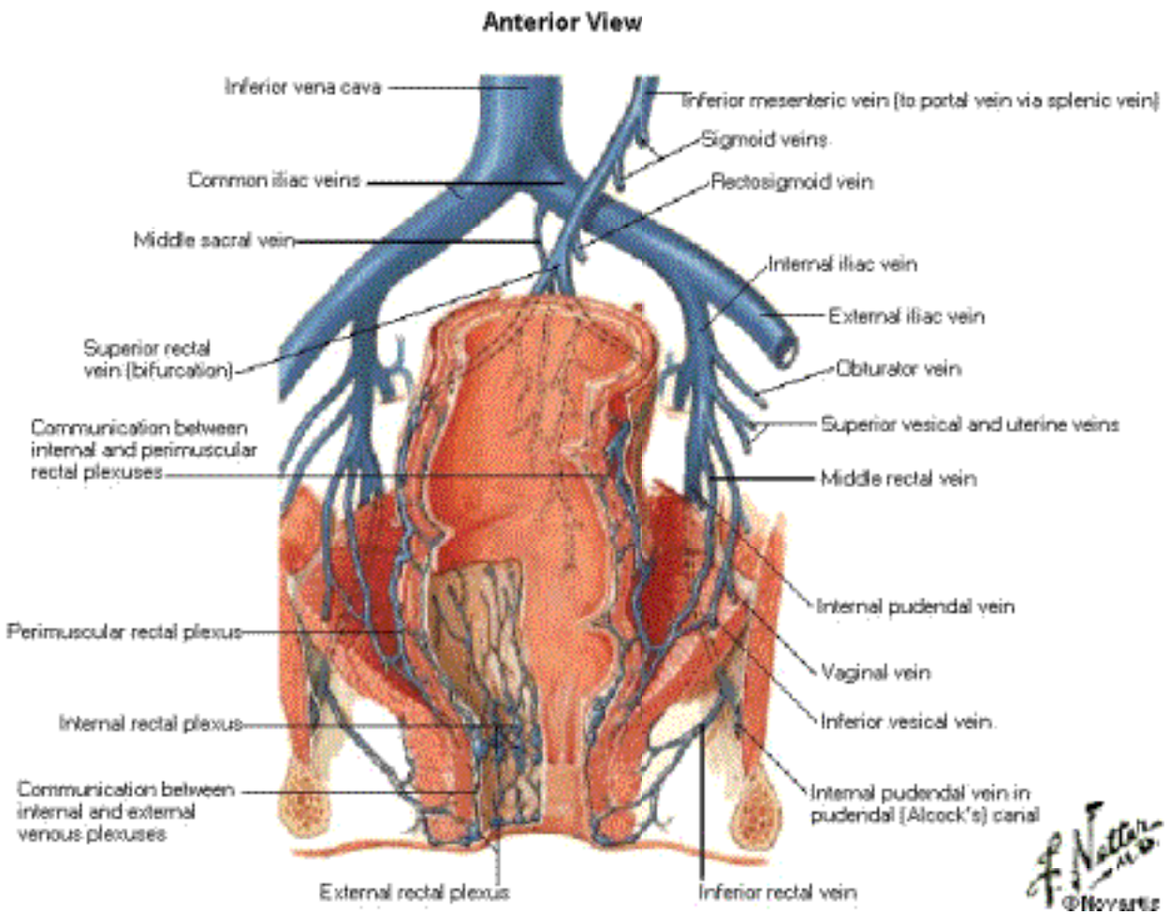
Perineal View



Arteries of Rectum and Anal Canal



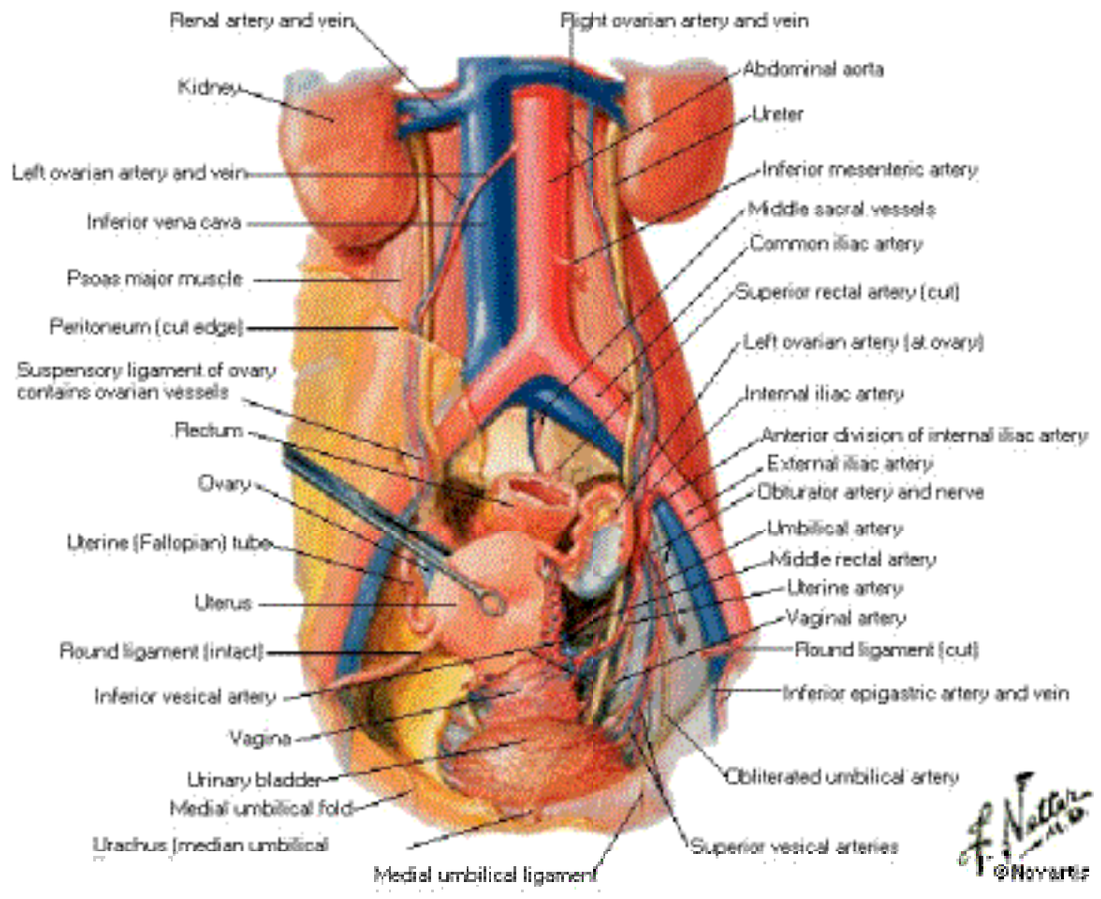
Veins of Rectum and Anal Canal



Arteries and Veins of Pelvic Organs

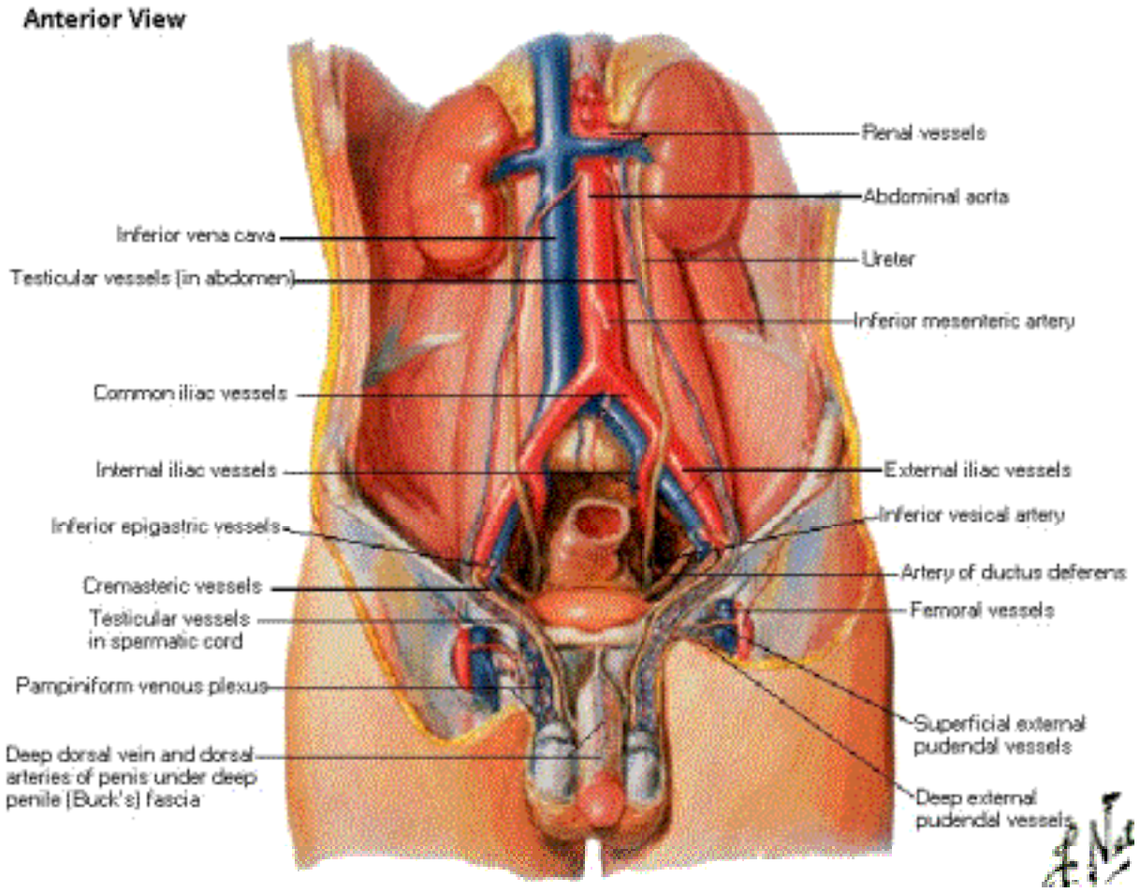
Anterior View

Female



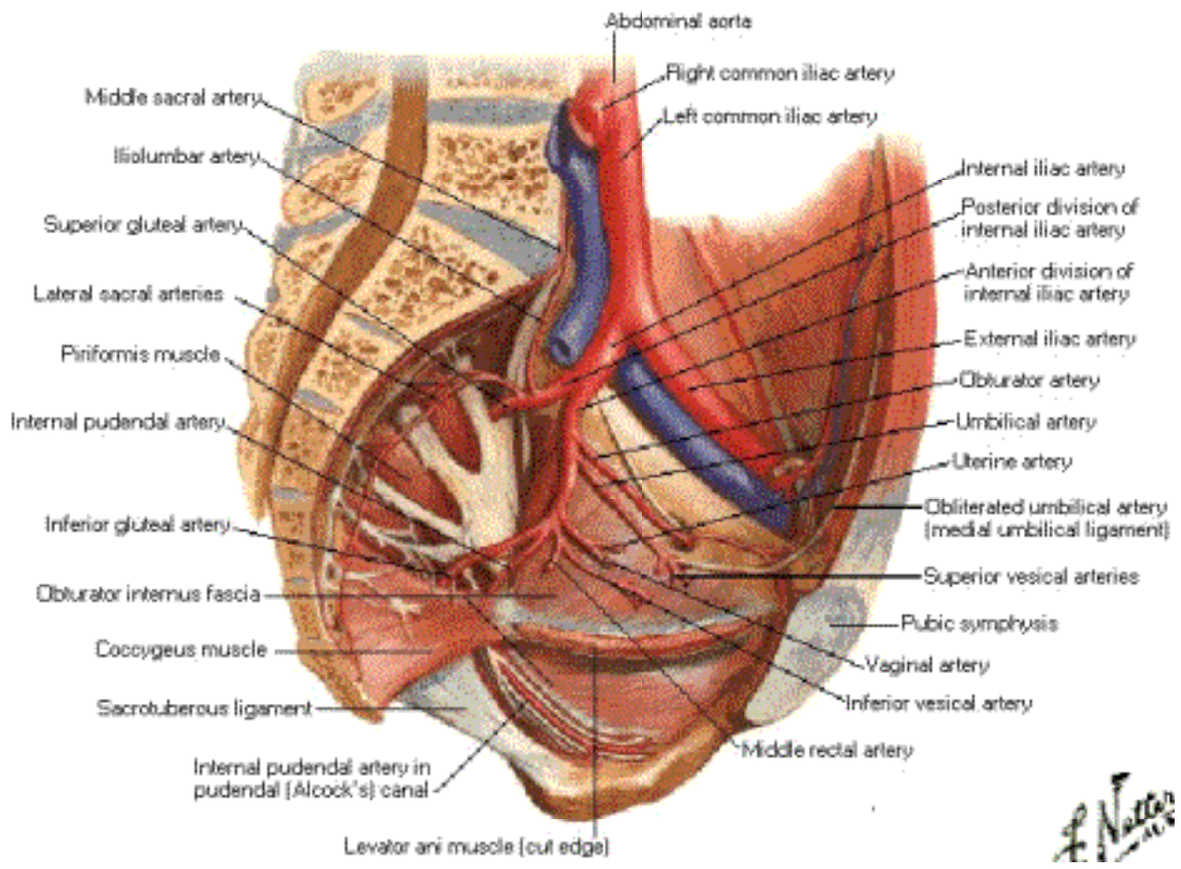
Arteries and Veins of Testis

Anterior View



Arteries and Veins of Pelvis

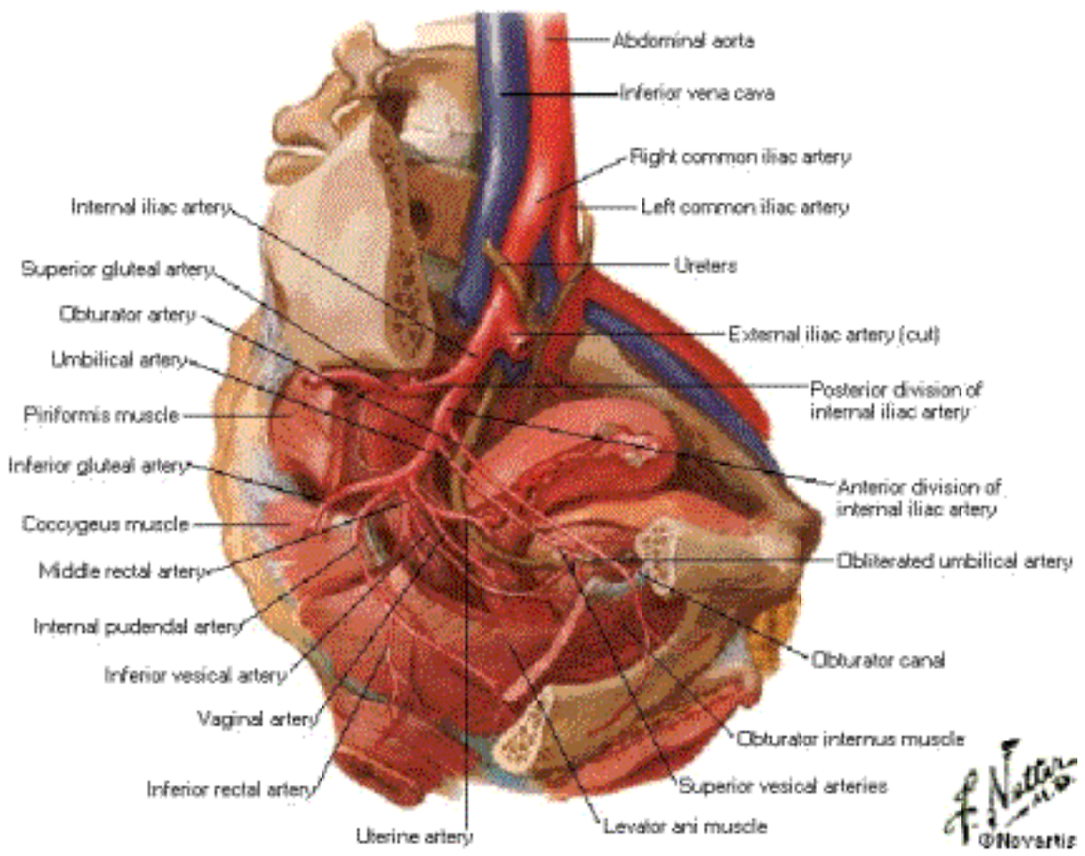
Female - Sagittal Section



Arteries and Veins of Pelvis

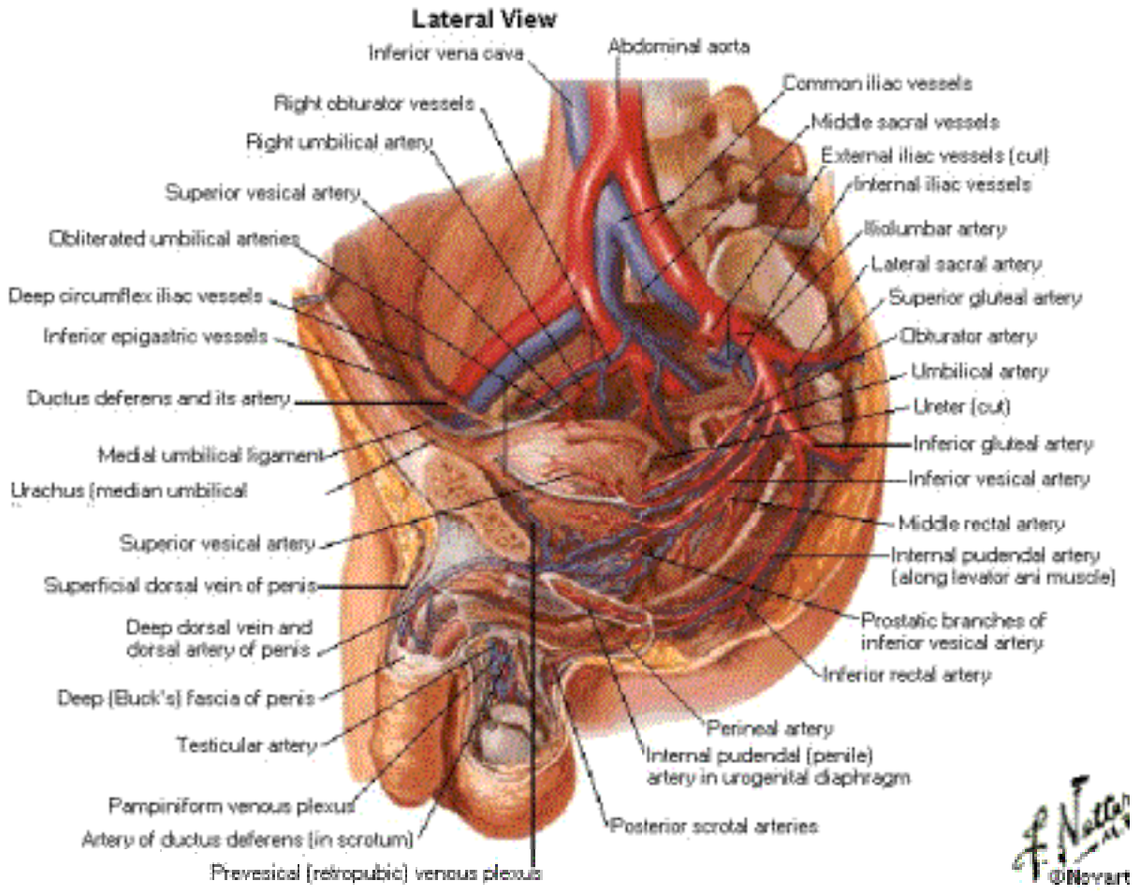
Female - Right Paramedian Section

Lateral View

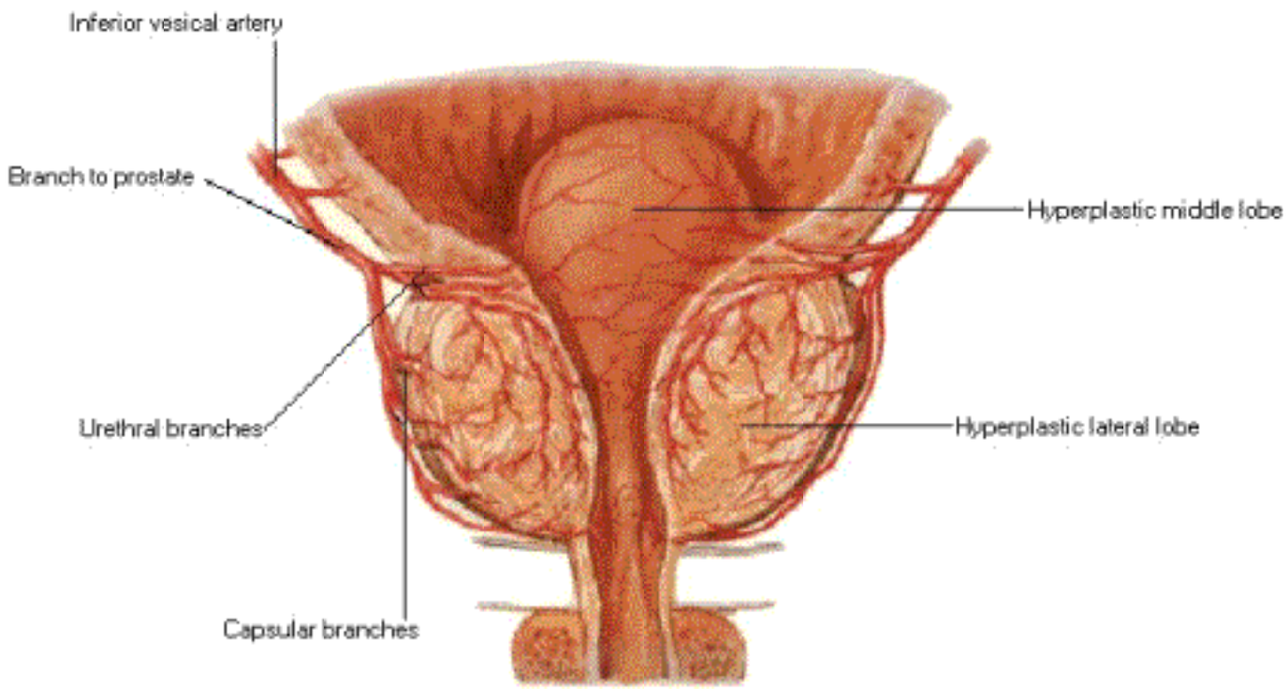


Arteries and Veins of Pelvis

Male - Left Paramedian Section

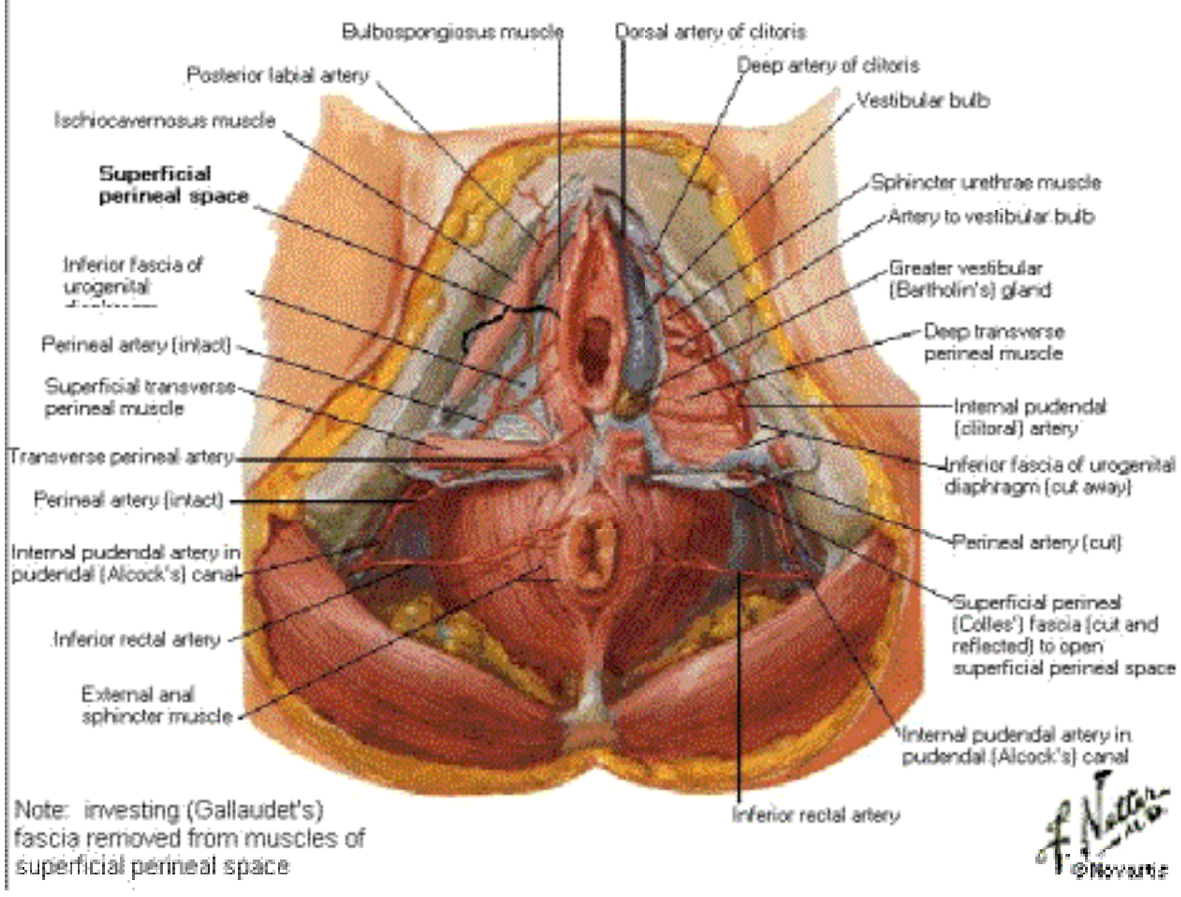


Arterial Supply of Prostate



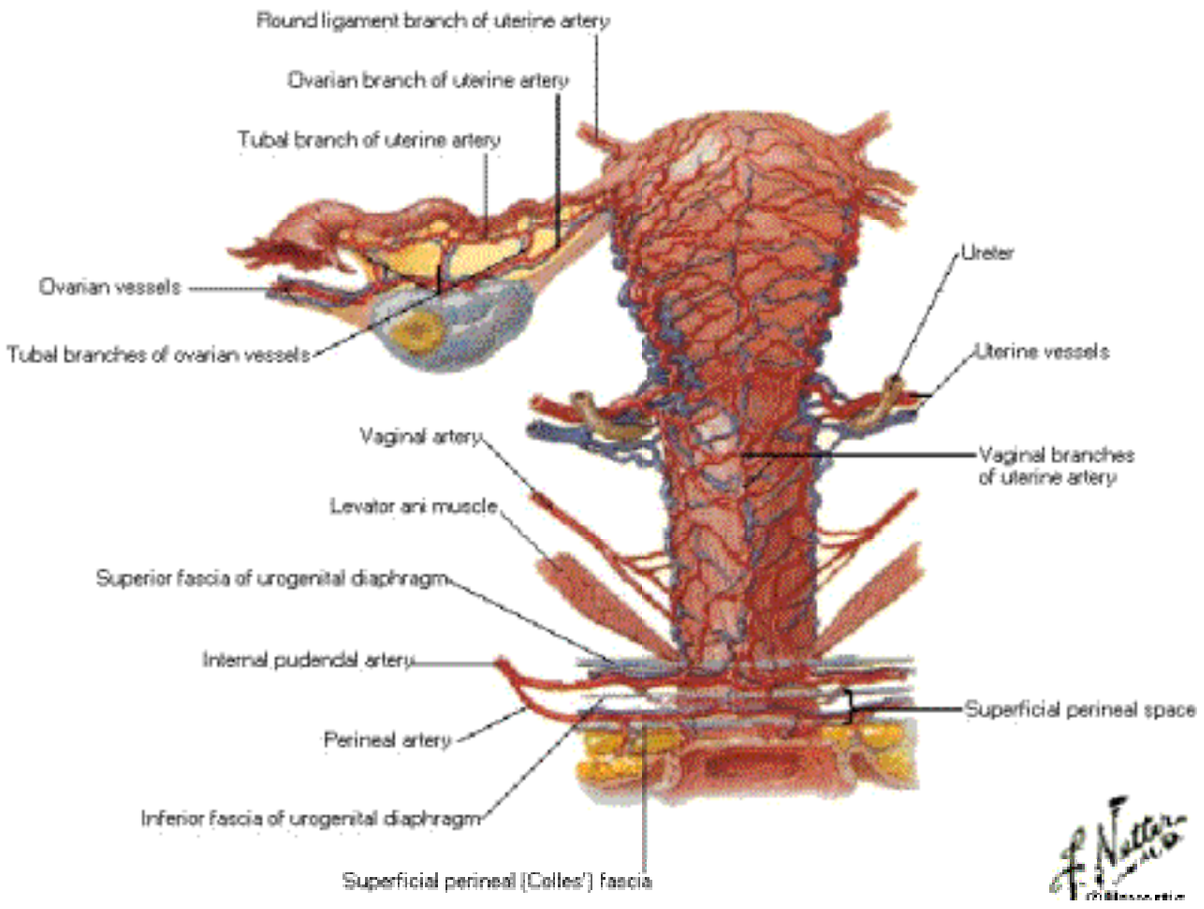
Arteries and Veins of Perineum

Female



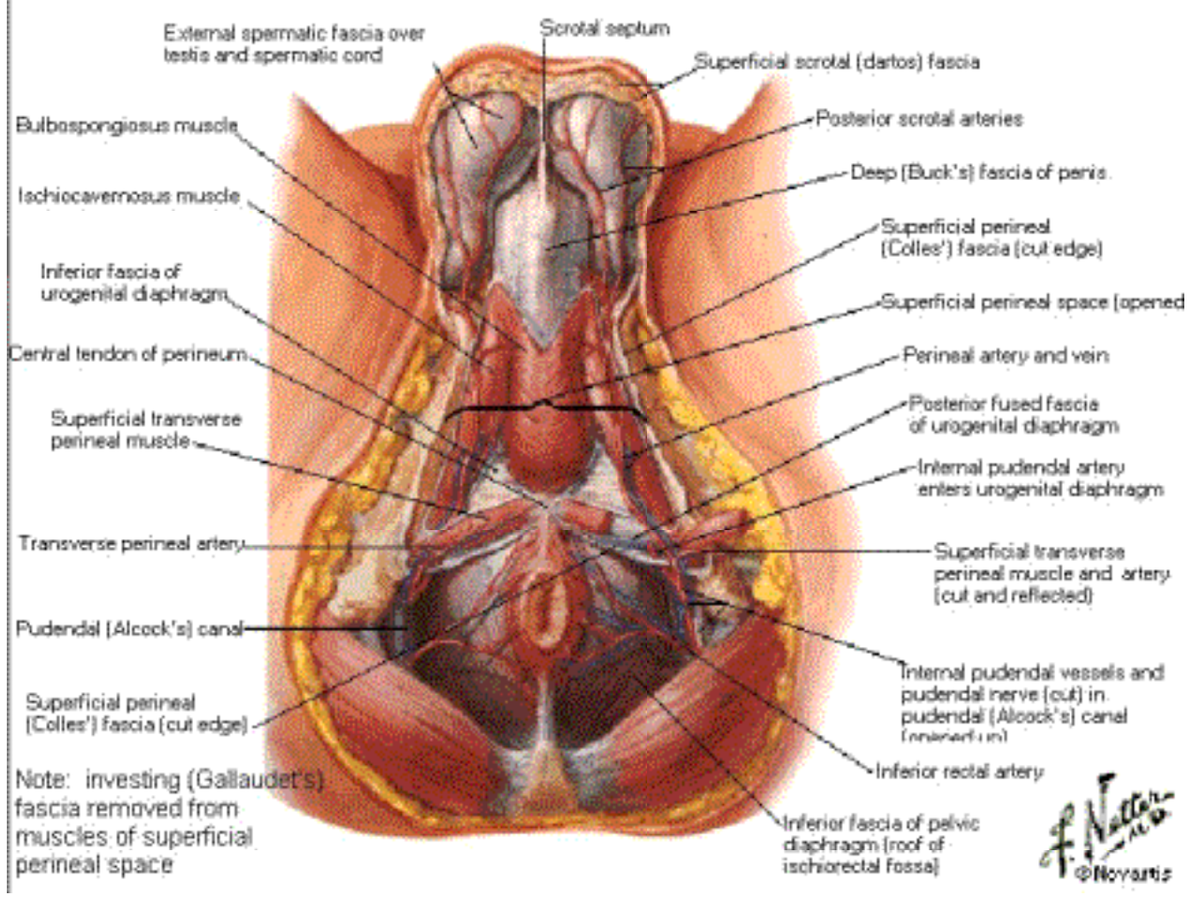
Note: investing (Gallaudet's) fascia removed from muscles of superficial perineal space

Arteries and Veins of Uterus



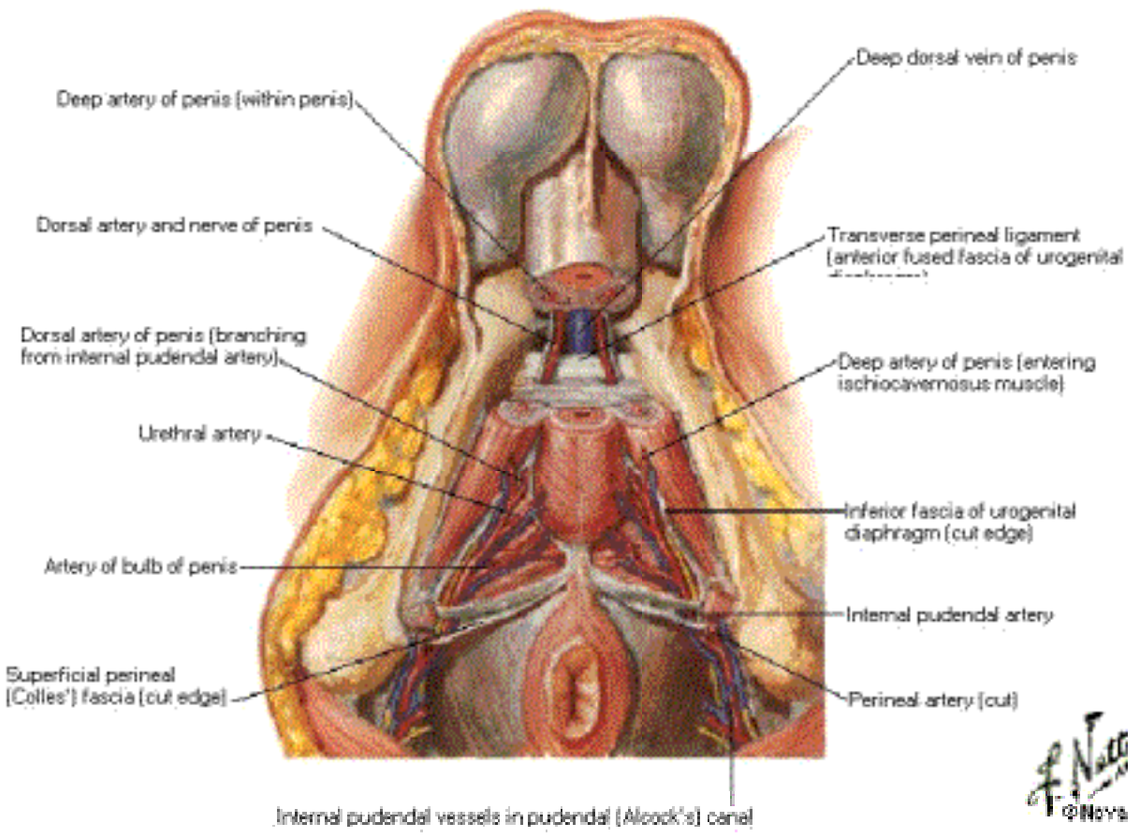
Arteries and Veins of Perineum

Male



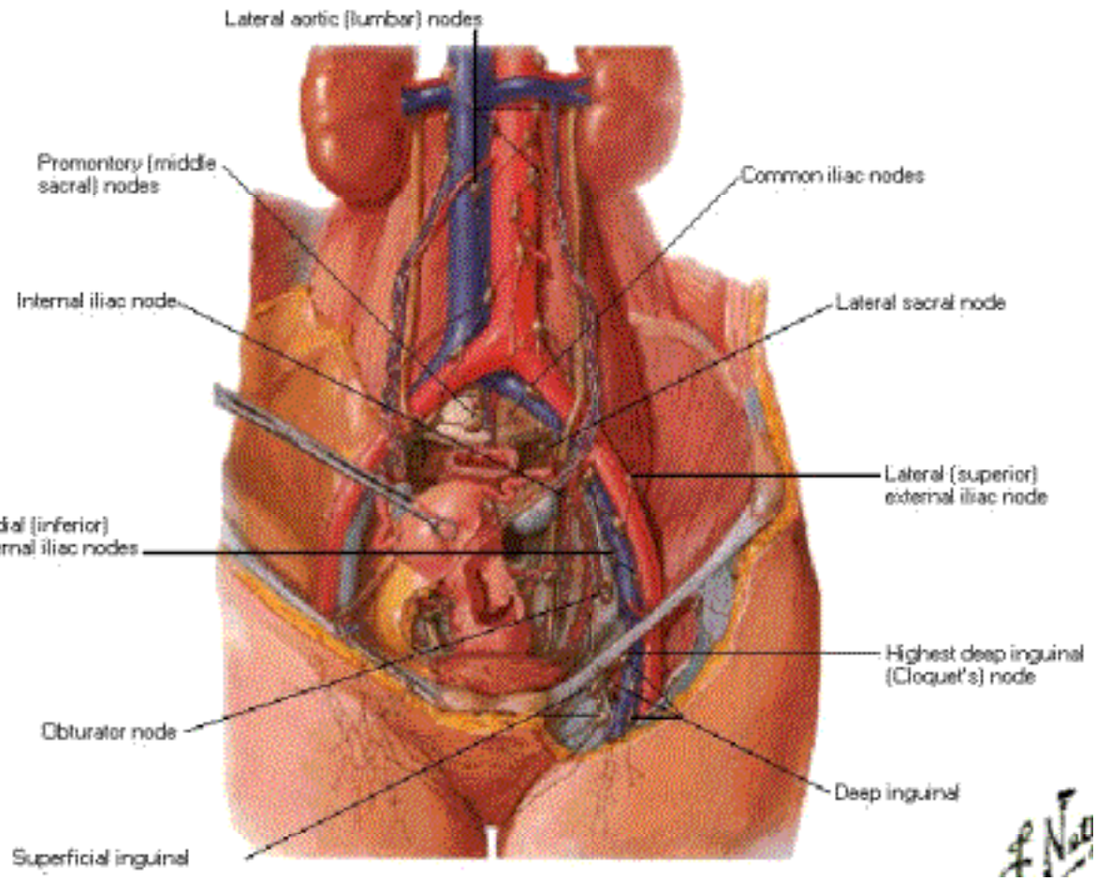
Arteries and Veins of Perineum [Continued]

Male

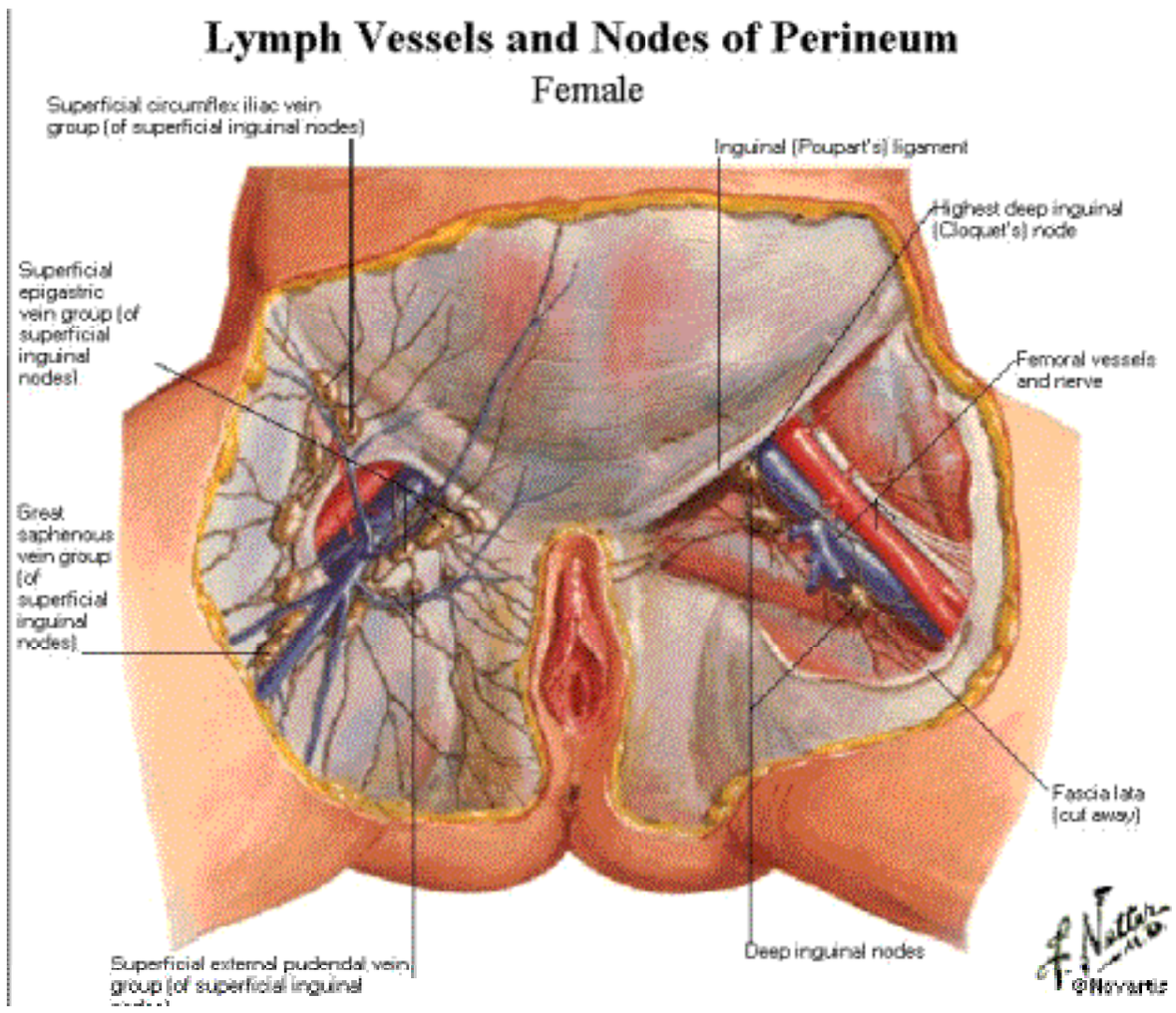


Lymph Vessels and Nodes of Pelvis and Genitalia

Female

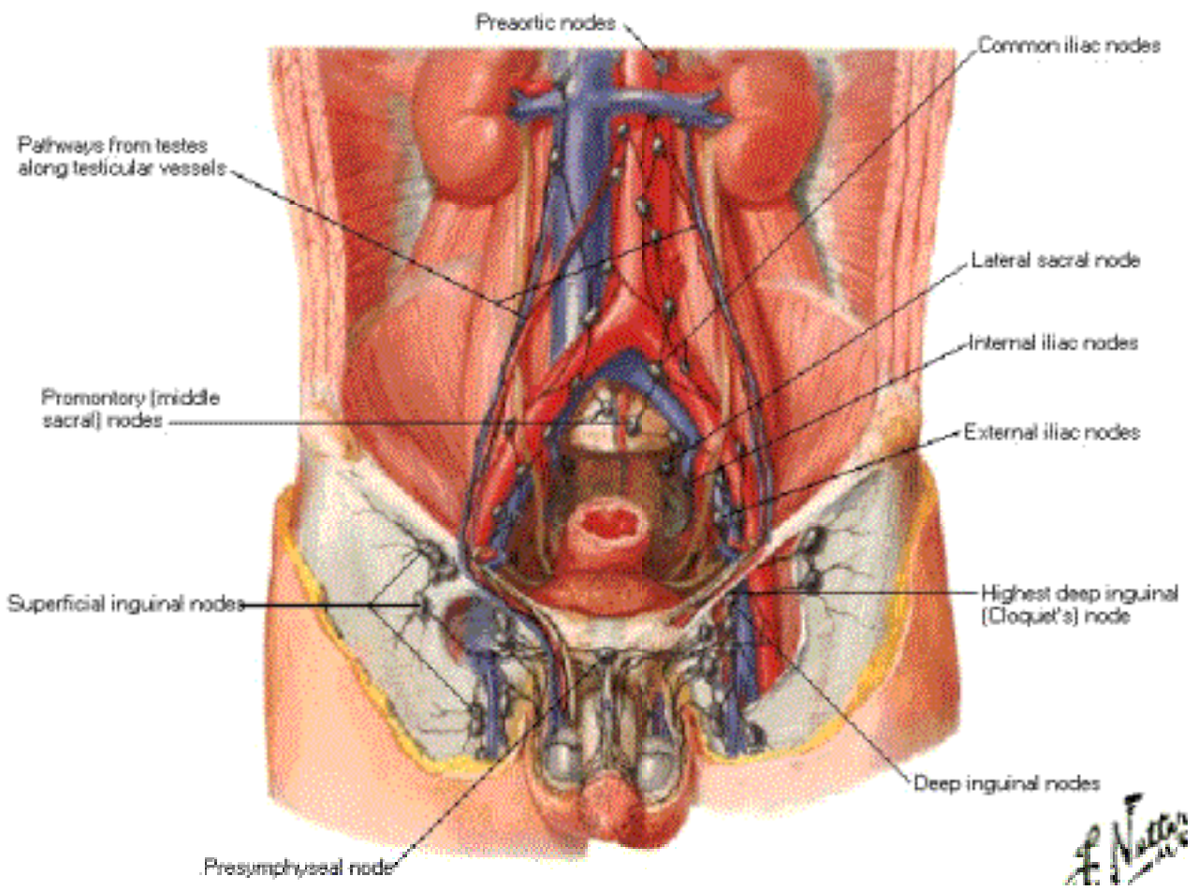


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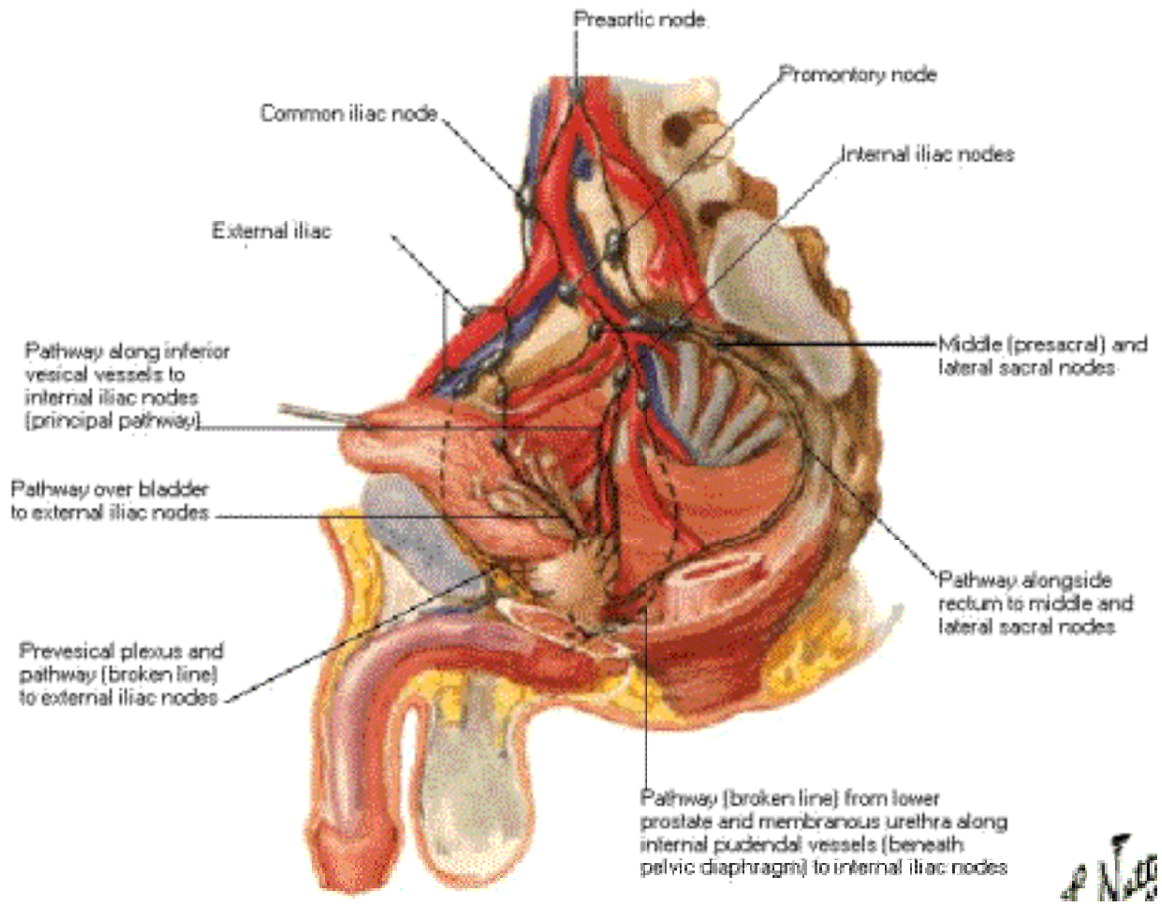

Lymph Vessels and Nodes of Perineum
Female
Superficial circumflex iliac vein group (of superficial inguinal nodes)
Inguinal (Poupart's) ligament
Highest deep inguinal (Cloquet's) node
Superficial epigastric vein group (of superficial inguinal nodes)
Femoral vessels and nerve
Great saphenous vein group (of superficial inguinal nodes)
Fascia lata (cut away)
Deep inguinal nodes
Superficial external pudendal vein group (of superficial inguinal
F. Netter M.D.
©Novartis

Lymph Vessels and Nodes of Pelvis and Genitalia

Male

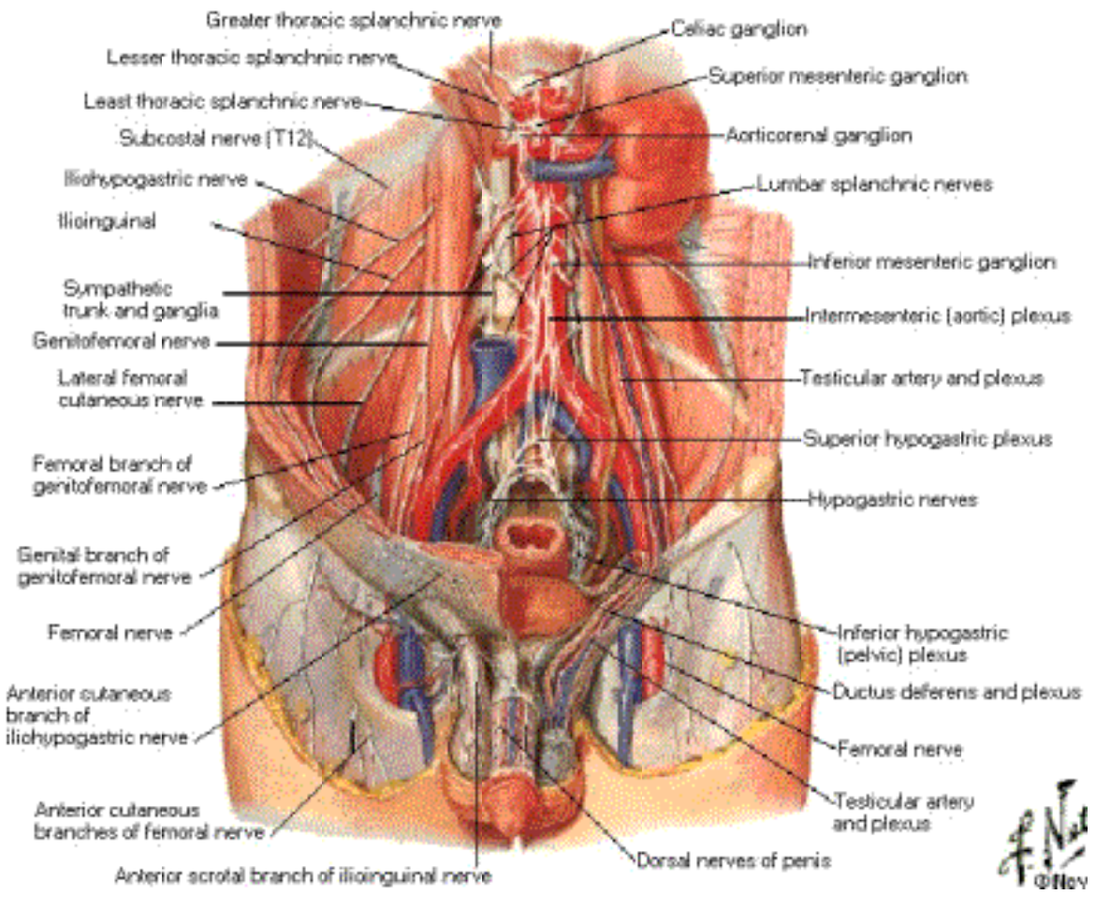


Lymphatic Drainage from Prostate



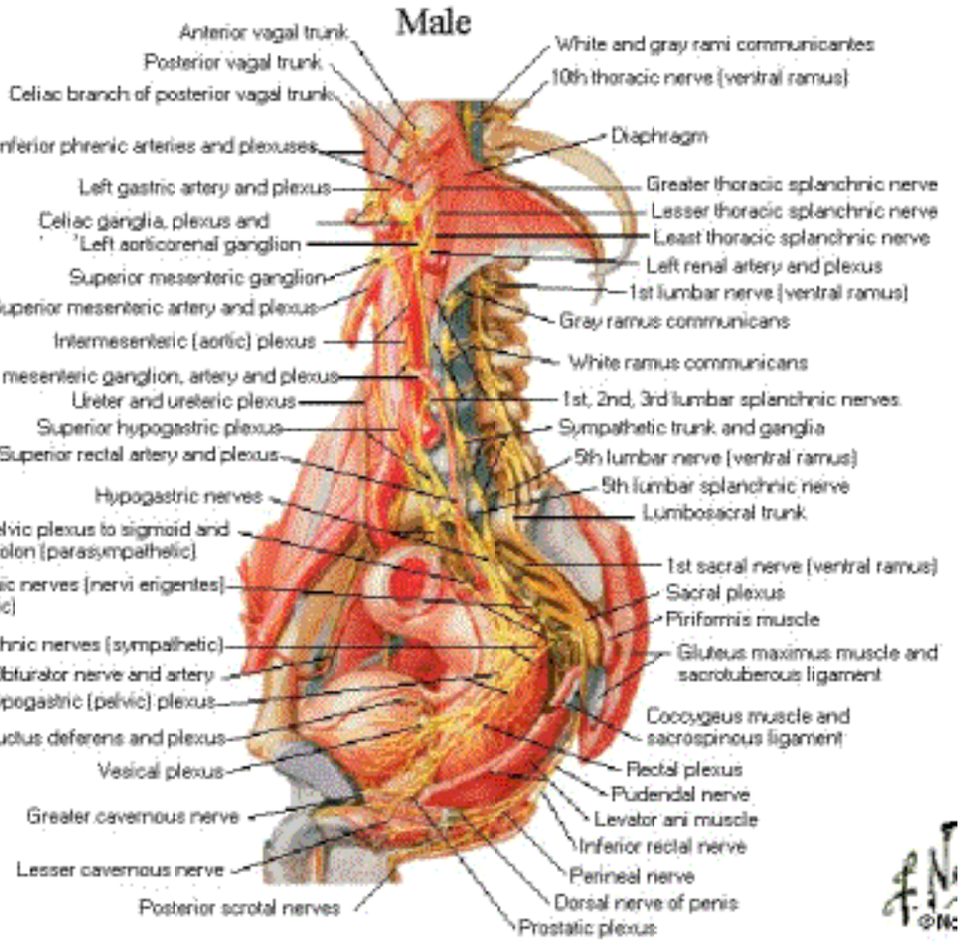
Nerves of External Genitalia

Male



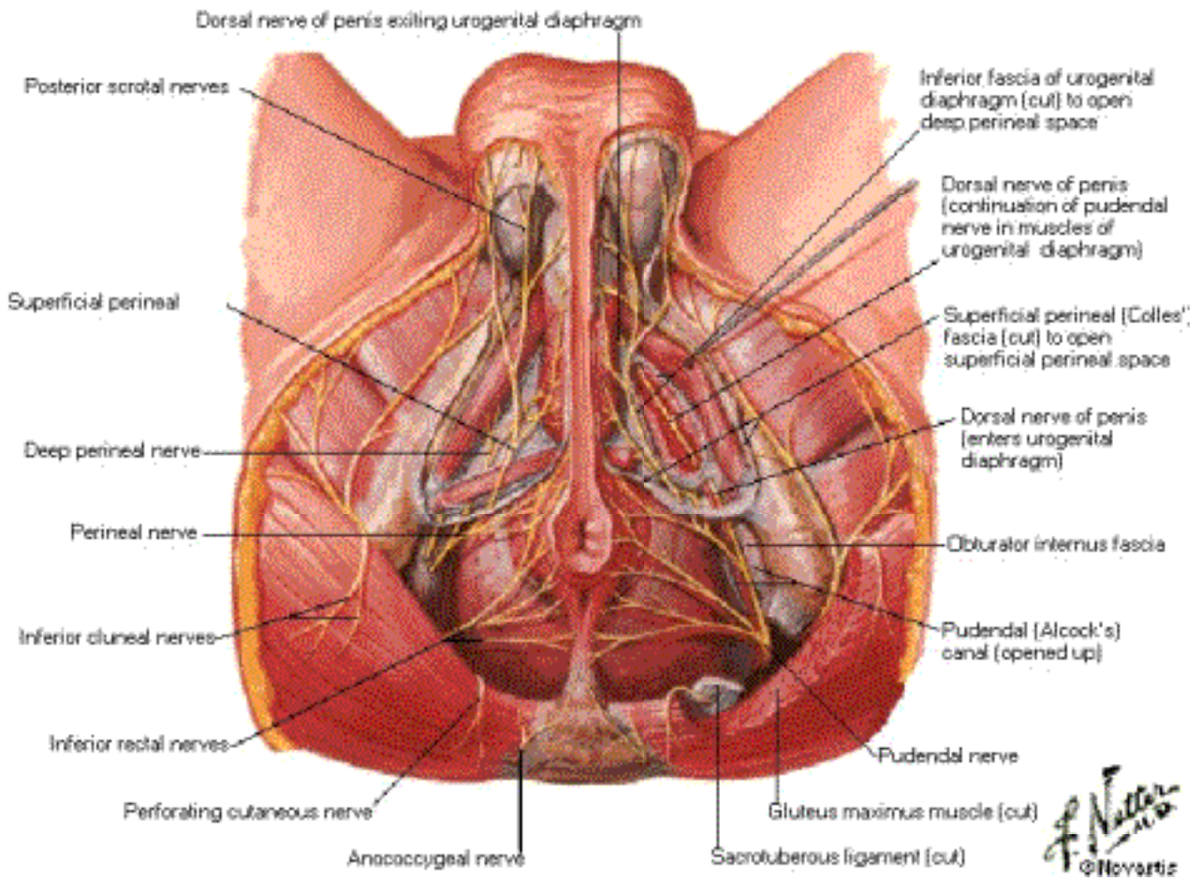
Nerves of Pelvic Viscera

Male



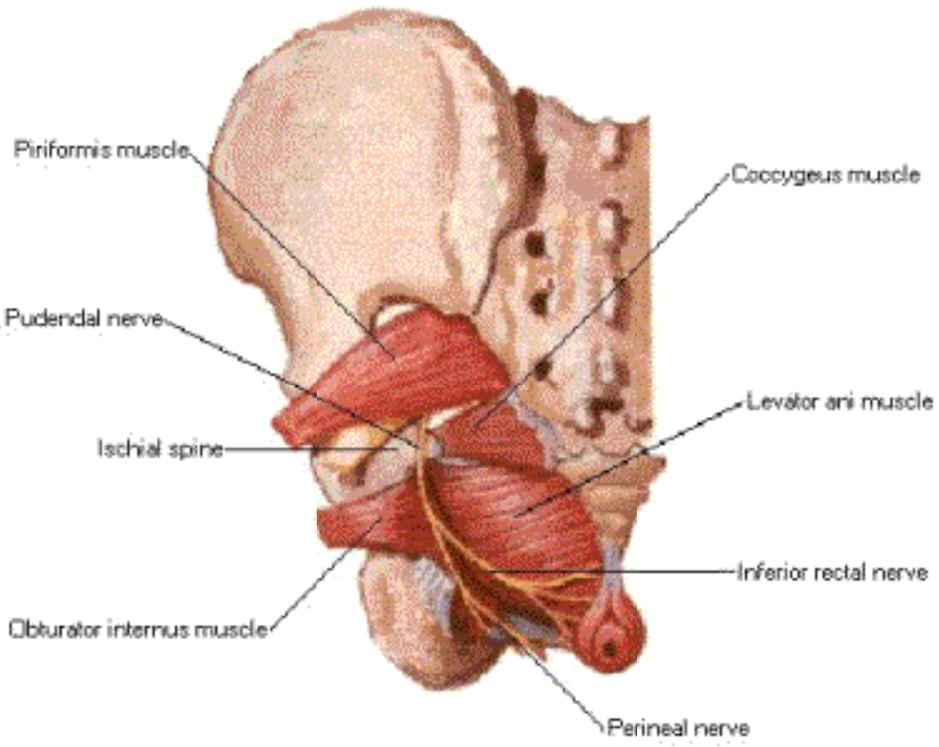
Nerves of Perineum

Male - Perineal View



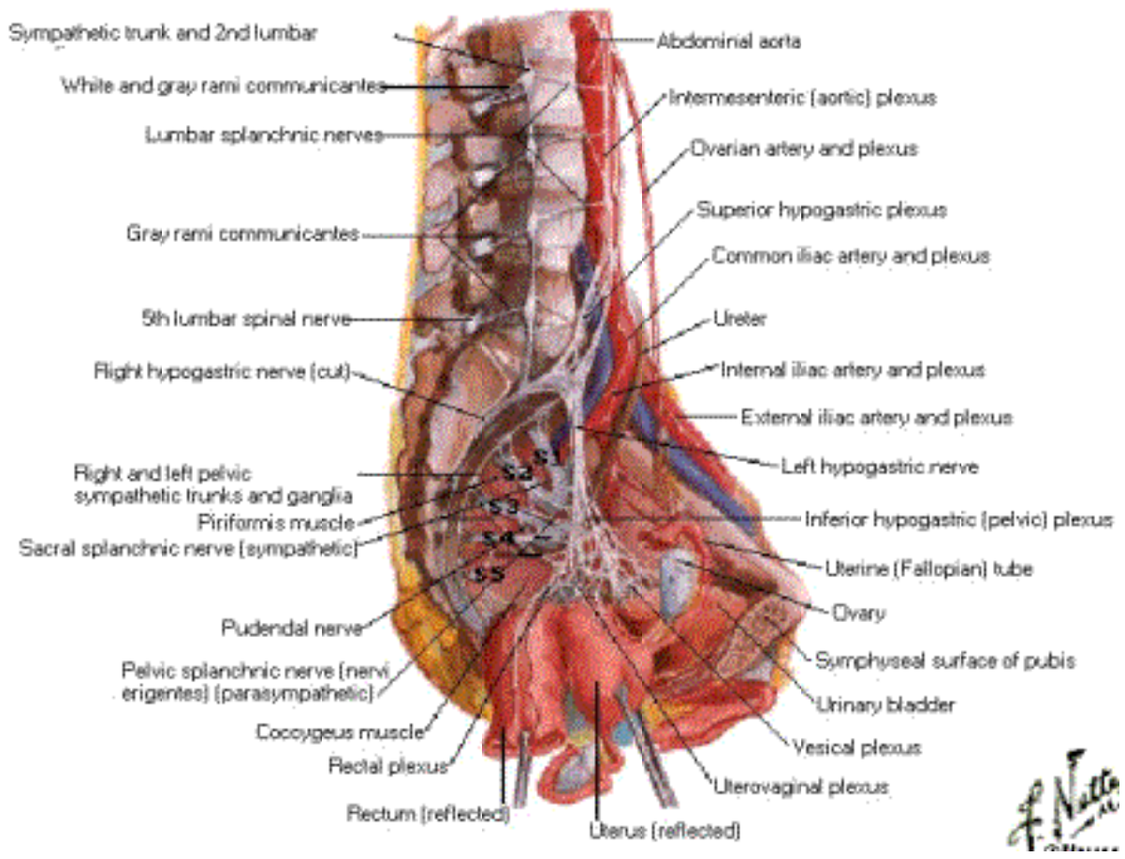
Nerves of Perineum

Male - Inferior View



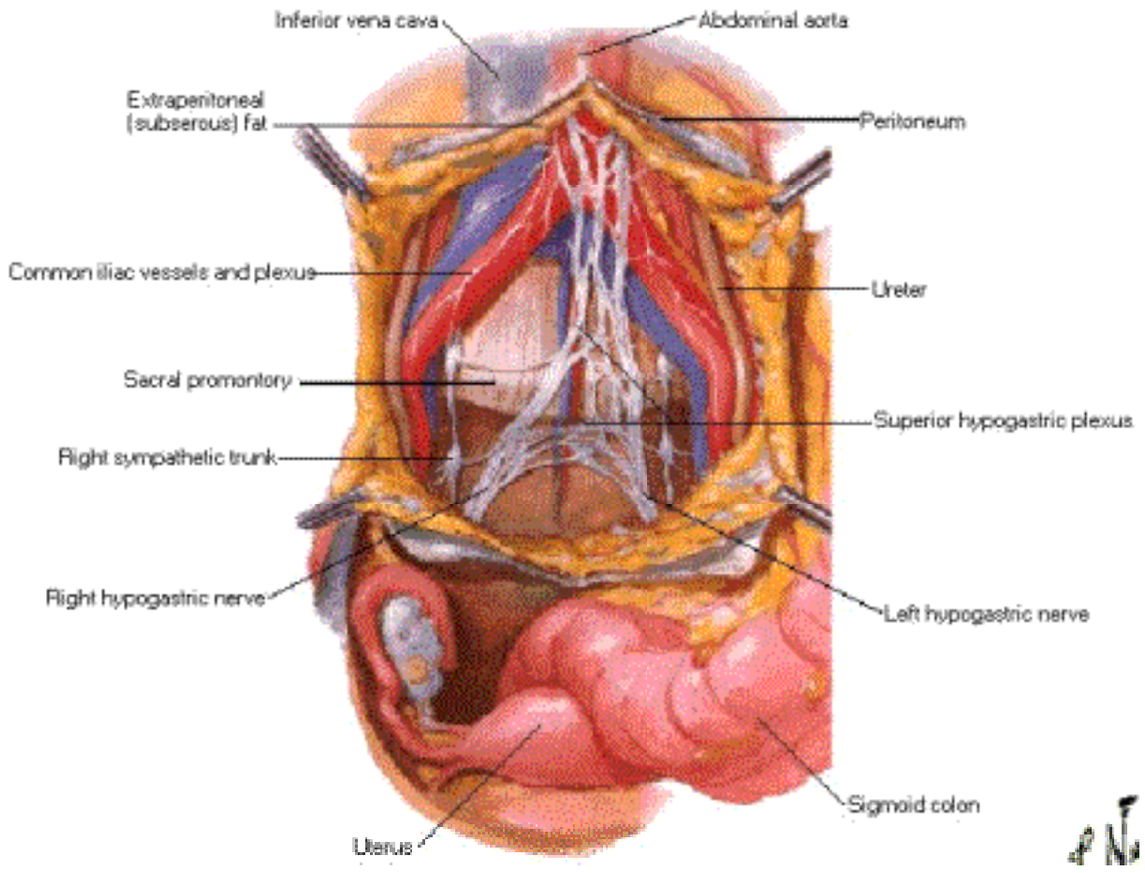
Nerves of Pelvic Viscera

Female - Sagittal Section



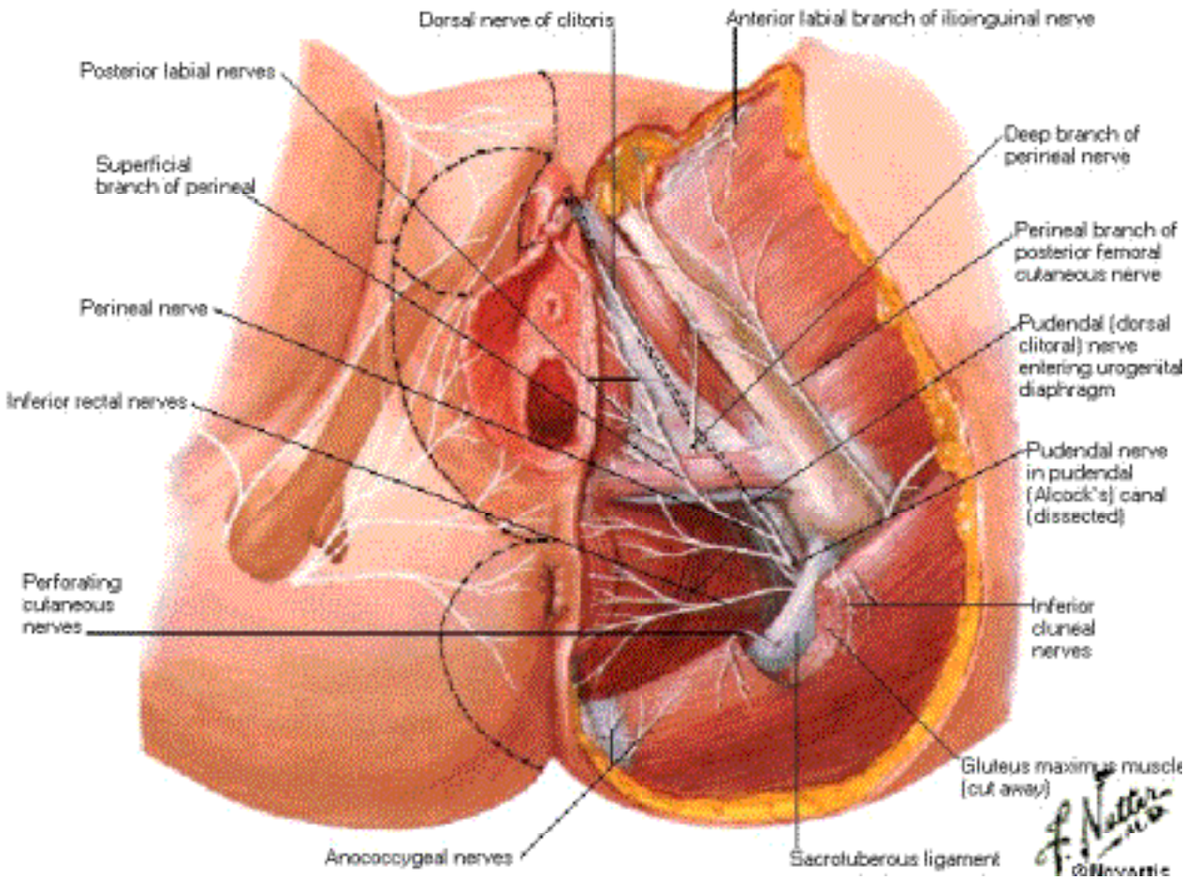
Nerves of Pelvic Viscera

Female - Superior View



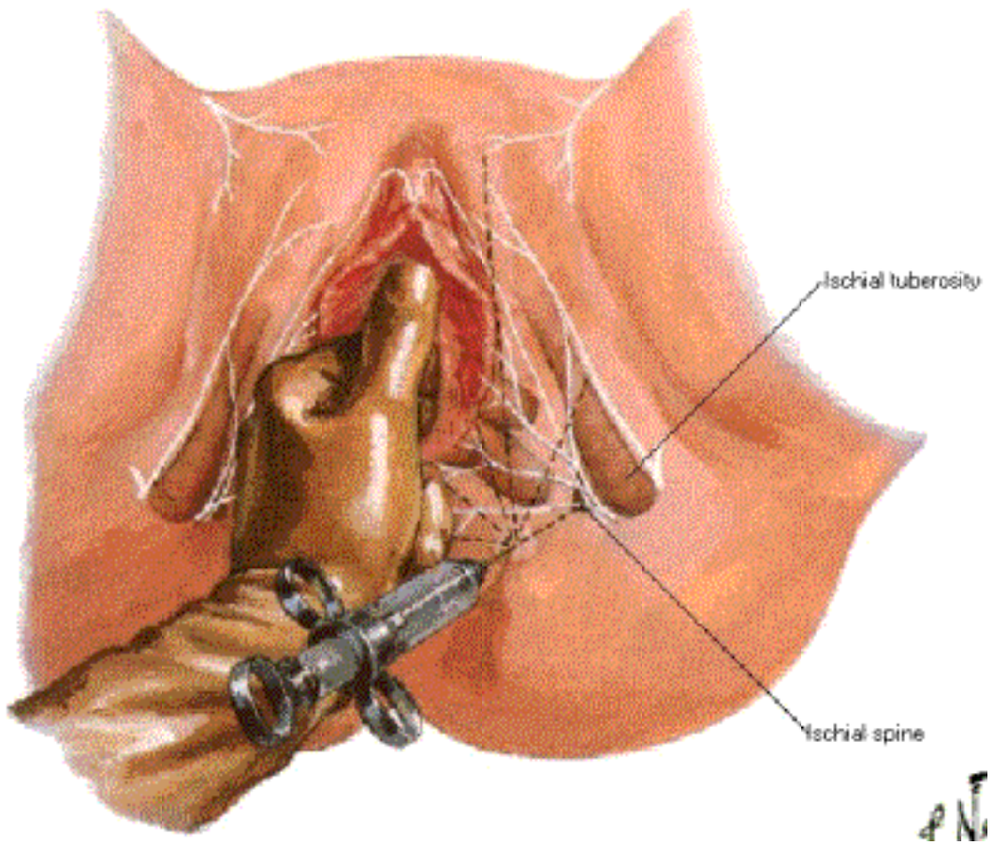
Nerves of Perineum and External Genitalia

Female

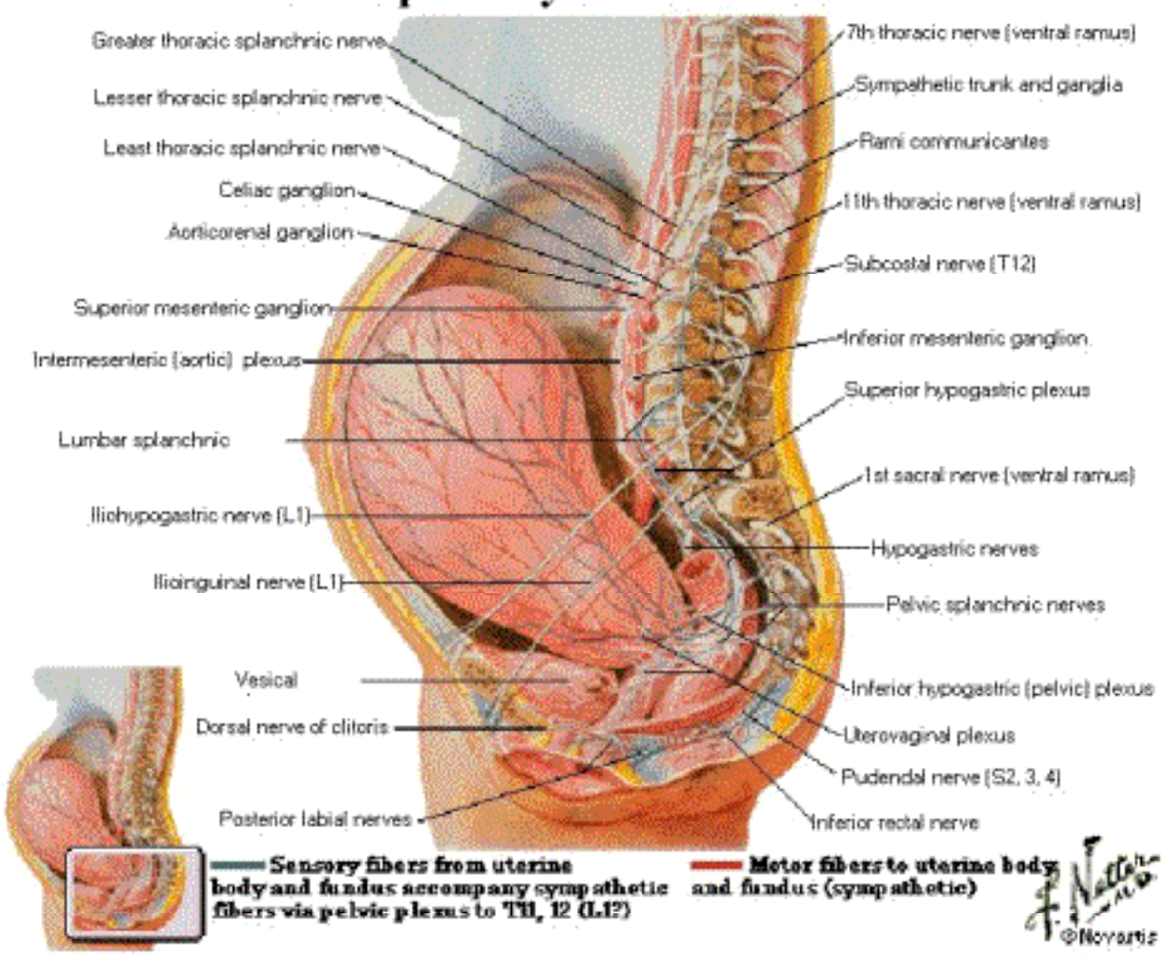


Block Anesthesia of Perineal Area

Primarily Pudendal Nerve

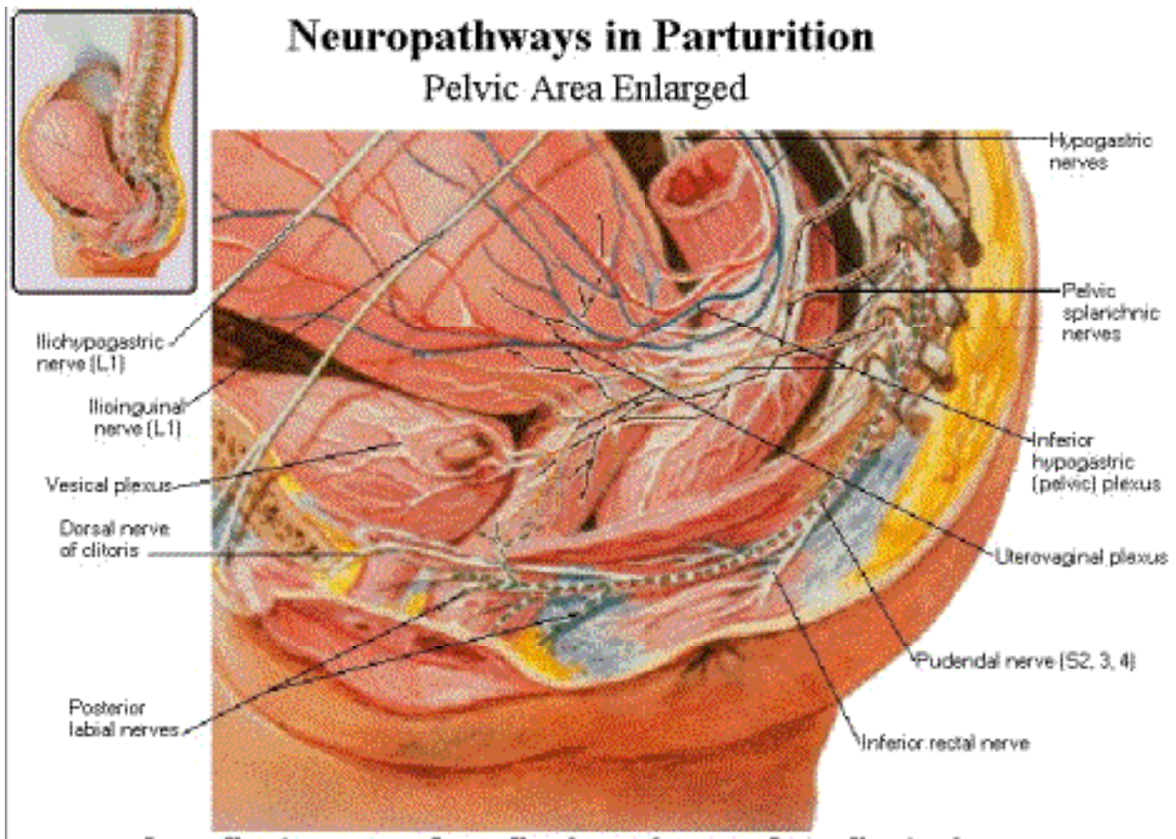


Neuropathways in Parturition



Neuropathways in Parturition

Pelvic Area Enlarged



Sensory fibers from uterine body and fundus accompany sympathetic fibers via pelvic plexus to T11, 12 (L1?)

Motor fibers to uterine body and fundus (sympathetic)

Sensory fibers from cervix and upper vagina accompany pelvic splanchnic nerves (parasympathetic) to S2, 3, 4

Motor fibers to lower uterine segment, cervix and upper vagina (parasympathetic)

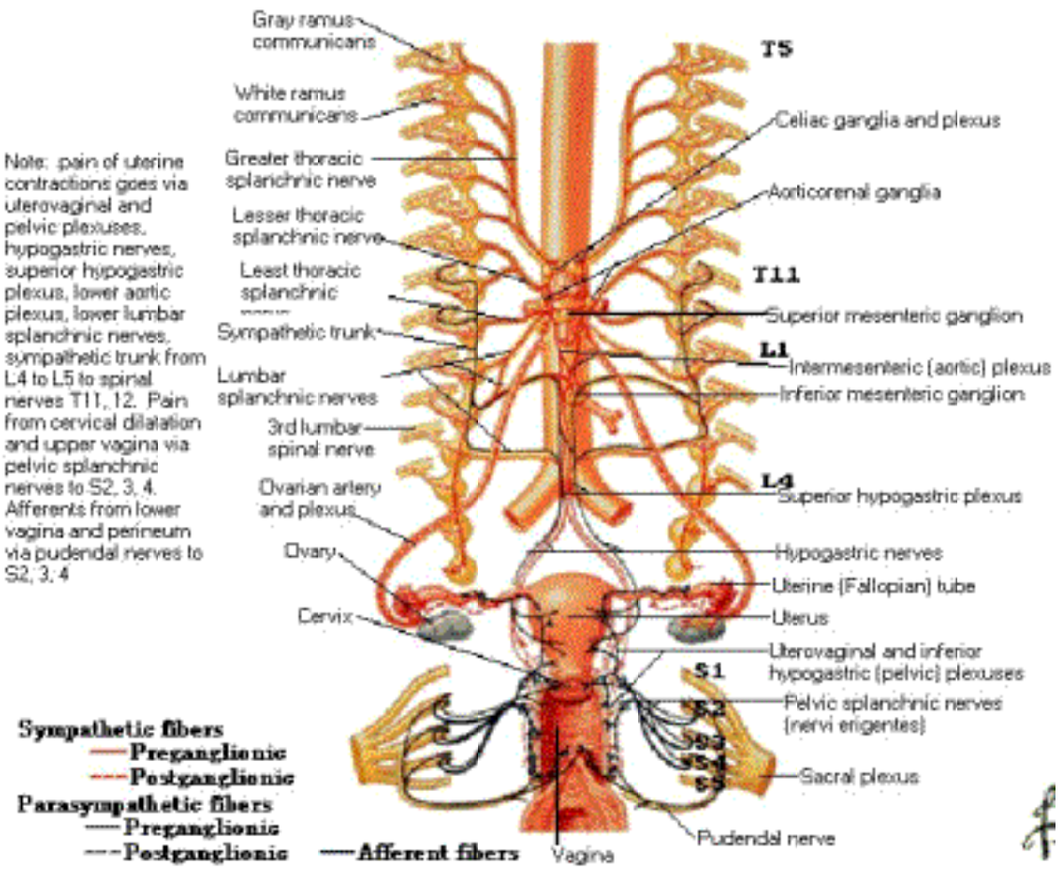
Sensory fibers from lower vagina and perineum accompany somatic fibers via pudendal nerve to S2, 3, 4

Motor fibers to lower vagina and perineum via pudendal nerve (somatic)

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Innervation of Female Reproductive Organs

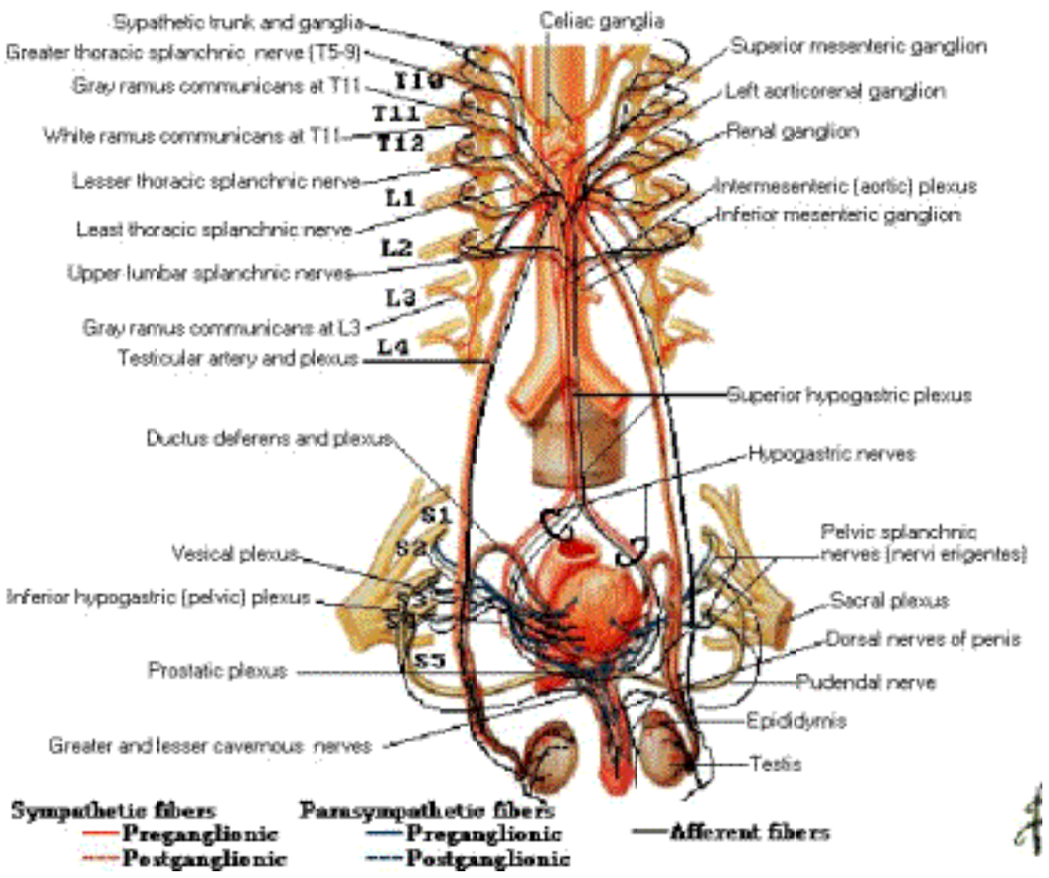
Schema



Note: pain of uterine contractions goes via uterovaginal and pelvic plexuses, hypogastric nerves, superior hypogastric plexus, lower aortic plexus, lower lumbar splanchnic nerves, sympathetic trunk from L4 to L5 to spinal nerves T11, 12. Pain from cervical dilatation and upper vagina via pelvic splanchnic nerves to S2, 3, 4. Afferents from lower vagina and perineum via pudendal nerves to S2, 3, 4

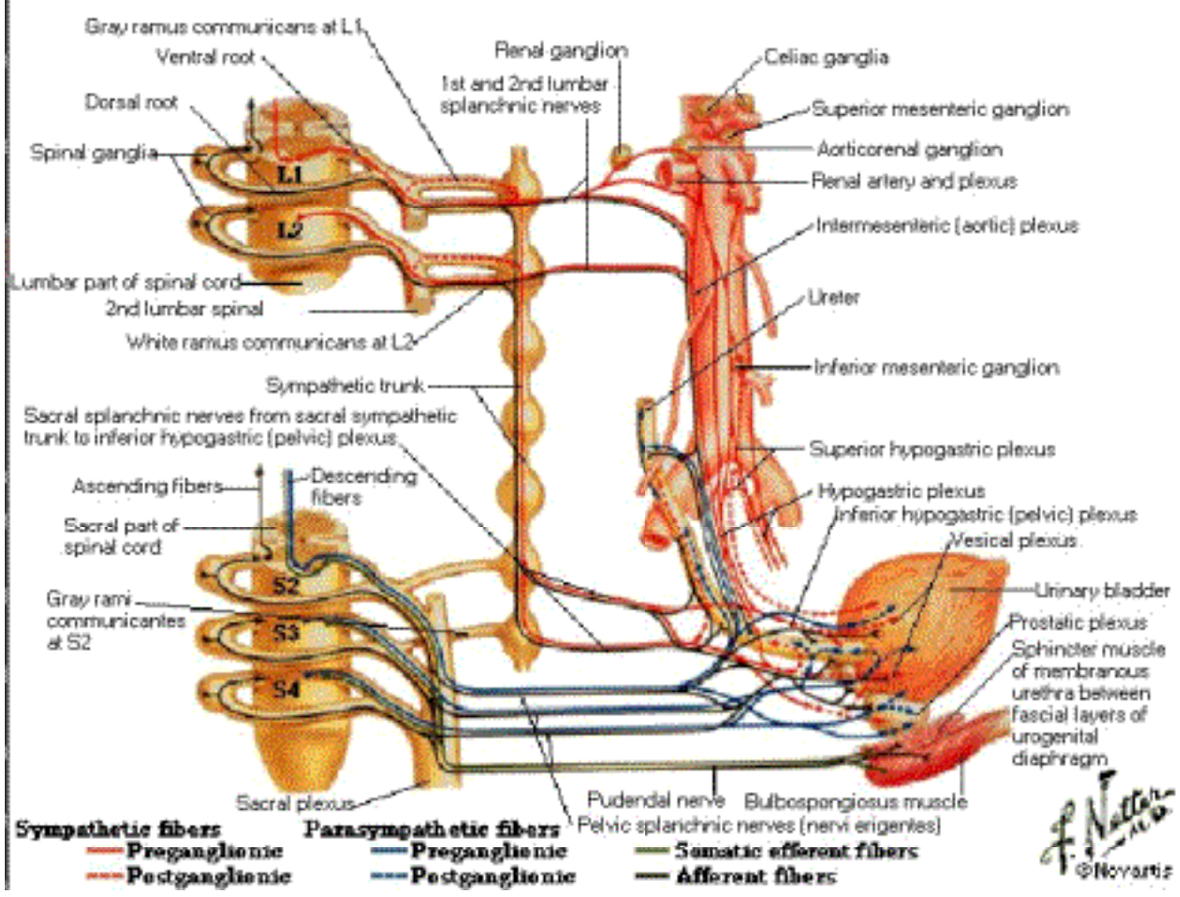
Innervation of Male Reproductive Organs

Schema



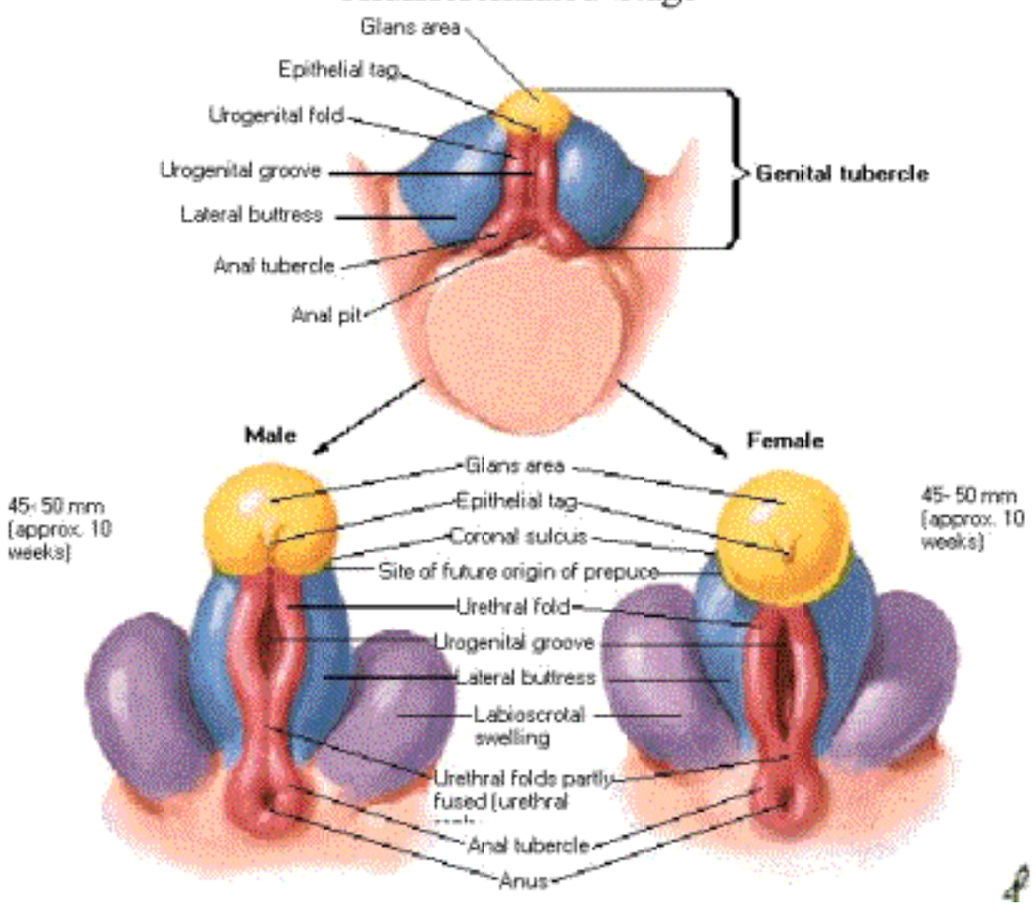
Innervation of Urinary Bladder and Lower Ureter

Schema



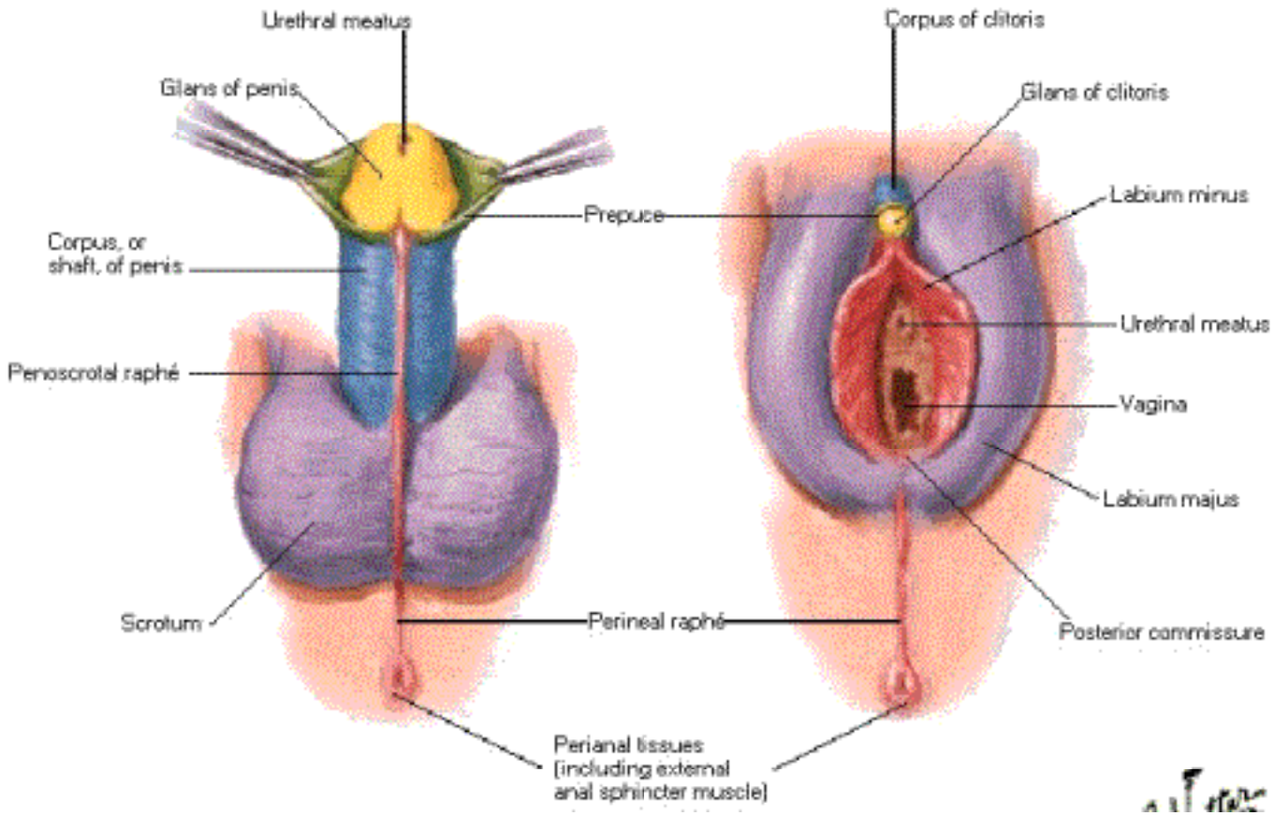
Homologues of External Genitalia

Undifferentiated Stage



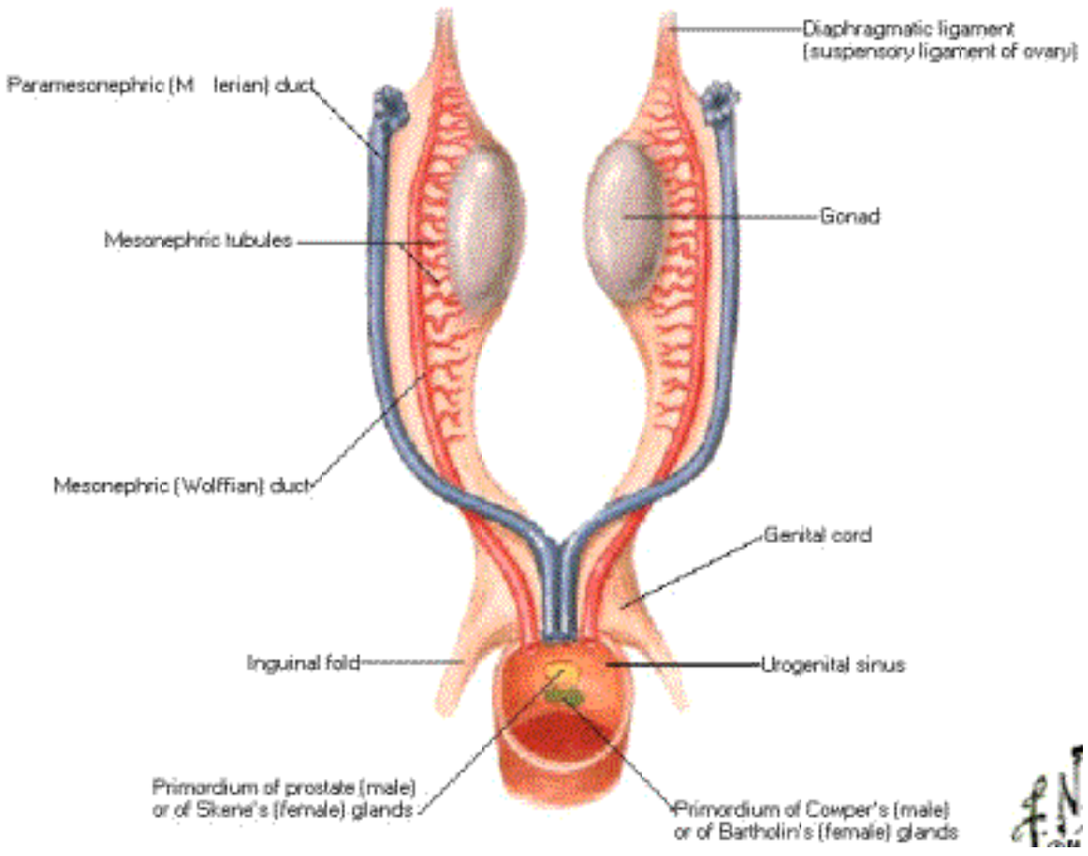
Homologues of External Genitalia

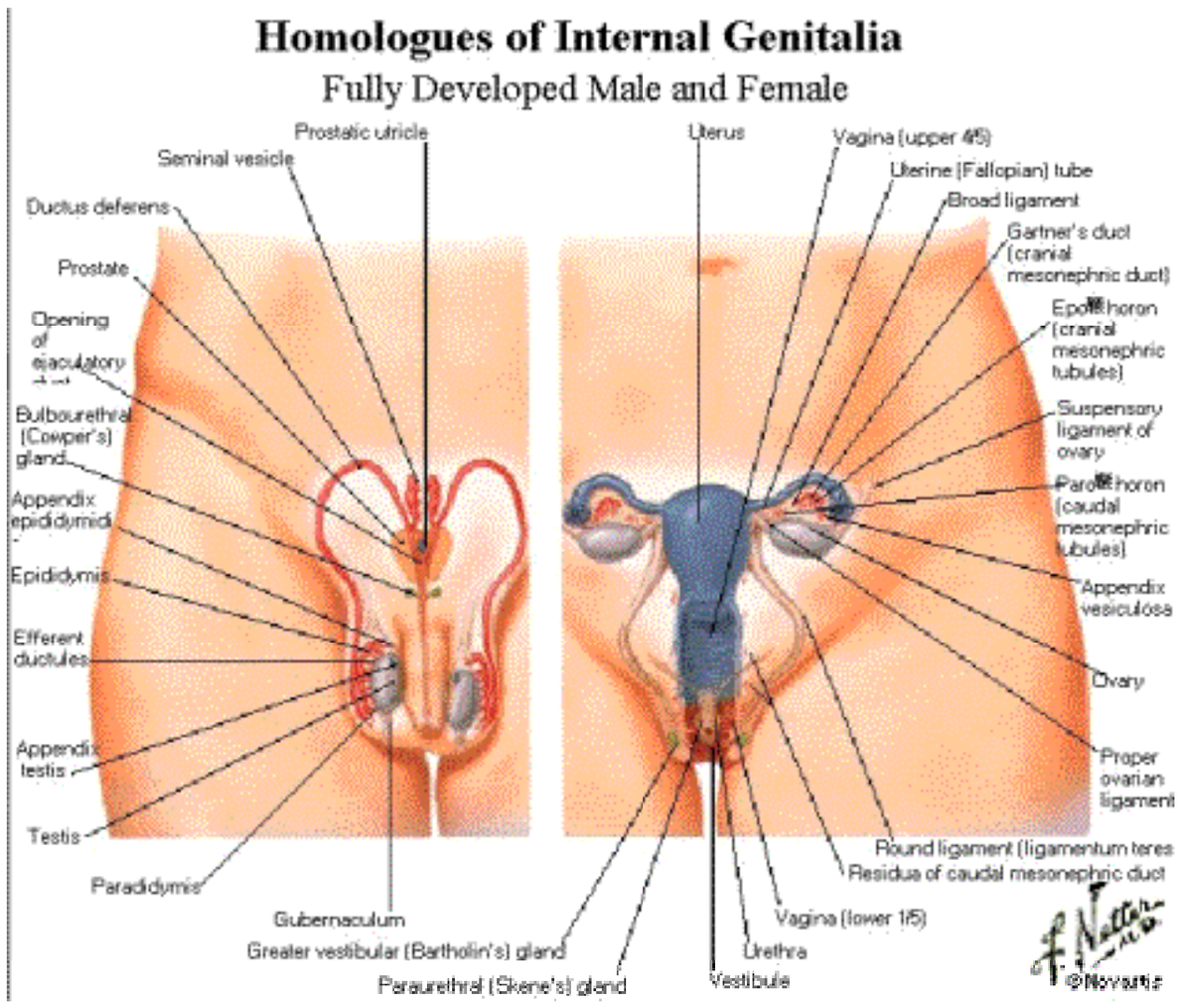
Fully Developed Male and Female



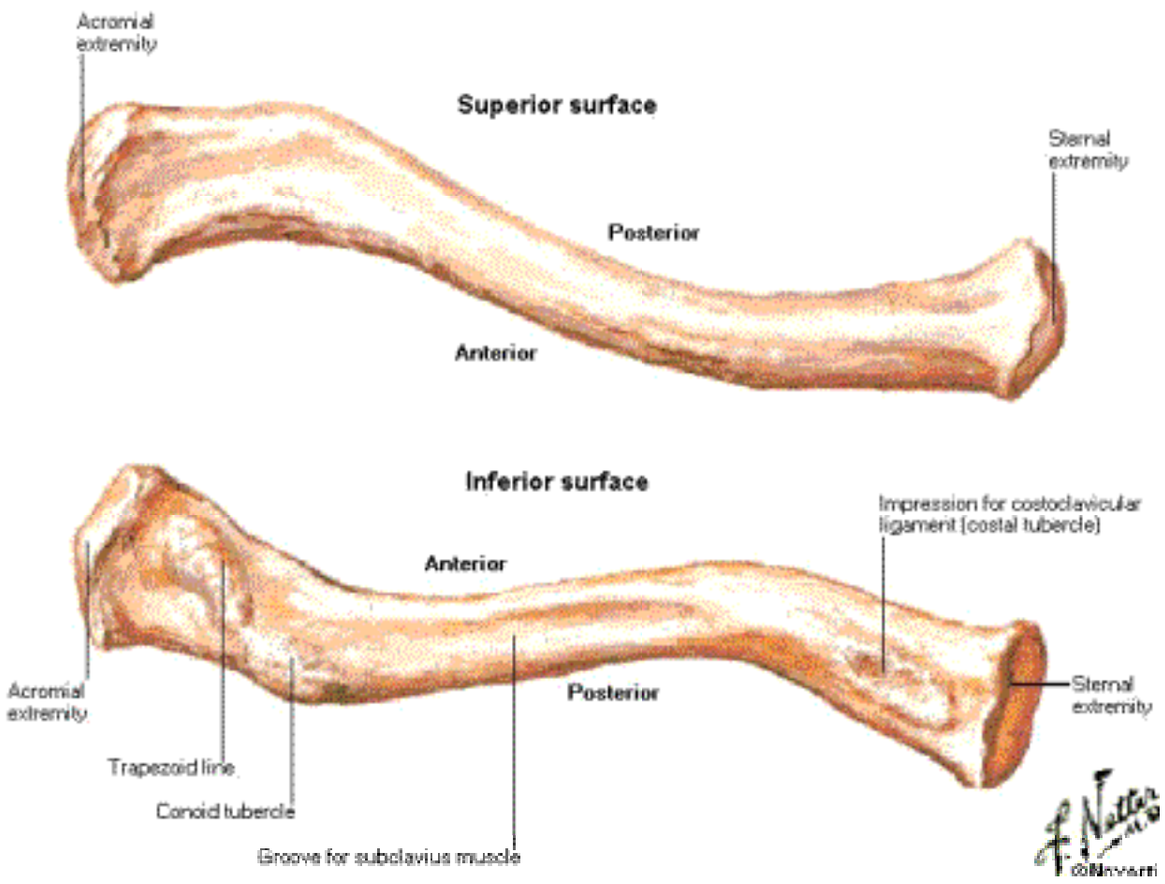
Homologues of Internal Genitalia

Undifferentiated Stage

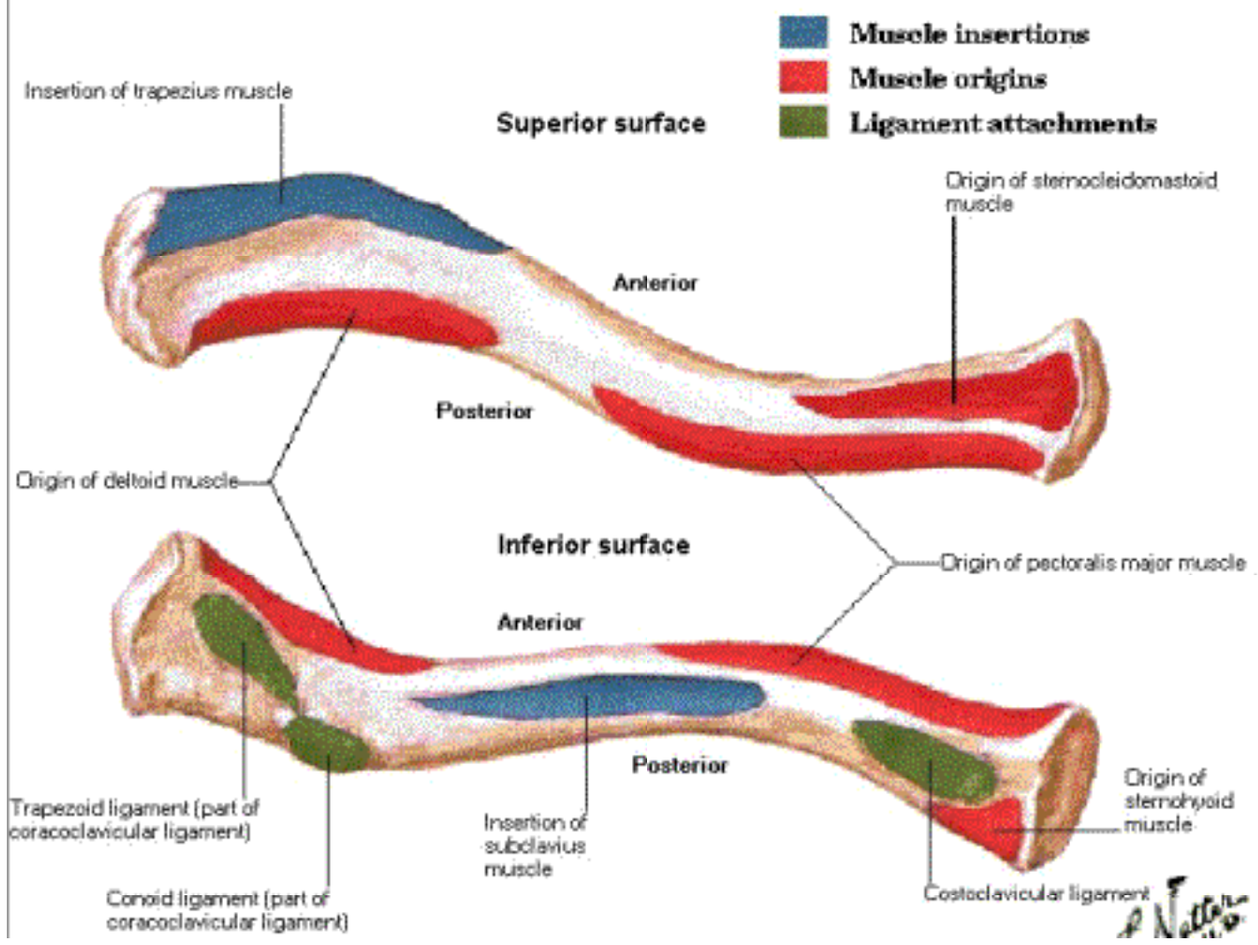



Homologues of Internal Genitalia
Fully Developed Male and Female
Prostatic utricle
Seminal vesicle
Ductus deferens
Prostate
Opening of ejaculatory duct
Bulbourethral (Cowper's) gland
Appendix epididymidis
Epididymis
Efferent ductules
Appendix testis
Testis
Paradidymis
Gubernaculum
Greater vestibular (Bartholin's) gland
Paraurethral (Skene's) gland
Uterus
Vagina (upper 4/5)
Uterine (Fallopian) tube
Broad ligament
Gartner's duct (cranial mesonephric duct)
Epoophoron (cranial mesonephric tubules)
Suspensory ligament of ovary
Paroophoron (caudal mesonephric tubules)
Appendix vesiculosa
Ovary
Proper ovarian ligament
Round ligament (ligamentum teres
Residua of caudal mesonephric duct
Vagina (lower 1/5)
Urethra
Vestibule
©Novartis

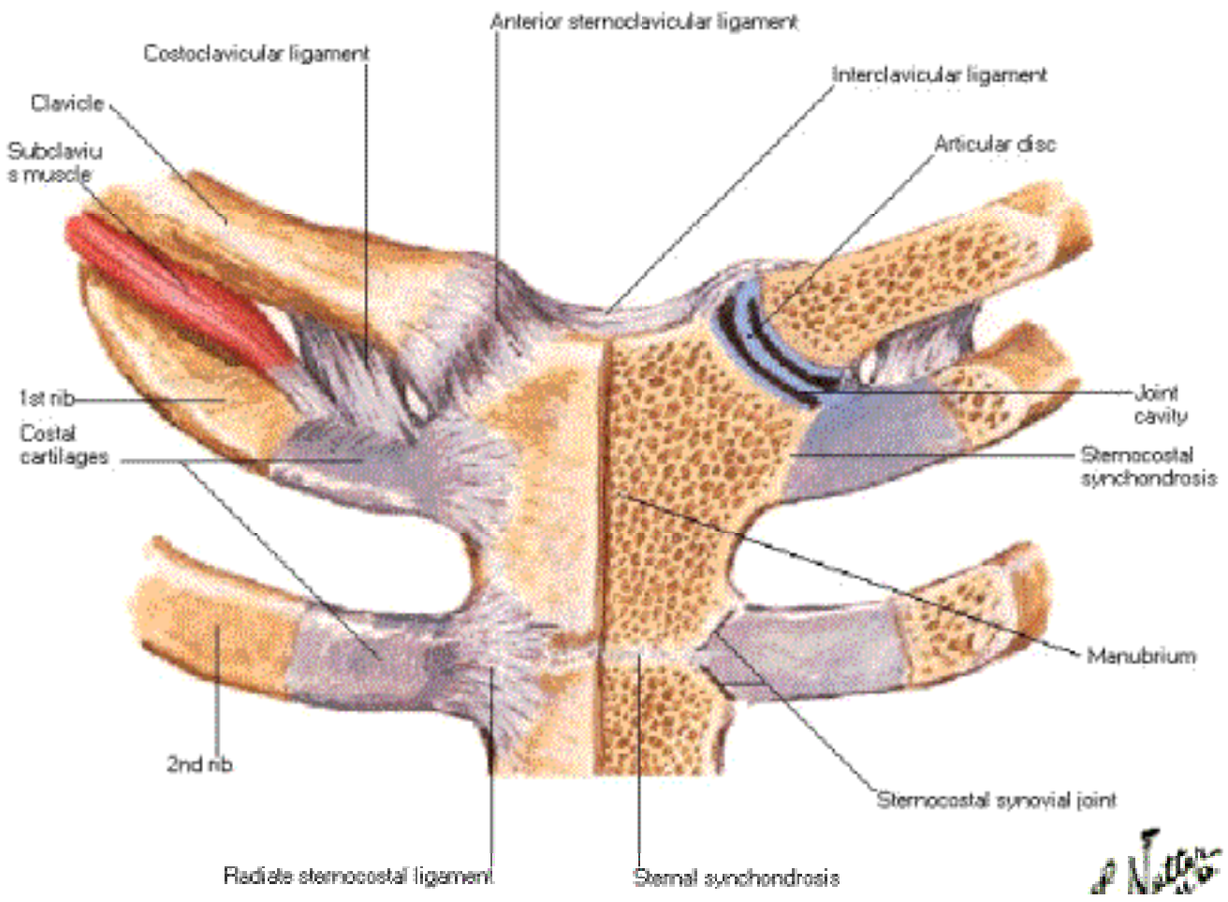
Right Clavicle - Features



Right Clavicle - Muscle Attachments

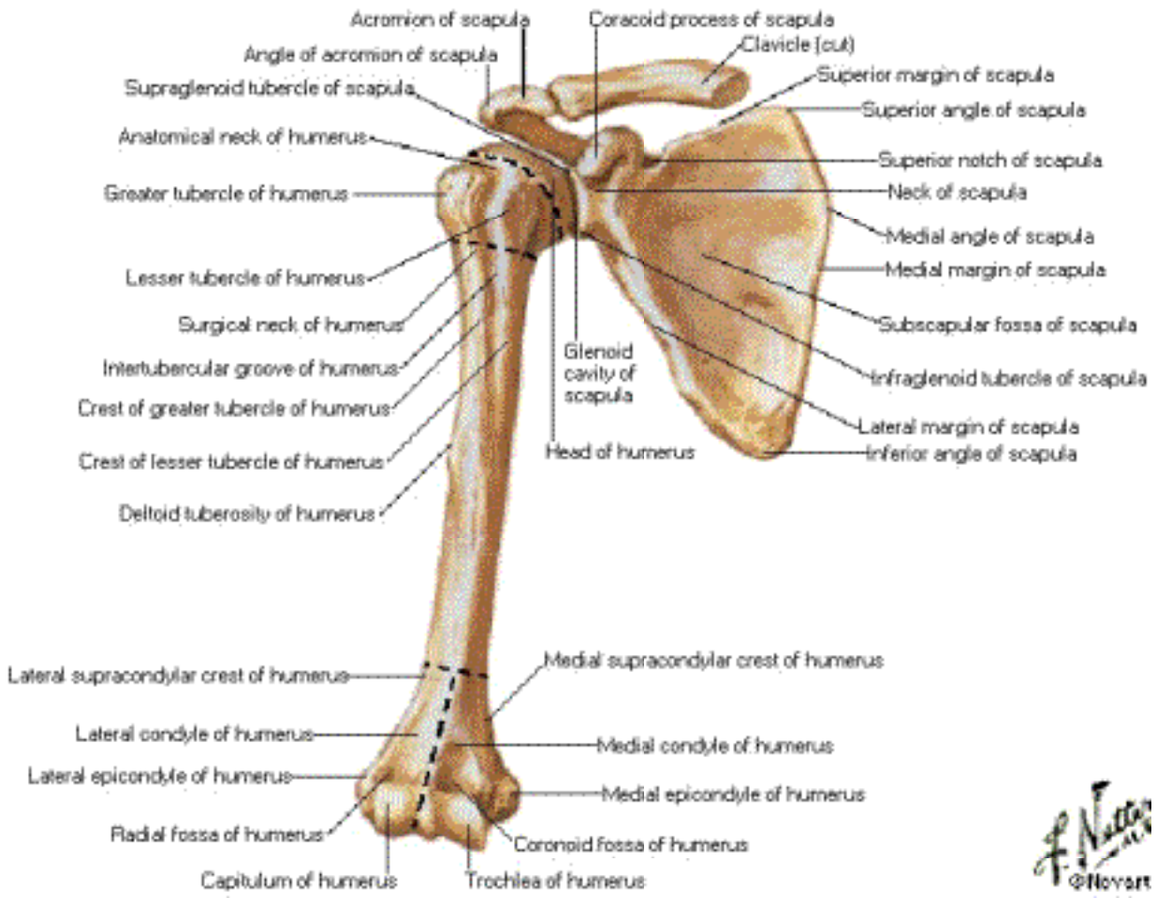


Sternoclavicular Joint



Humerus and Scapula

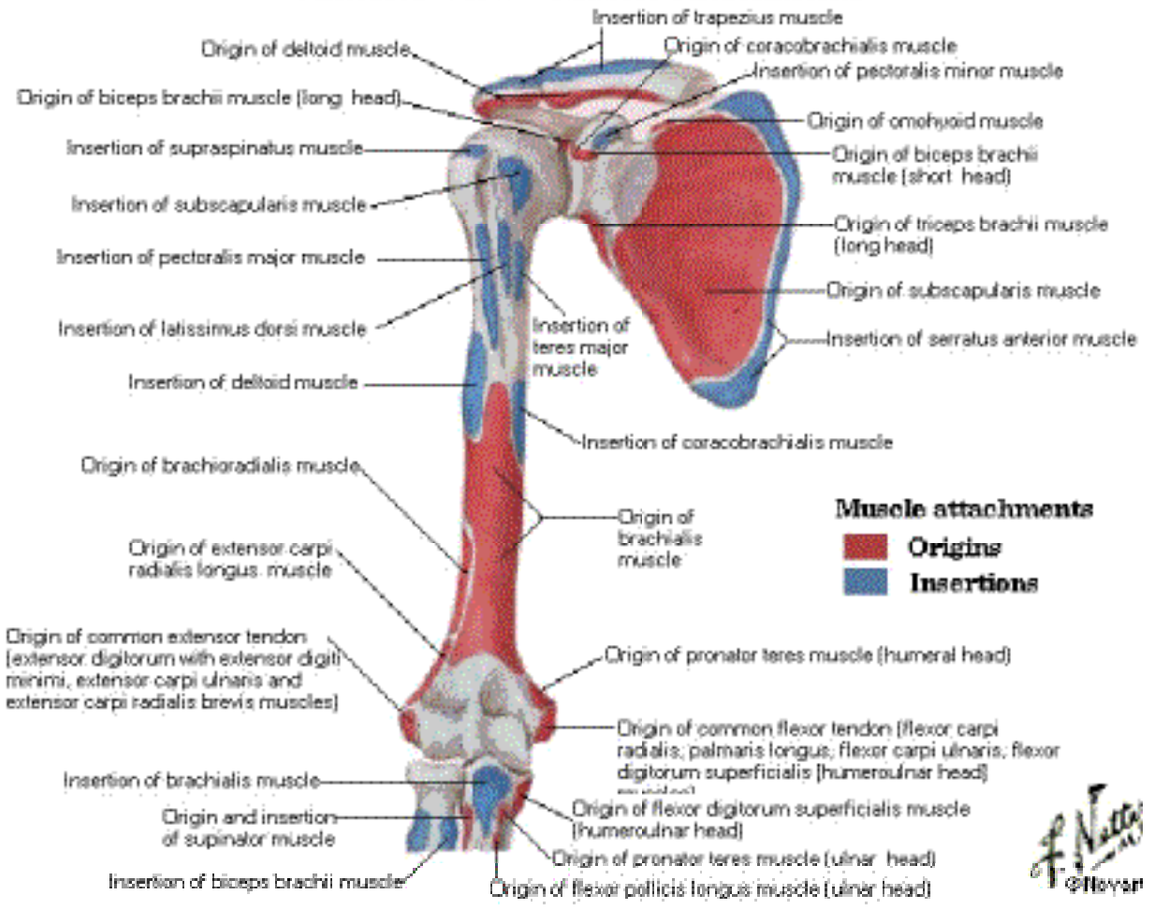
Anterior View - Features



©Novart

Humerus and Scapula

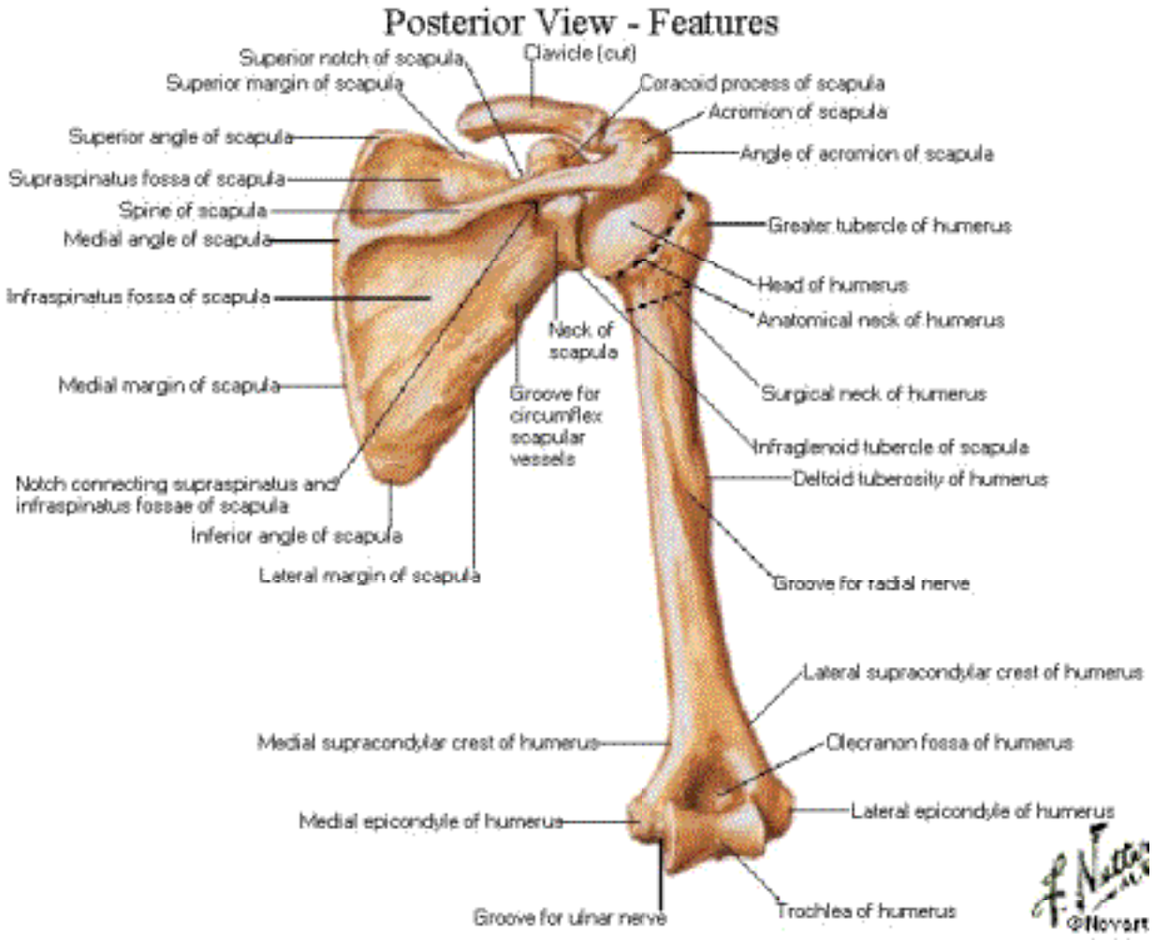
Anterior View - Muscle Attachments



©Netter

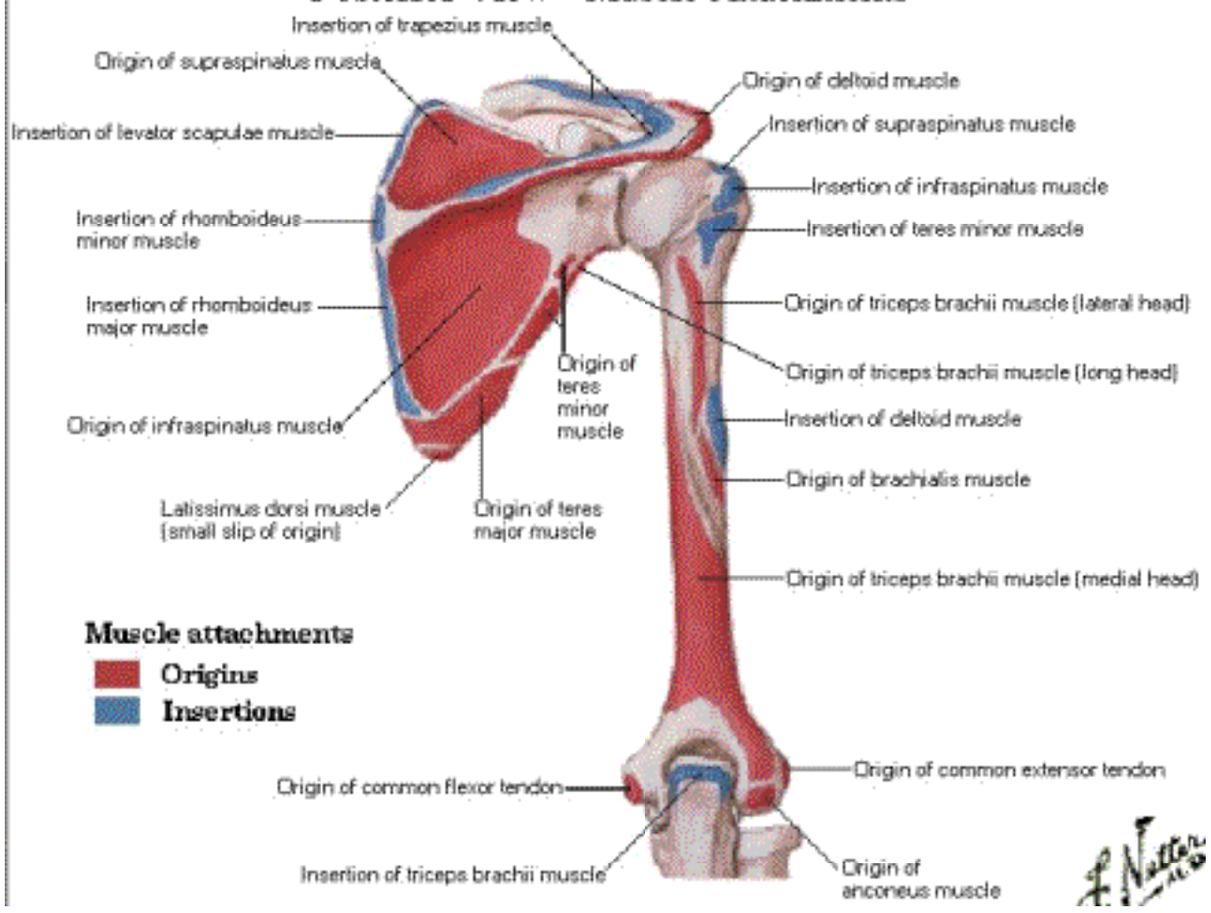
Humerus and Scapula

Posterior View - Features



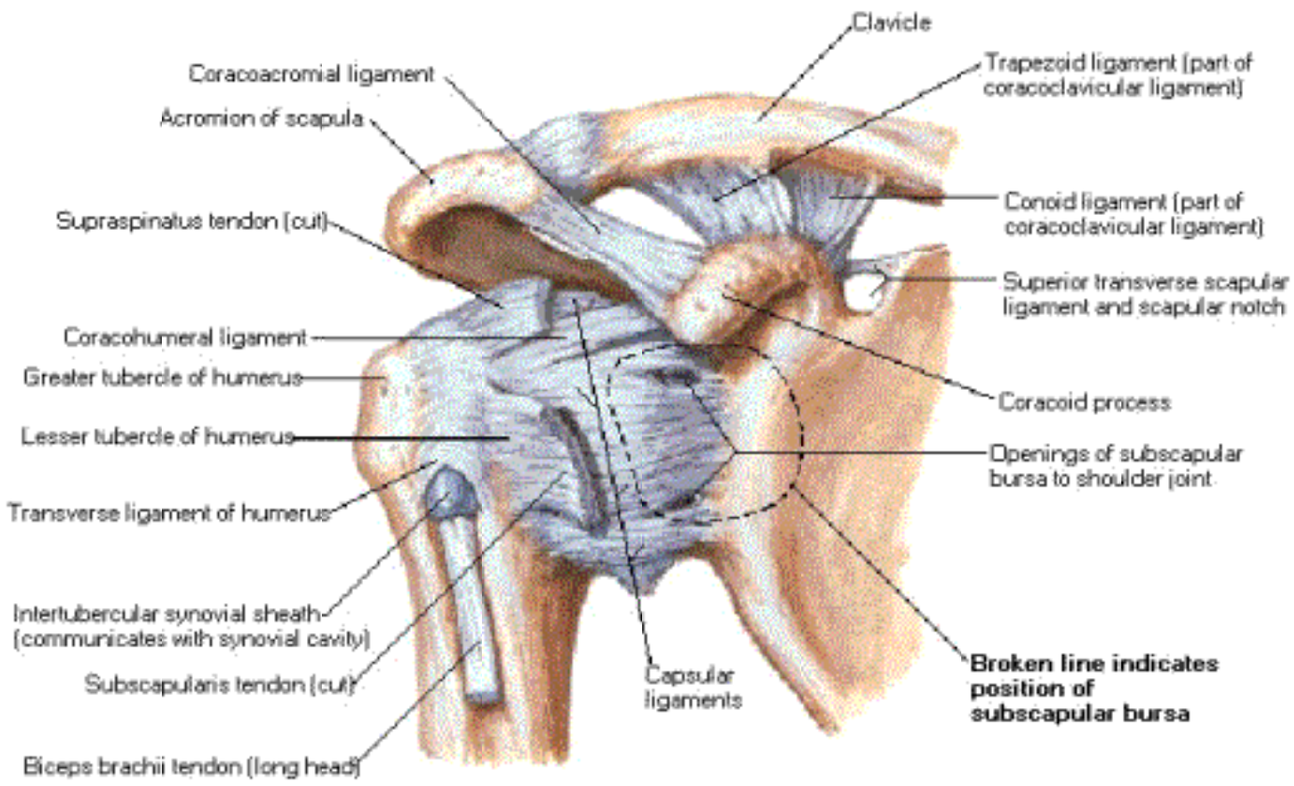
Humerus and Scapula

Posterior View - Muscle Attachments



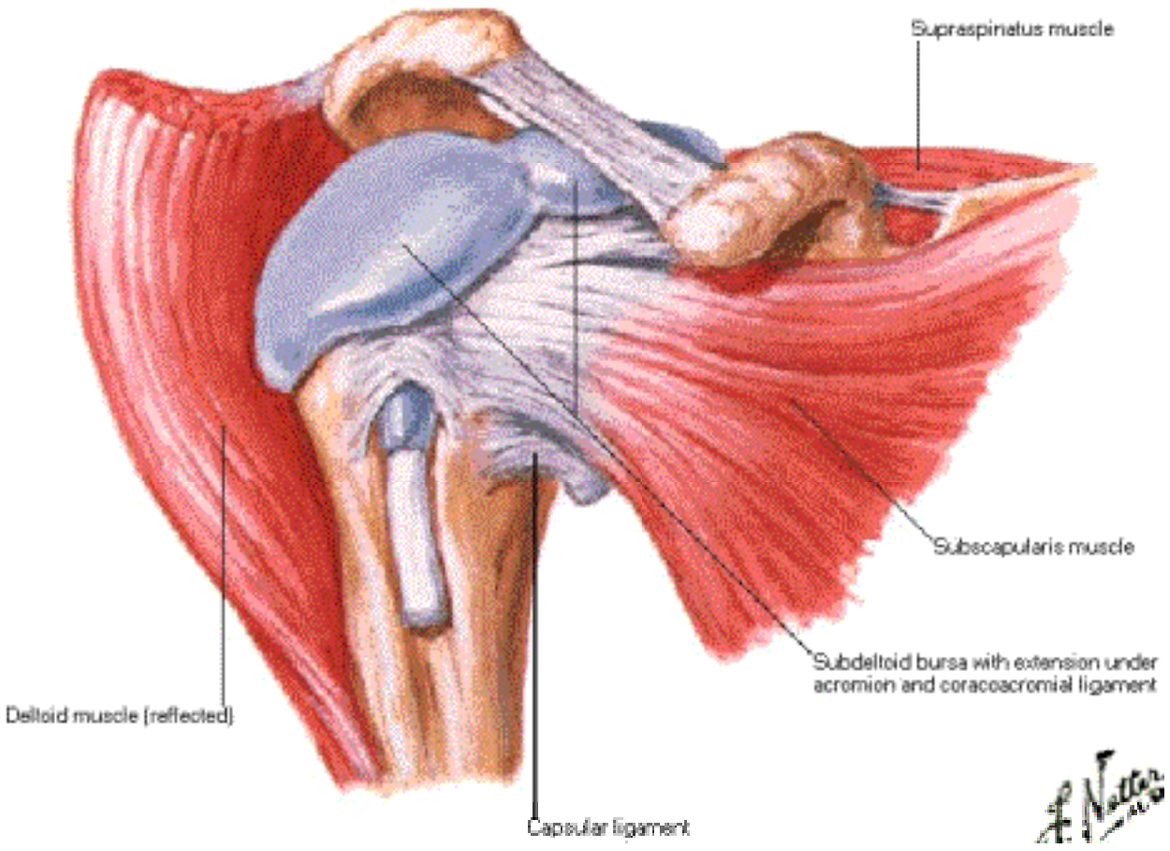
Glenohumeral Joint

Anterior View - Tendons and Ligaments



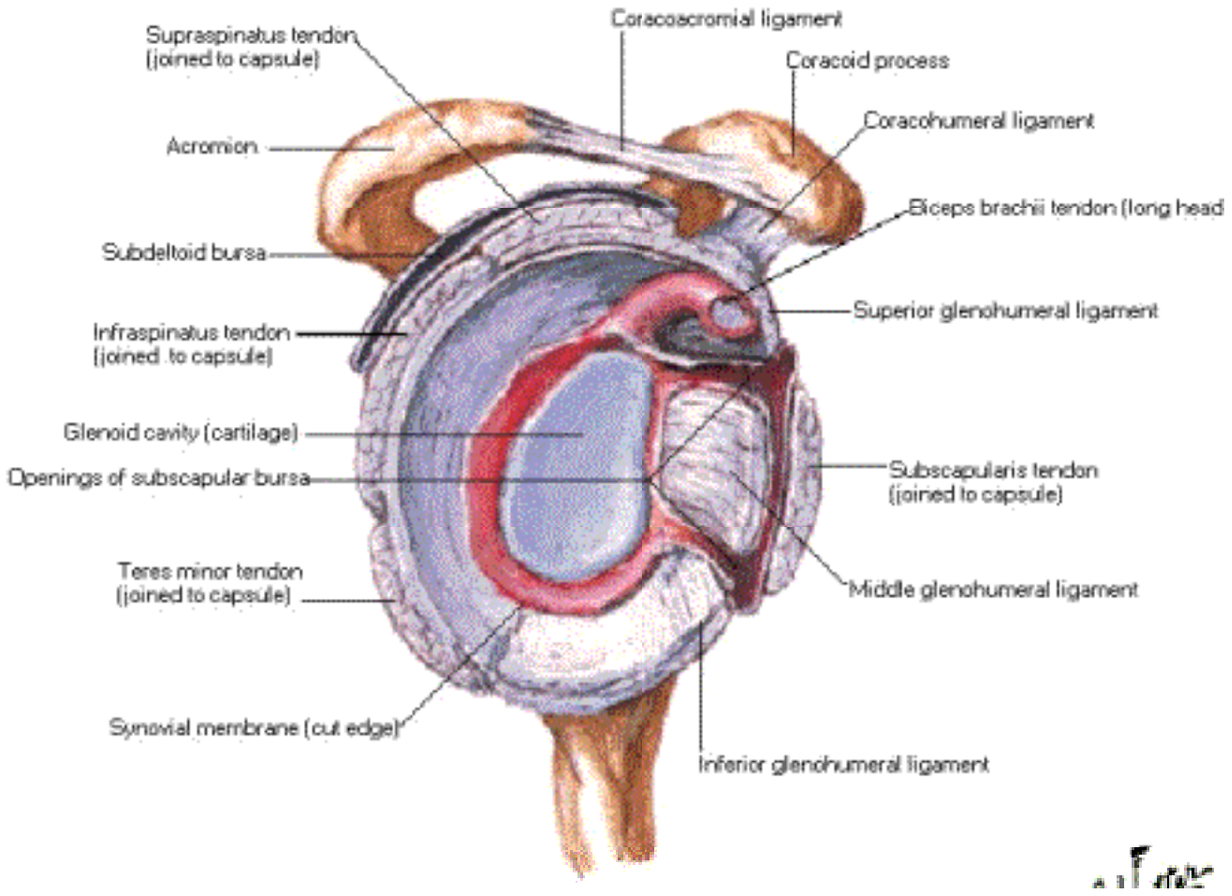
Glenohumeral Joint

Anterior View - Supporting Muscles



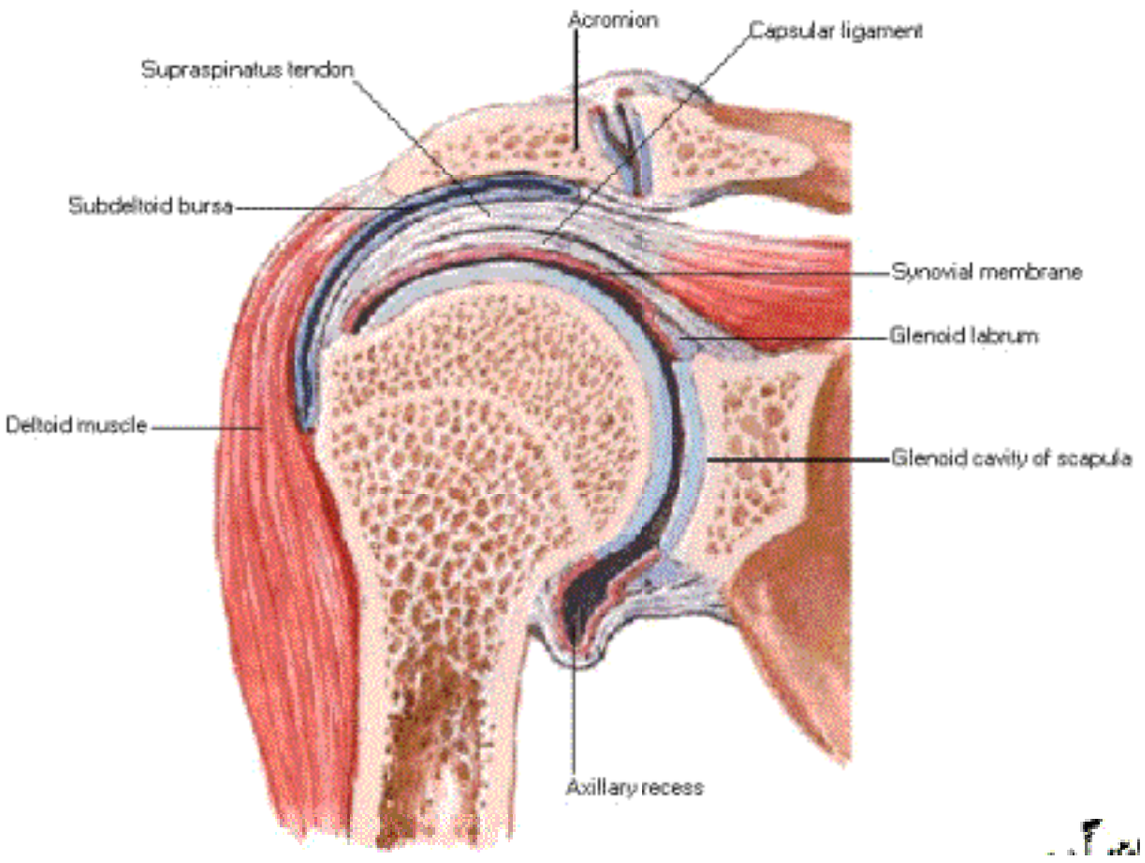
Glenohumeral Joint [Opened]

Lateral View



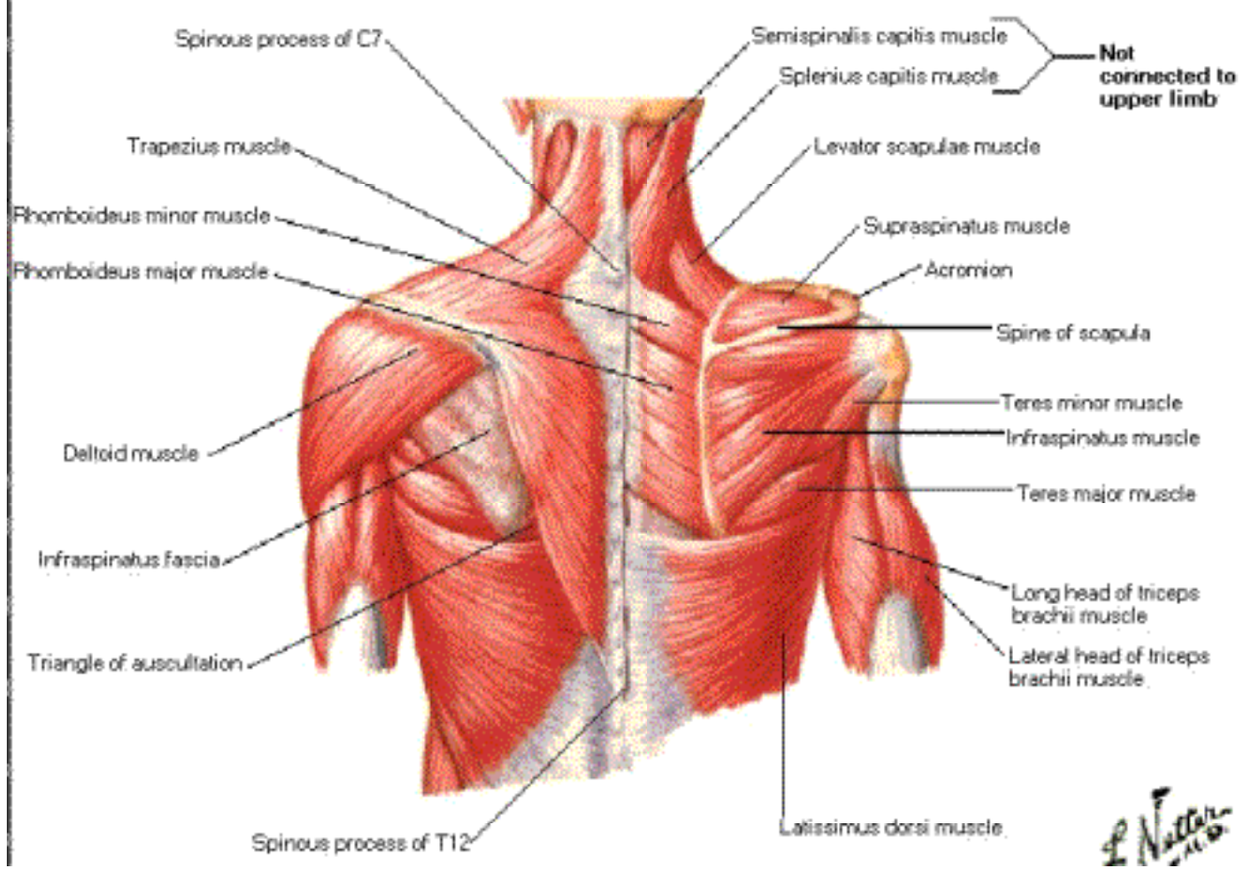
Glenohumeral Joint

Coronal Section through Joint



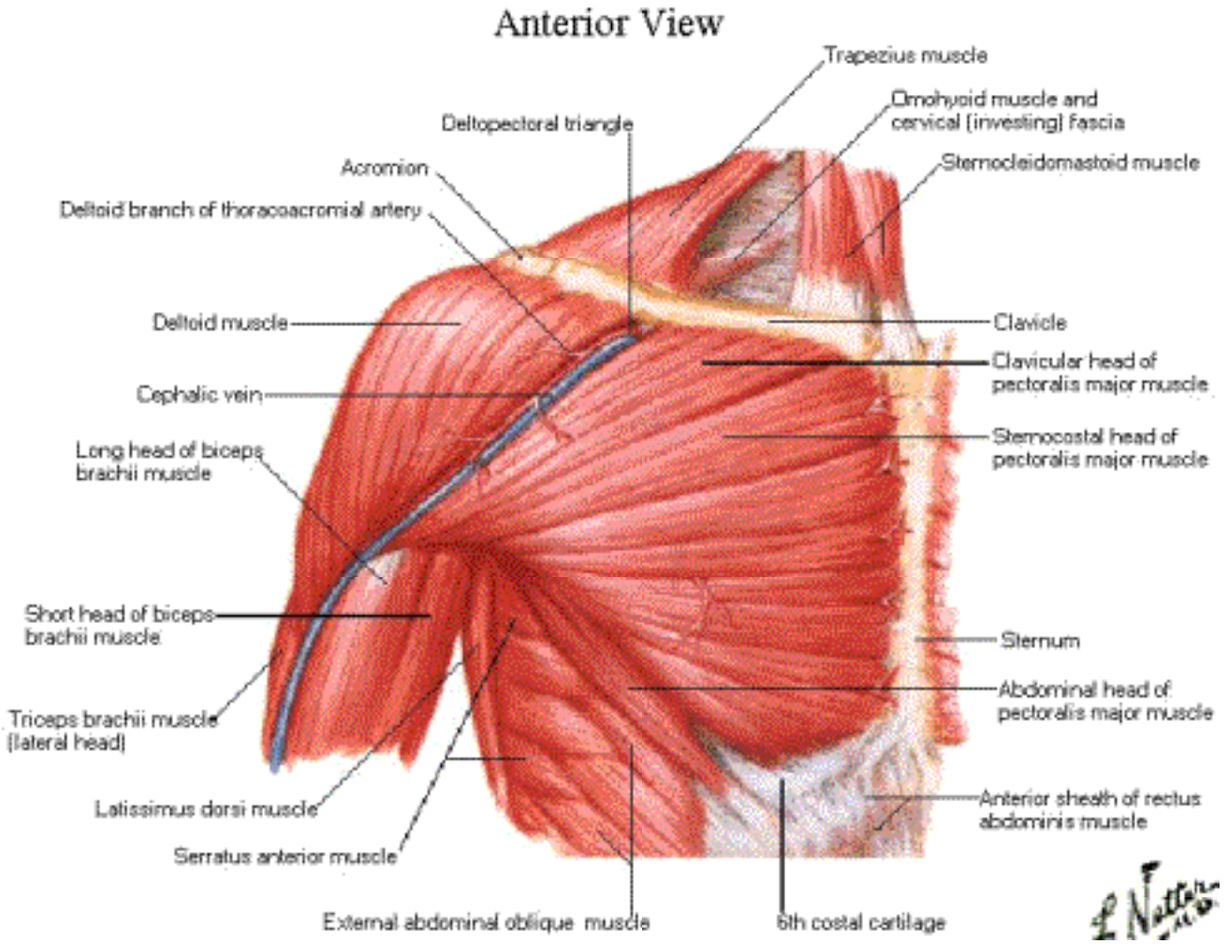
Muscles of Shoulder

Posterior View



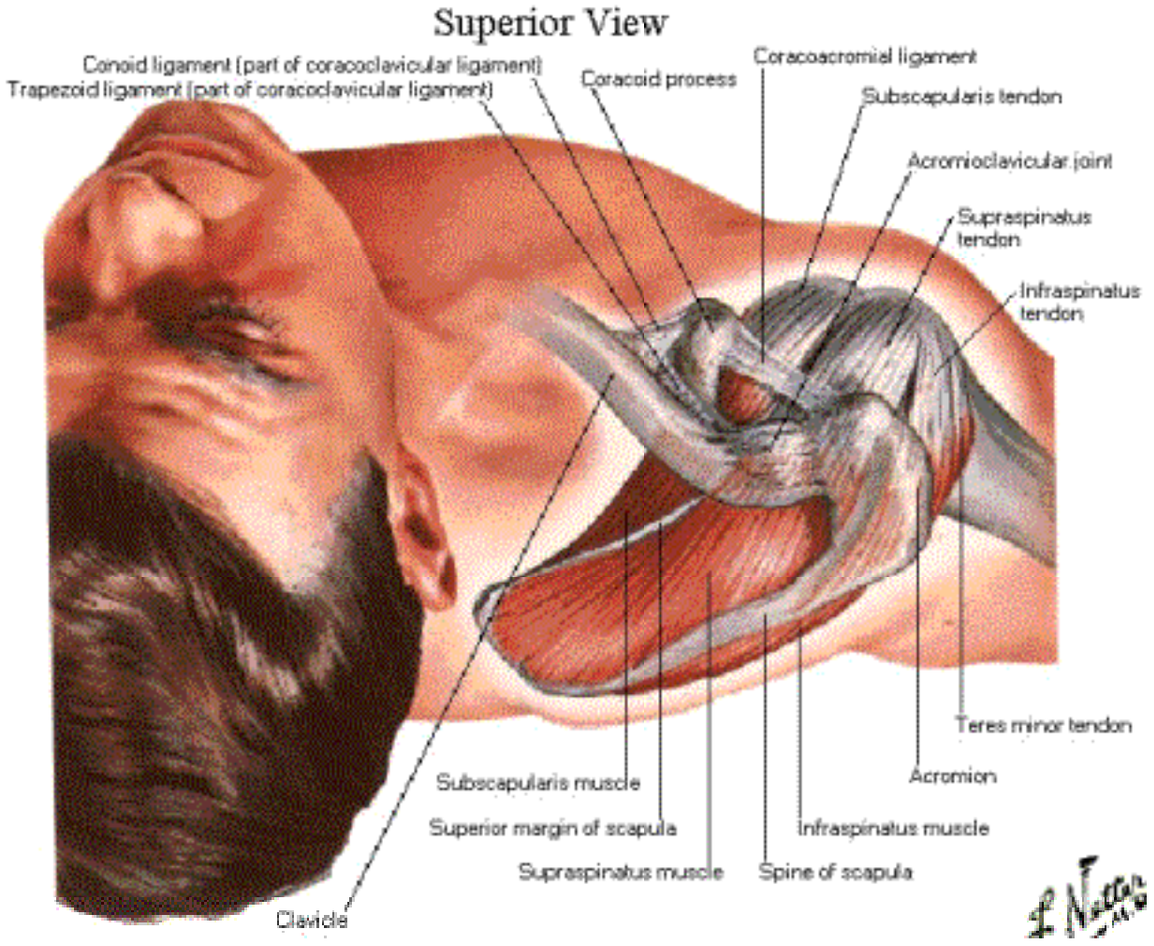
Muscles of Shoulder

Anterior View



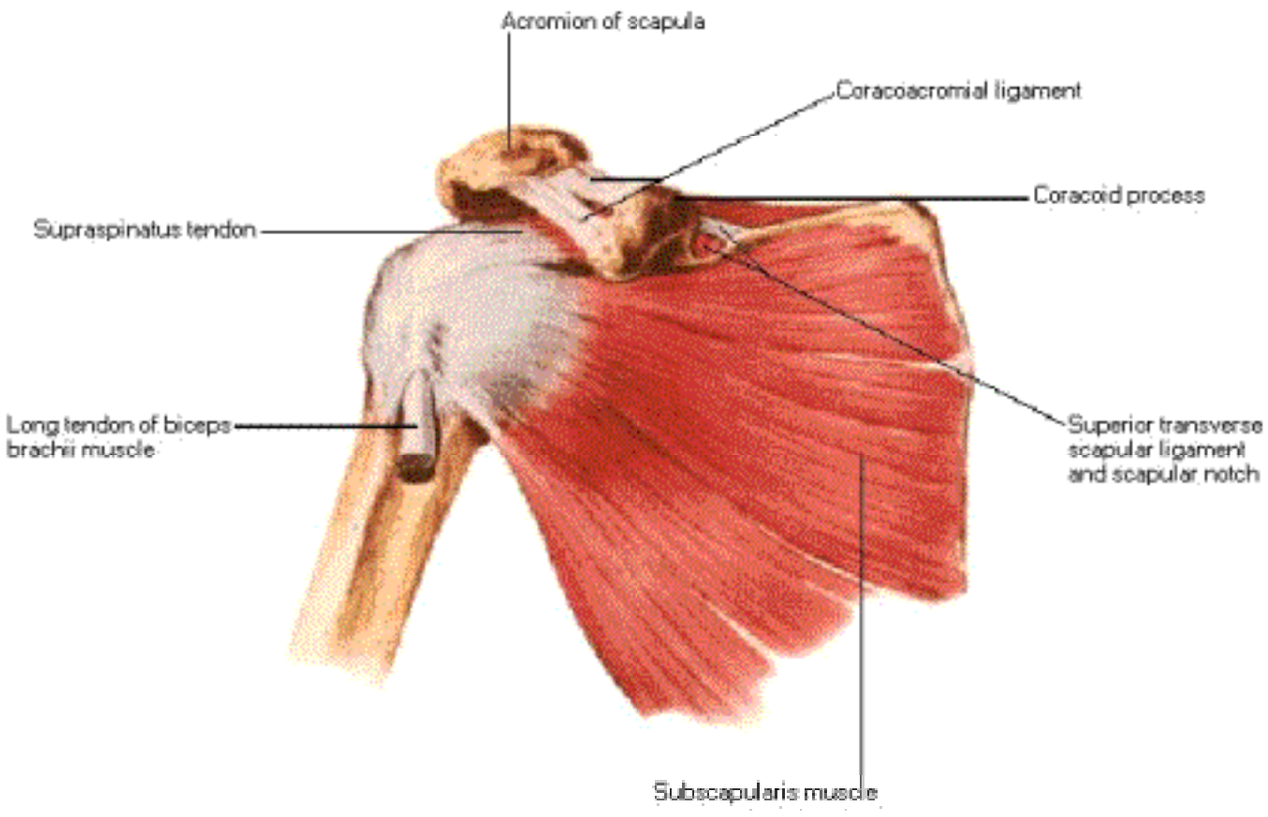
Muscles of Rotator Cuff

Superior View



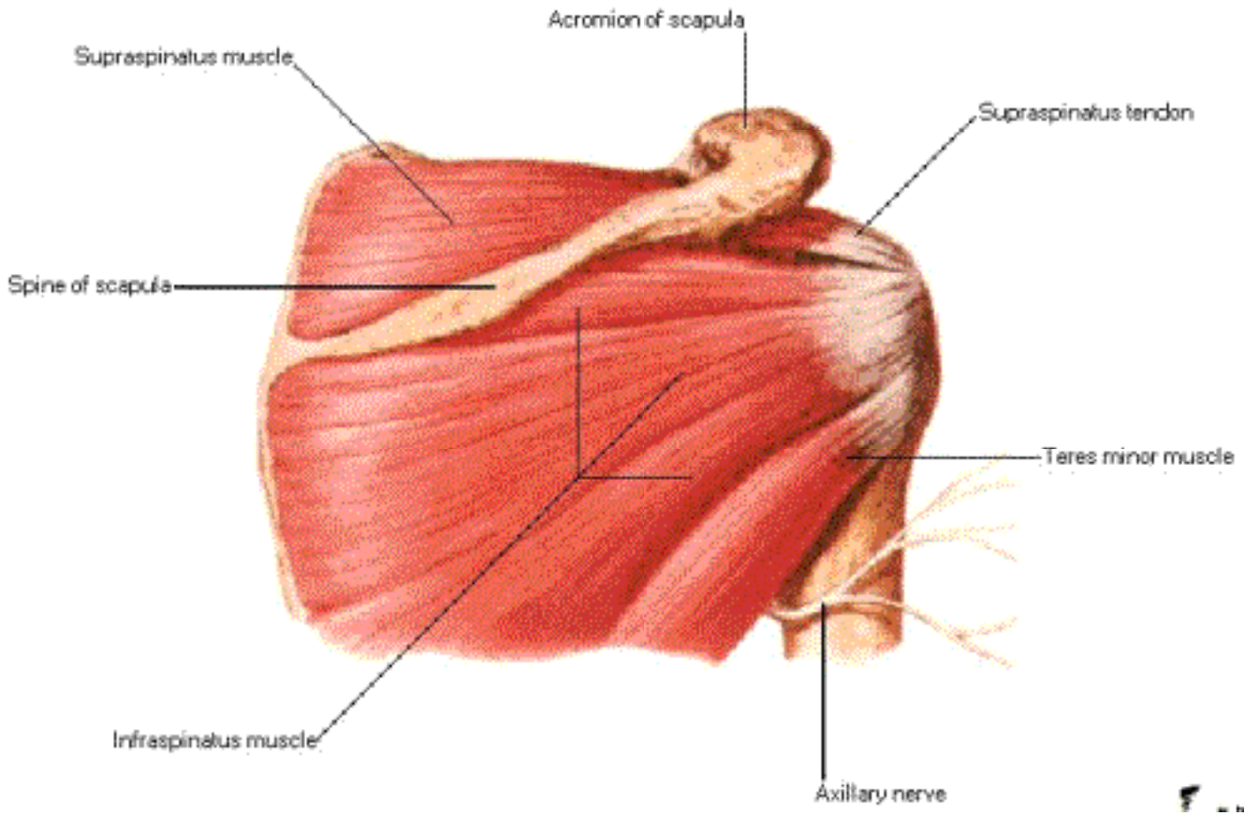
Muscles of Rotator Cuff

Anterior View



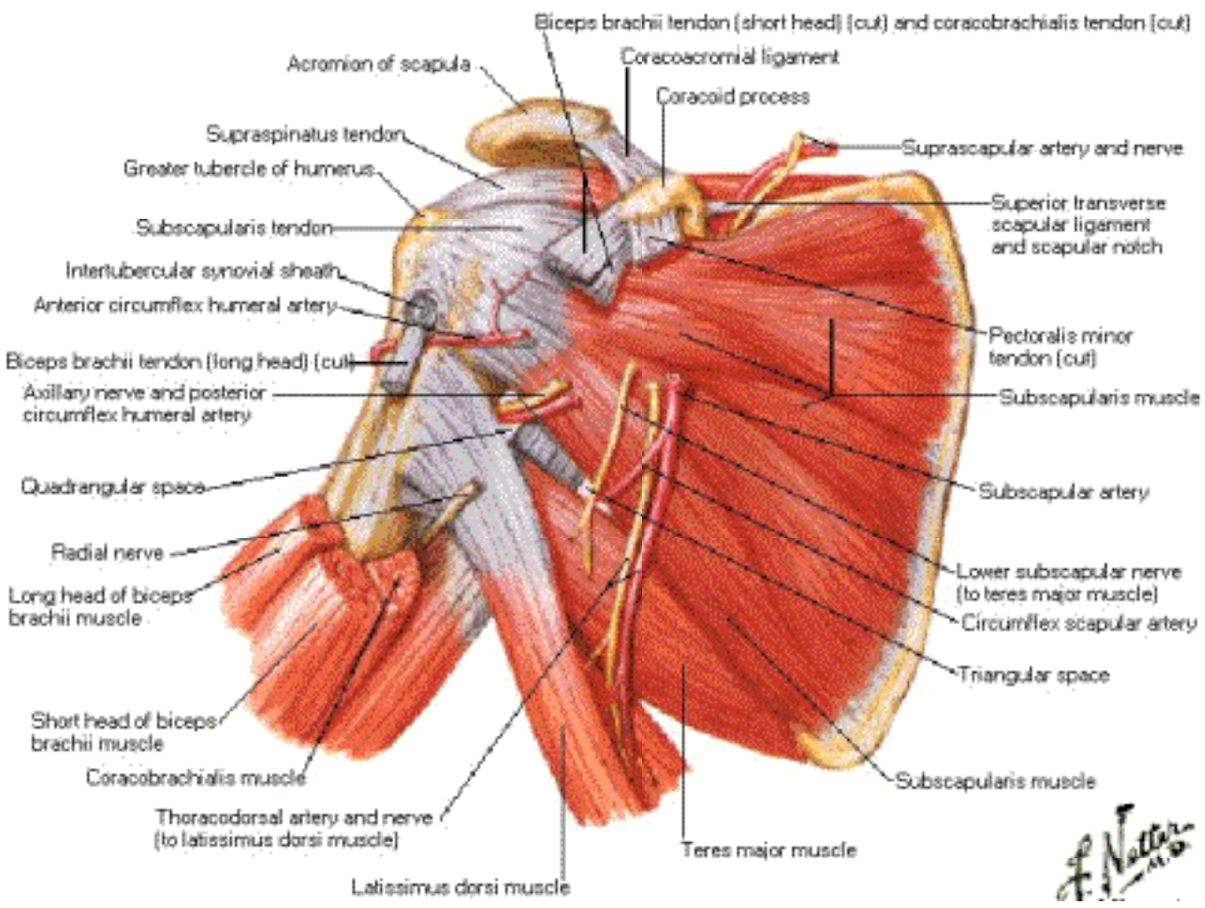
Muscles of Rotator Cuff

Posterior View



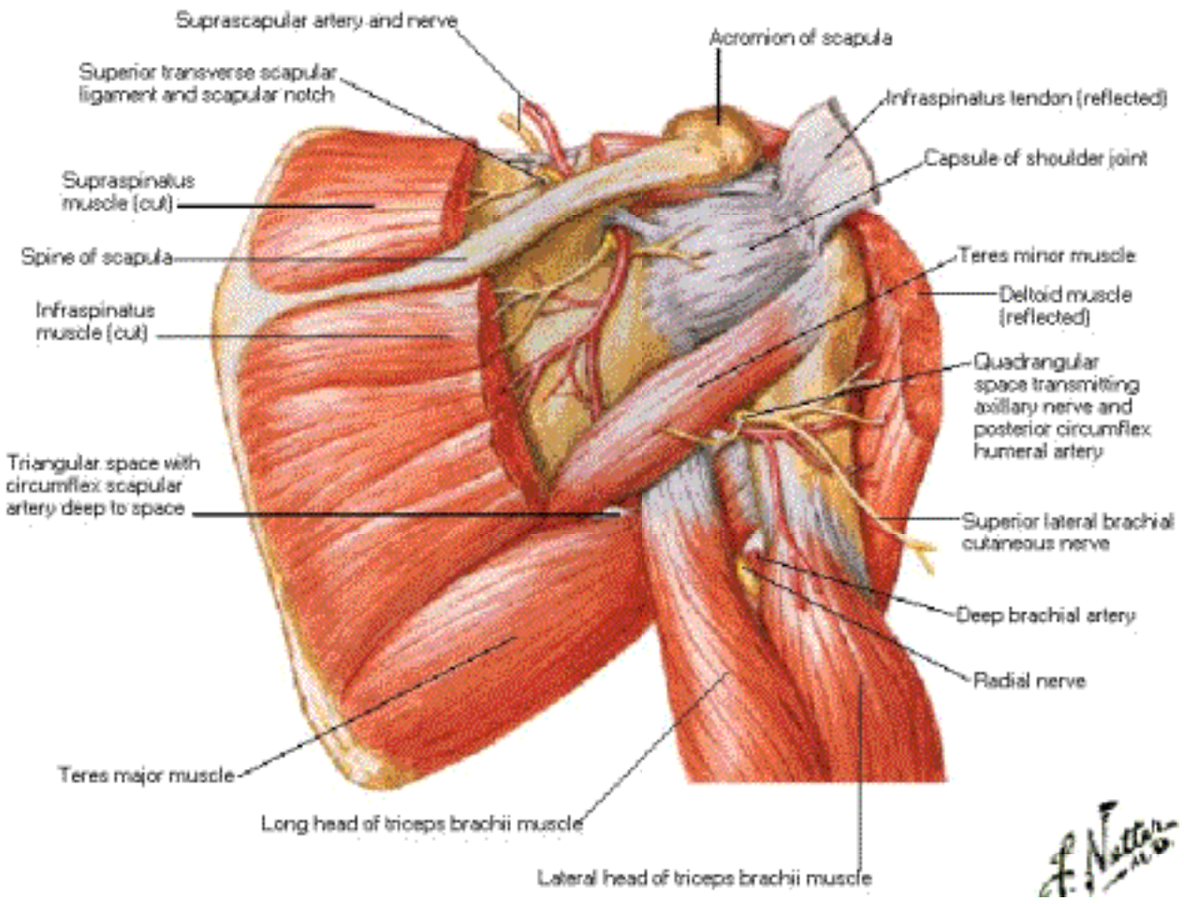
Scapulohumeral Dissection

Anterior View



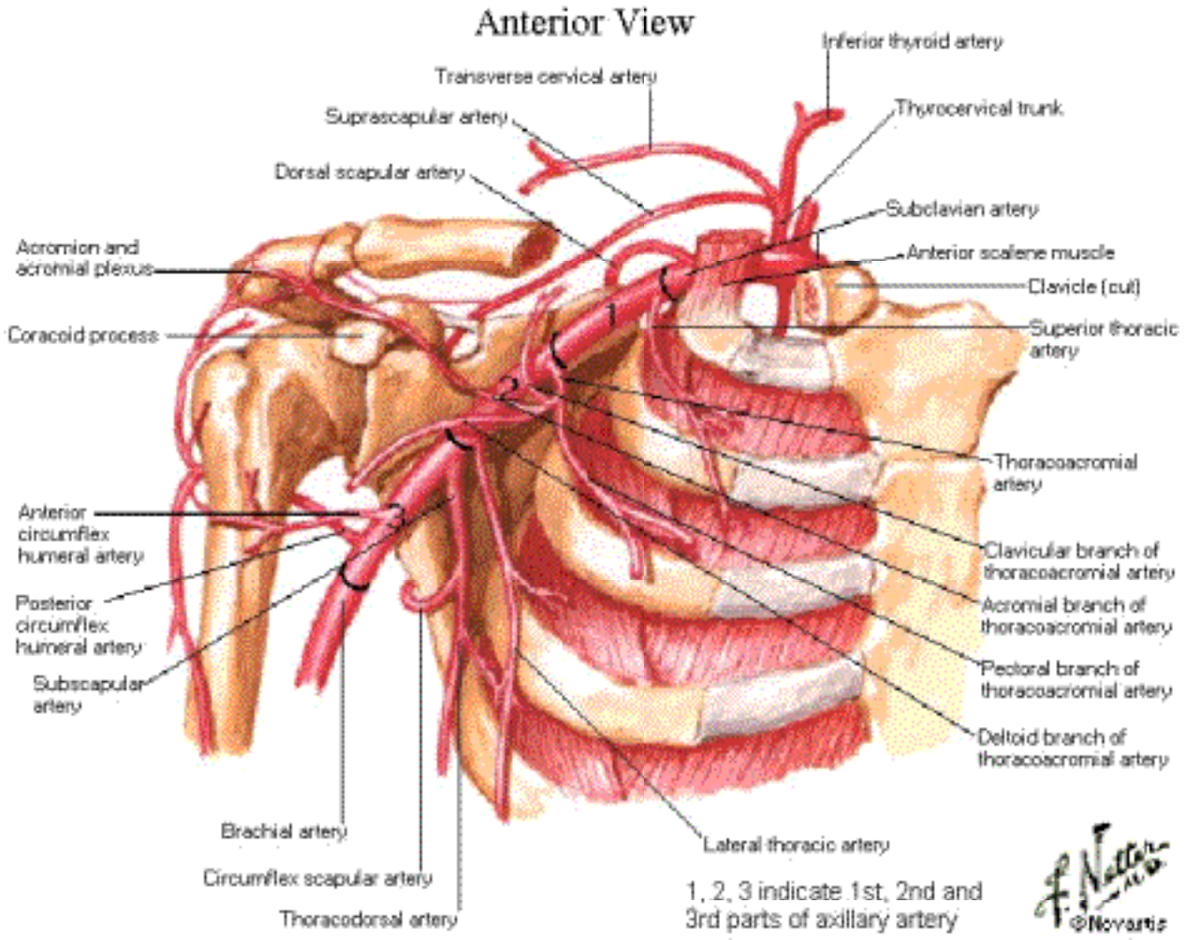
Scapulohumeral Dissection

Posterior View



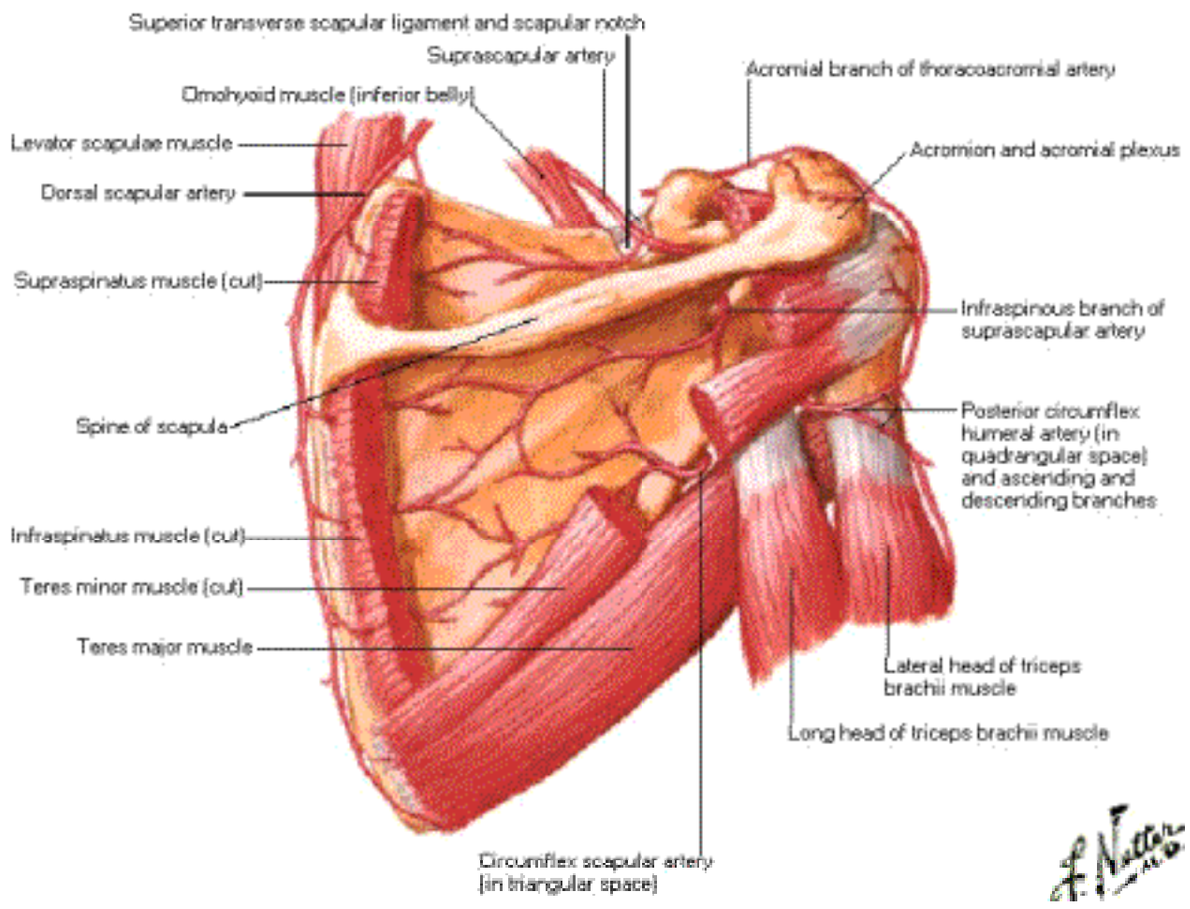
Axillary Artery and Anastomoses Around Scapula

Anterior View



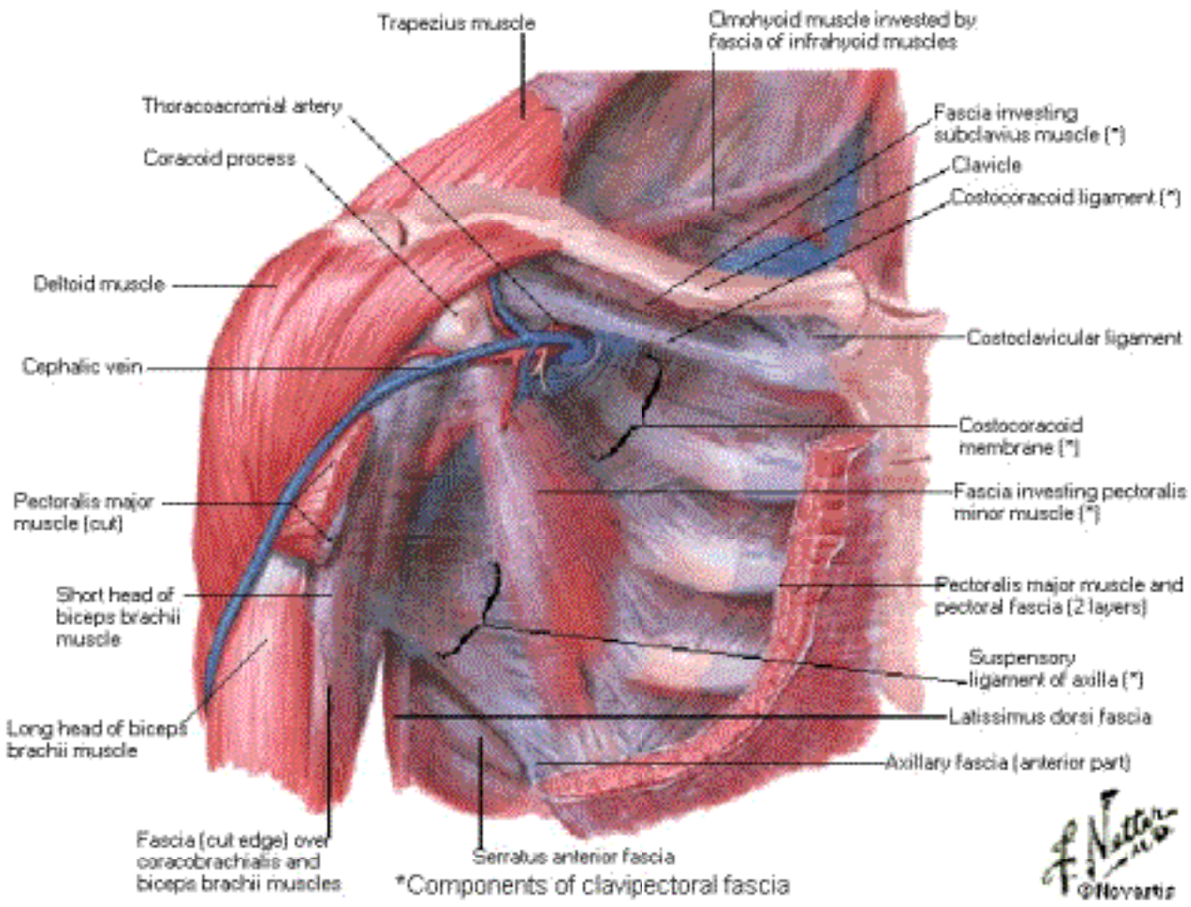
Axillary Artery and Anastomoses Around Scapula

Posterior View



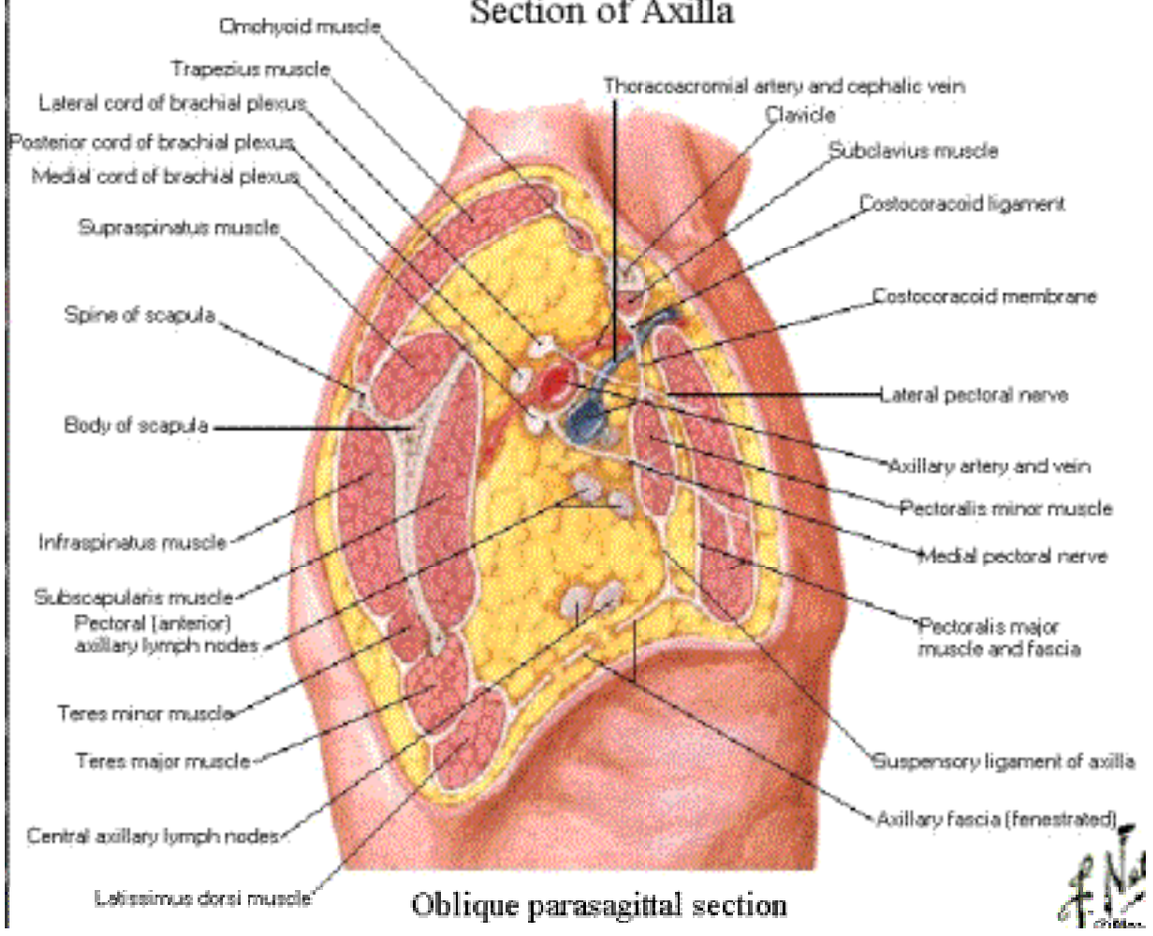
Pectoral, Clavipectoral and Axillary Fasciae

Anterior View



Pectoral, Clavipectoral and Axillary Fasciae

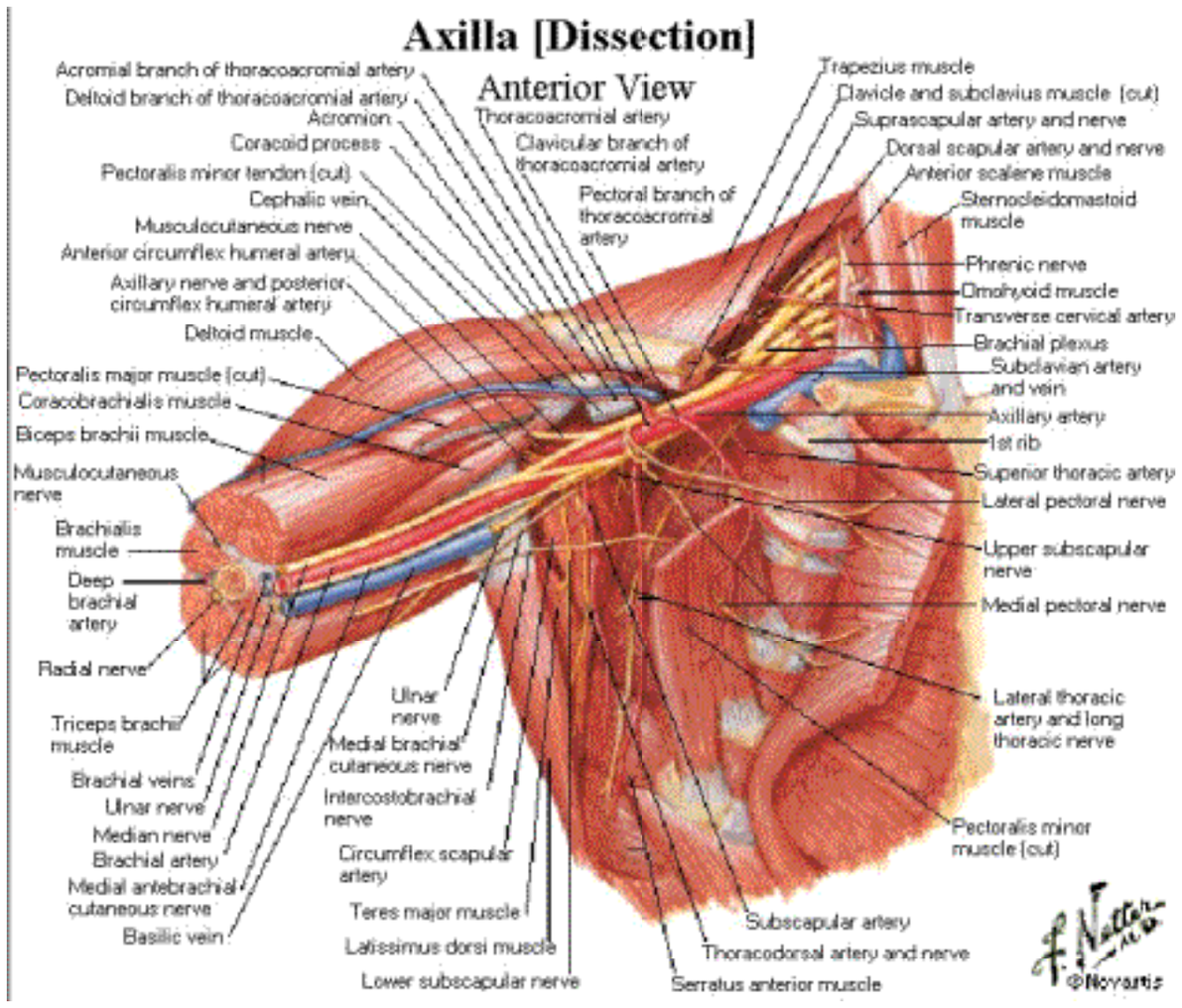
Section of Axilla



Oblique parasagittal section

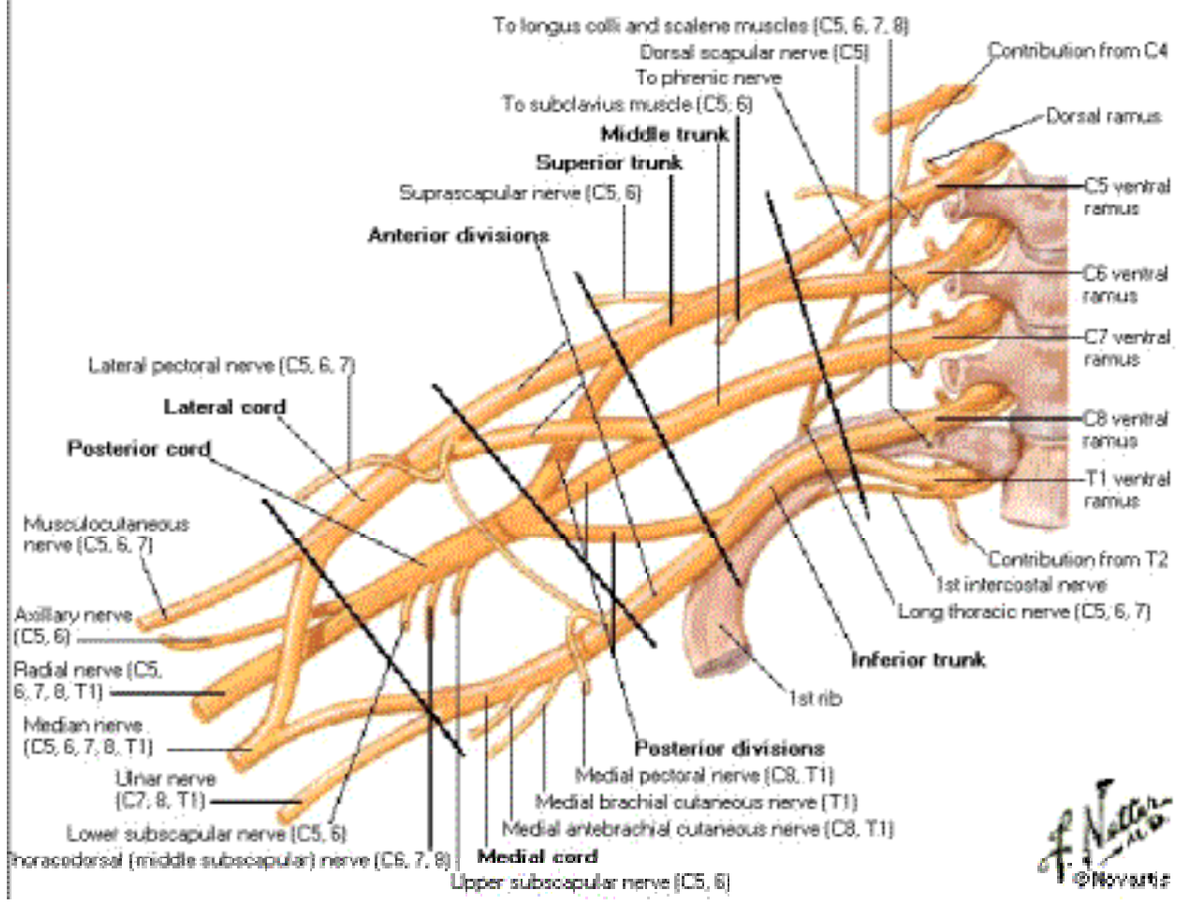
Axilla [Dissection]

Anterior View



Brachial Plexus

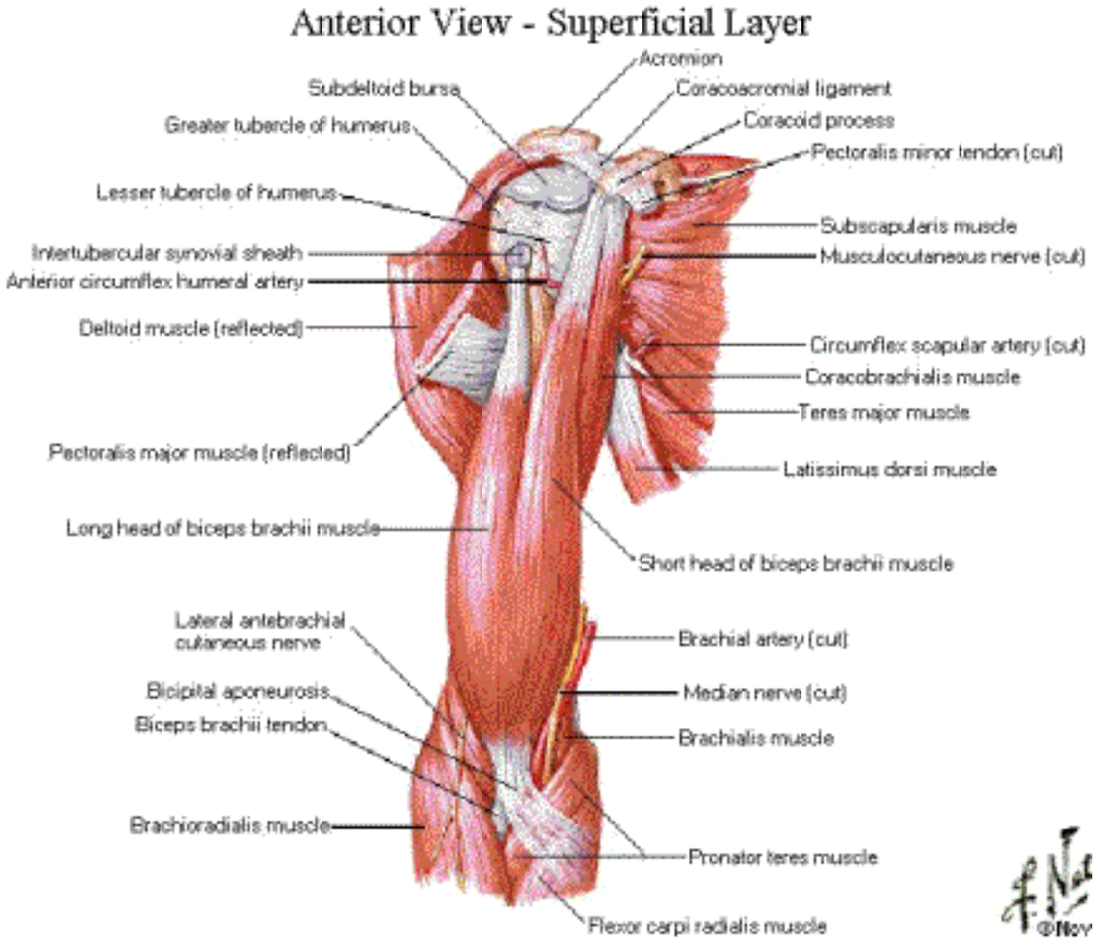
Schema



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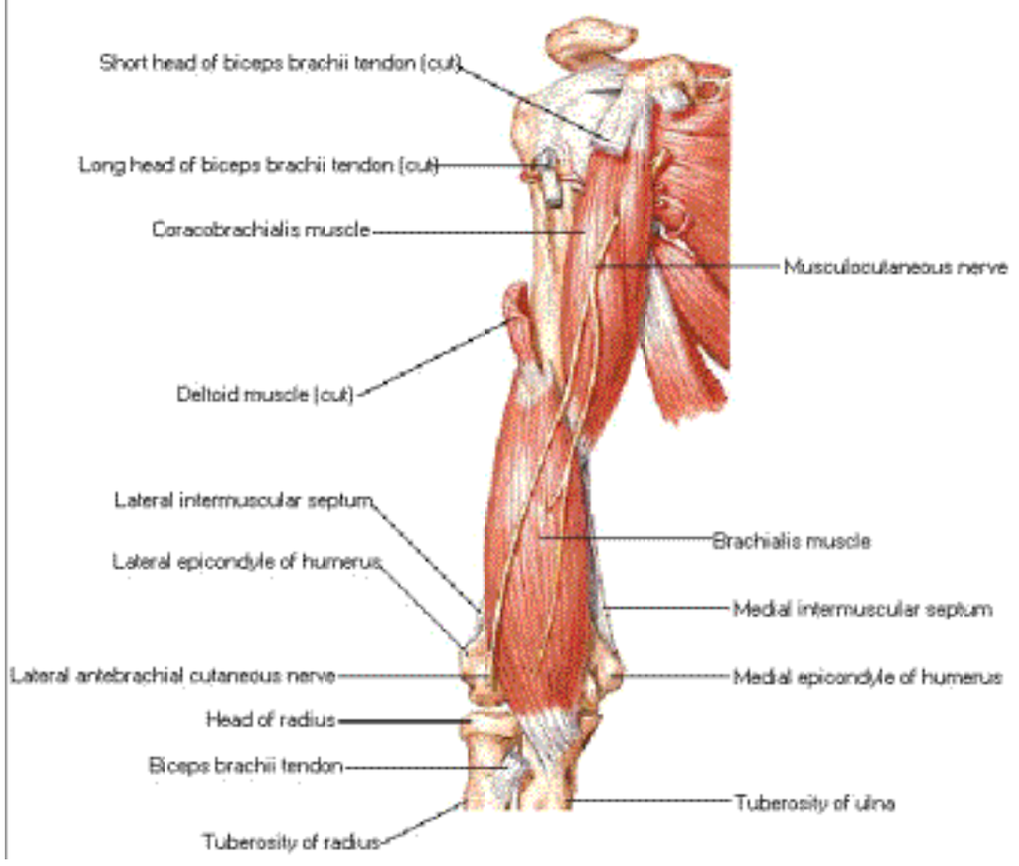
Muscles of Arm

Anterior View - Superficial Layer



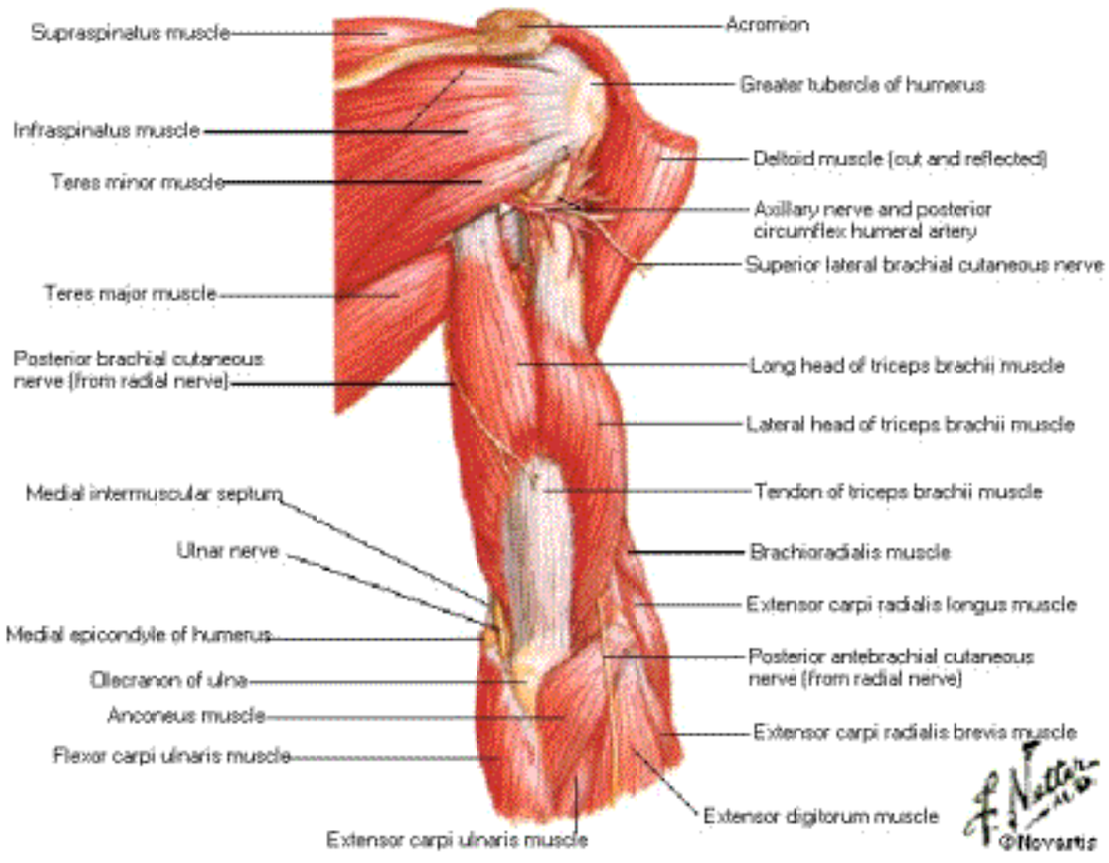
Muscles of Arm

Anterior View - Deep Layer



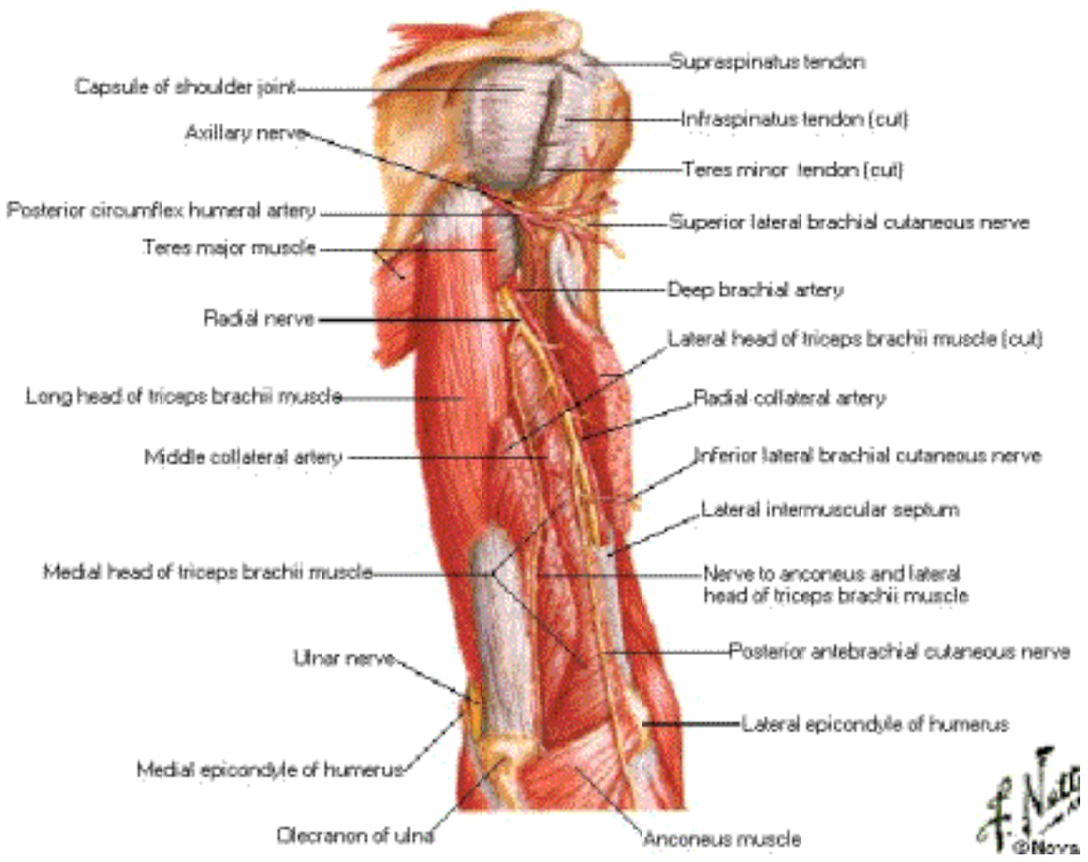
Muscles of Arm

Posterior View - Superficial Layer

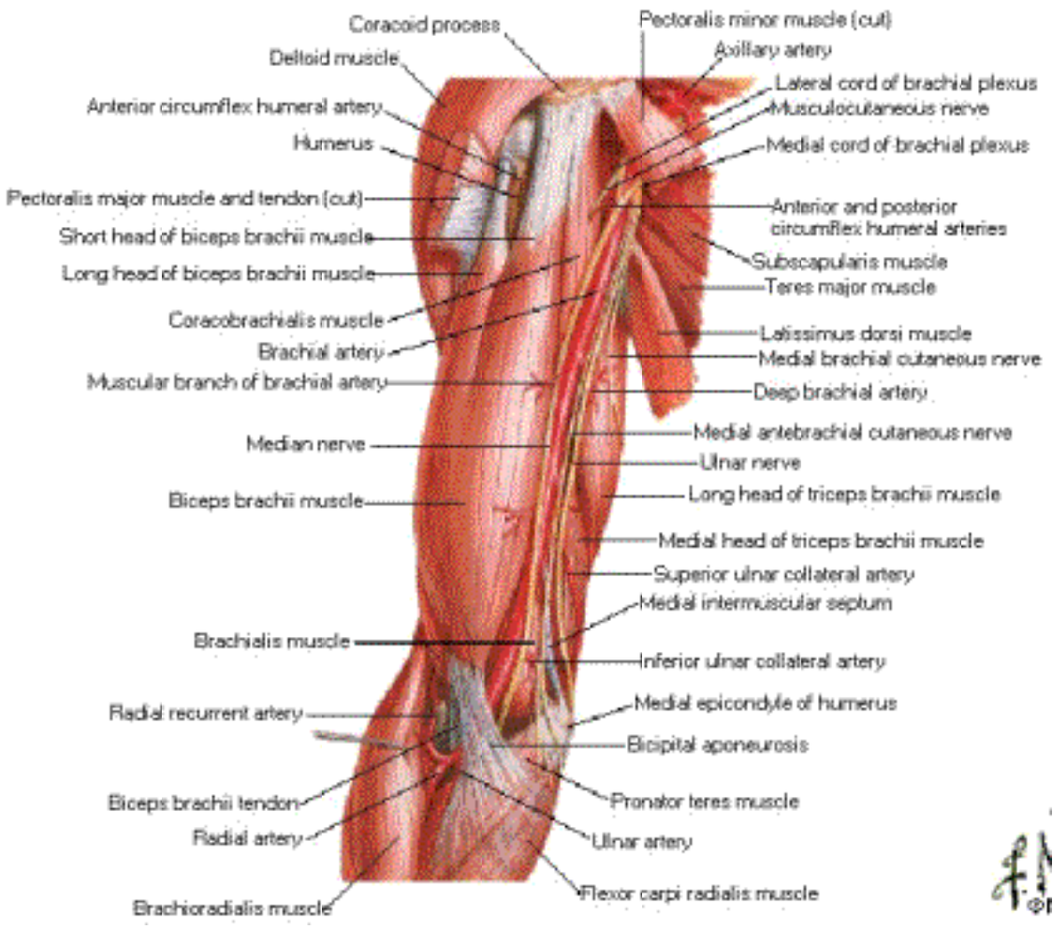


Muscles of Arm

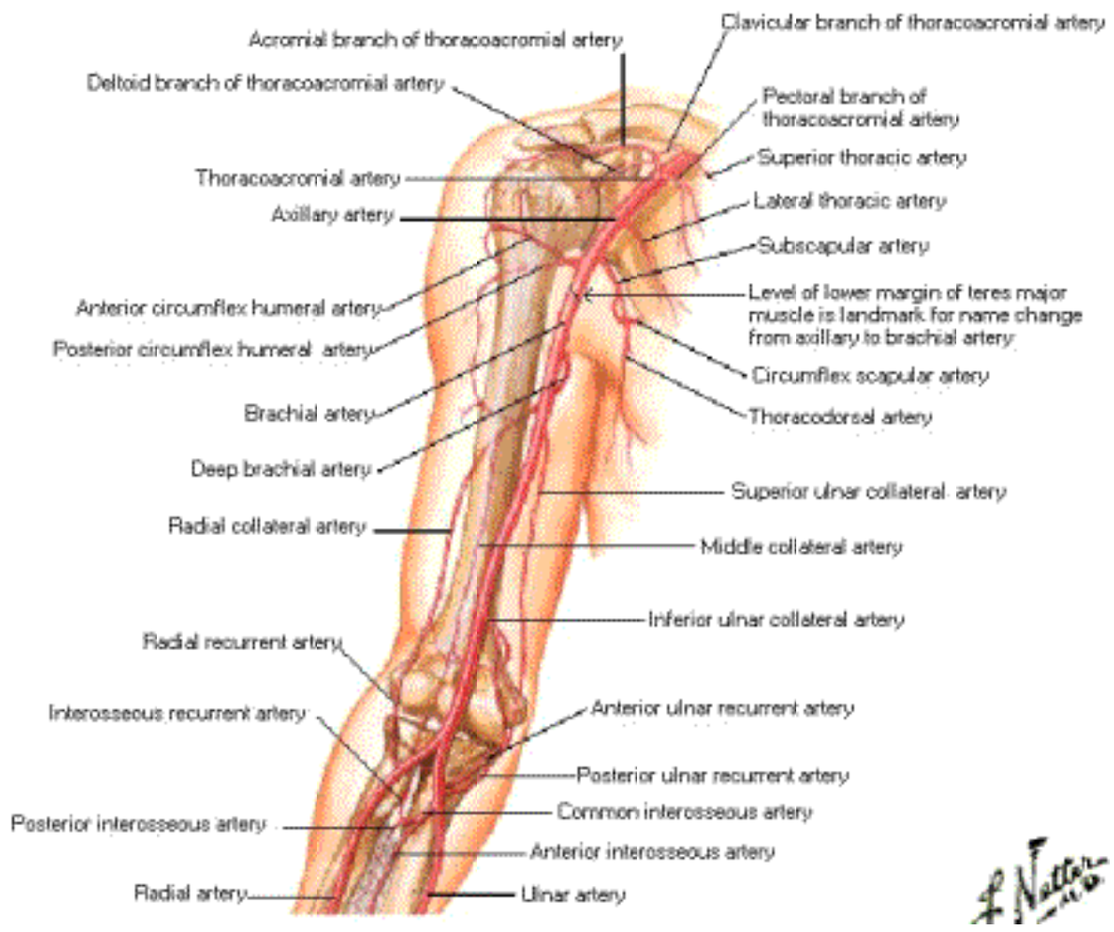
Posterior View - Deep Layer



Brachial Artery in Situ

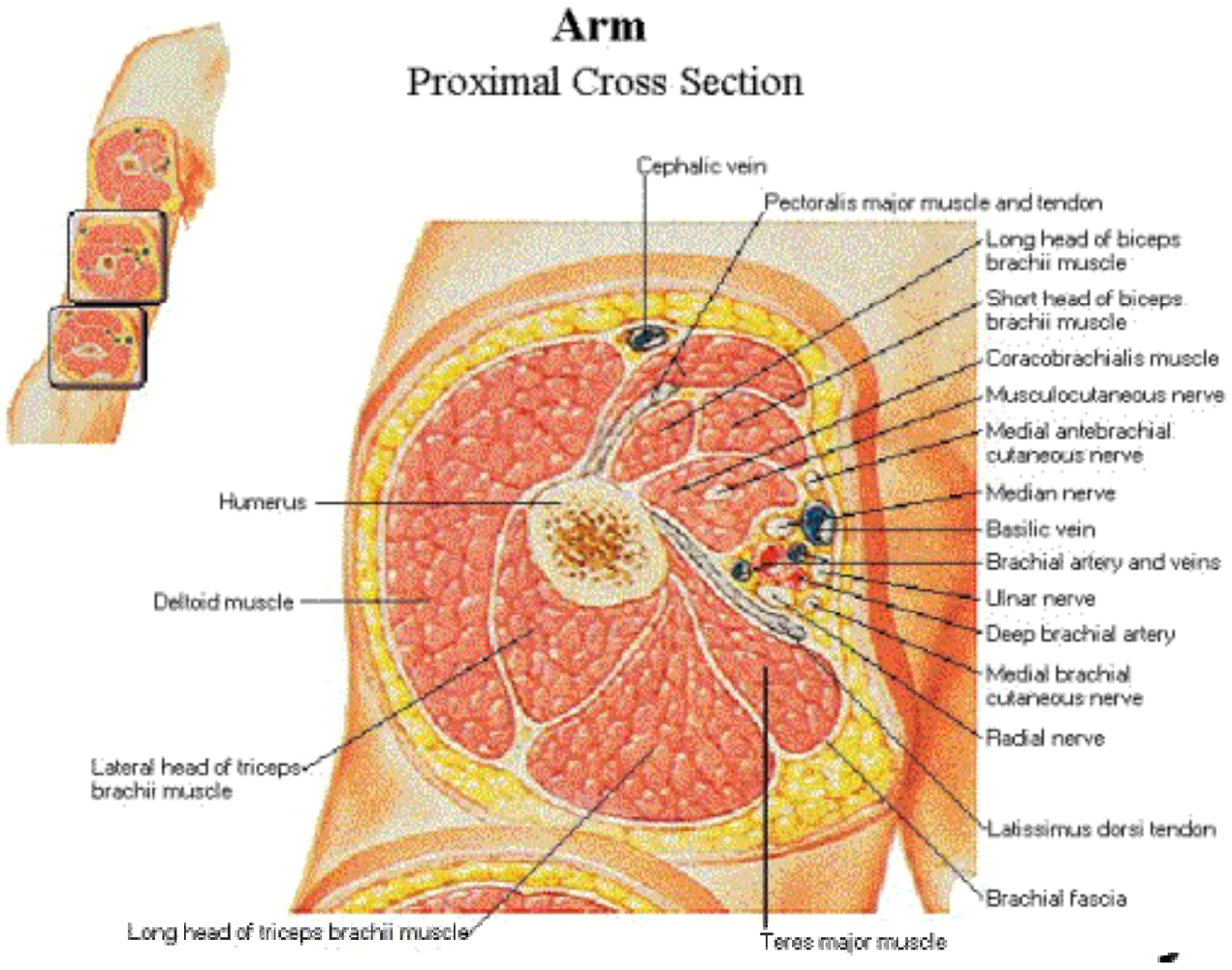


Brachial Artery and Anastomoses Around Elbow



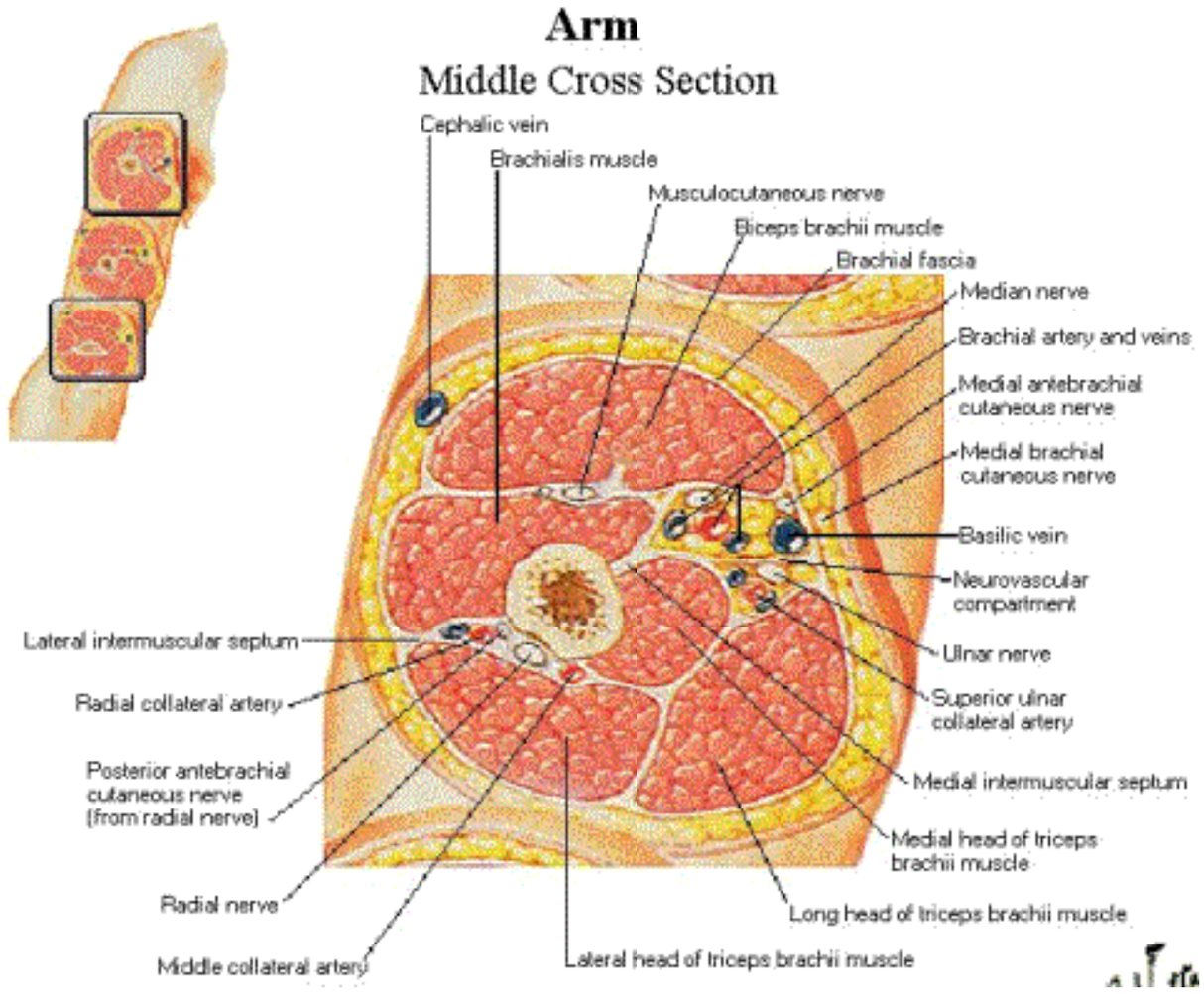
Arm

Proximal Cross Section



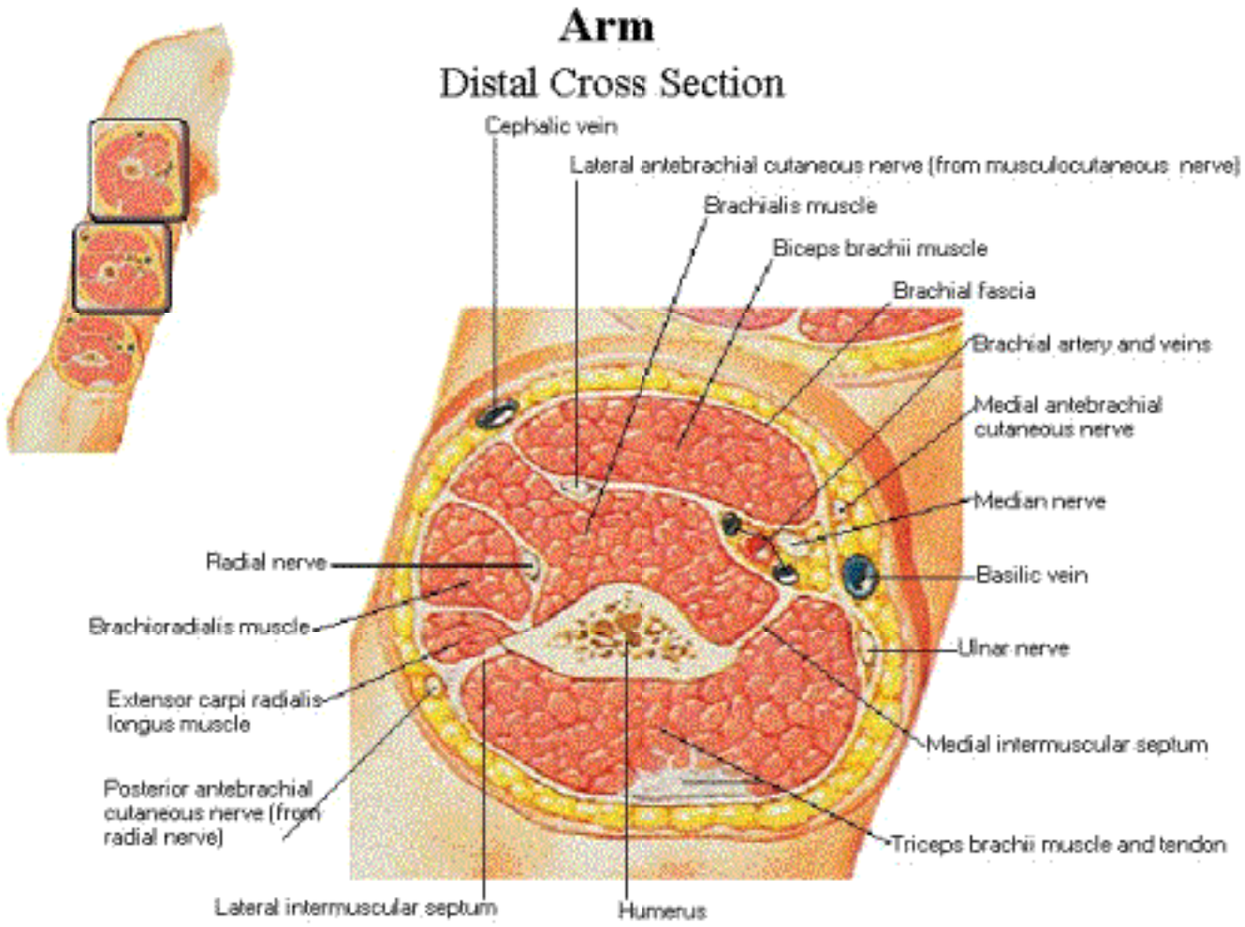
Arm

Middle Cross Section



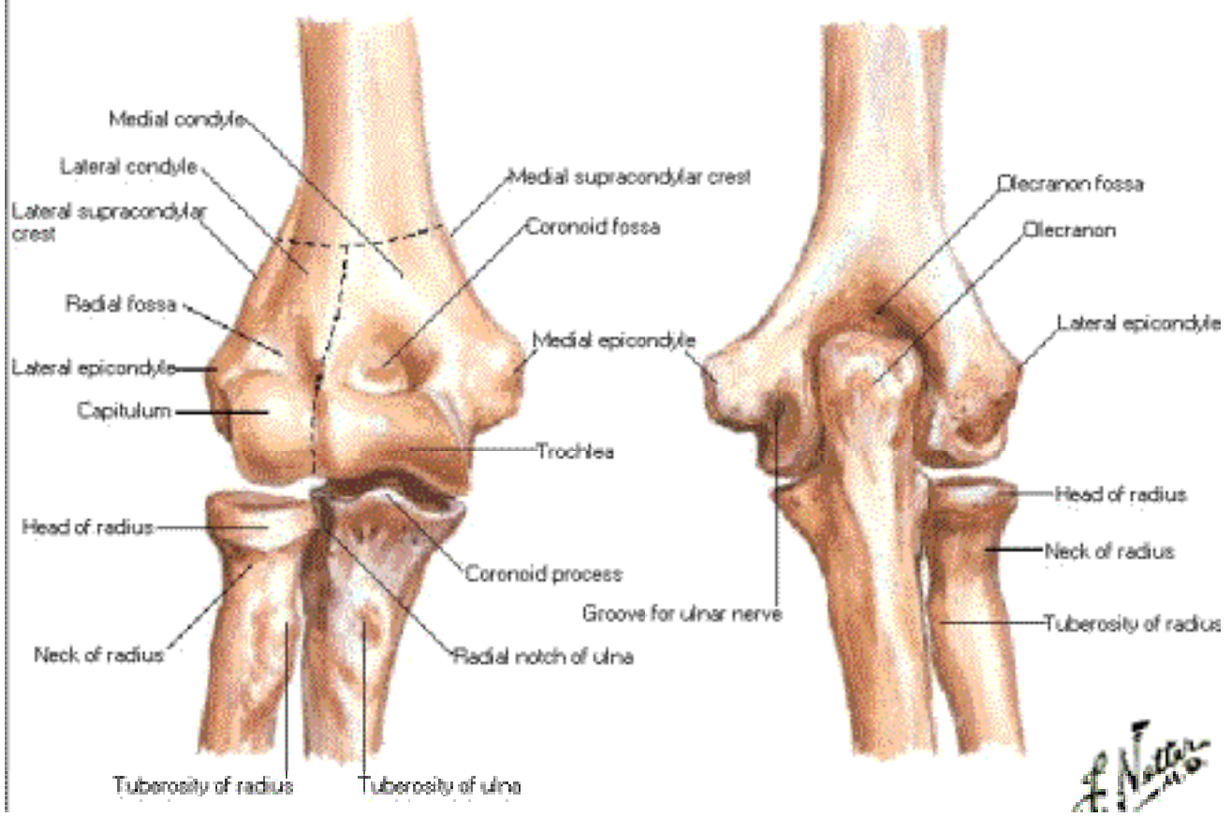
Arm

Distal Cross Section



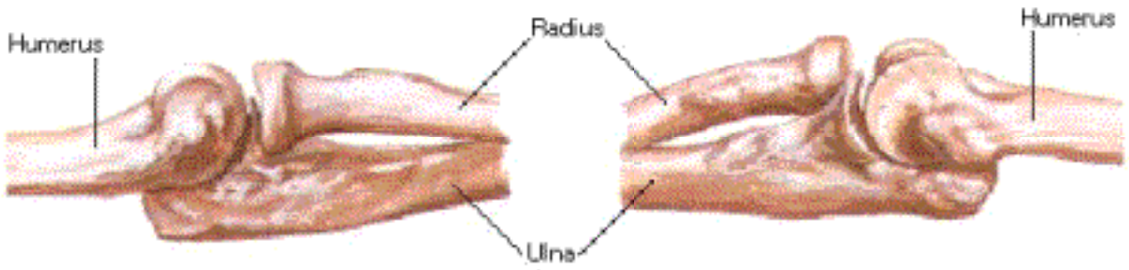
Bones of Elbow in Extension

Anterior and Posterior Views



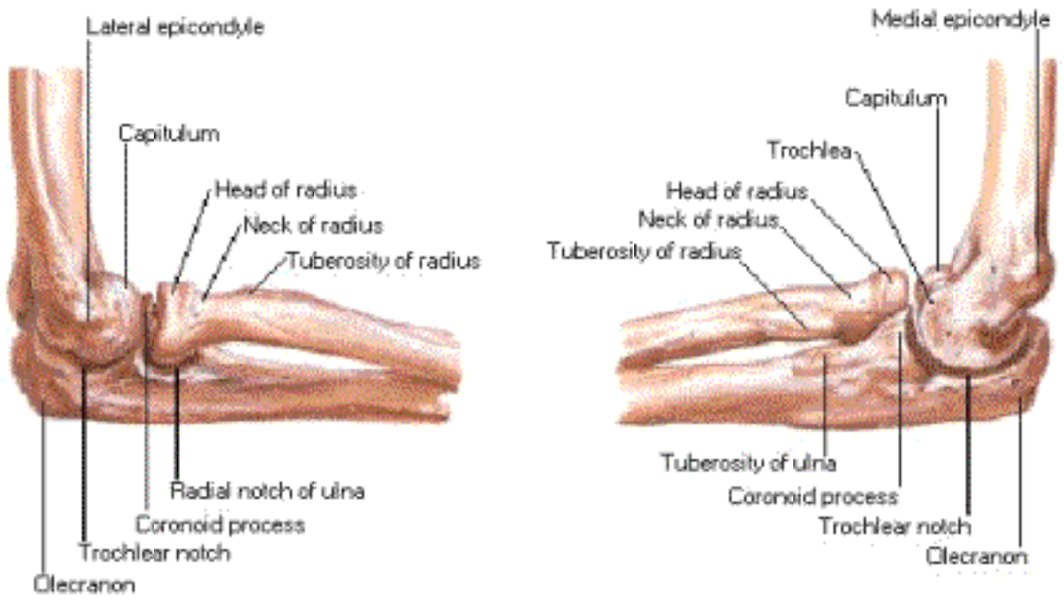
Bones of Elbow in Extension

Lateral and Medial Views



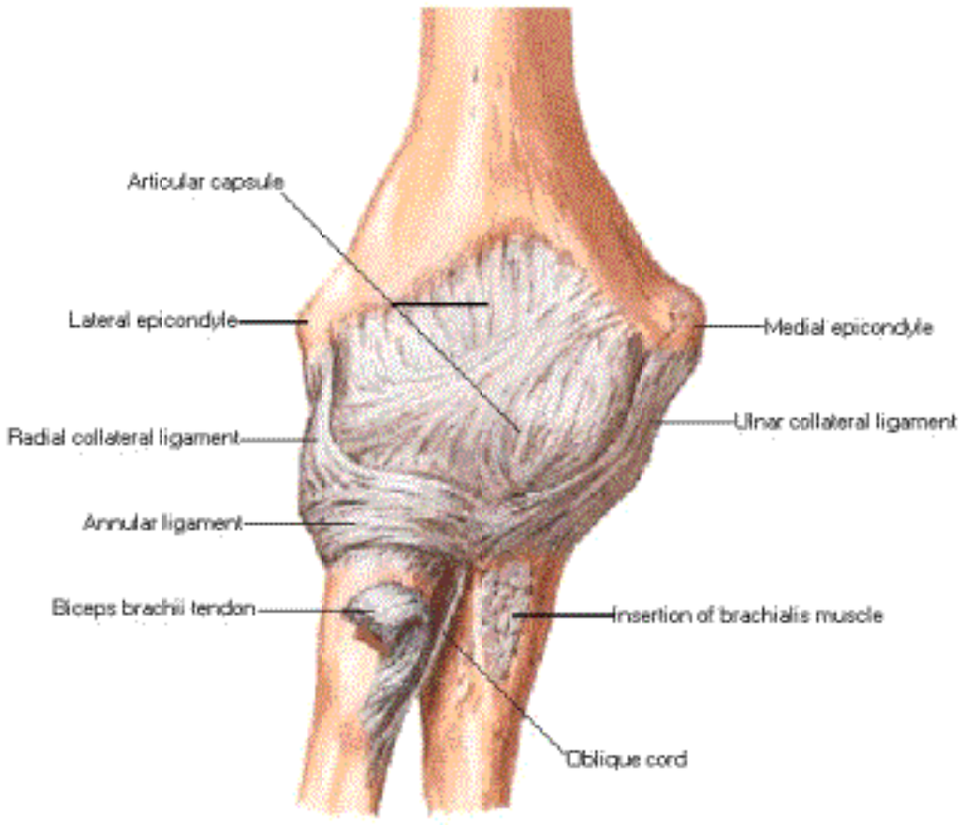
Bones of Elbow in 90° Flexion

Lateral and Medial Views



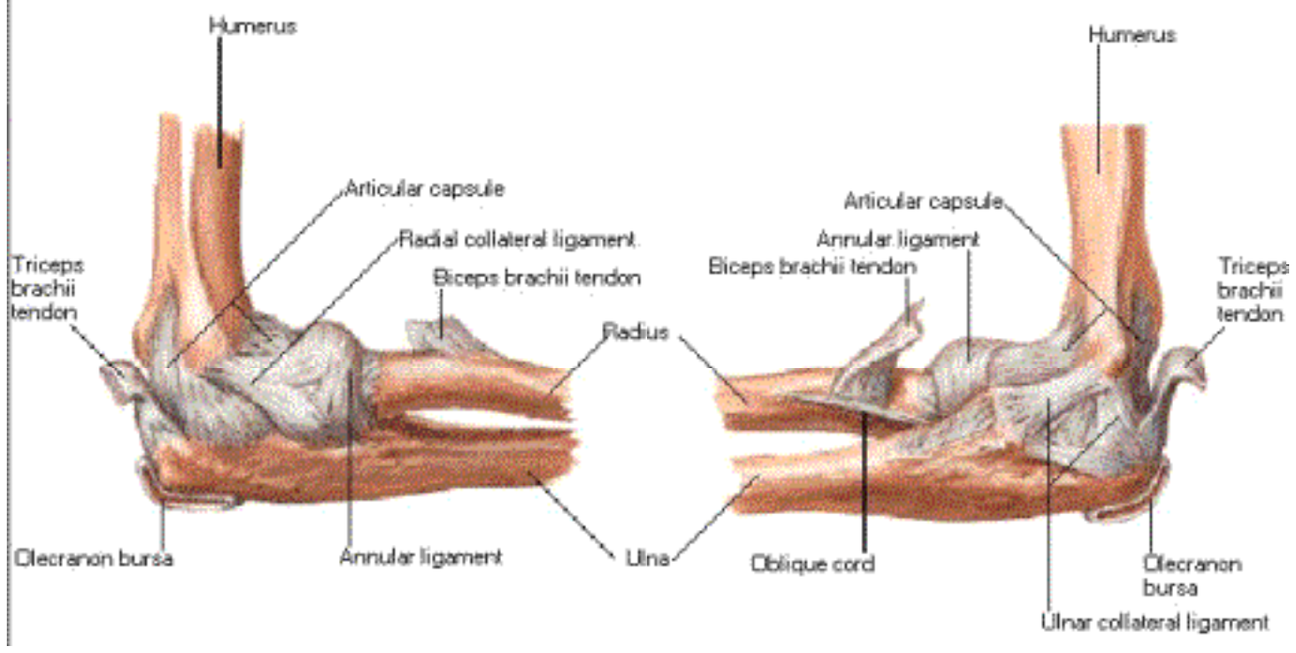
Ligaments of Elbow

Right Elbow - Anterior View



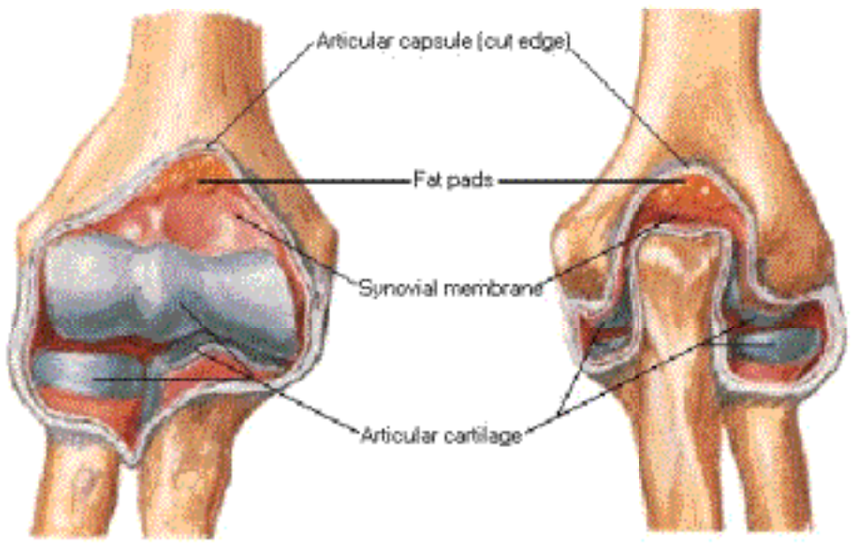
Ligaments of Elbow in 90° Flexion

Lateral and Medial Views



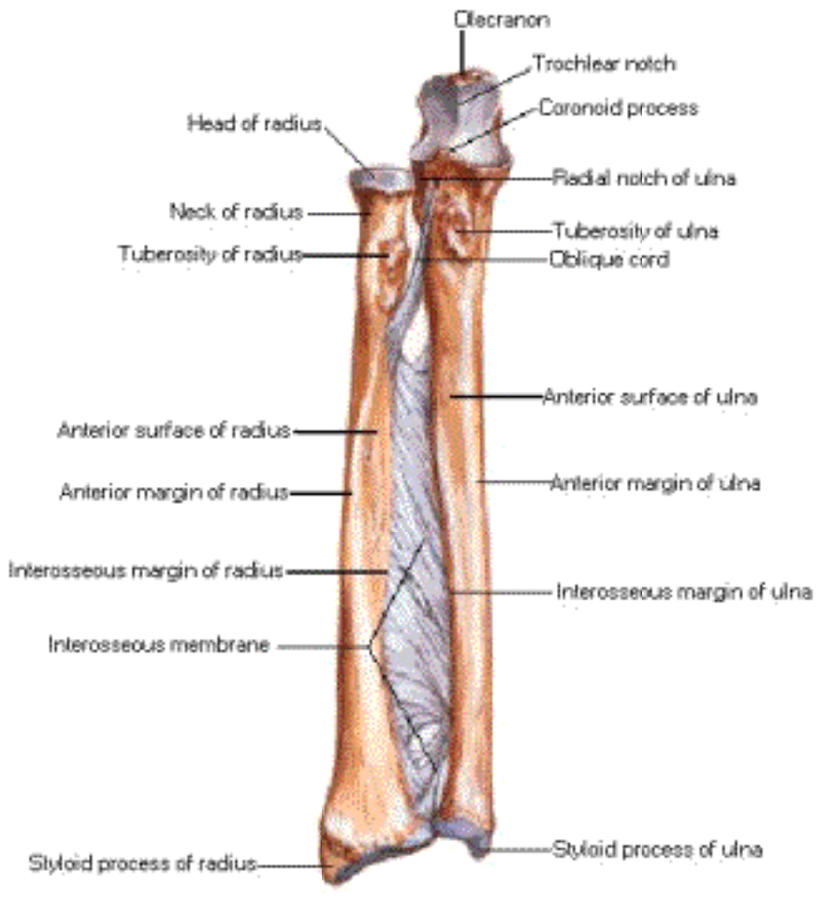
Elbow Joint [Opened]

Anterior and Posterior Views



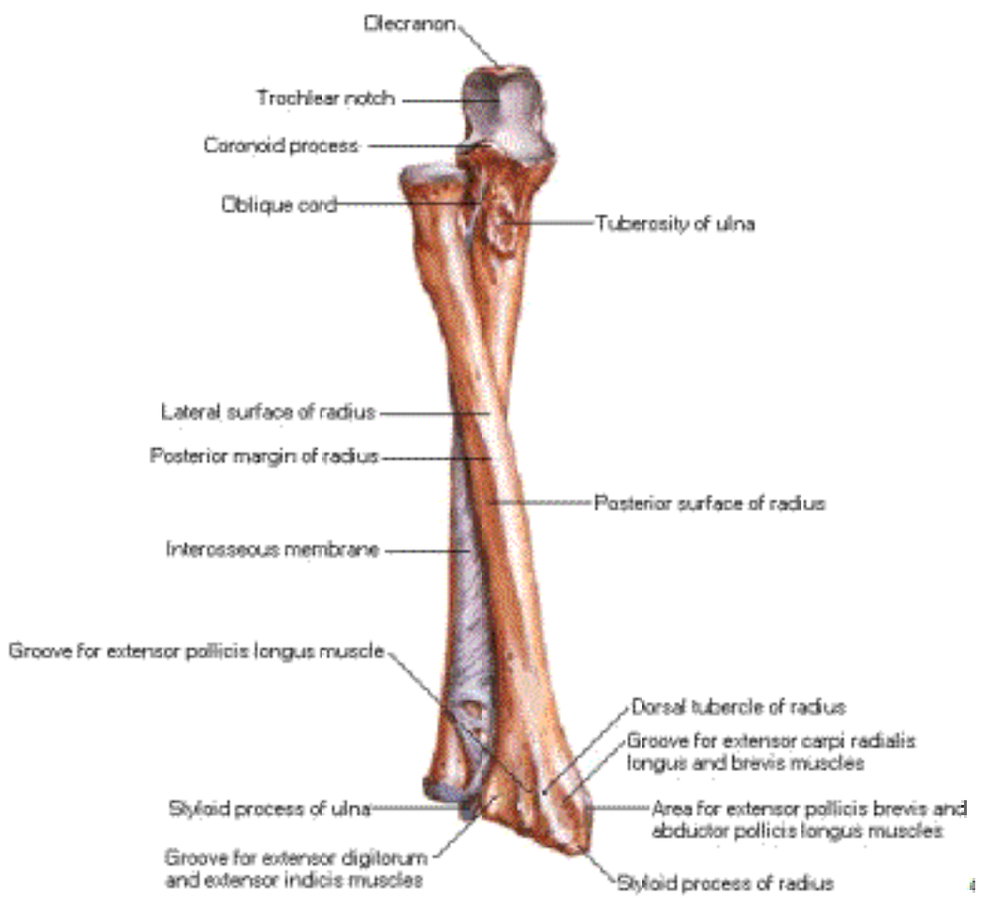
Right Radius and Ulna in Supination

Anterior View



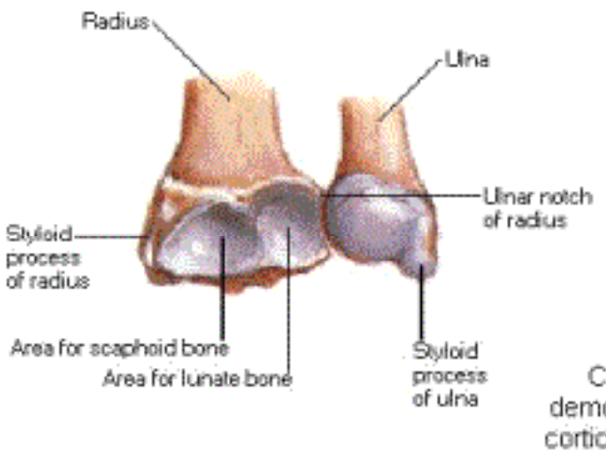
Right Radius and Ulna in Pronation

Anterior View



Bones of Forearm

Carpal Articular Surface and Section of Radius

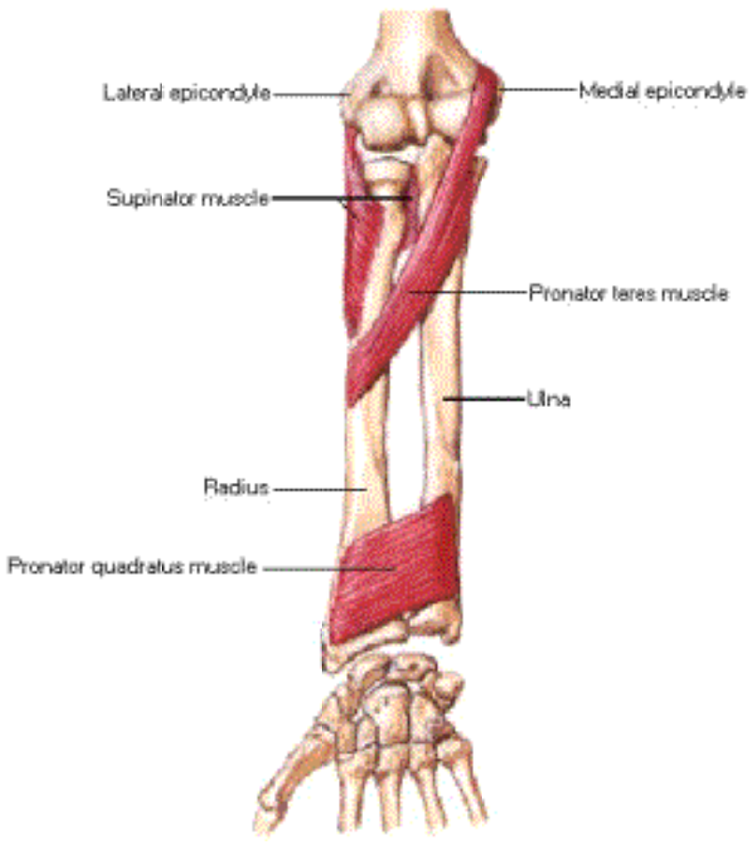




Coronal section of radius demonstrates how thickness of cortical bone of shaft diminishes to thin layer over cancellous bone at distal end

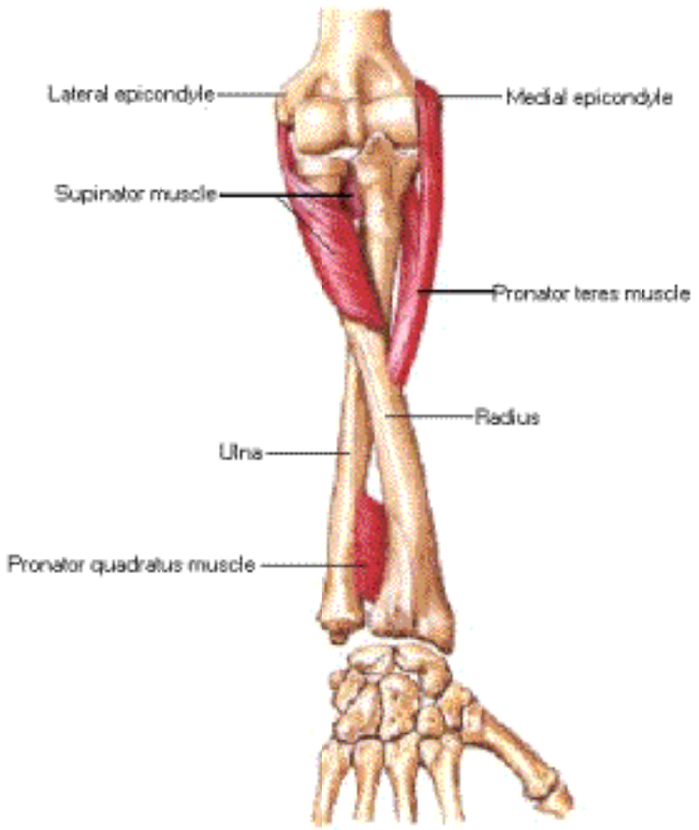
Individual Muscles of Forearm

Rotators of Radius - Supination



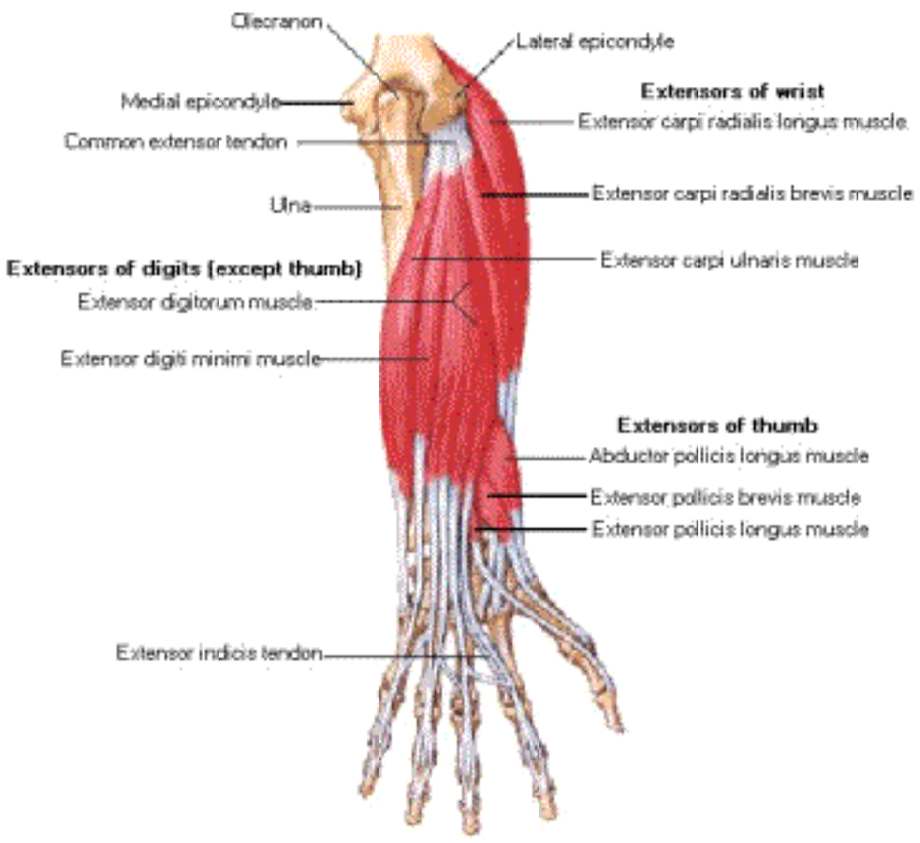
Individual Muscles of Forearm

Rotators of Radius - Pronation



Individual Muscles of Forearm

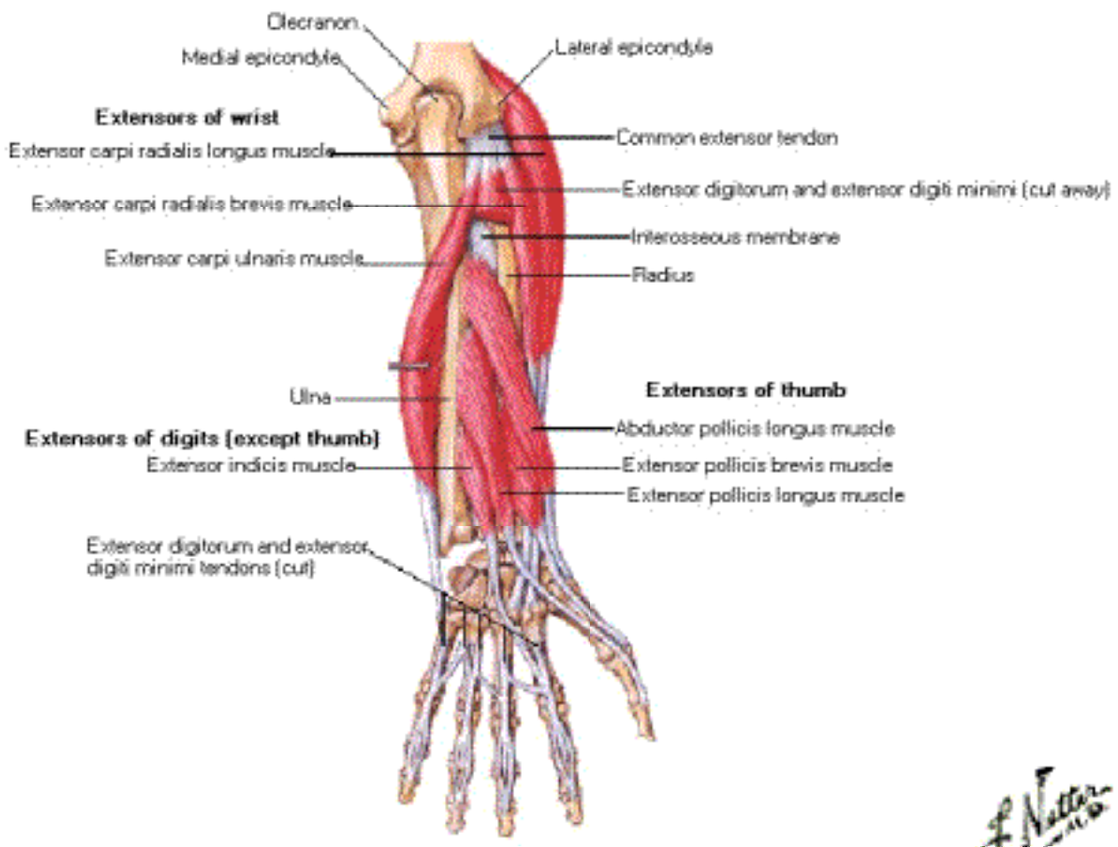
Extensors of Wrist and Digits



Note: anconeus muscle not shown because it is extensor of elbow

Individual Muscles of Forearm [Continued]

Extensors of Wrist and Digits

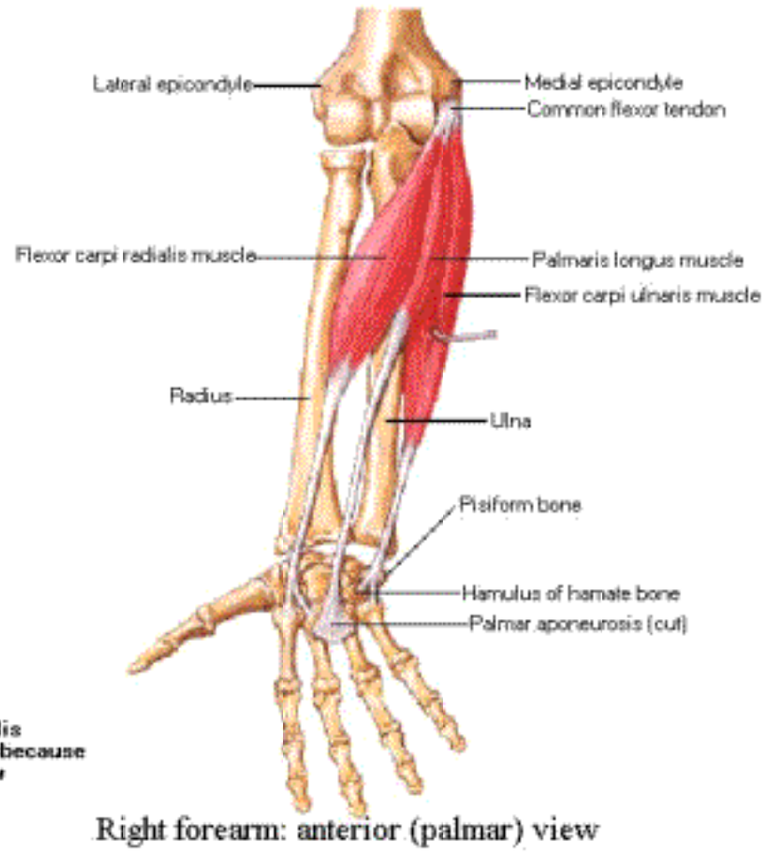


Note: anconeus muscle not shown because it is extensor of elbow

©Novartis

Individual Muscles of Forearm

Flexors of Wrist

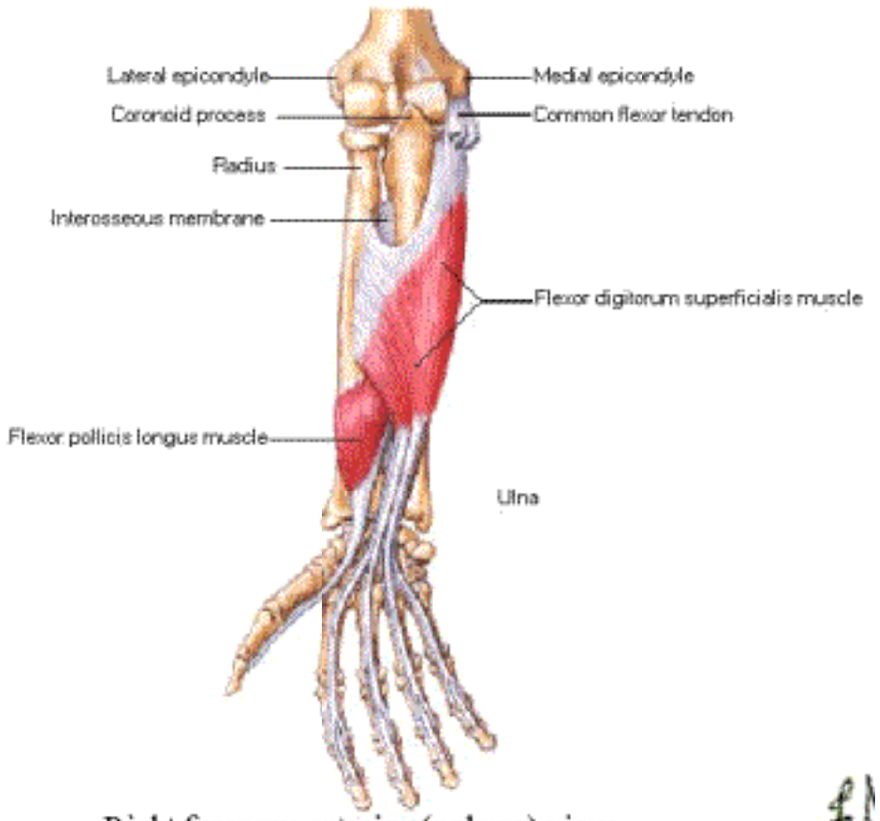


Note: brachioradialis muscle not shown because it is flexor of elbow

Right forearm: anterior (palmar) view

Individual Muscles of Forearm

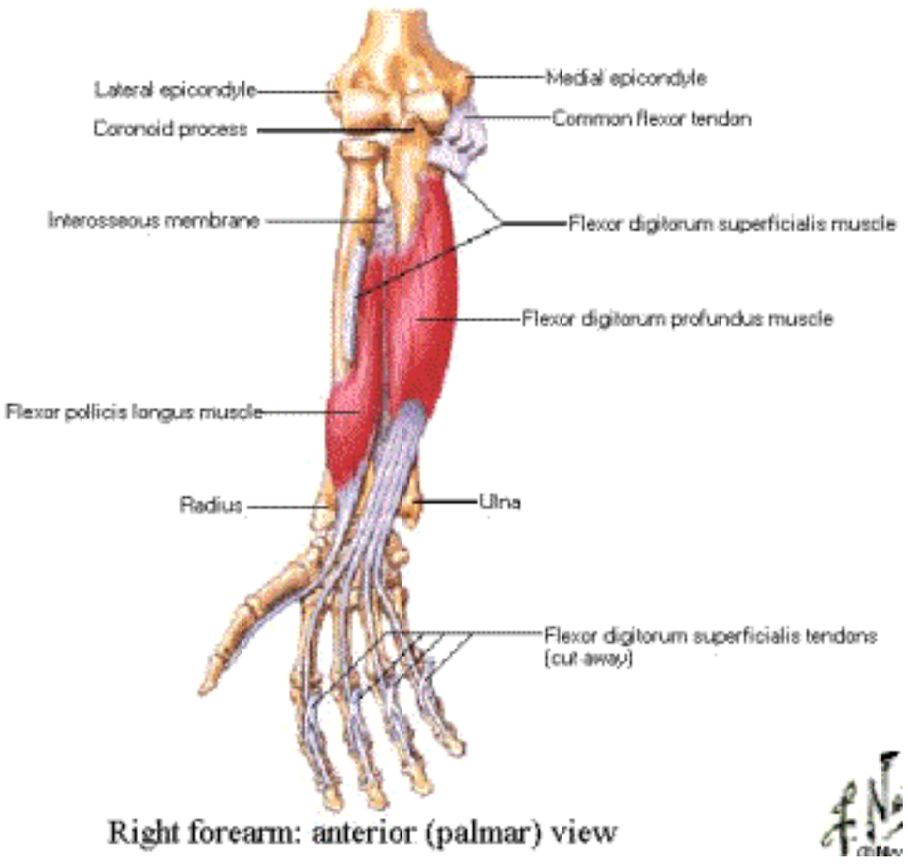
Flexors of Digits



Right forearm: anterior (palmar) view

Individual Muscles of Forearm [Continued]

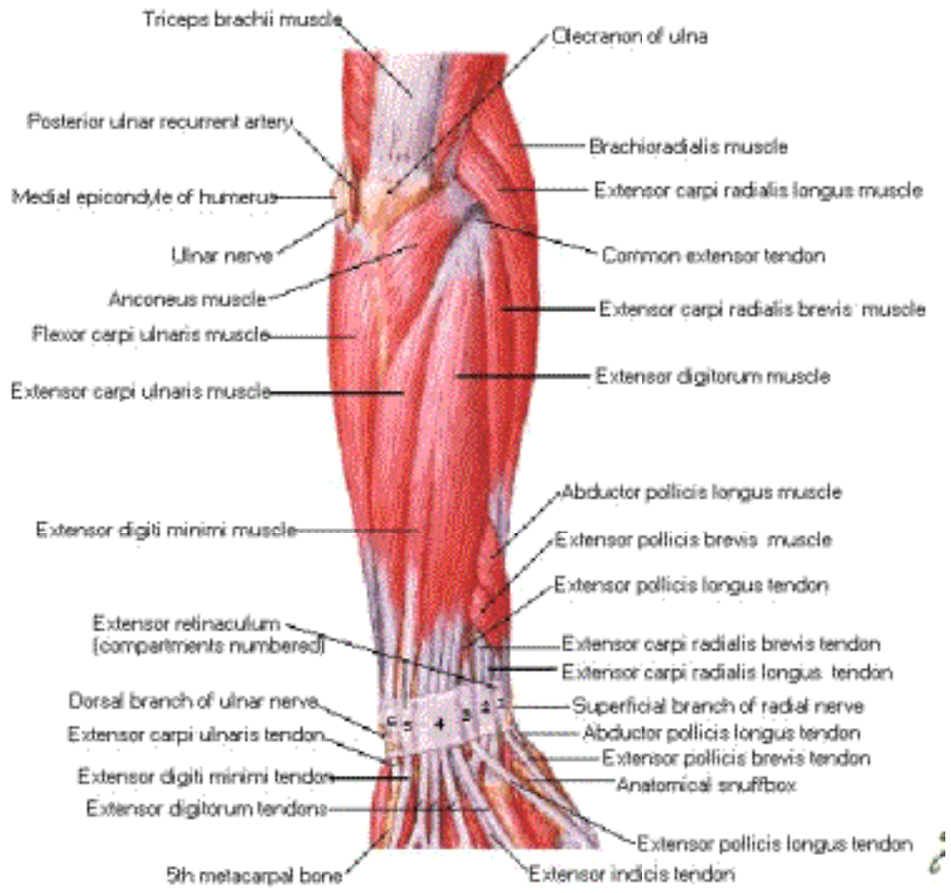
Flexors of Digits



Right forearm: anterior (palmar) view

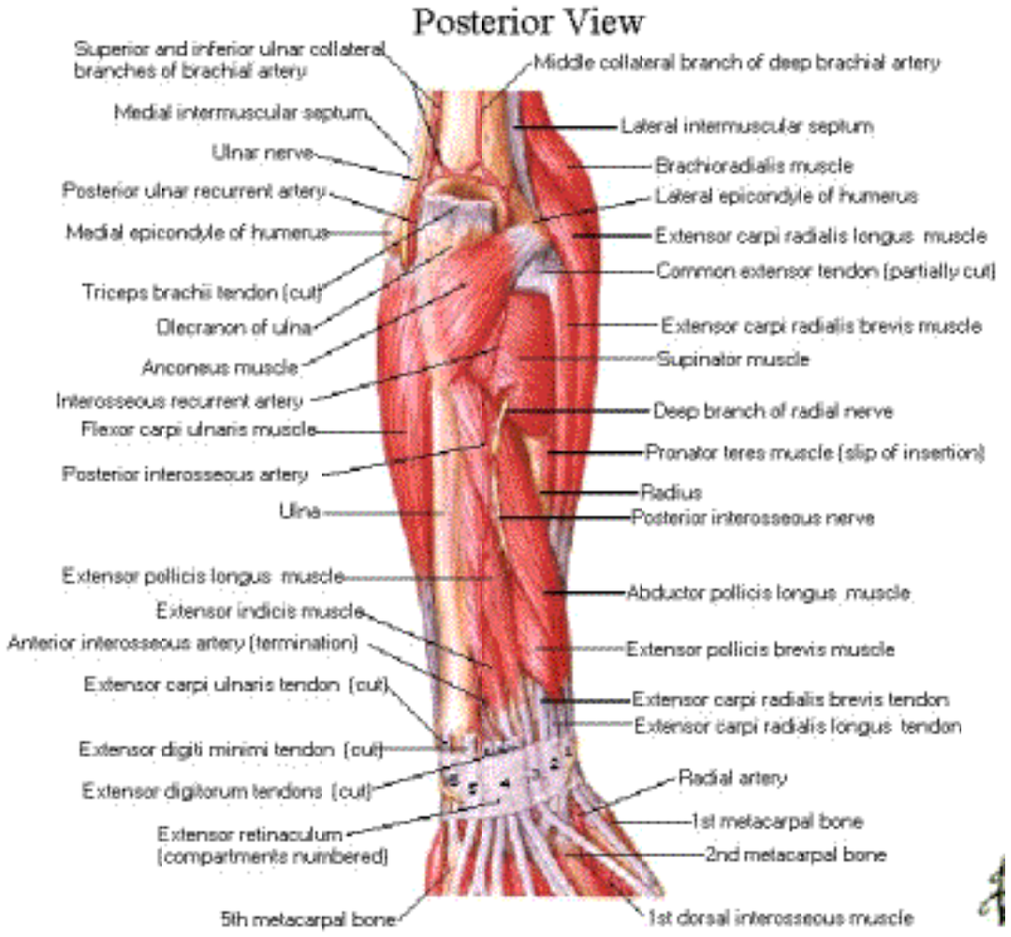
Muscles of Forearm [Superficial Layer]

Posterior View



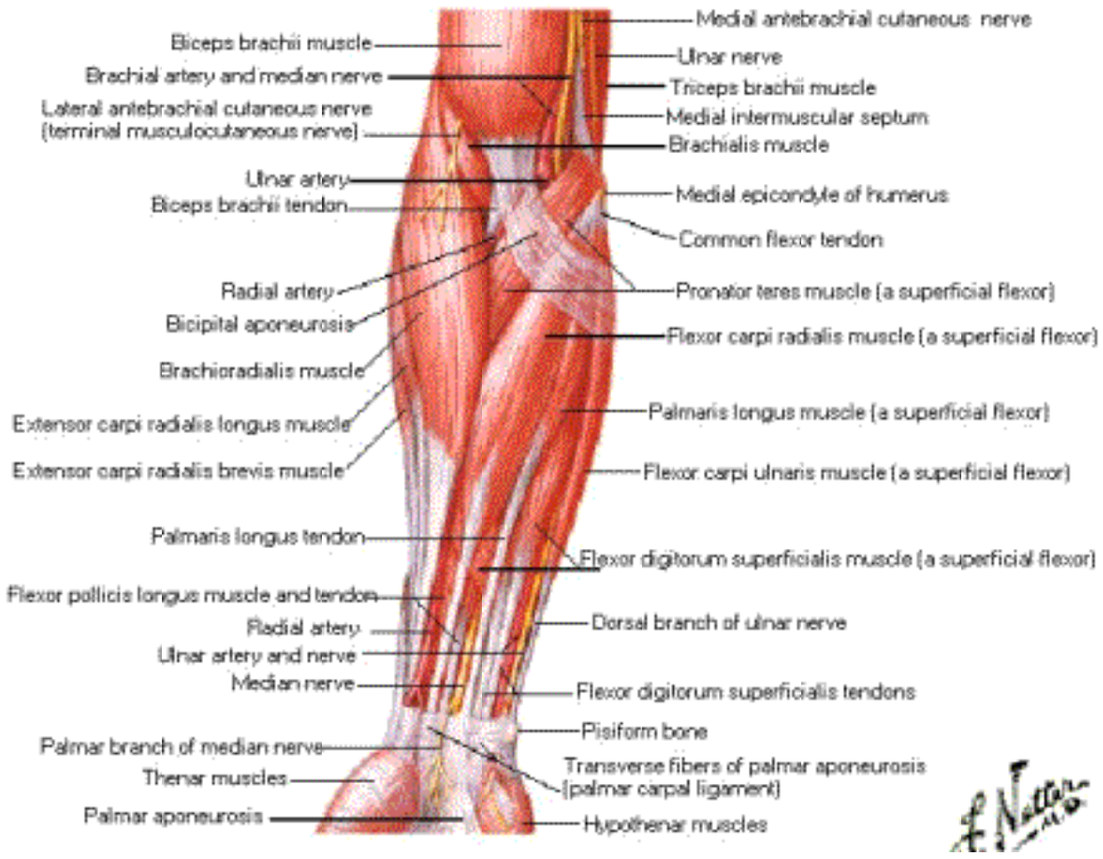
Muscles of Forearm [Deep Layer]

Posterior View



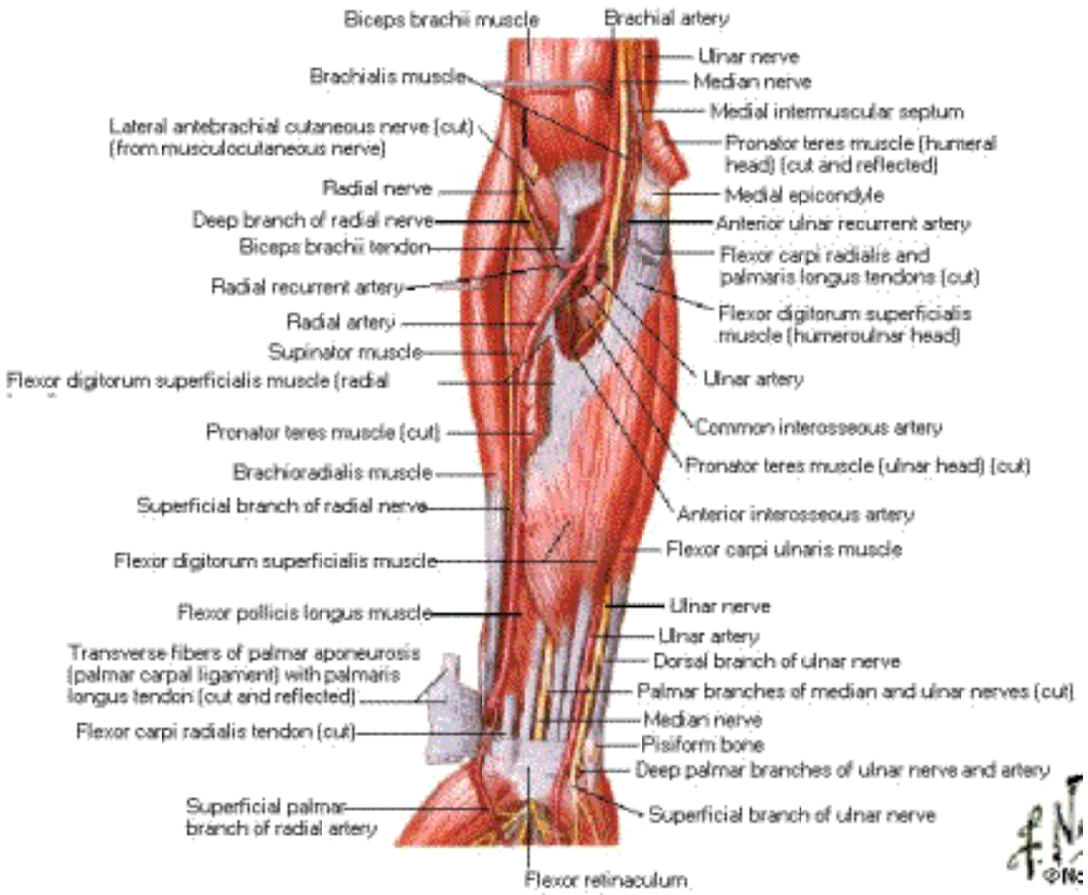
Muscles of Forearm [Superficial Layer]

Anterior View



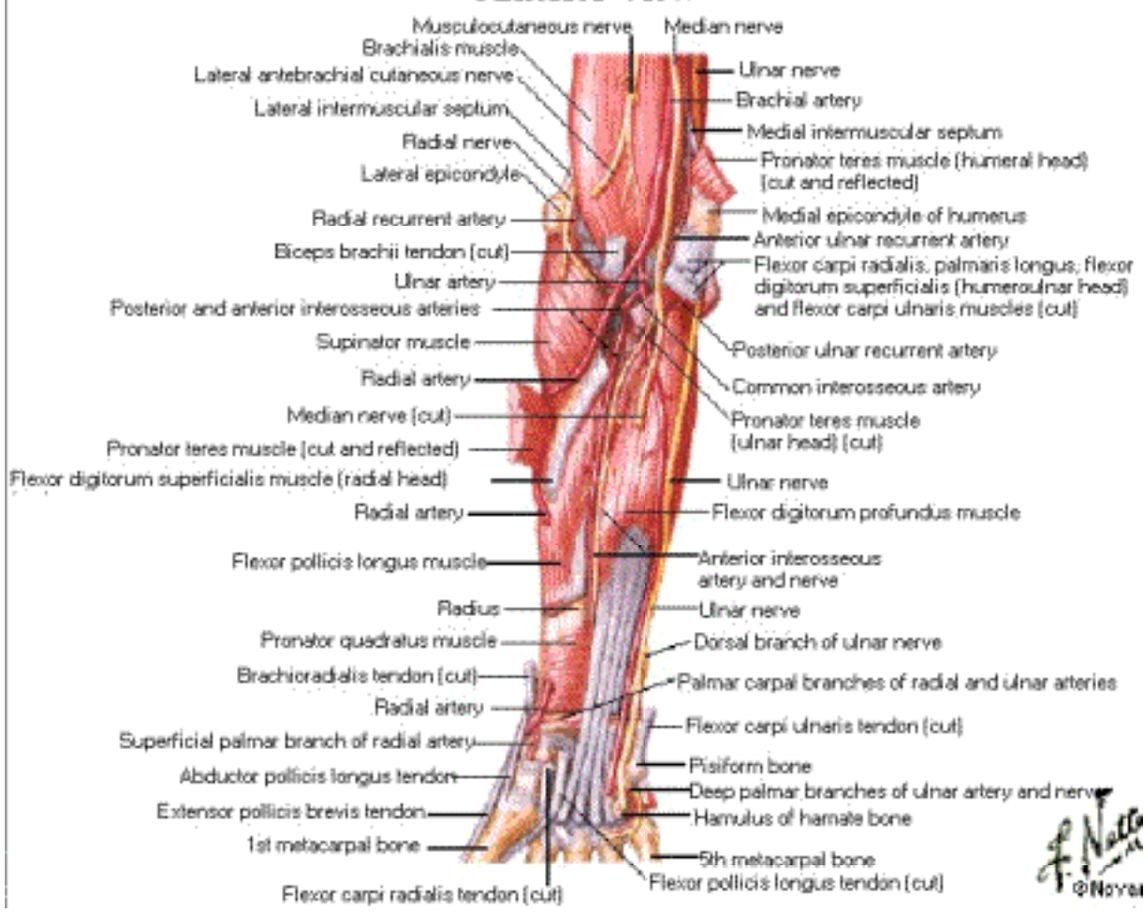
Muscles of Forearm [Intermediate Layer]

Anterior View



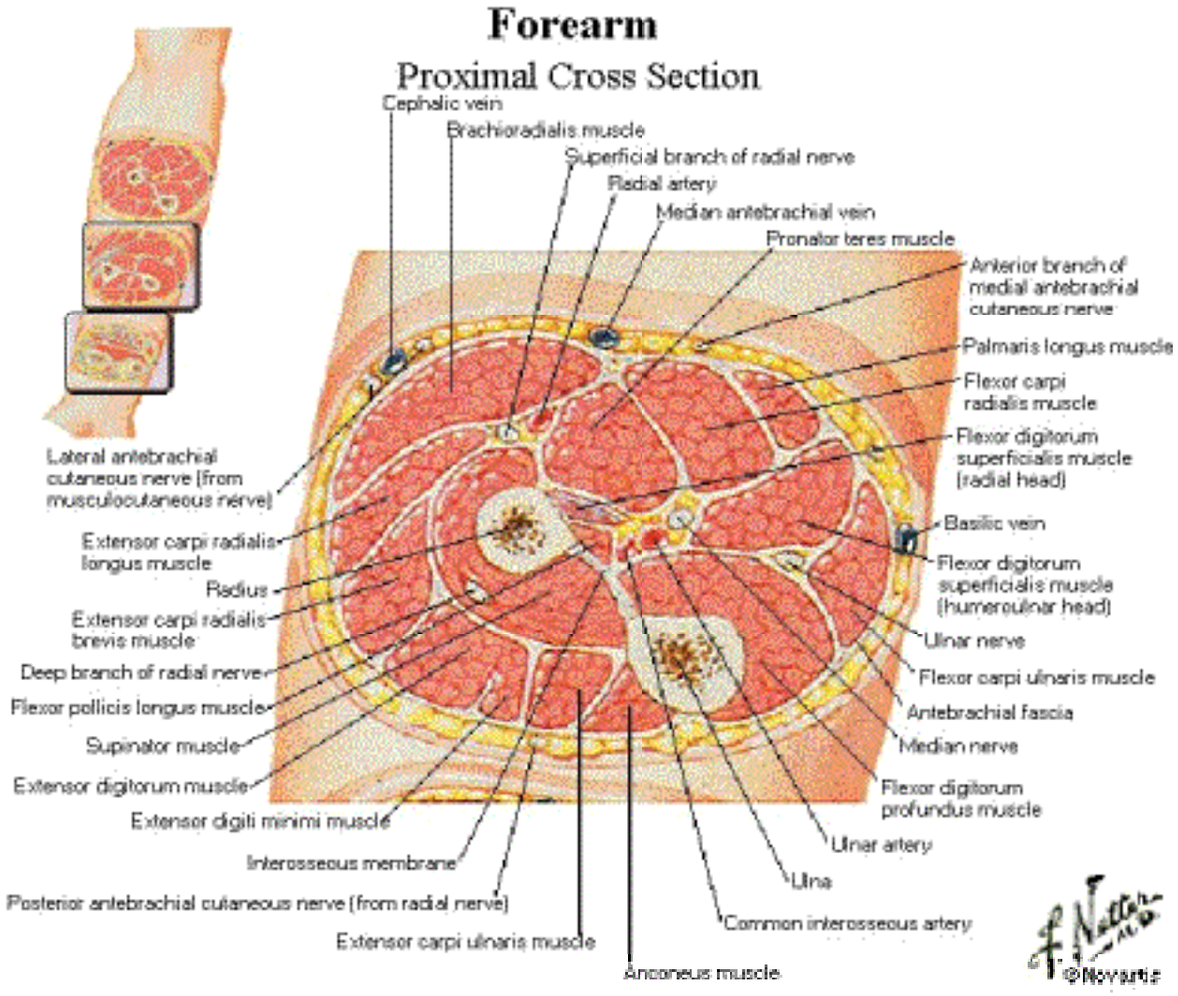
Muscles of Forearm [Deep Layer]

Anterior View



Forearm

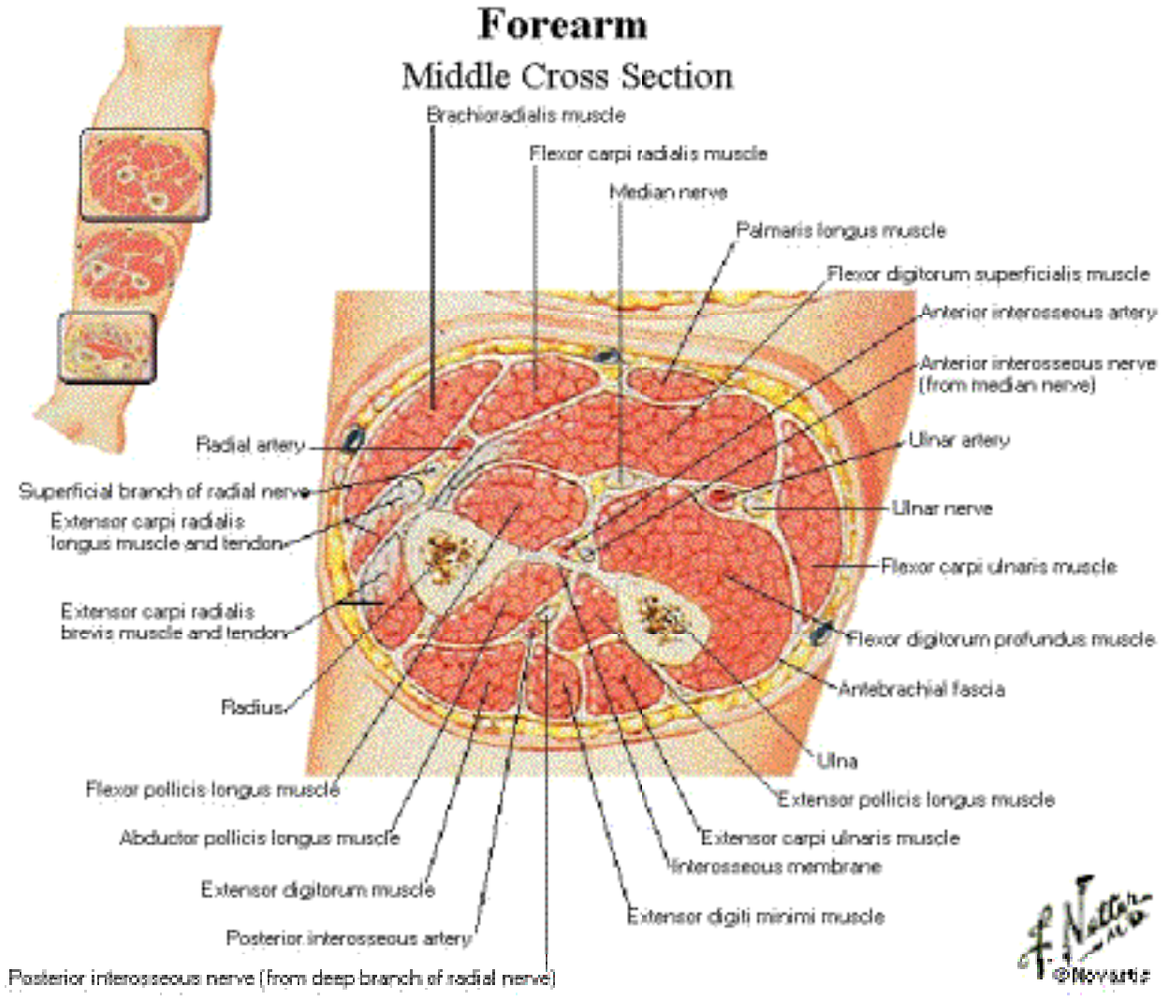
Proximal Cross Section



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Forearm

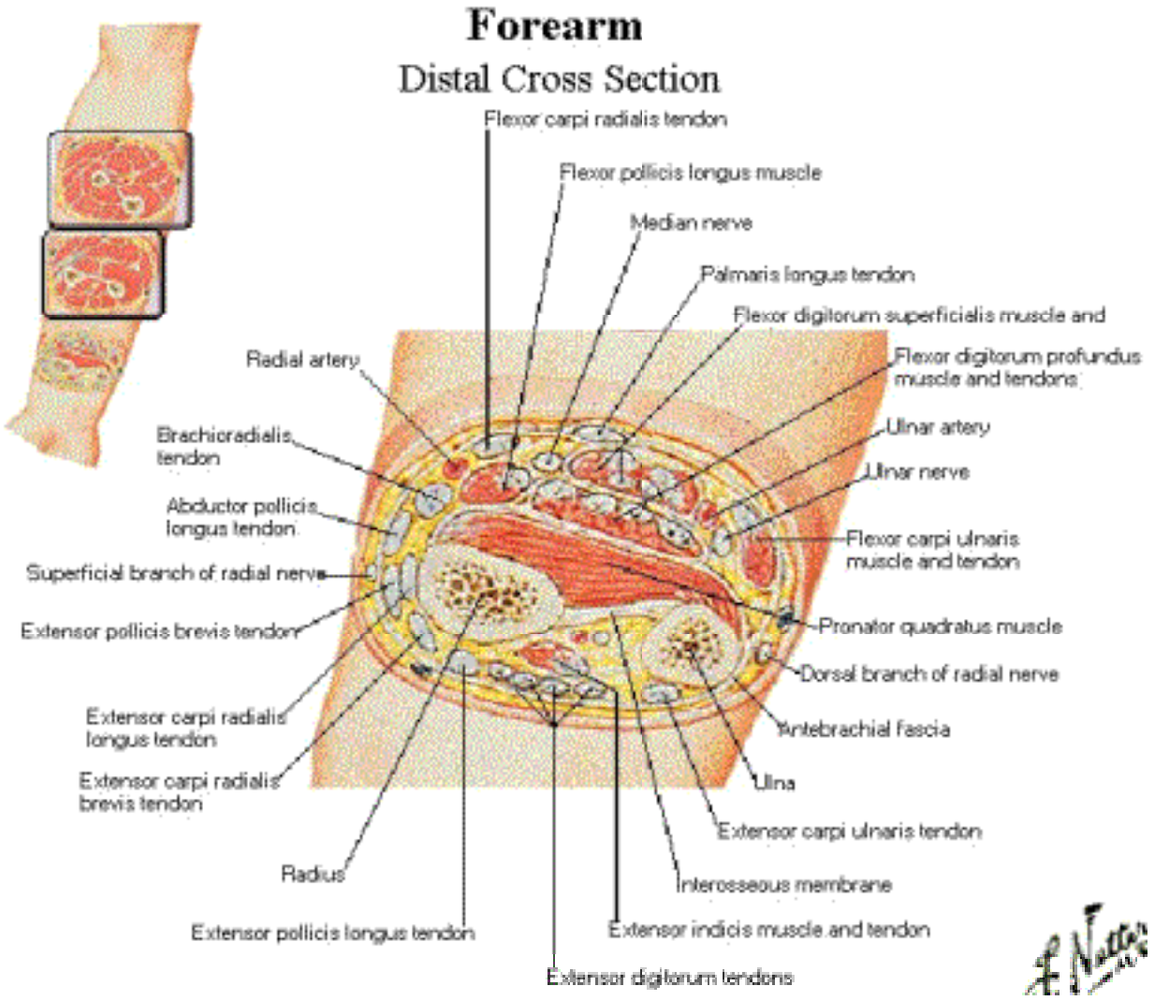
Middle Cross Section



©Novartis

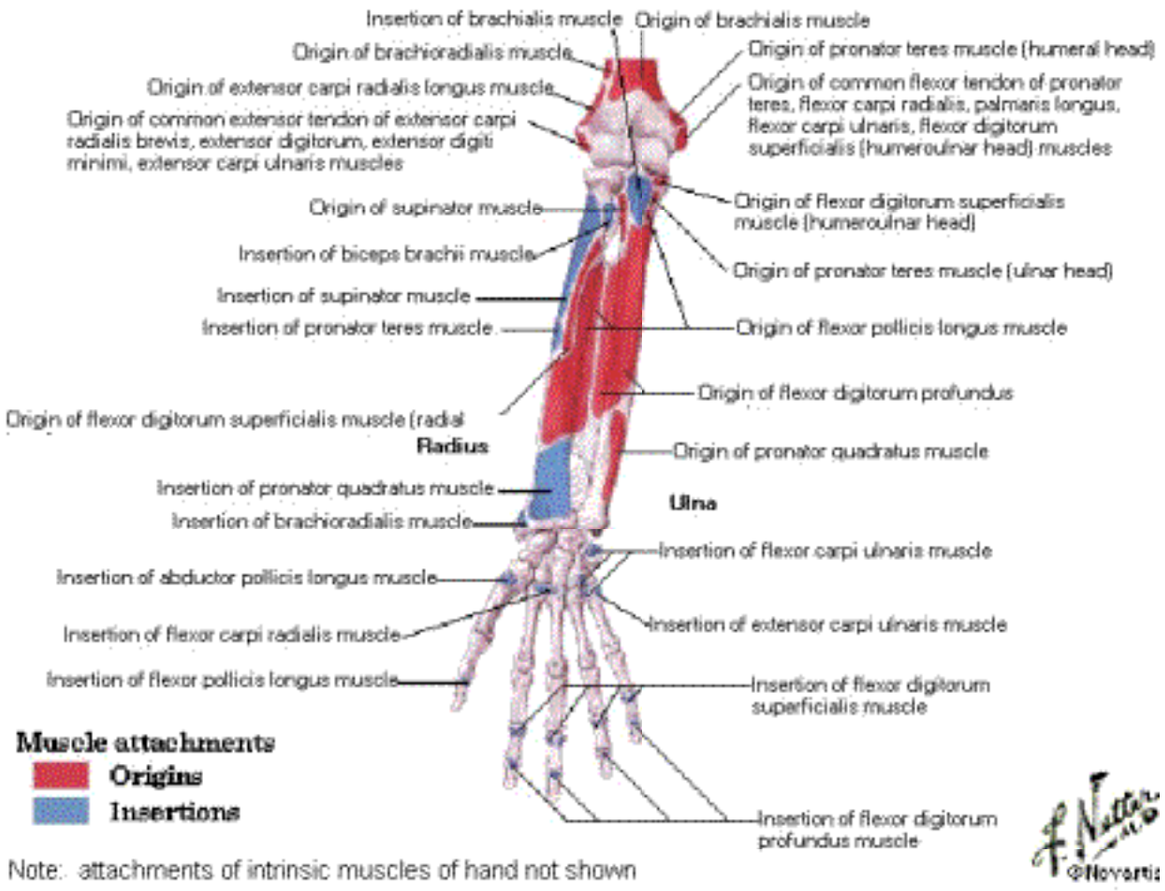
Forearm

Distal Cross Section



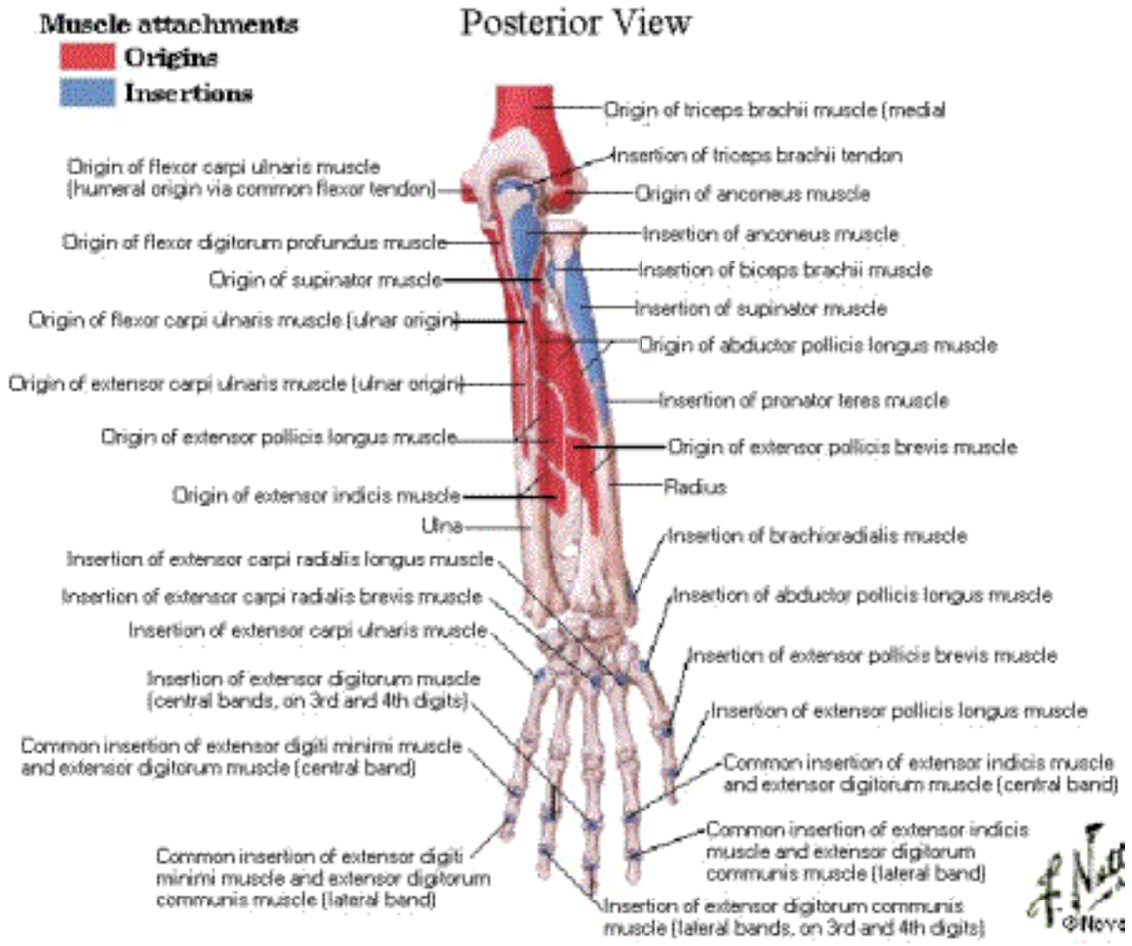
Bony Attachments of Muscles of Forearm

Anterior View



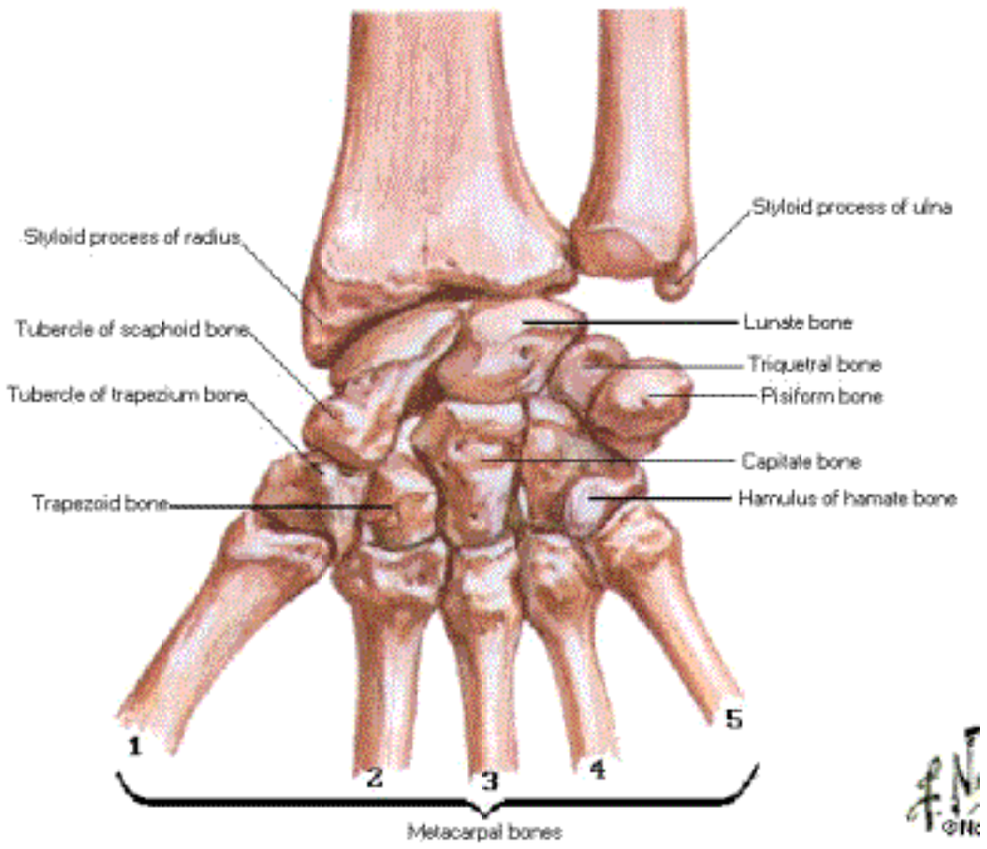
Note: attachments of intrinsic muscles of hand not shown

Bony Attachments of Muscles of Forearm



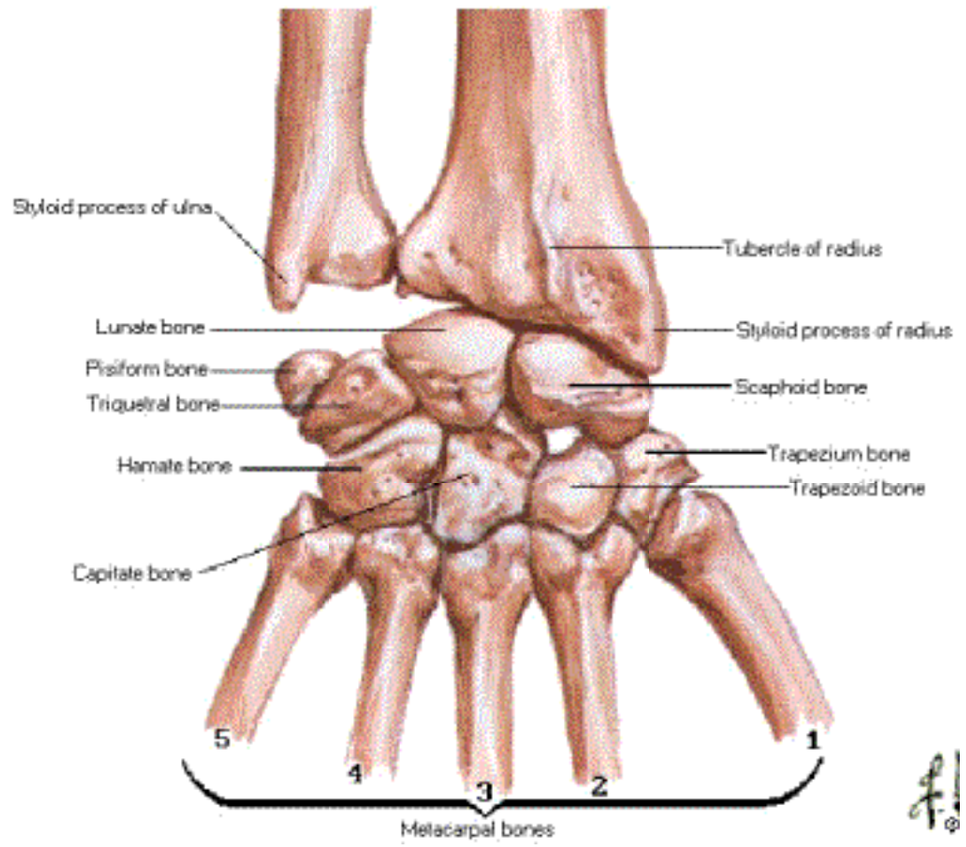
Carpal Bones

Anterior [Palmar] View



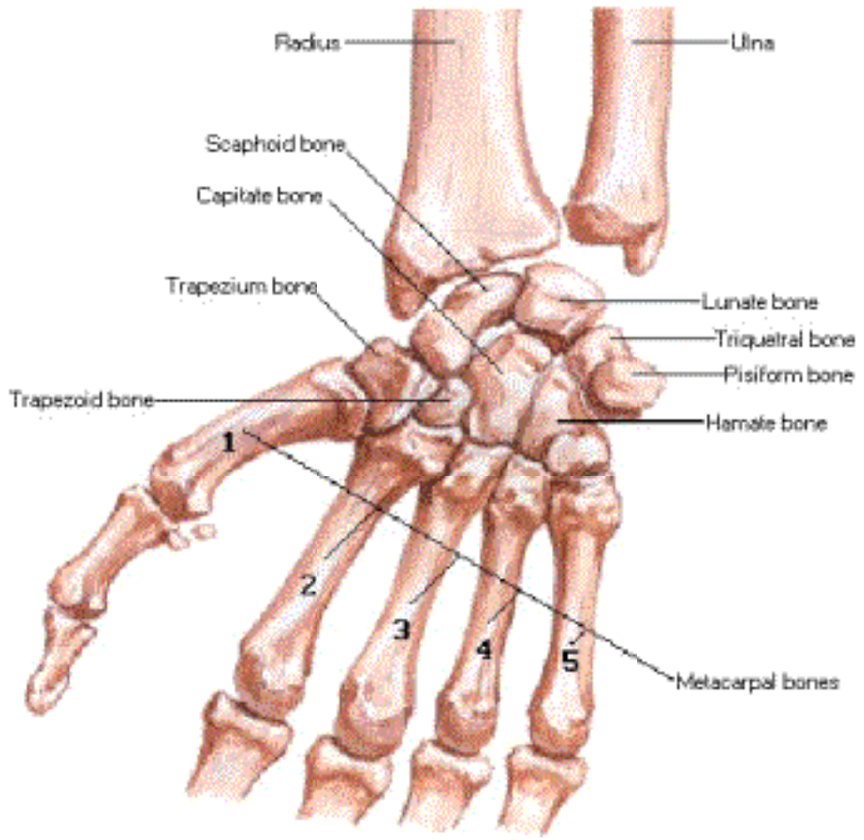
Carpal Bones

Posterior [Dorsal] View



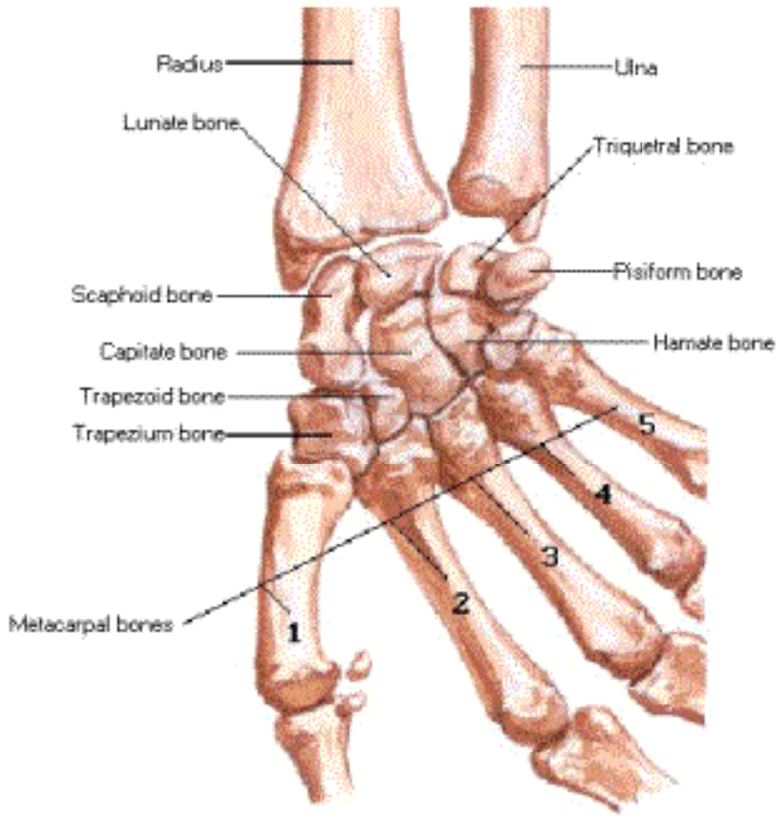
Movements of Wrist

Hand in Abduction - Anterior [Palmar] View



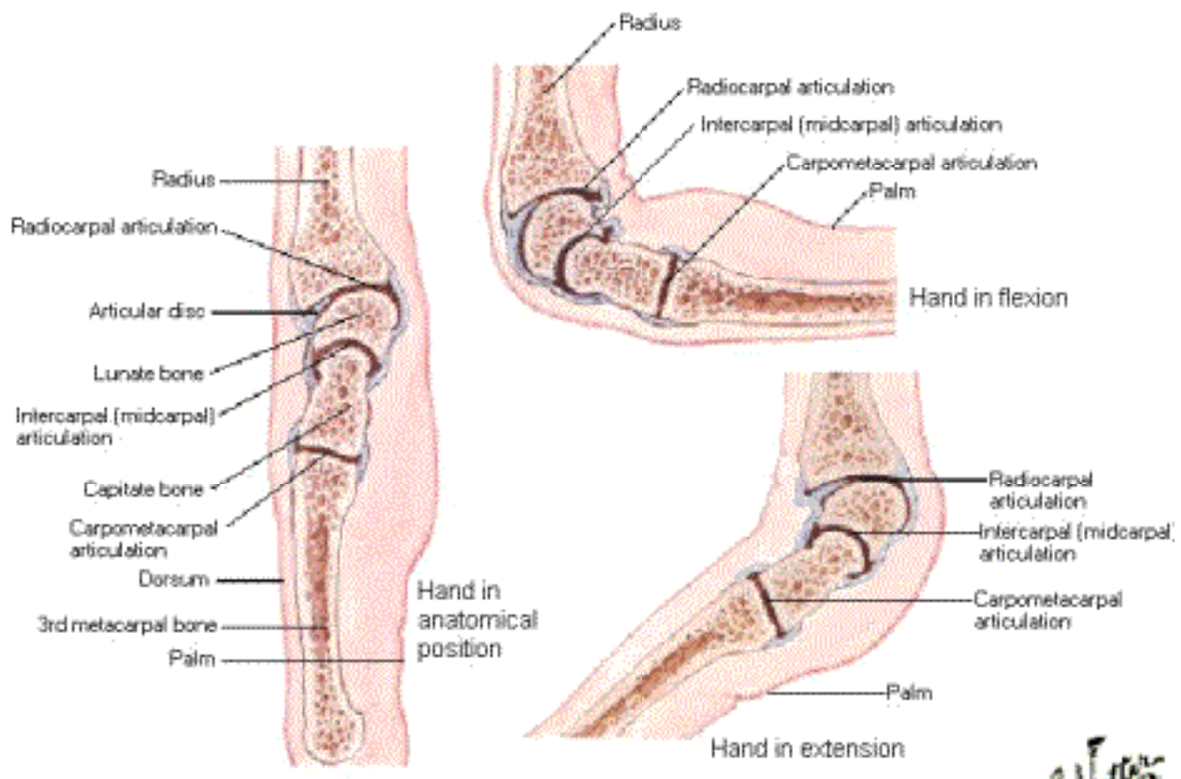
Movements of Wrist

Hand in Adduction - Anterior [Palmar] View



Movements of Wrist

Sagittal Sections

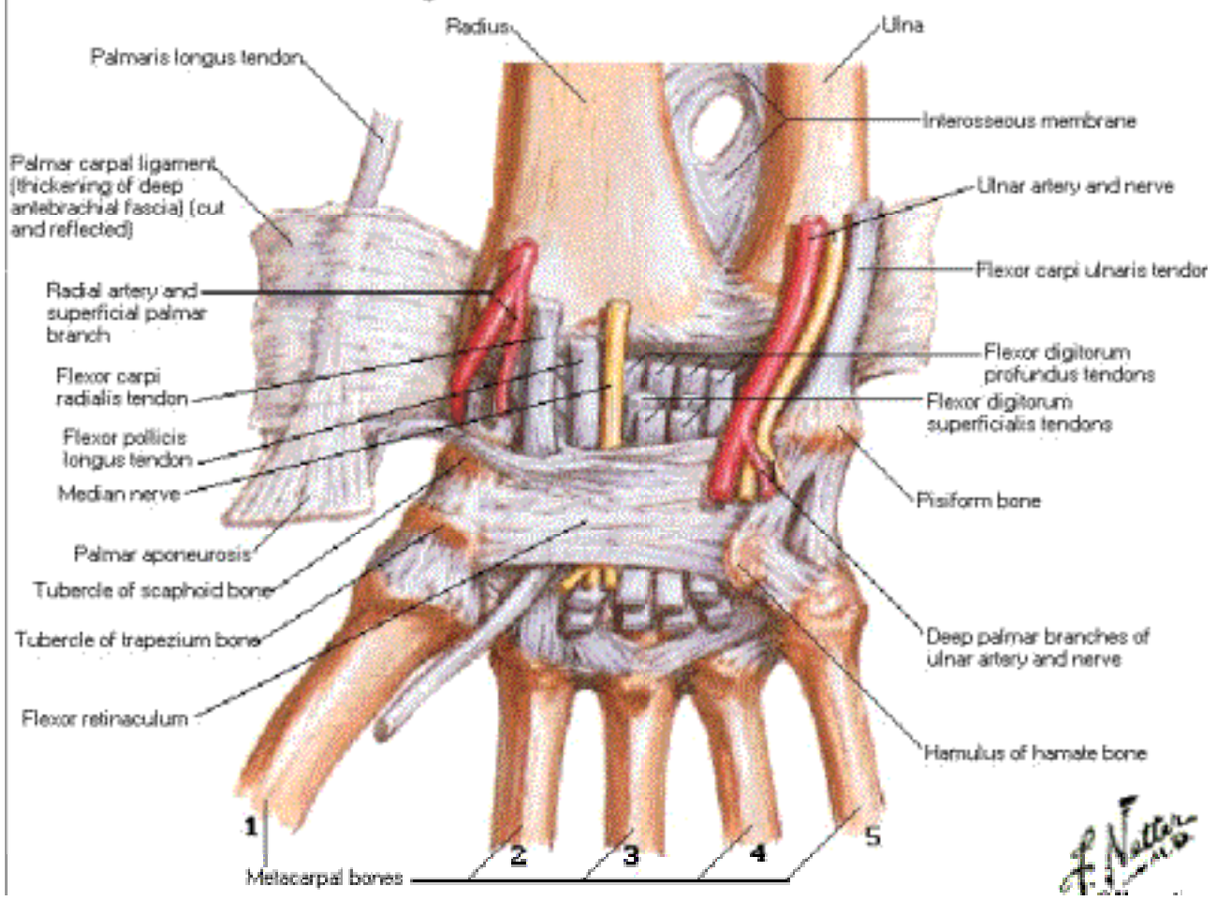


Sagittal sections through wrist and middle finger

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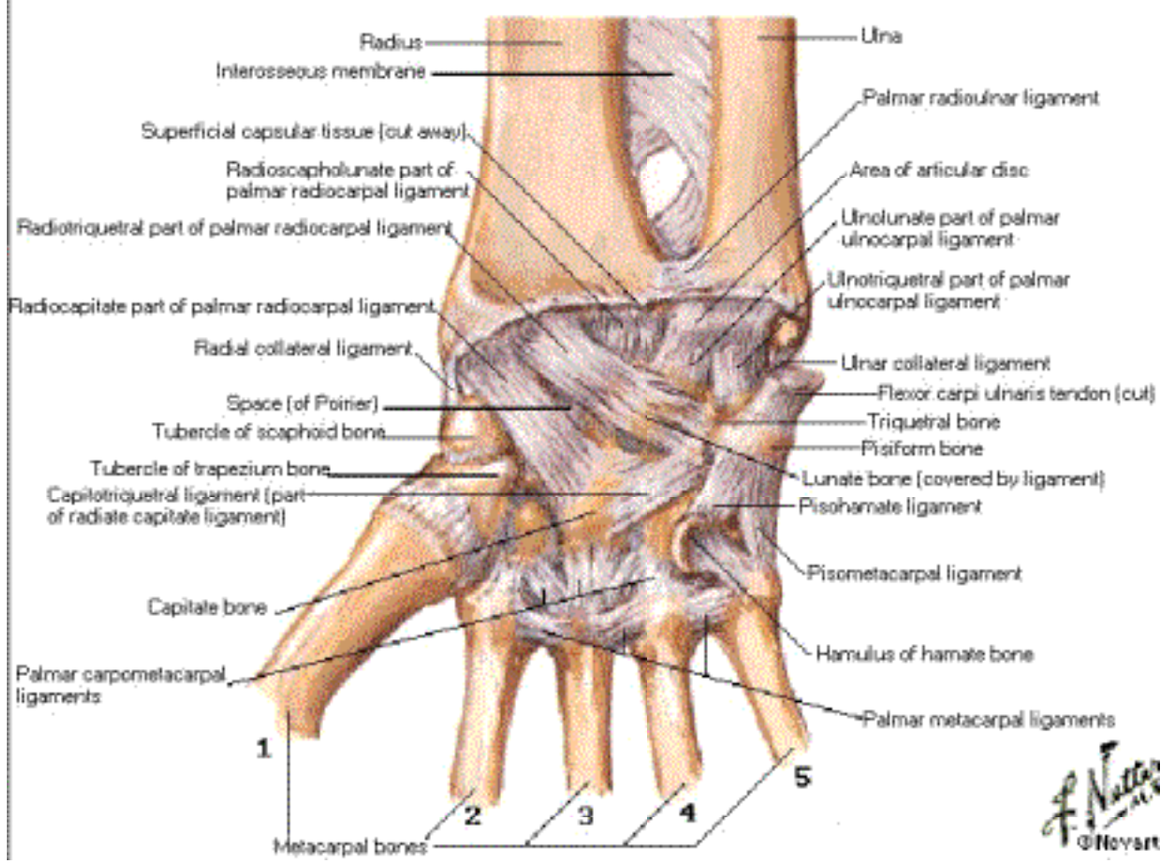
Ligaments of Wrist

Carpal Tunnel - Palmar View



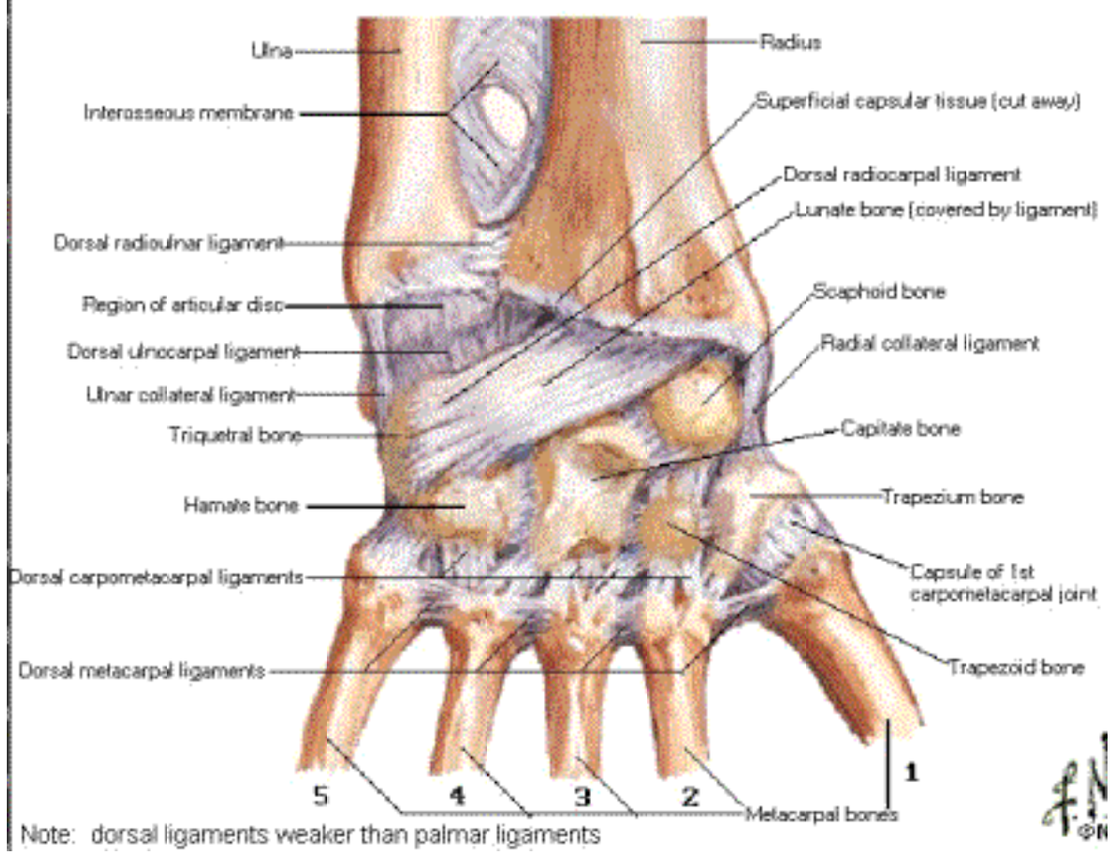
Ligaments of Wrist

Flexor Retinaculum Removed - Palmar View



Ligaments of Wrist

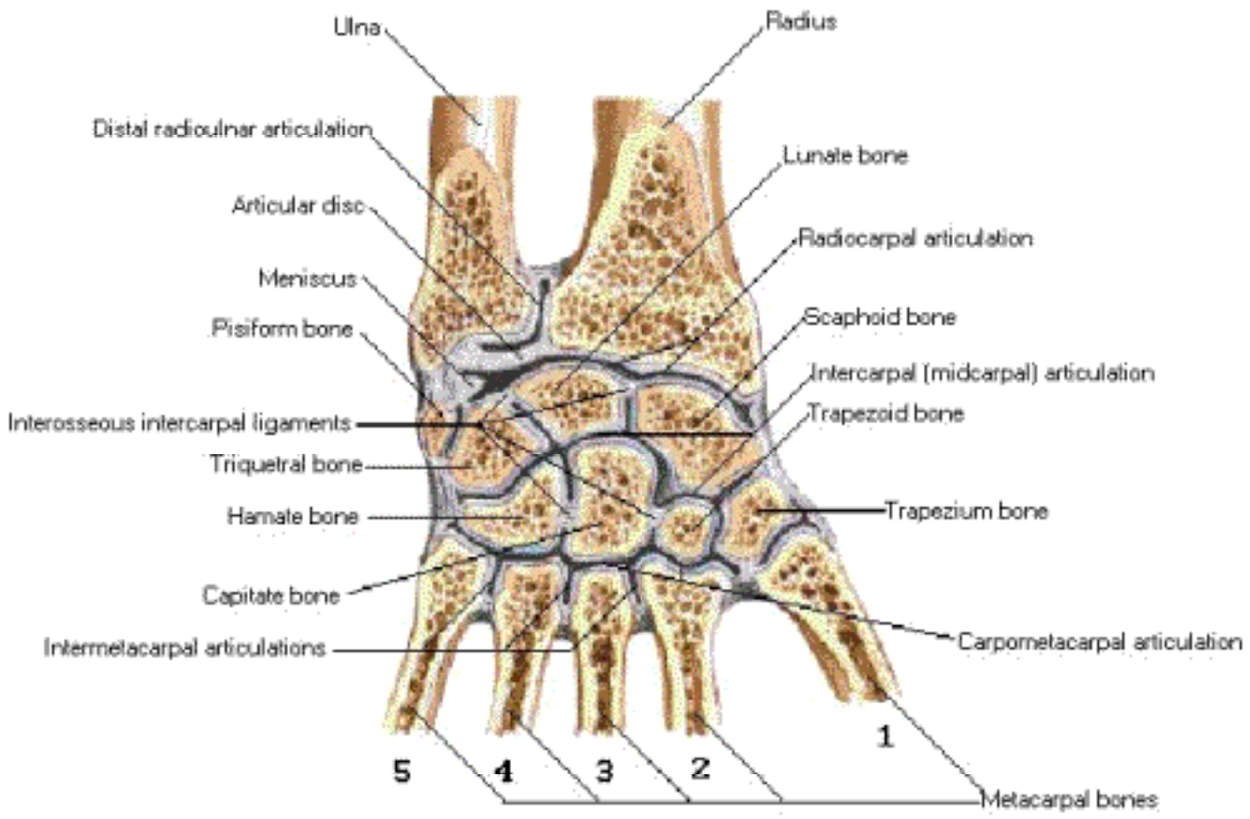
Posterior [Dorsal] View



Note: dorsal ligaments weaker than palmar ligaments

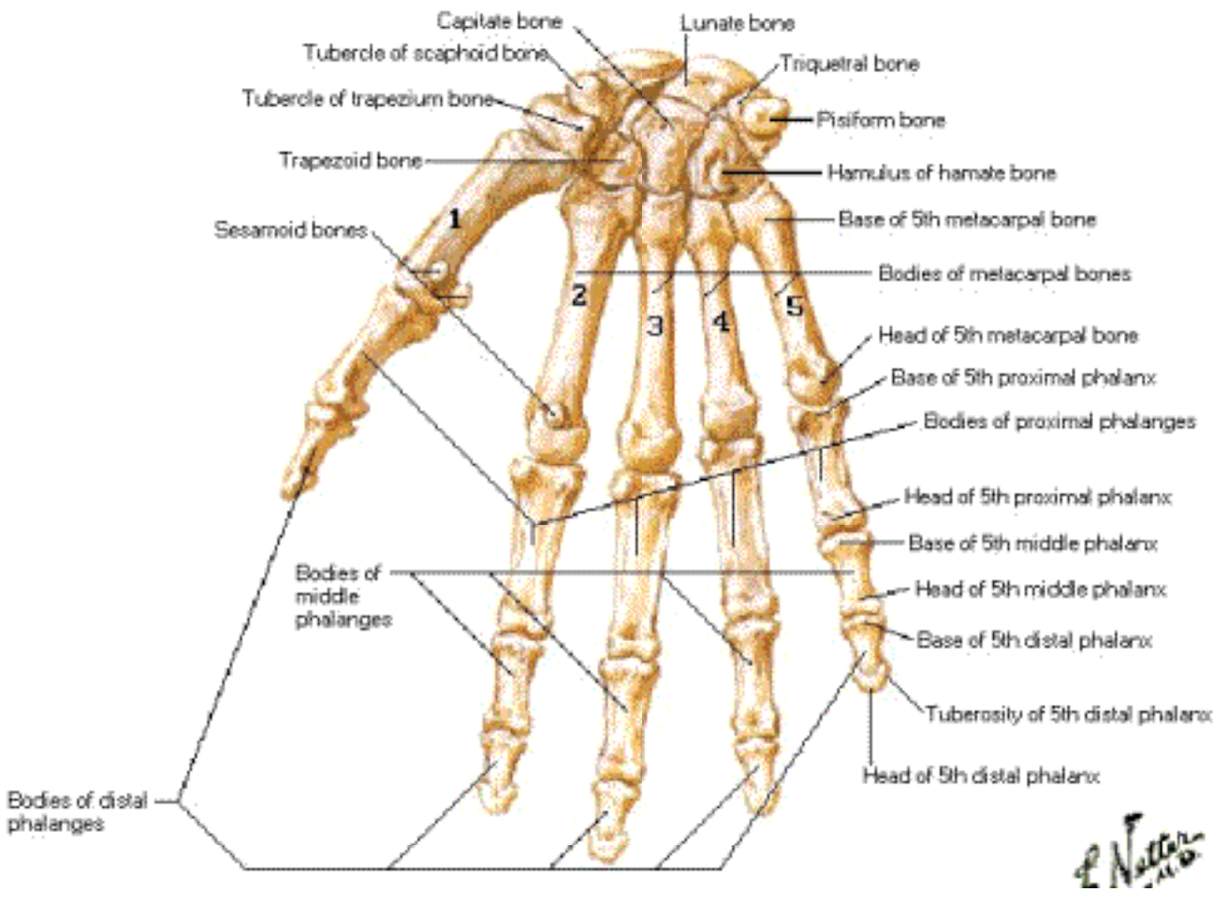
Ligaments of Wrist

Coronal Section - Dorsal View



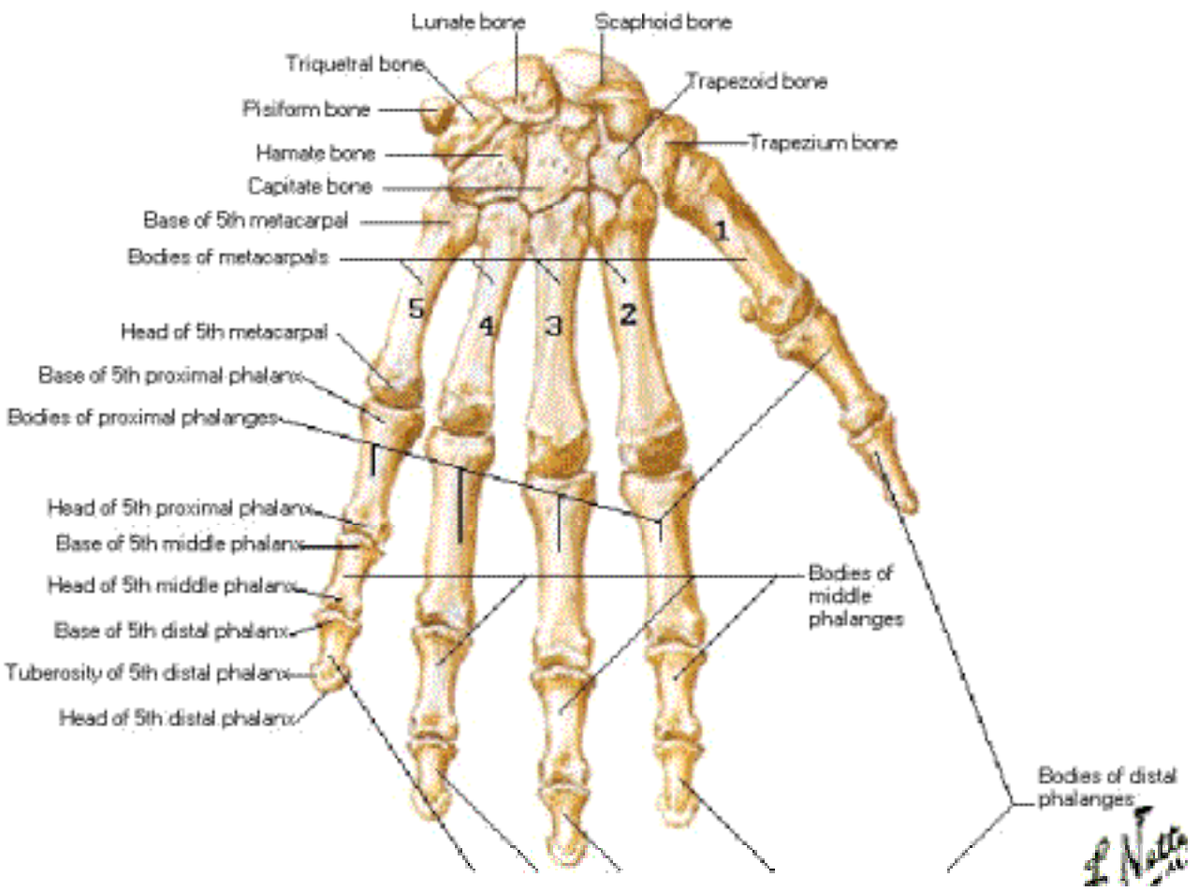
Bones of Right Wrist and Hand

Anterior [Palmar] View



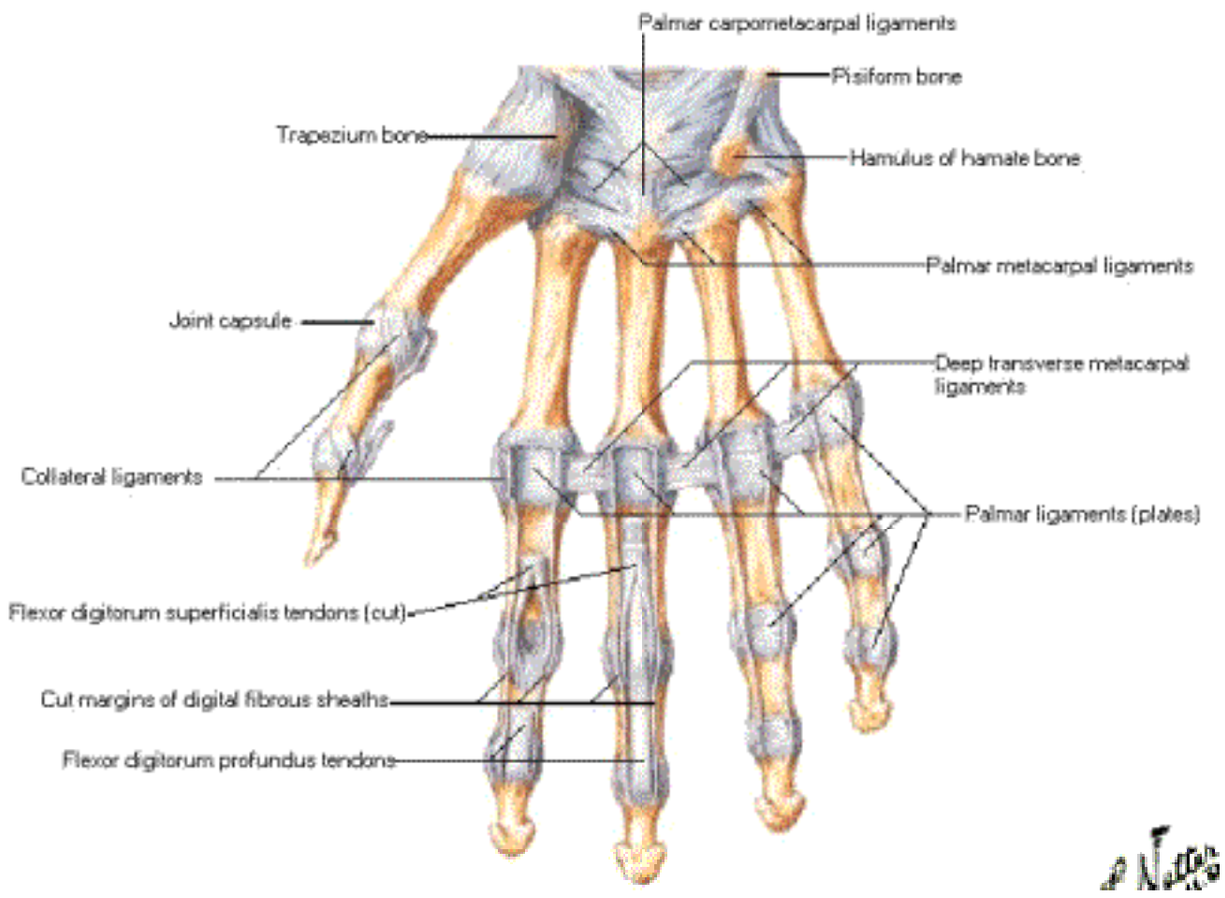
Bones of Right Wrist and Hand

Posterior [Dorsal] View



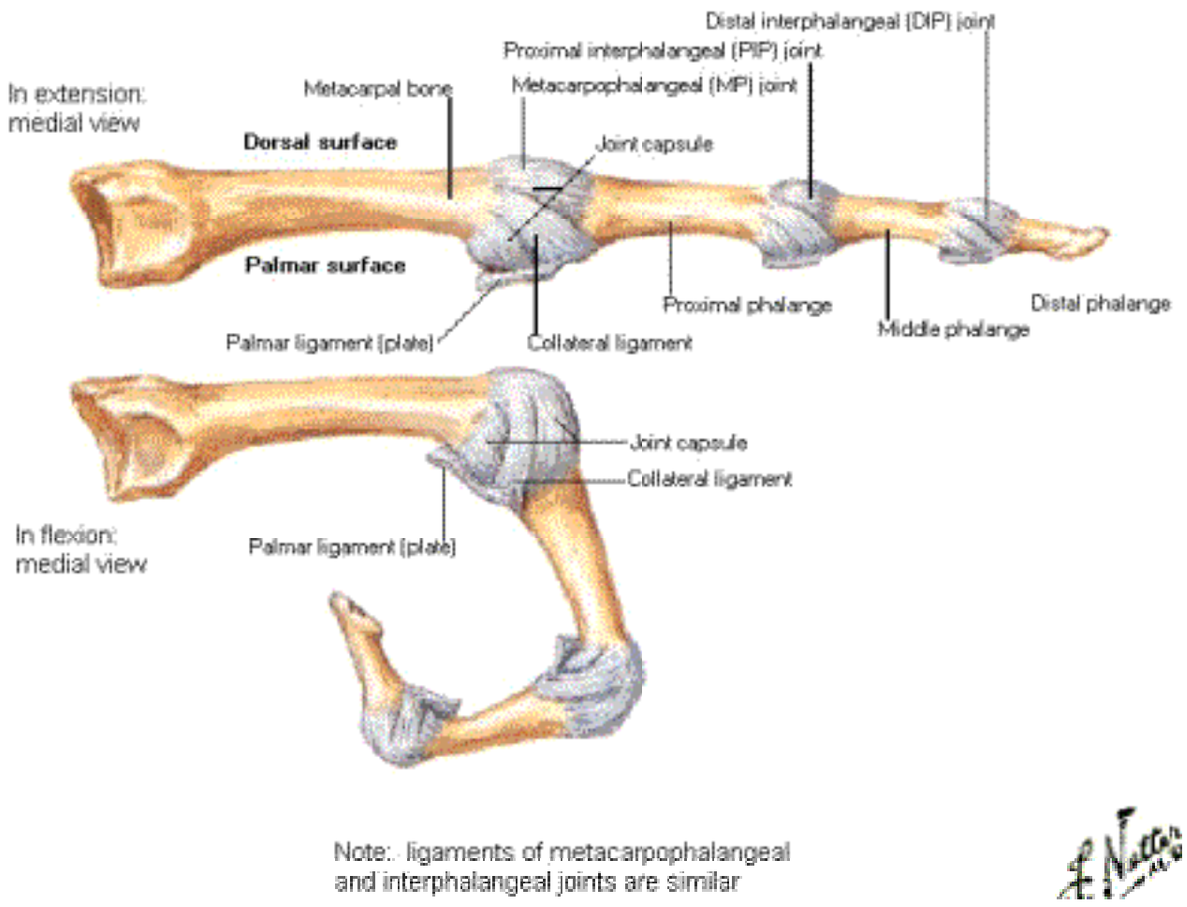
Metacarpophalangeal and Interphalangeal Ligaments

Palmar View



Metacarpophalangeal and Interphalangeal Ligaments

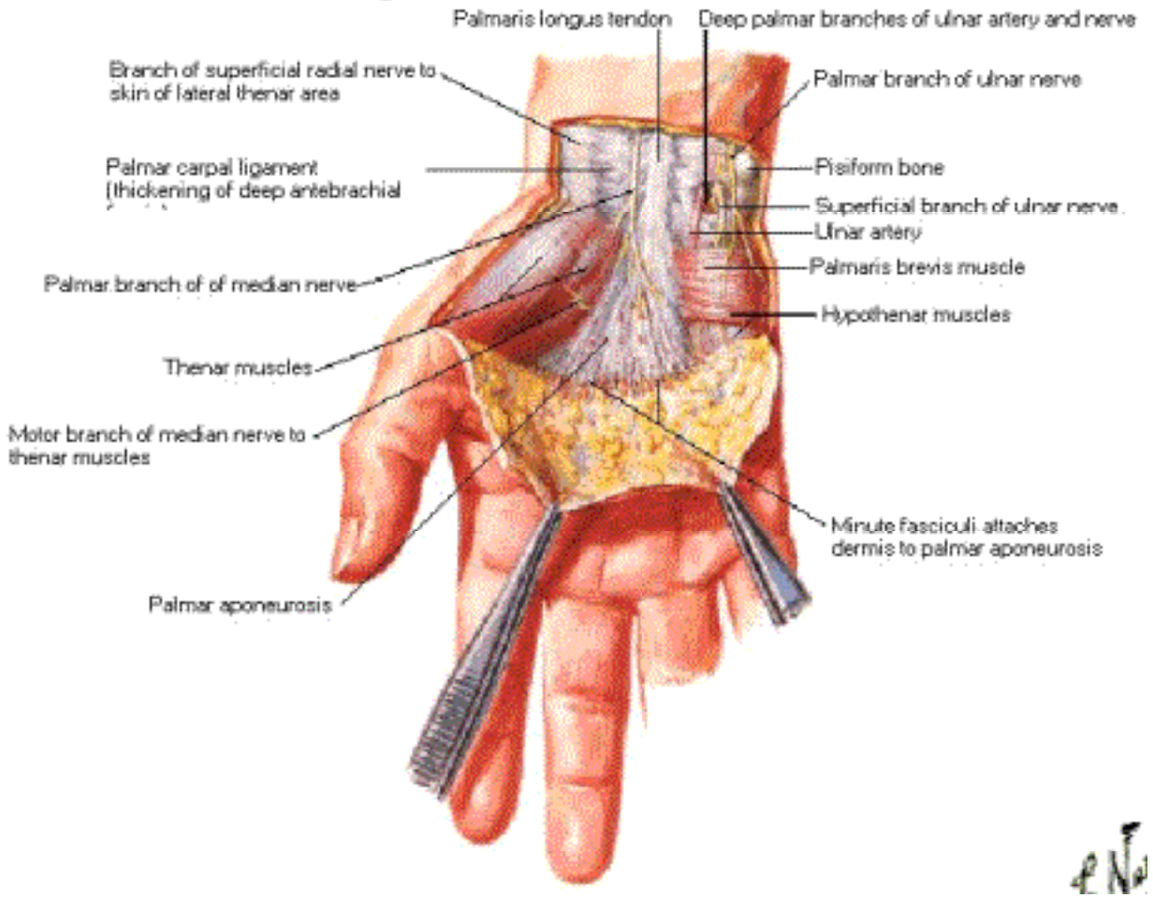
Medial Views



Note:. ligaments of metacarpophalangeal and interphalangeal joints are similar

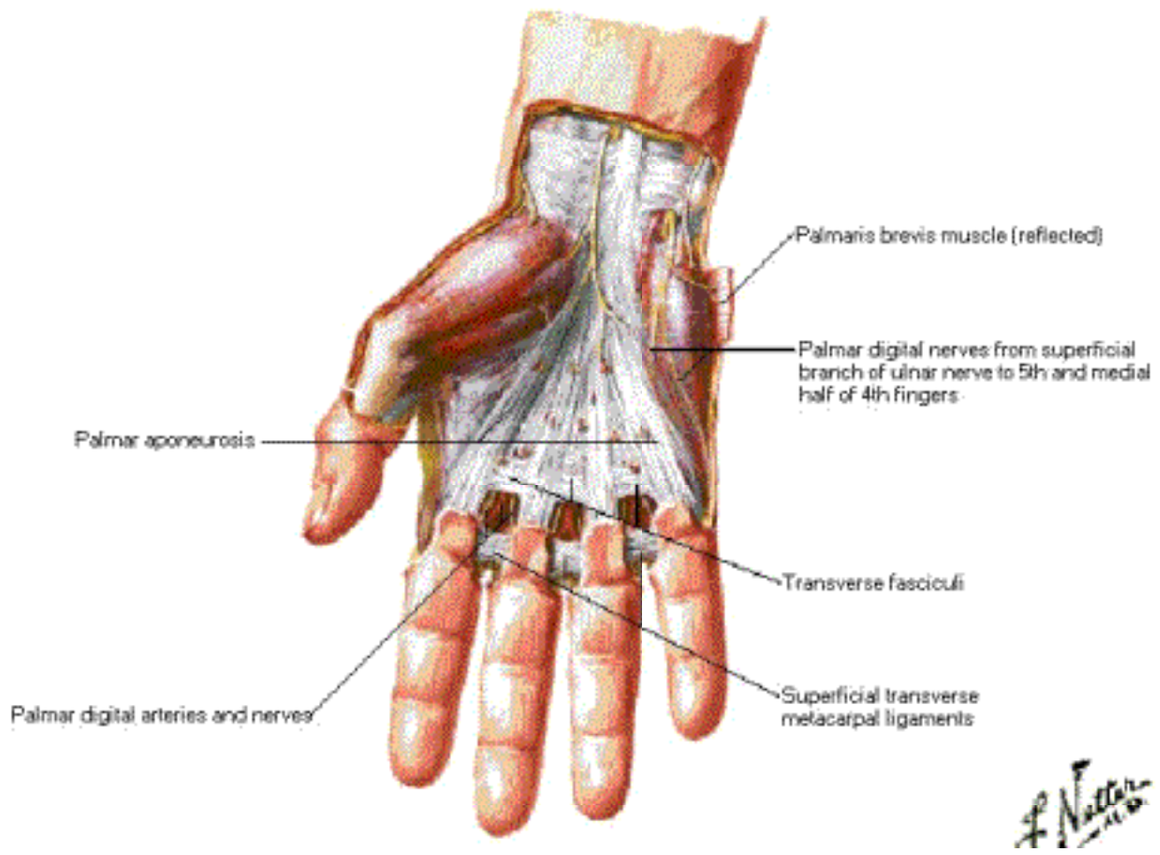
Wrist and Hand

Superficial Palmar Dissections



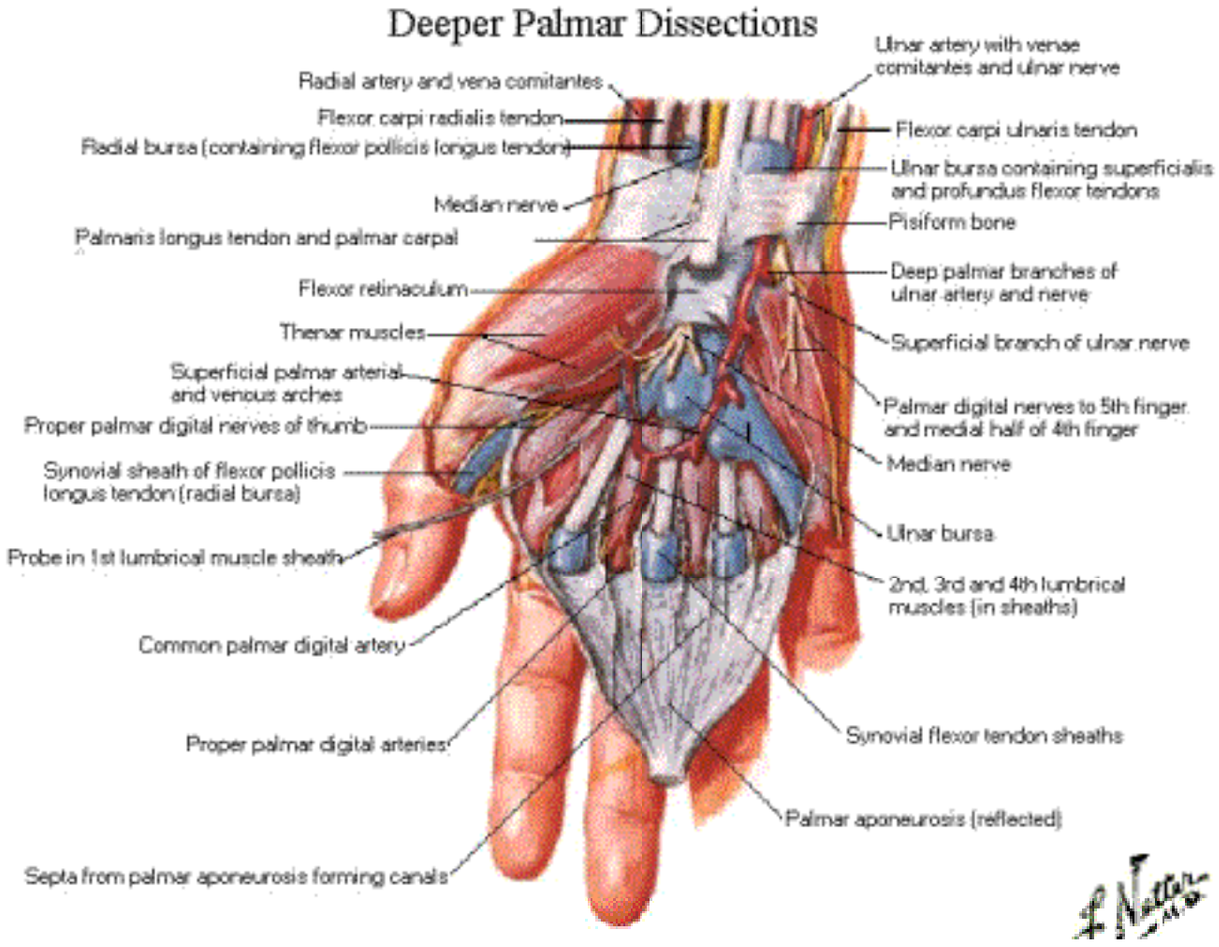
Wrist and Hand

Superficial Palmar Dissections [Continued]



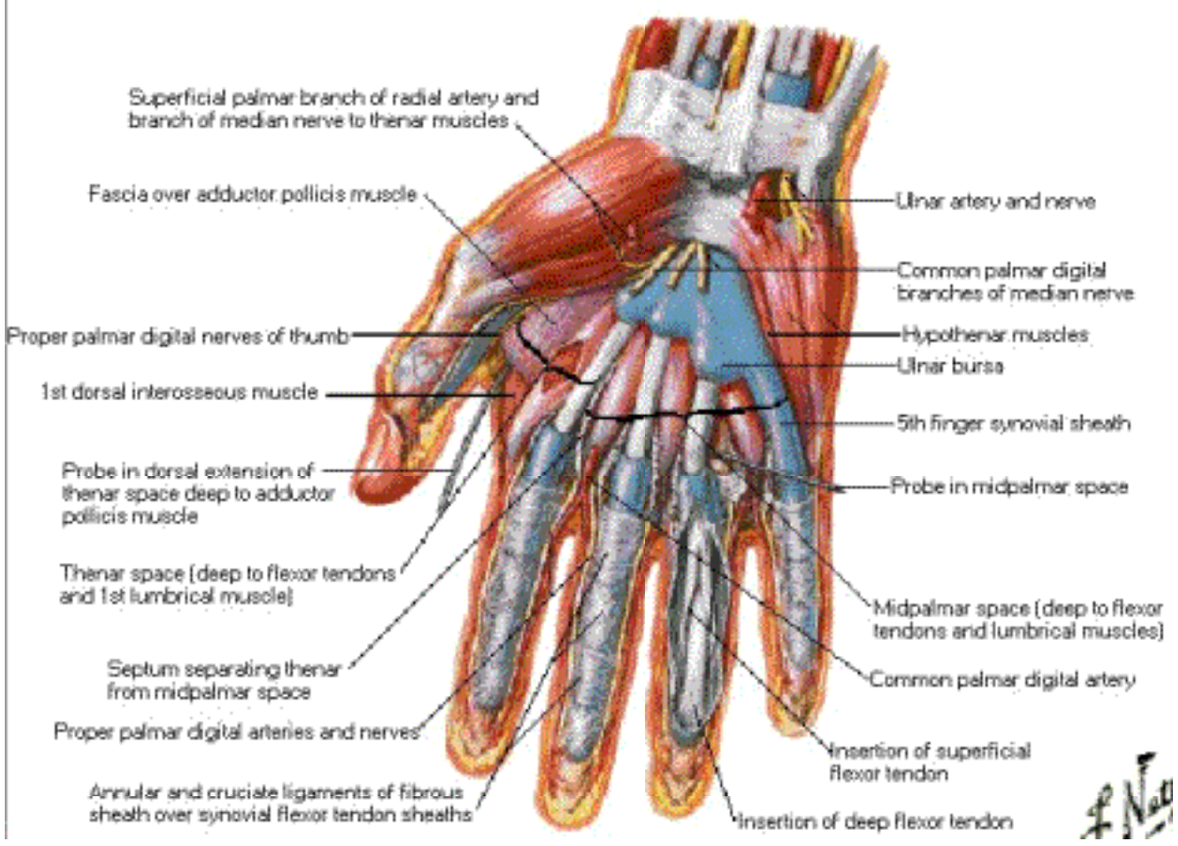
Wrist and Hand

Deeper Palmar Dissections



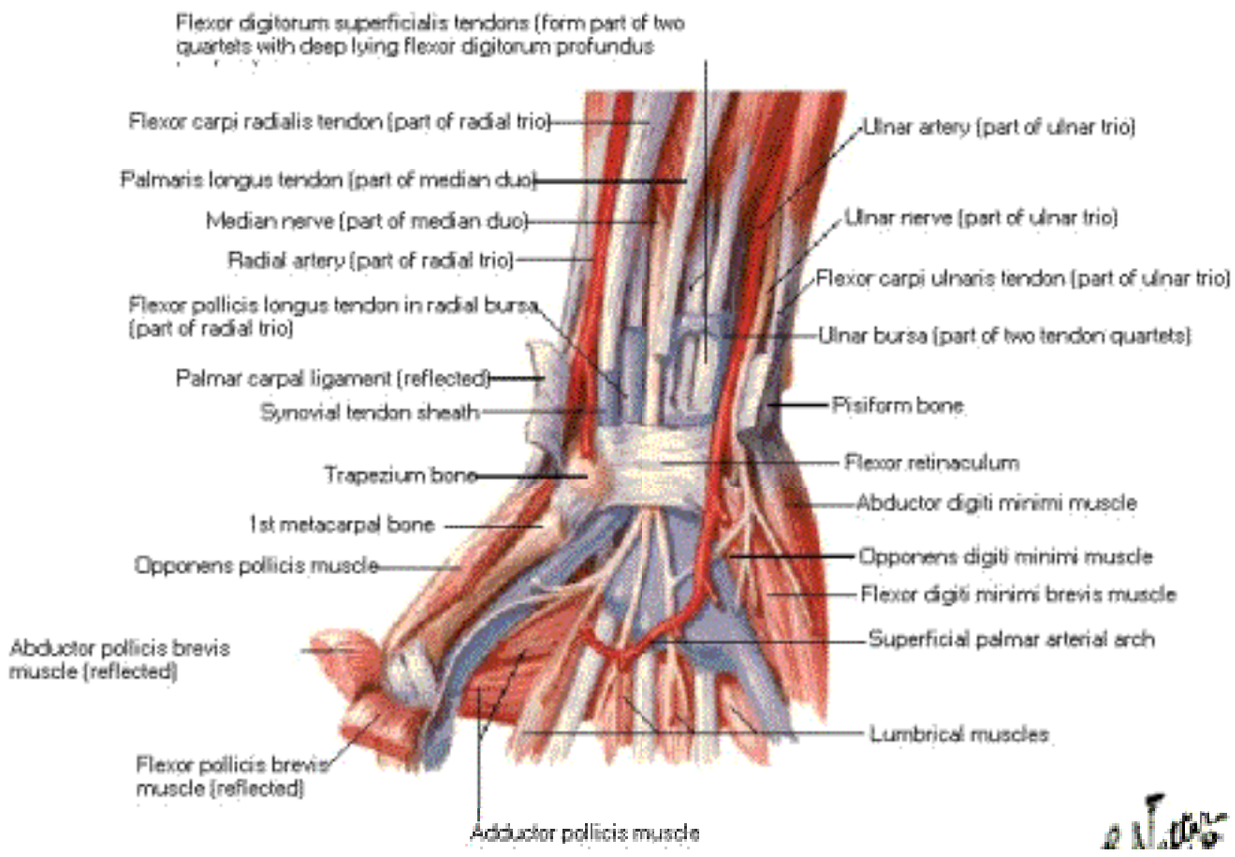
Wrist and Hand

Deeper Palmar Dissections [Continued]



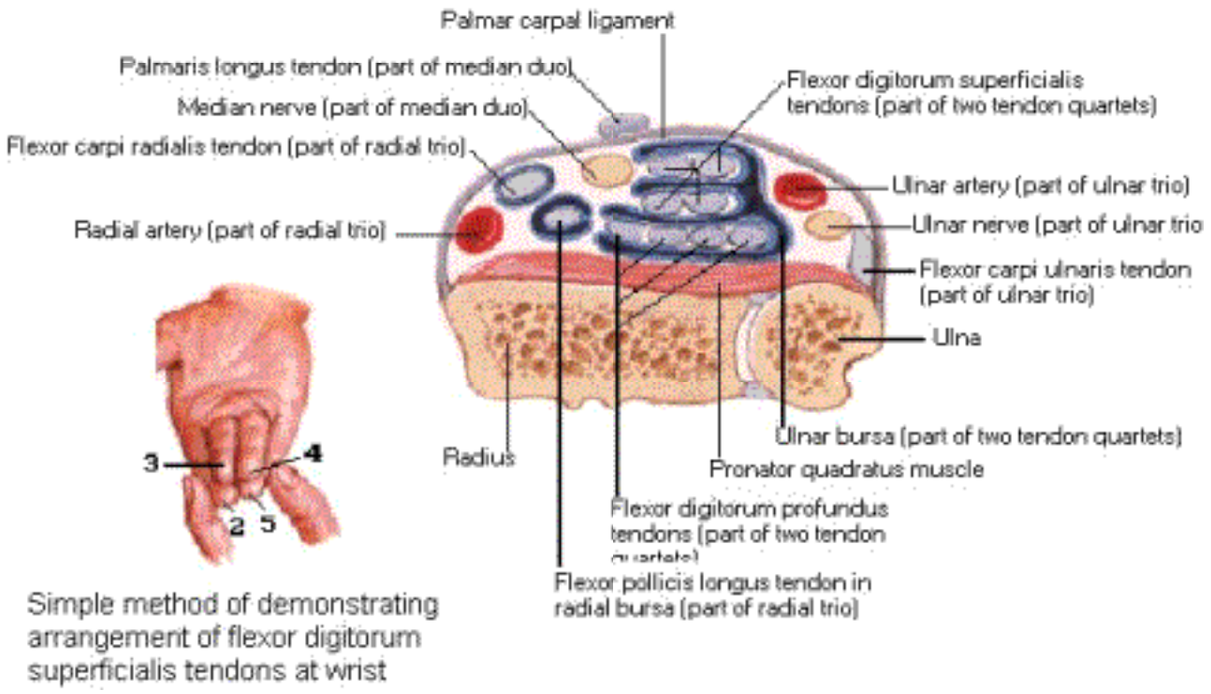
Flexor Tendons, Arteries and Nerves at Wrist

Palmar View



Flexor Tendons, Arteries and Nerves at Wrist

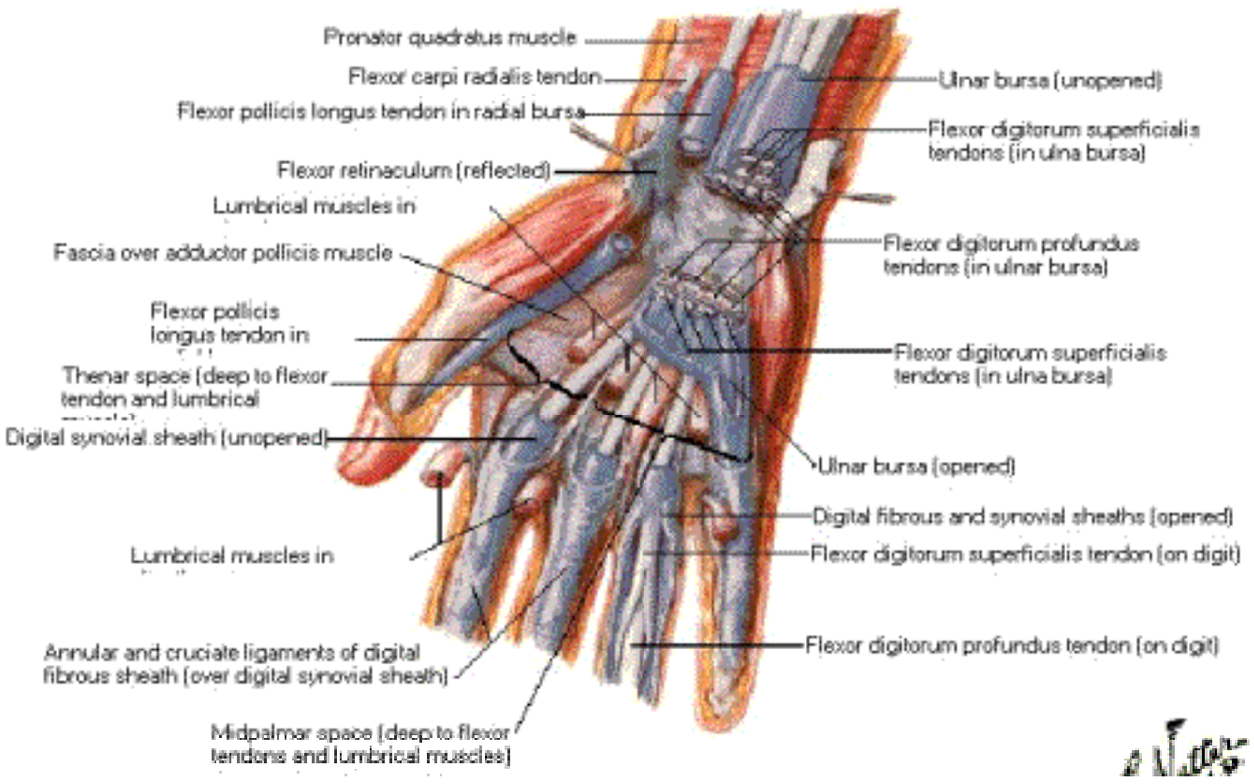
Cross Section



Simple method of demonstrating arrangement of flexor digitorum superficialis tendons at wrist

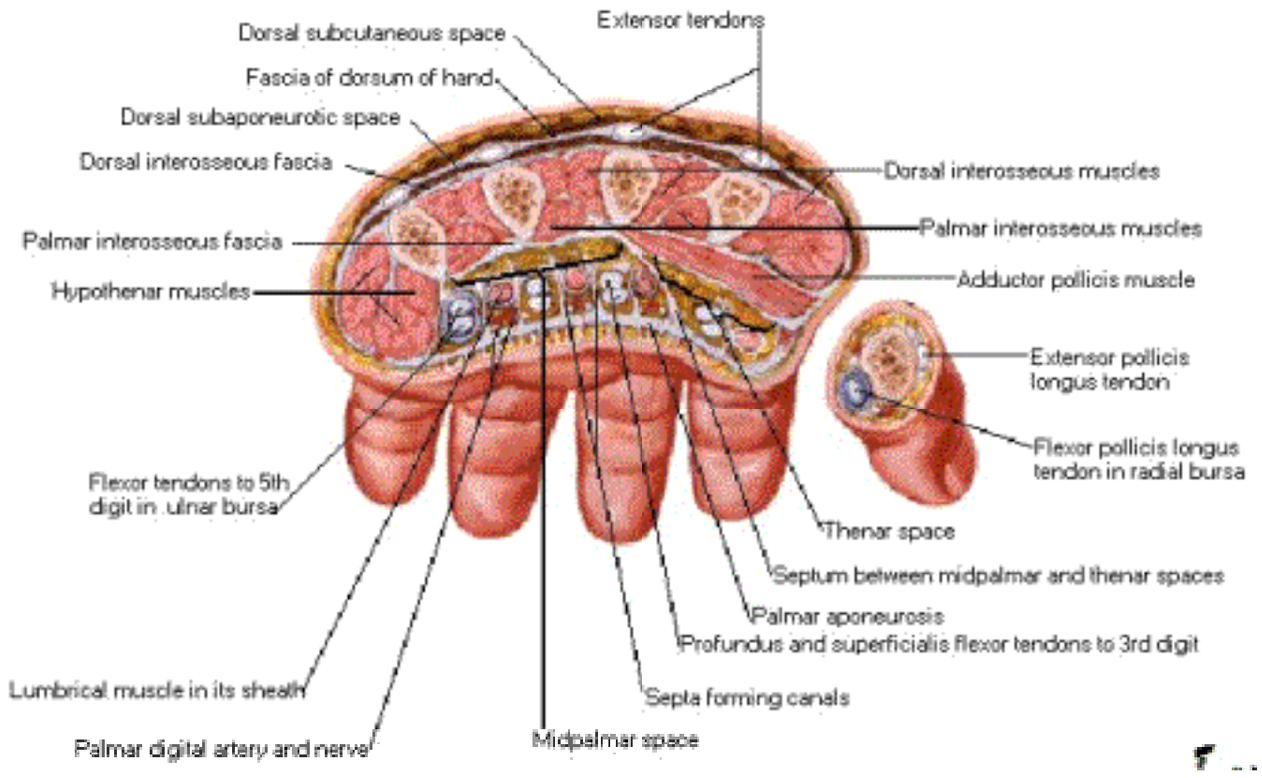
Bursae, Spaces and Tendon Sheaths of Hand

Palmar View



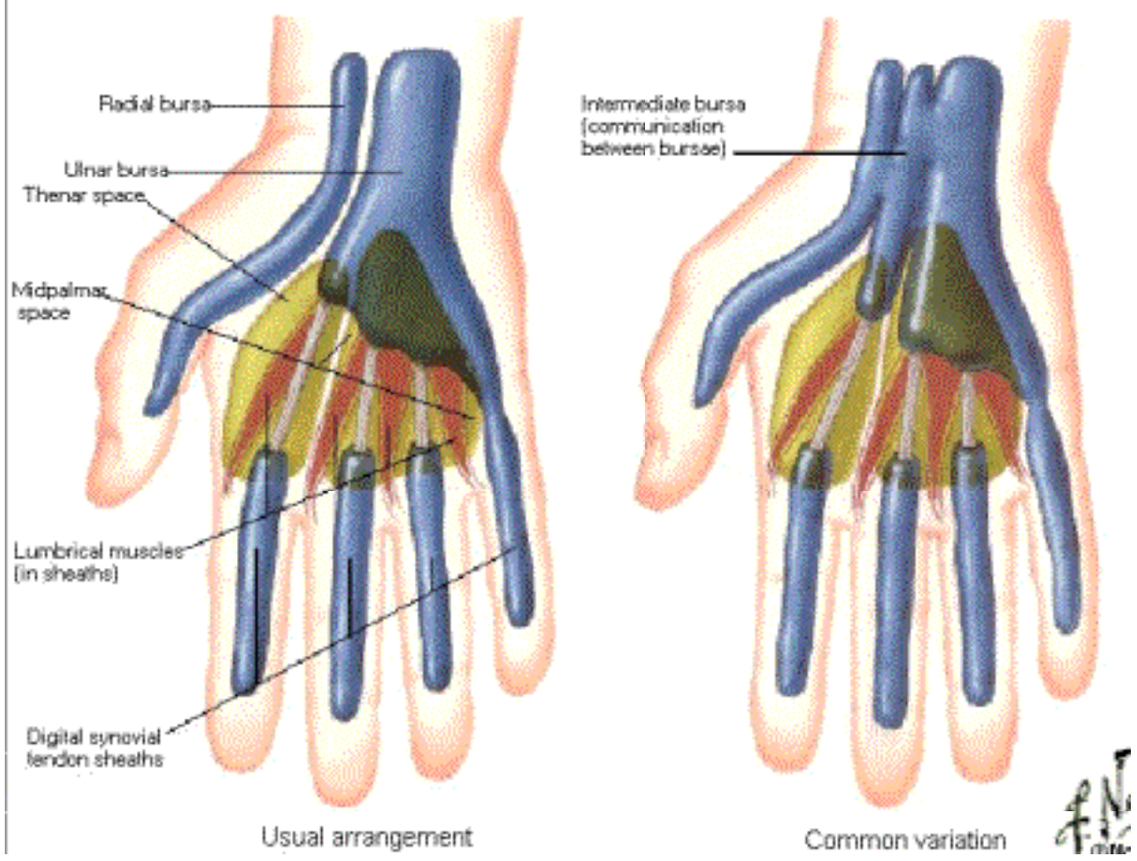
Bursae, Spaces and Tendon Sheaths of Hand

Cross Section



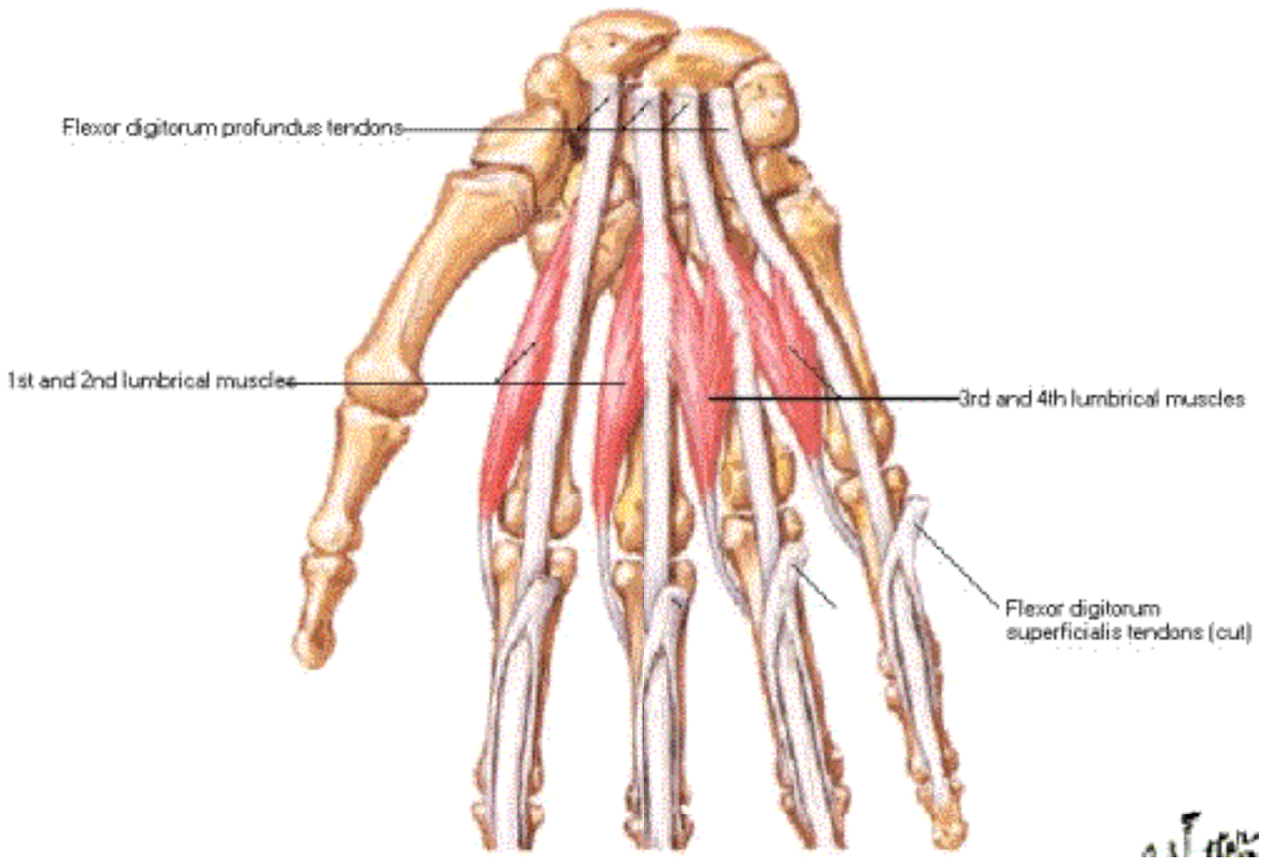
Lumbrical Muscles and Bursae, Spaces and Sheaths

Schema



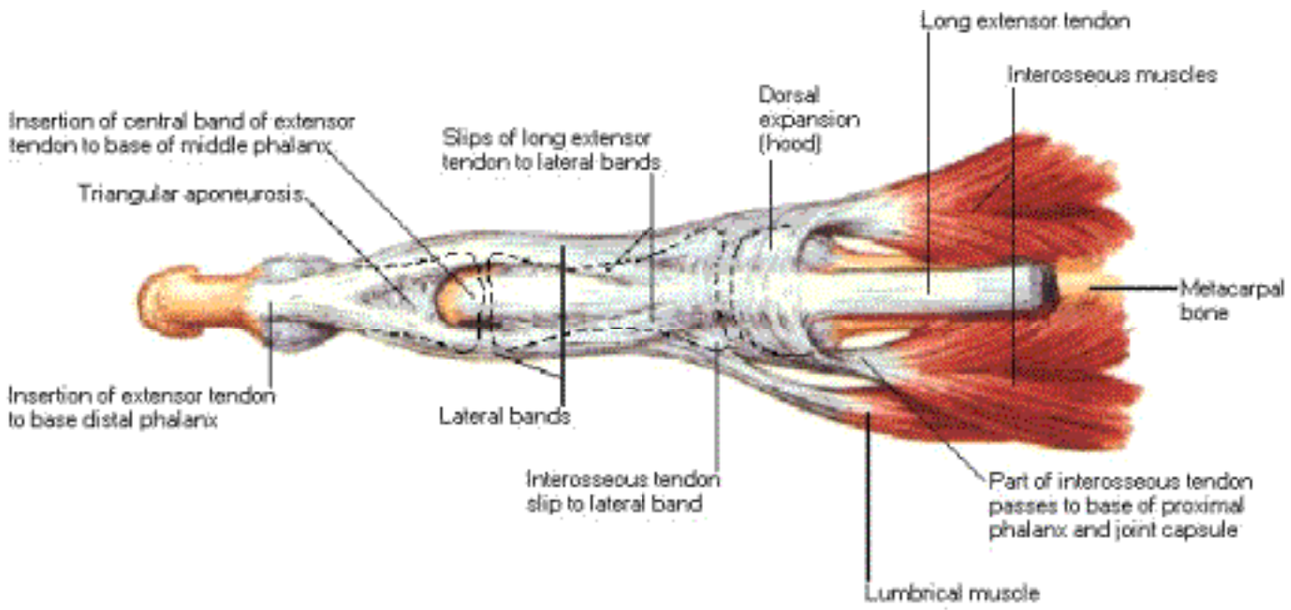
Lumbrical Muscles

Schema



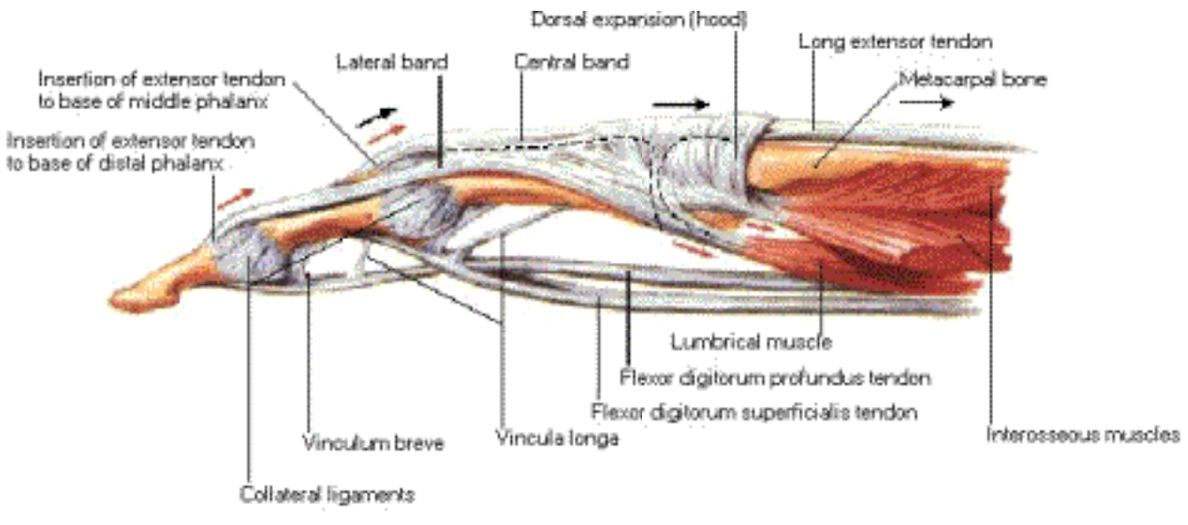
Flexor and Extensor Tendons in Fingers

Posterior [Dorsal] View



Flexor and Extensor Tendons in Fingers

Extended - Lateral View

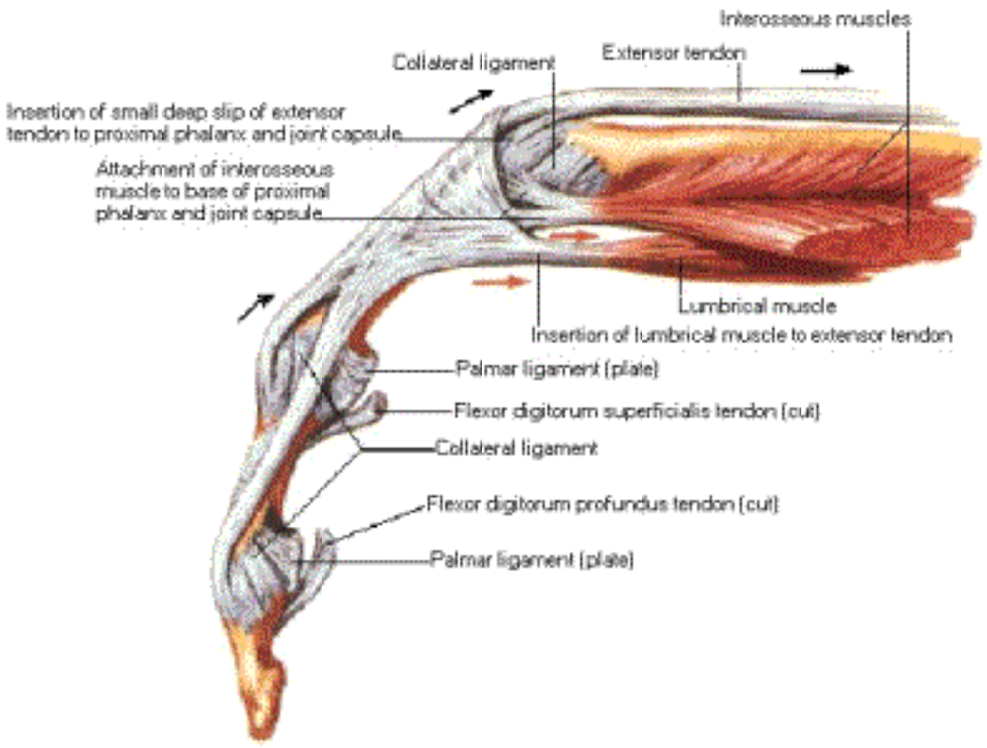


Note: black arrows indicate pull of long extensor tendon; red arrows indicate pull of interosseous and lumbrical muscles



Flexor and Extensor Tendons in Fingers

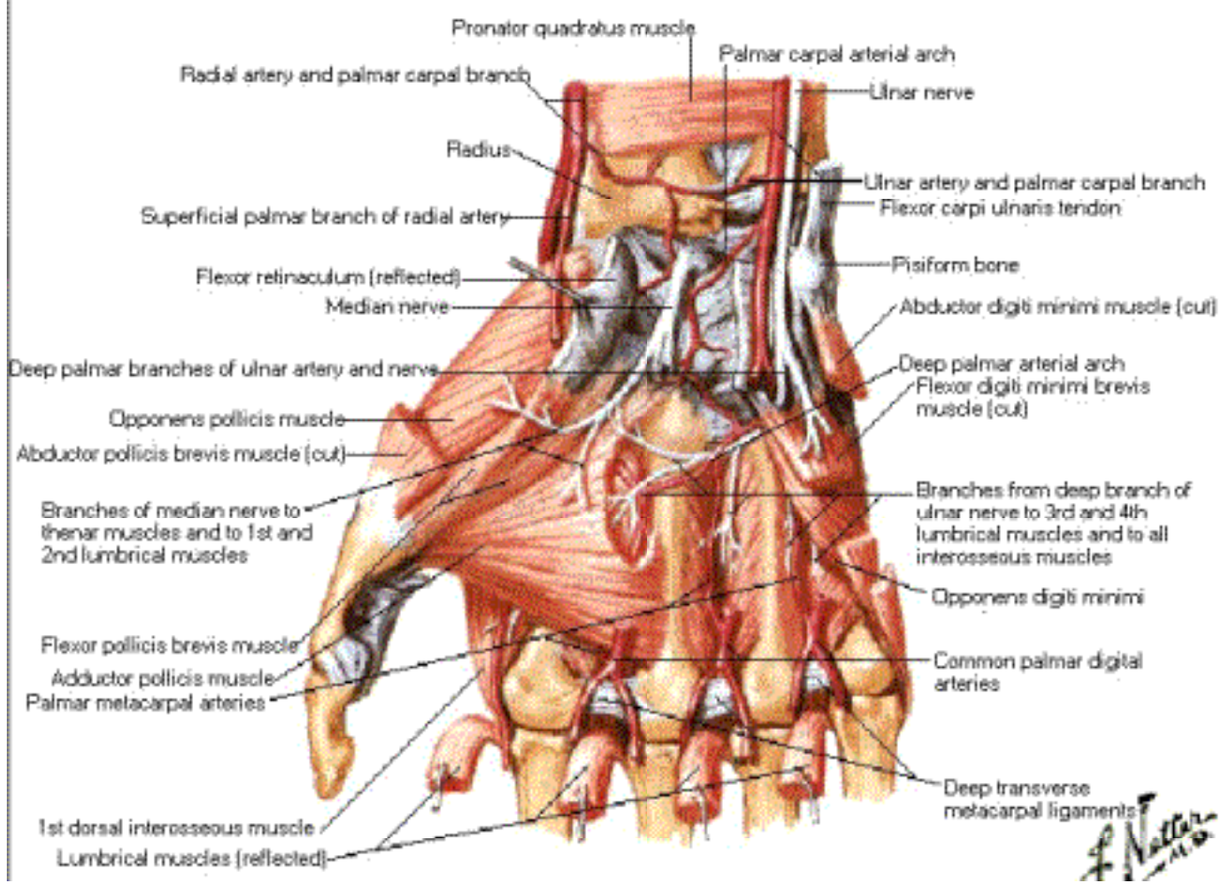
Flexed - Lateral View



Note: black arrows indicate pull of long extensor tendon; red arrows indicate pull of interosseous and lumbrical muscles

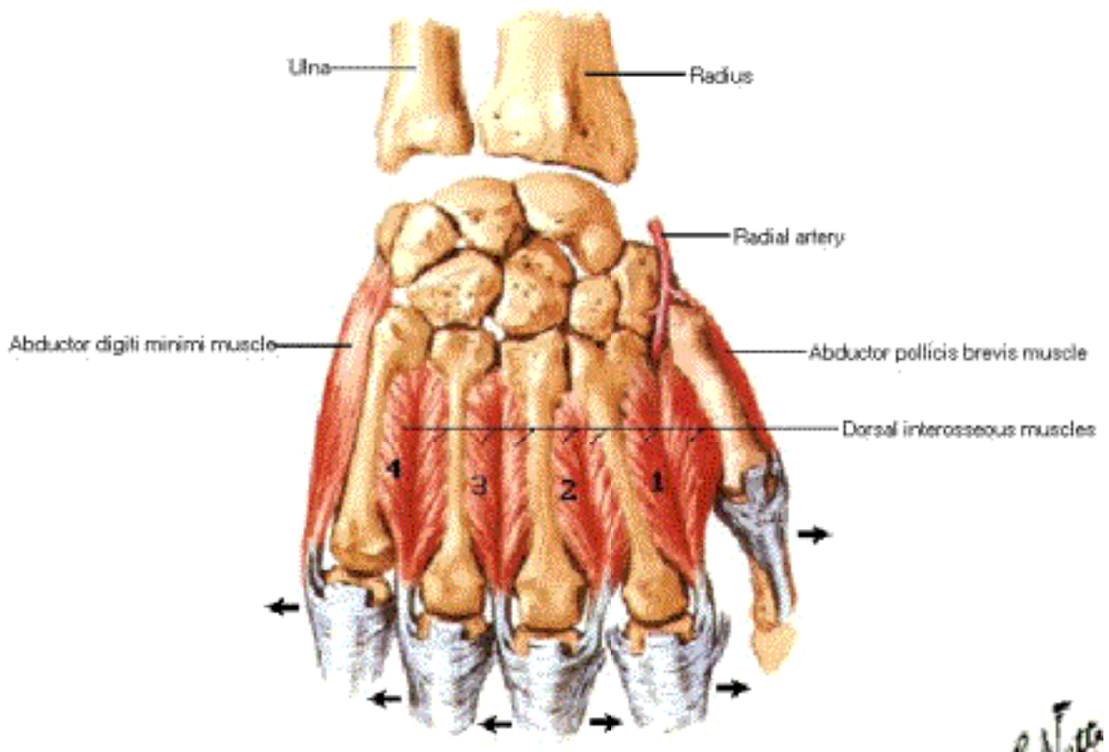
Intrinsic Muscles of Hand

Anterior [Palmar] View



Intrinsic Muscles of Hand

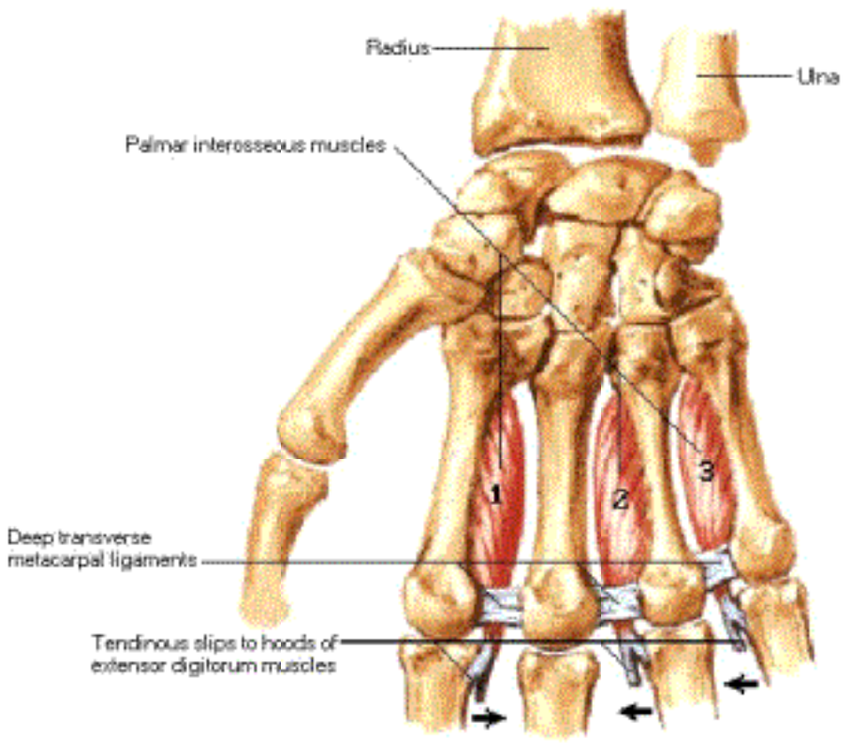
Posterior [Dorsal] View



Note: arrows indicate action of muscles

Intrinsic Muscles of Hand

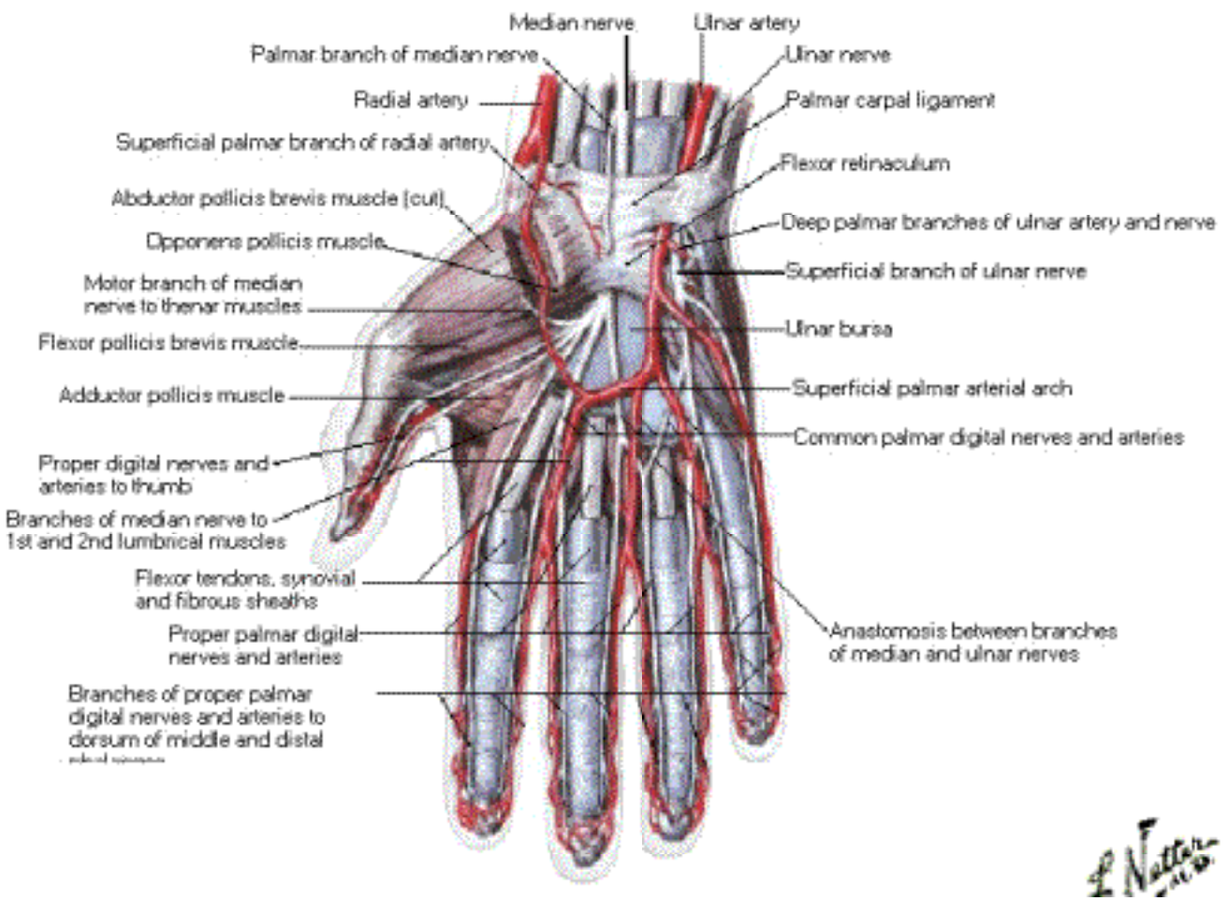
Deep Anterior [Palmar] View



Note: arrows indicate action of muscles

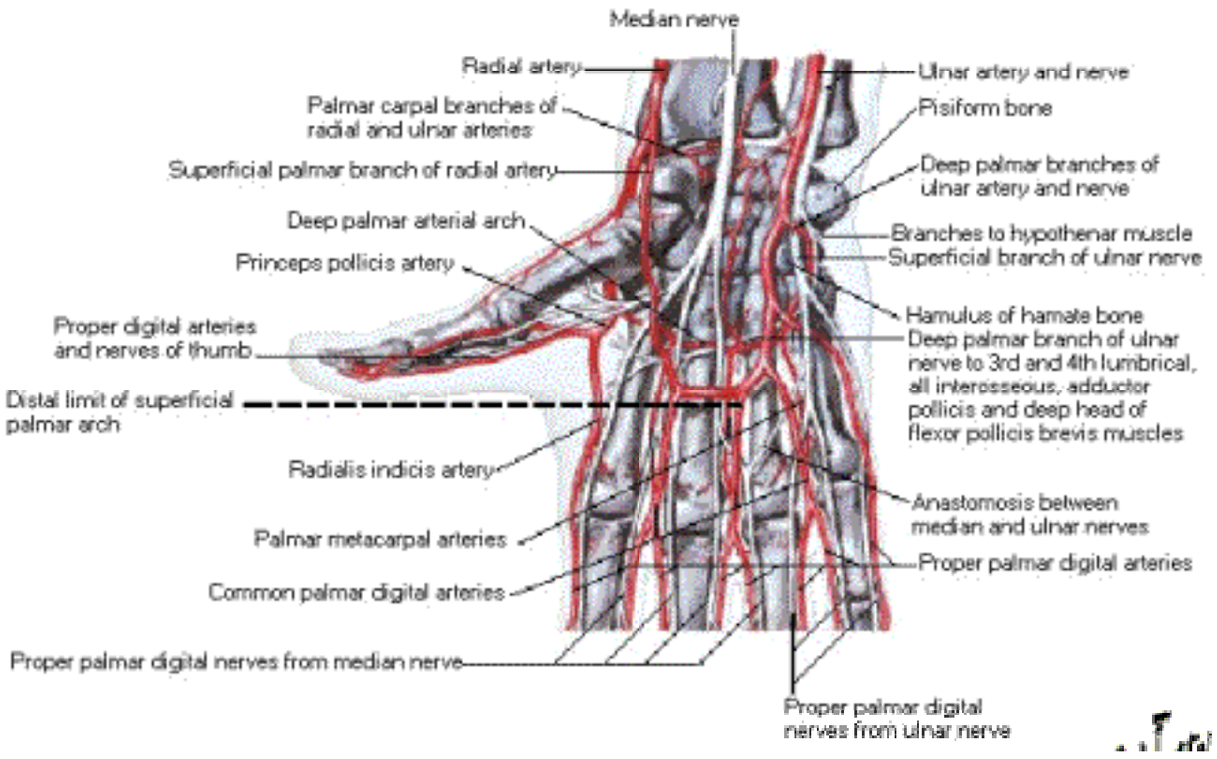
Arteries and Nerves of Hand

Palmar View



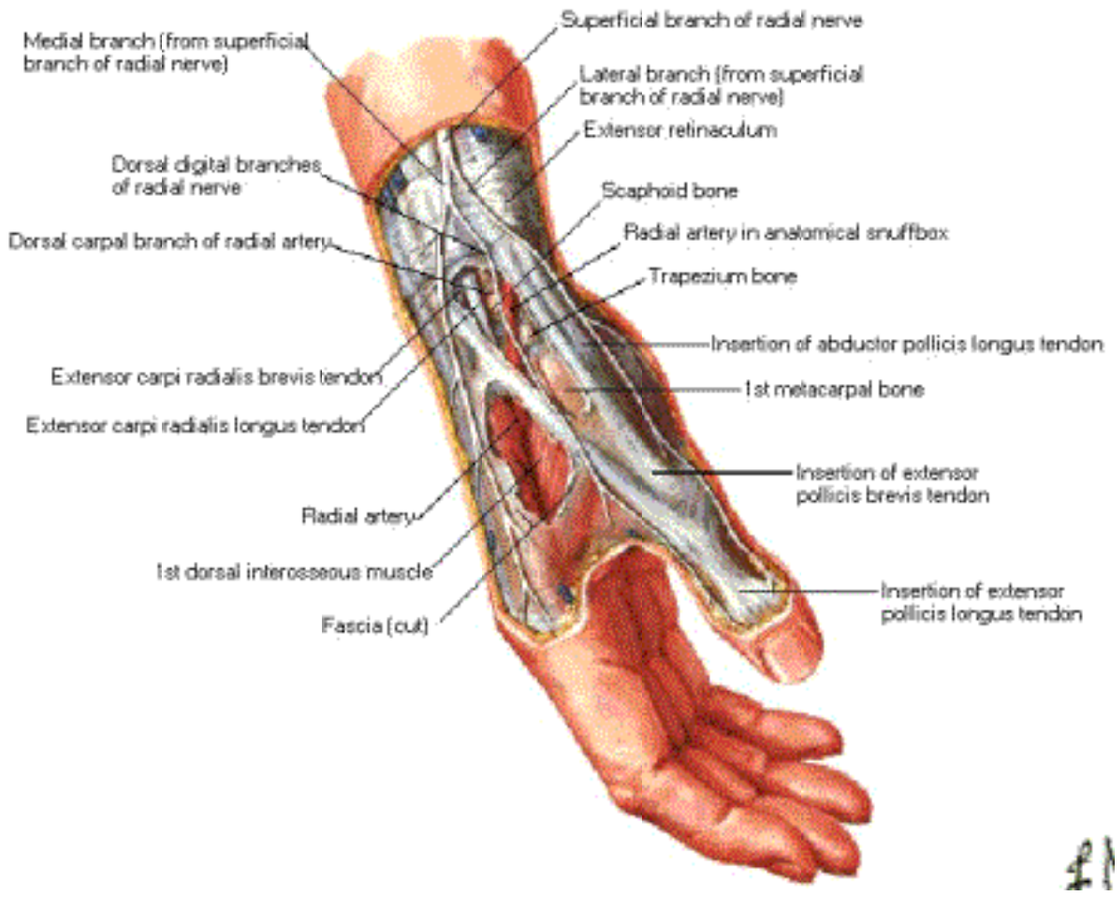
Arteries and Nerves of Hand

Deep Palmar View



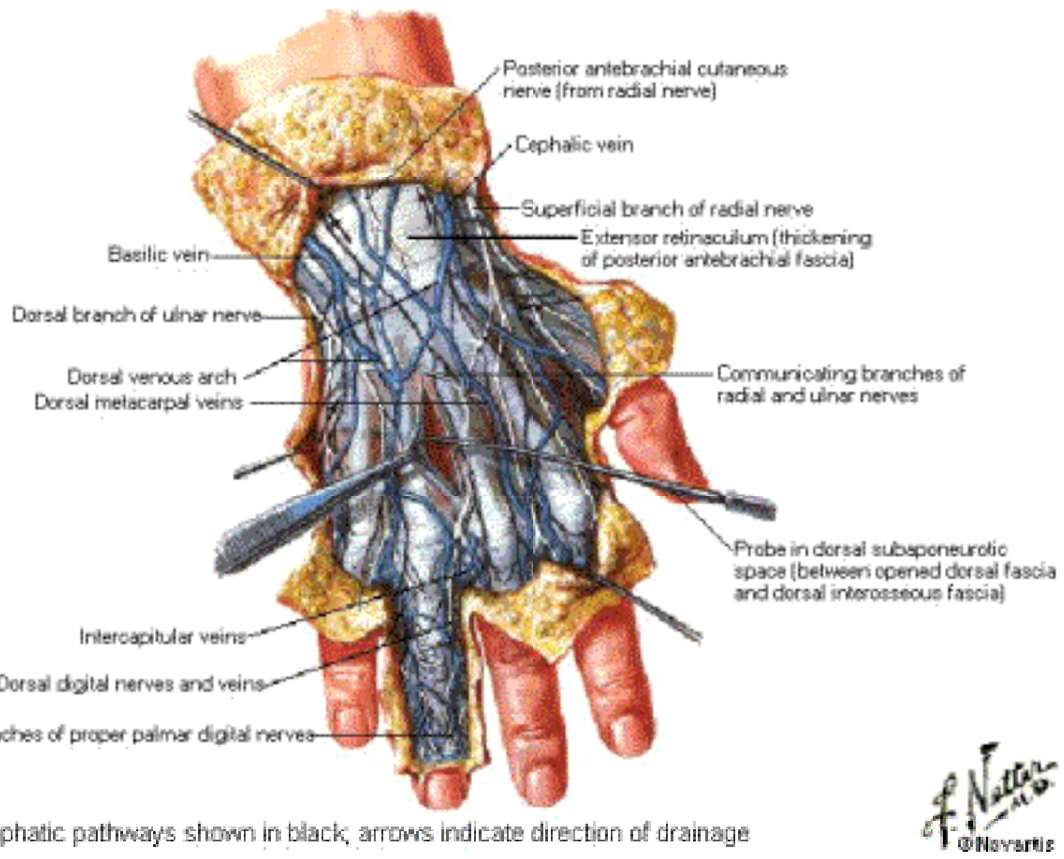
Wrist and Hand

Superficial Radial Dissection



Wrist and Hand

Superficial Dorsal Dissection

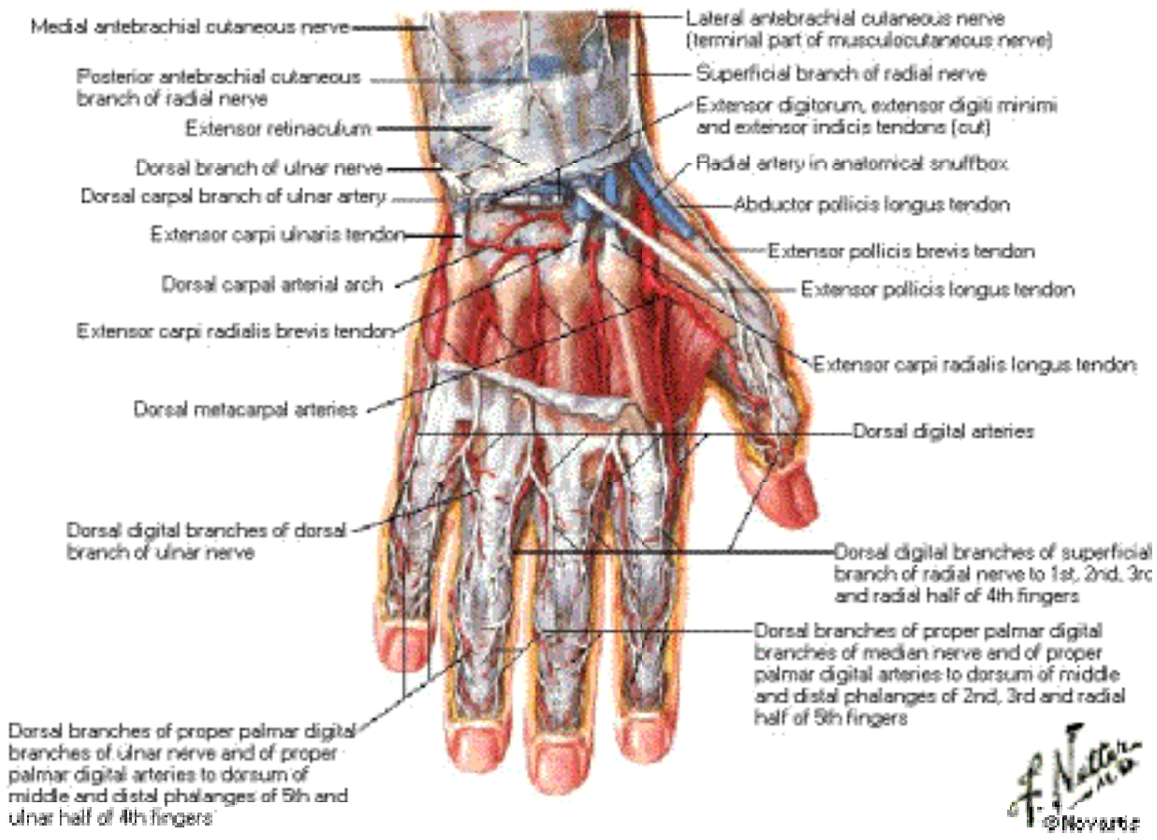


Note: lymphatic pathways shown in black; arrows indicate direction of drainage

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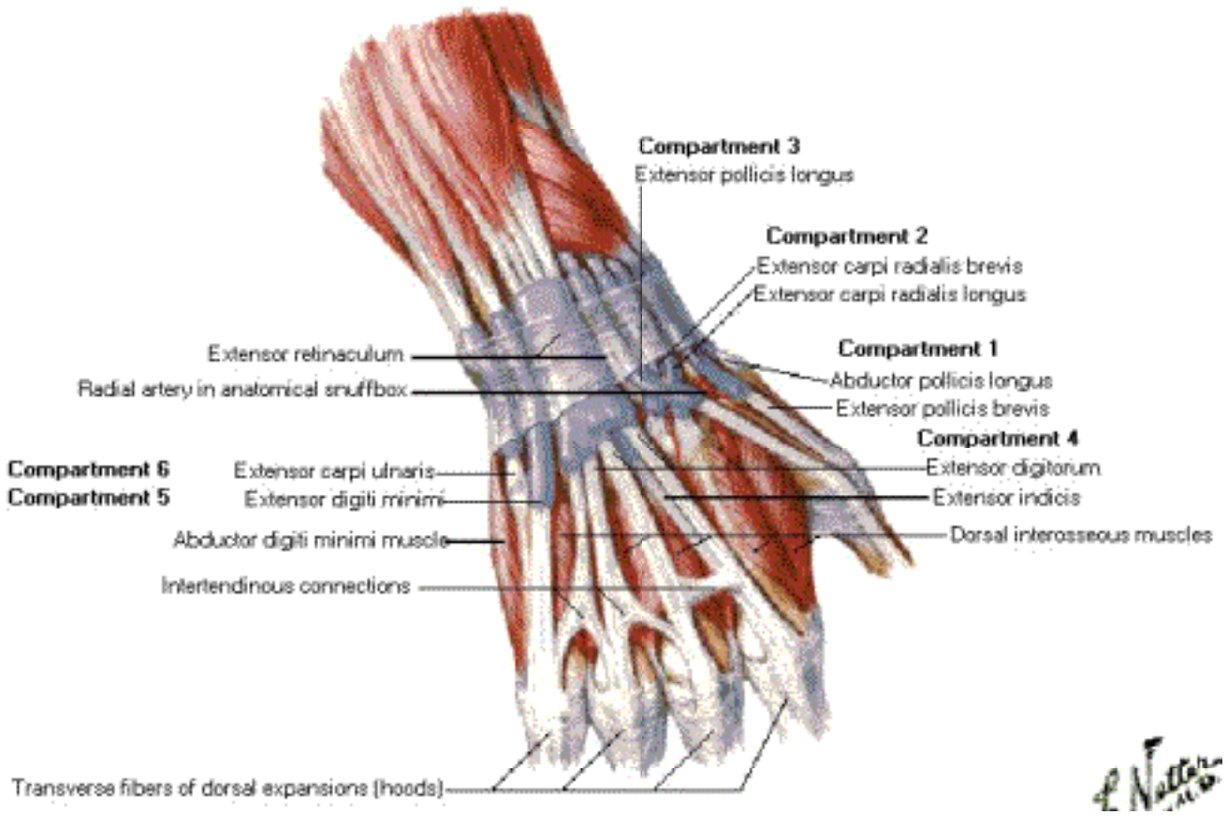
Wrist and Hand

Deep Dorsal Dissection



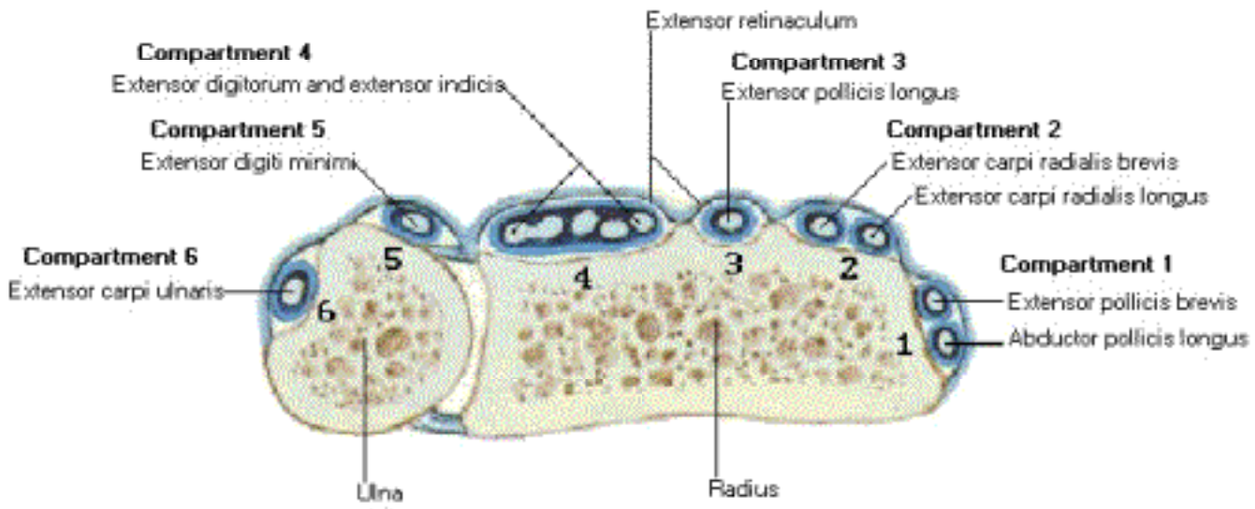
Extensor Tendons at Wrist

Posterior [Dorsal] View



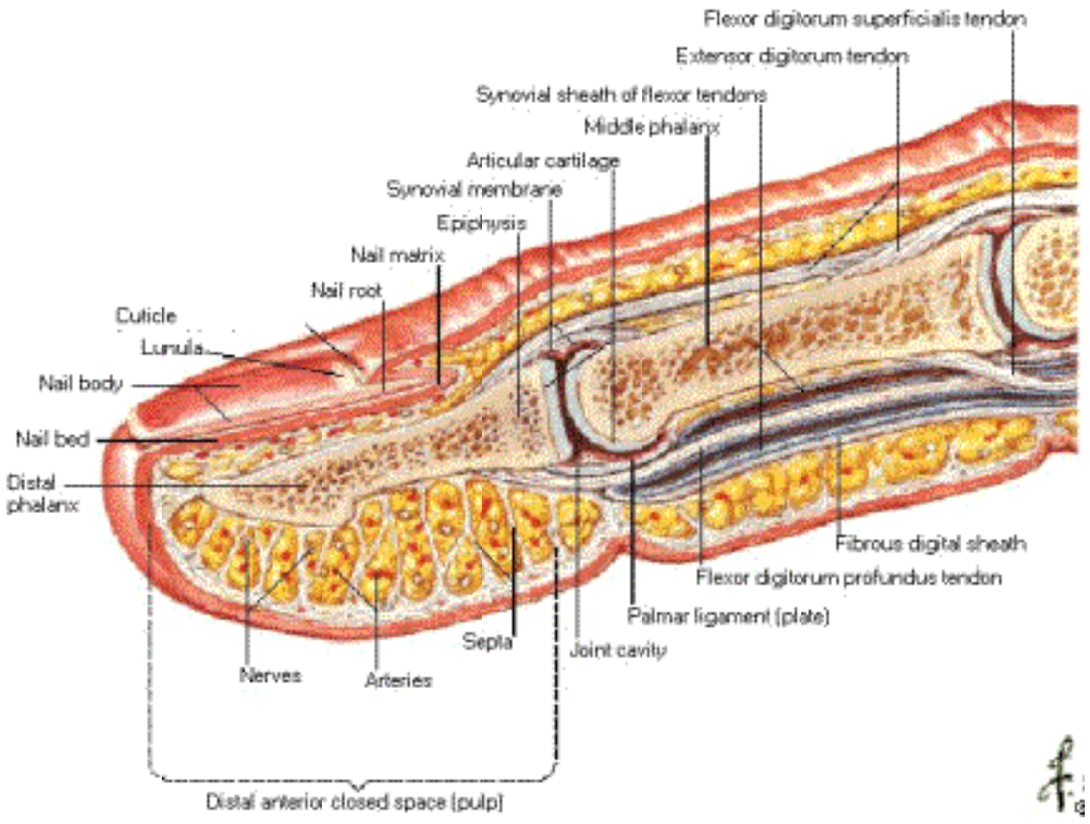
Extensor Tendons at Wrist

Cross Section at Proximal Wrist



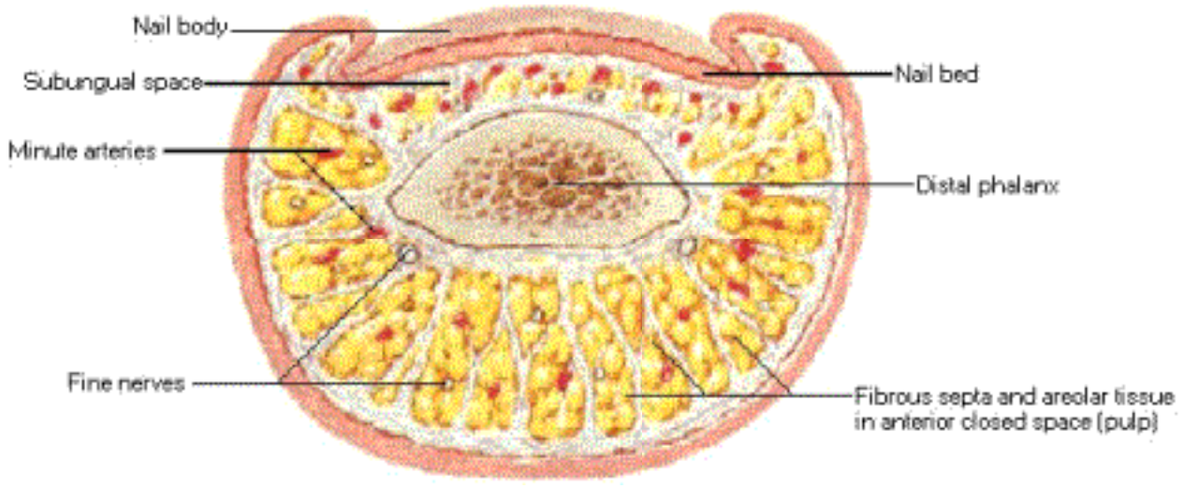
Fingers

Sagittal Section



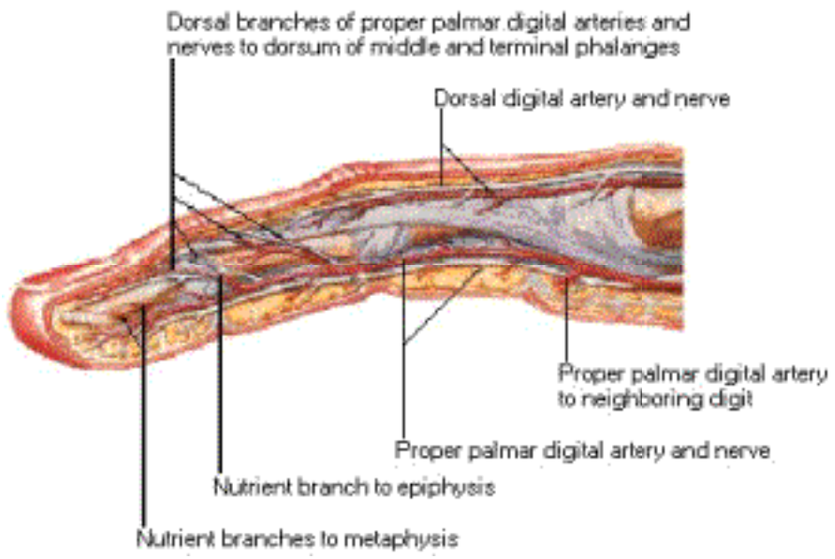
Fingers

Cross Section through Distal Phalanx



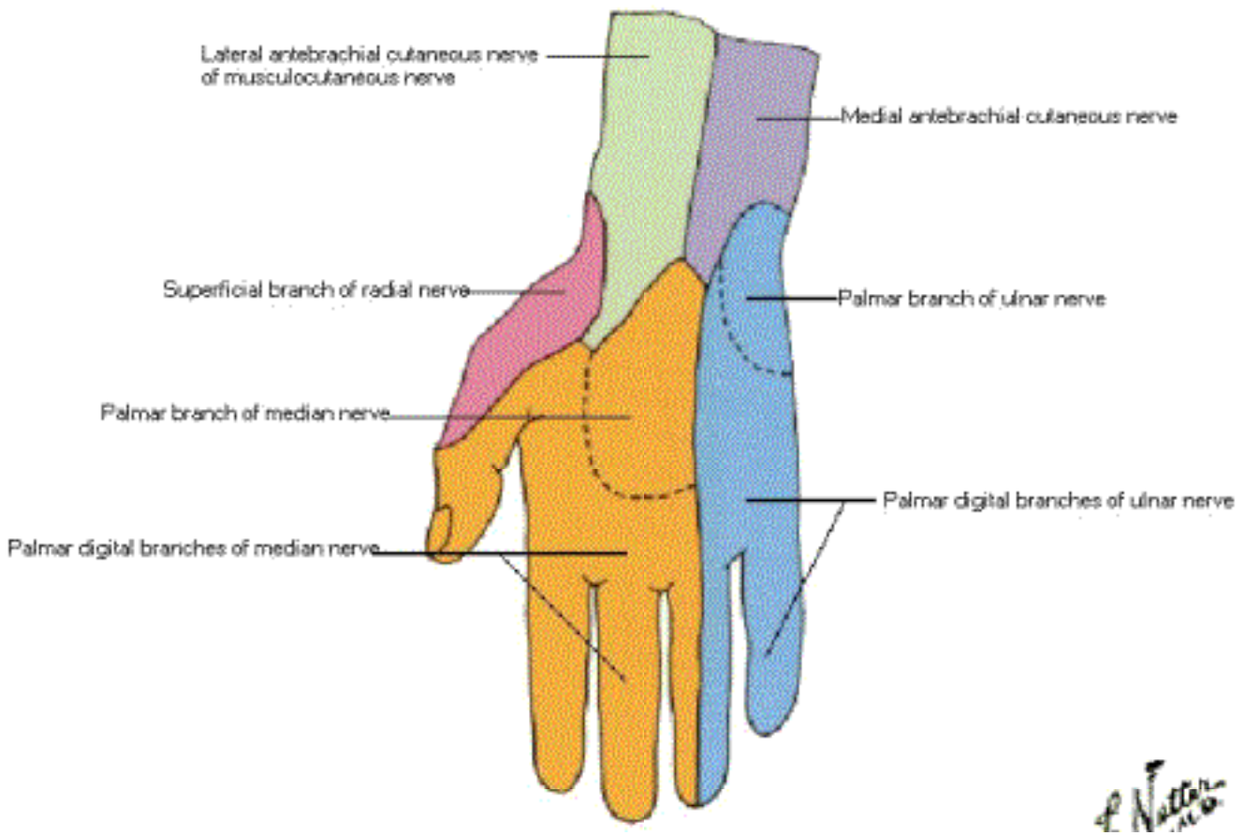
Fingers

Arteries and Nerves



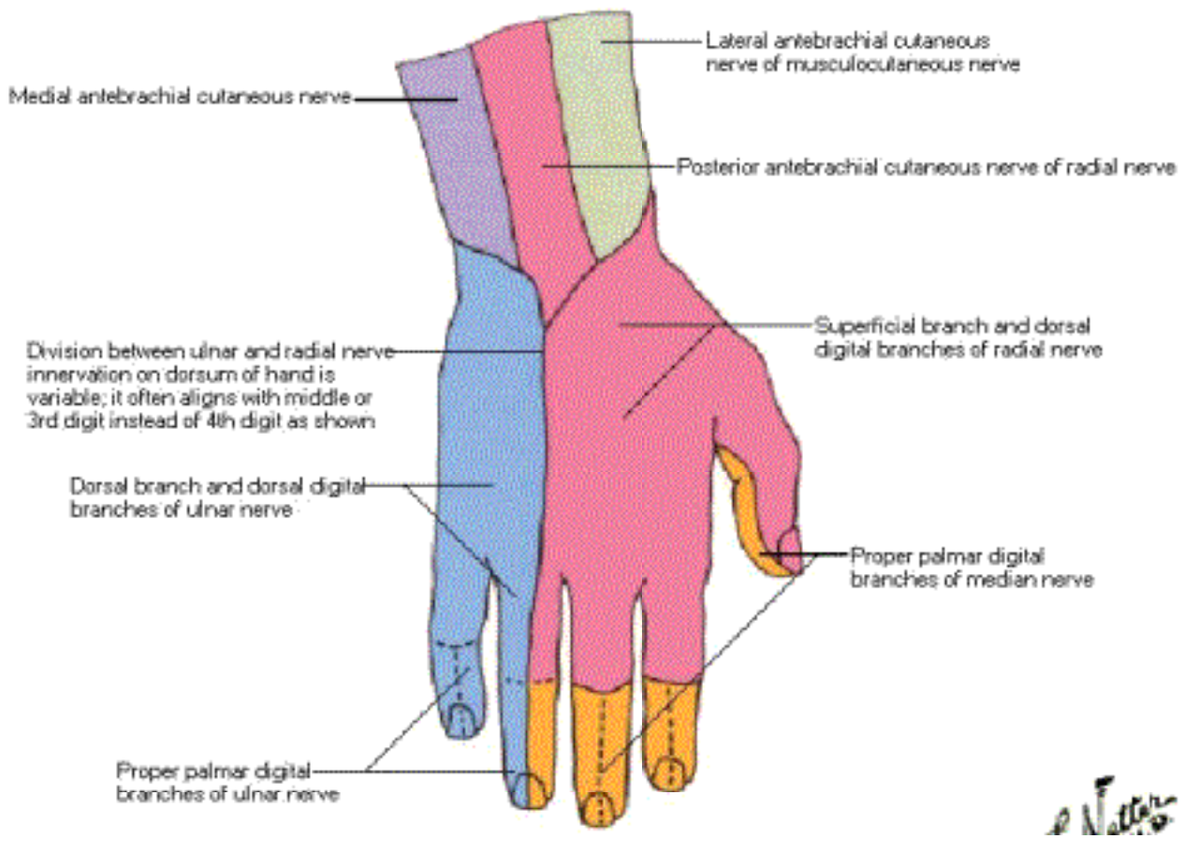
Cutaneous Nerves of Wrist and Hand

Anterior [Palmar] View

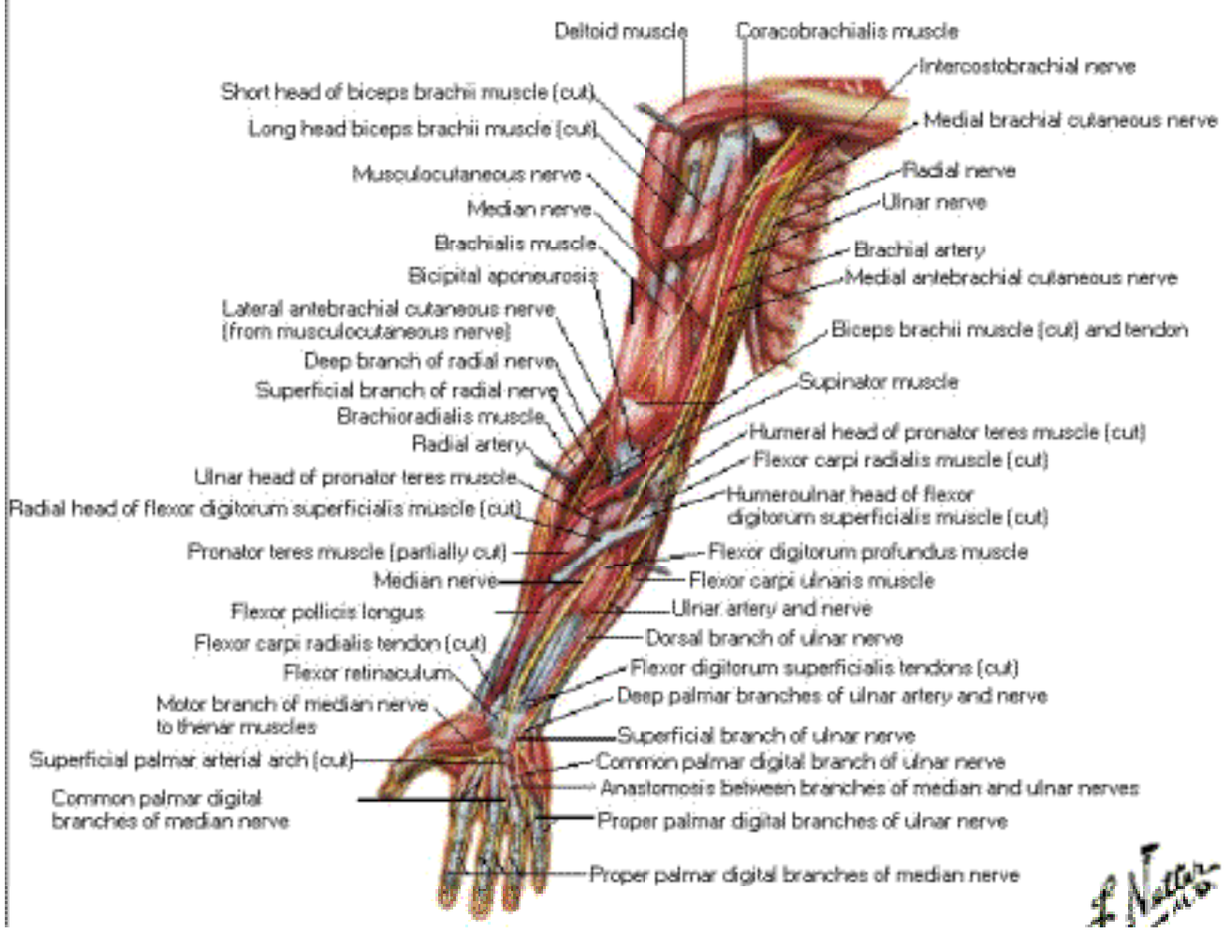


Cutaneous Nerves of Wrist and Hand

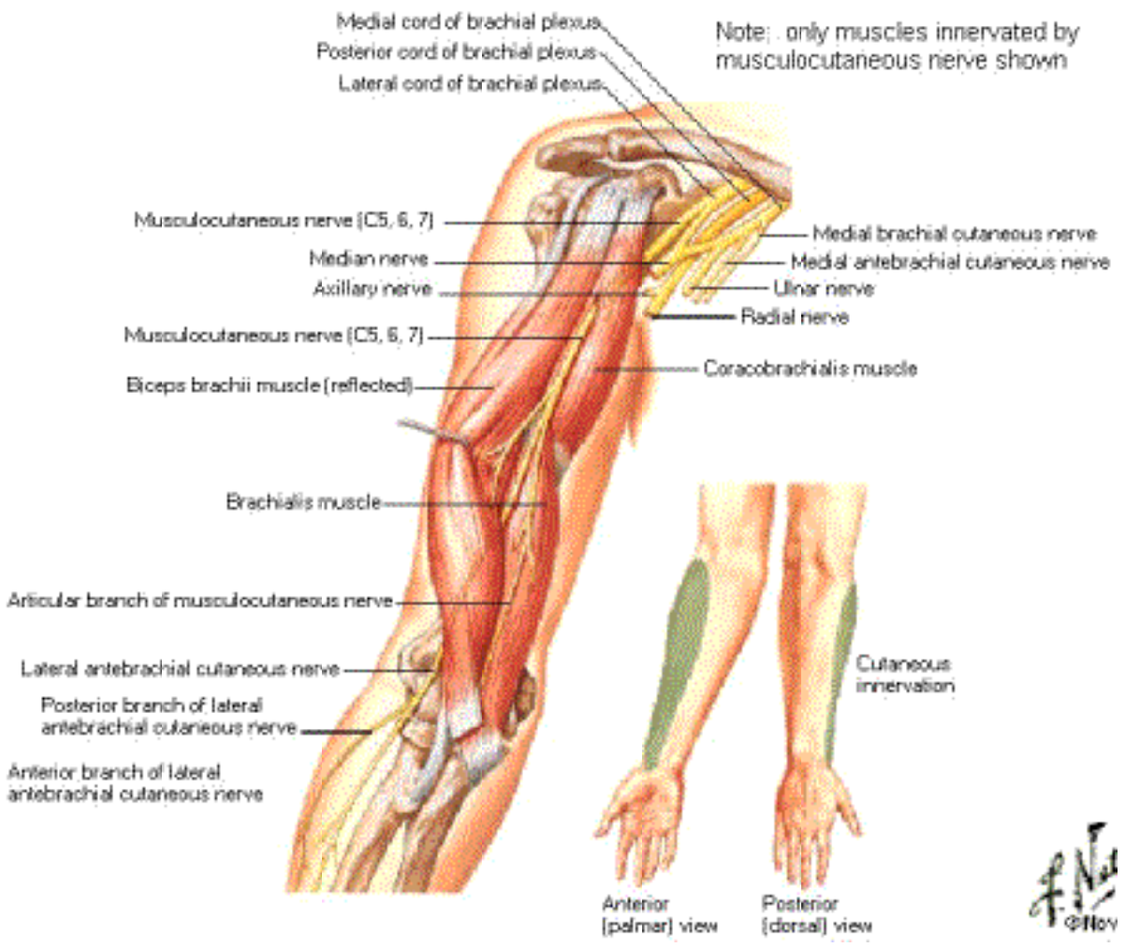
Posterior [Dorsal] View



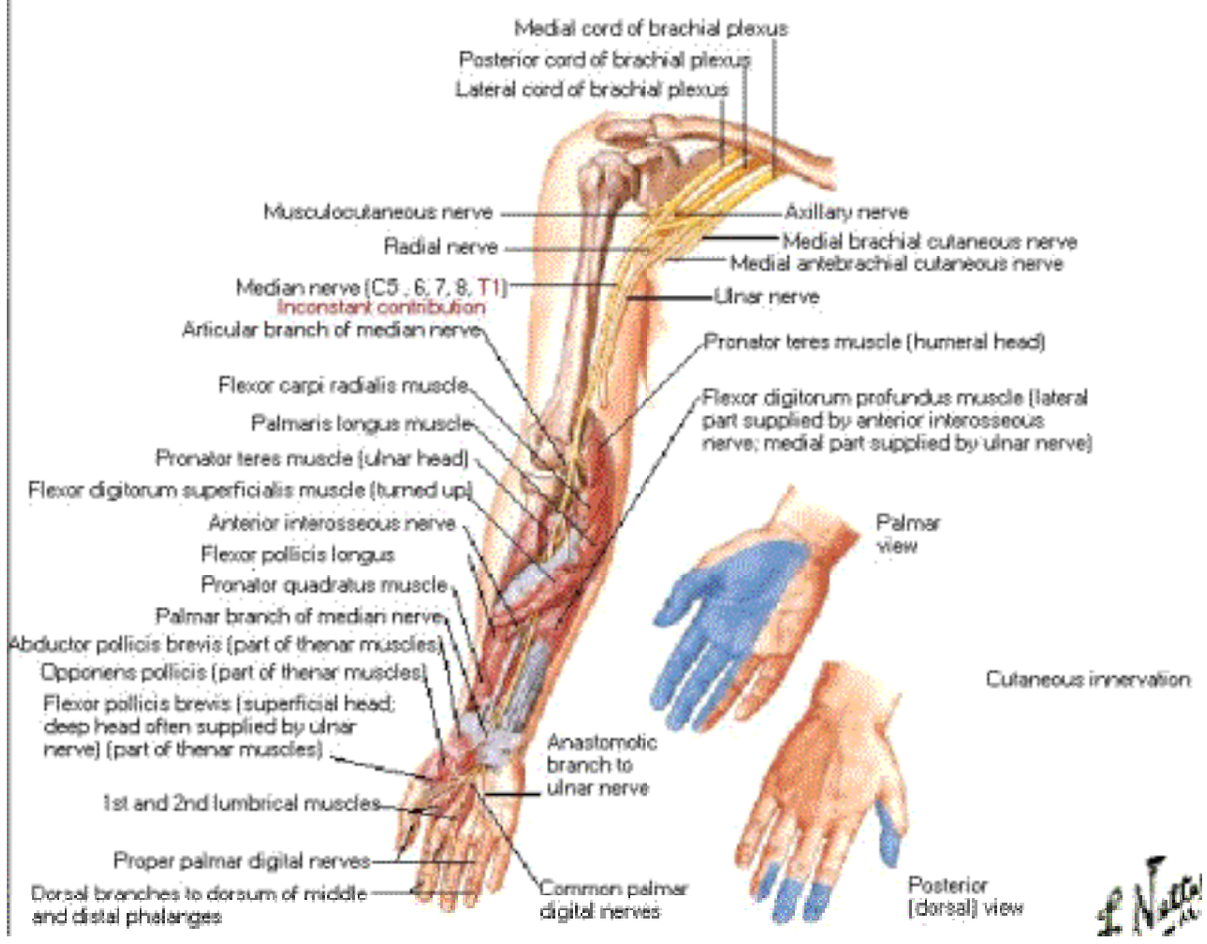
Arteries and Nerves of Upper Limb



Musculocutaneous Nerve

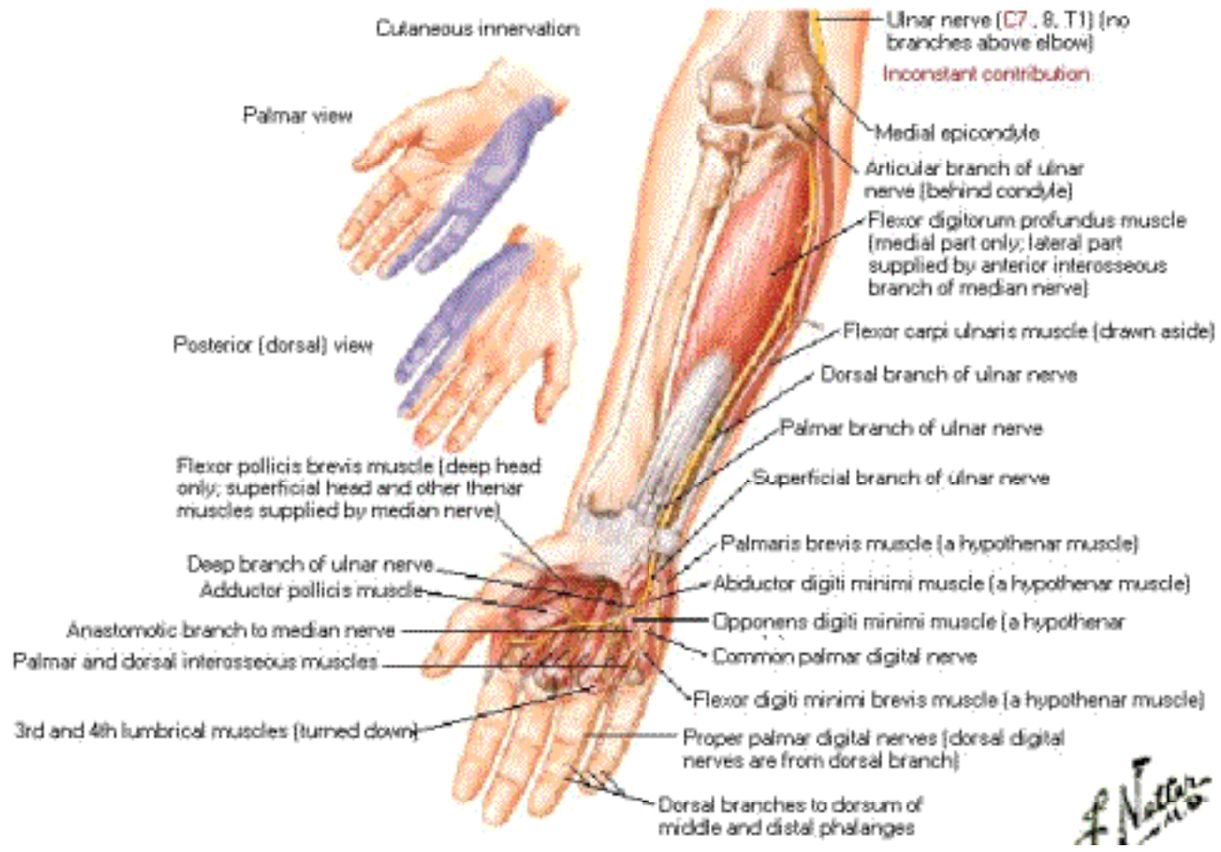


Median Nerve

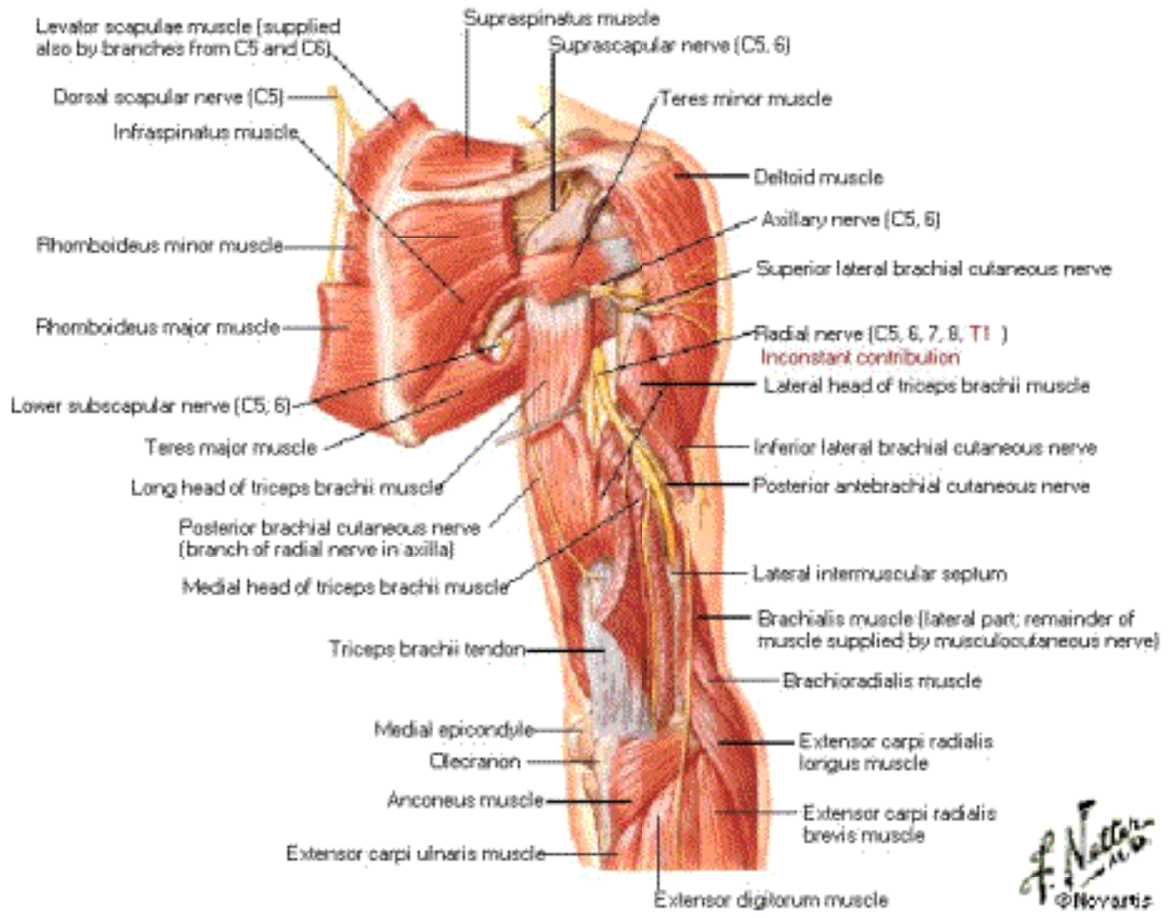


Ulnar Nerve

Note: only muscles innervated by ulnar nerve shown

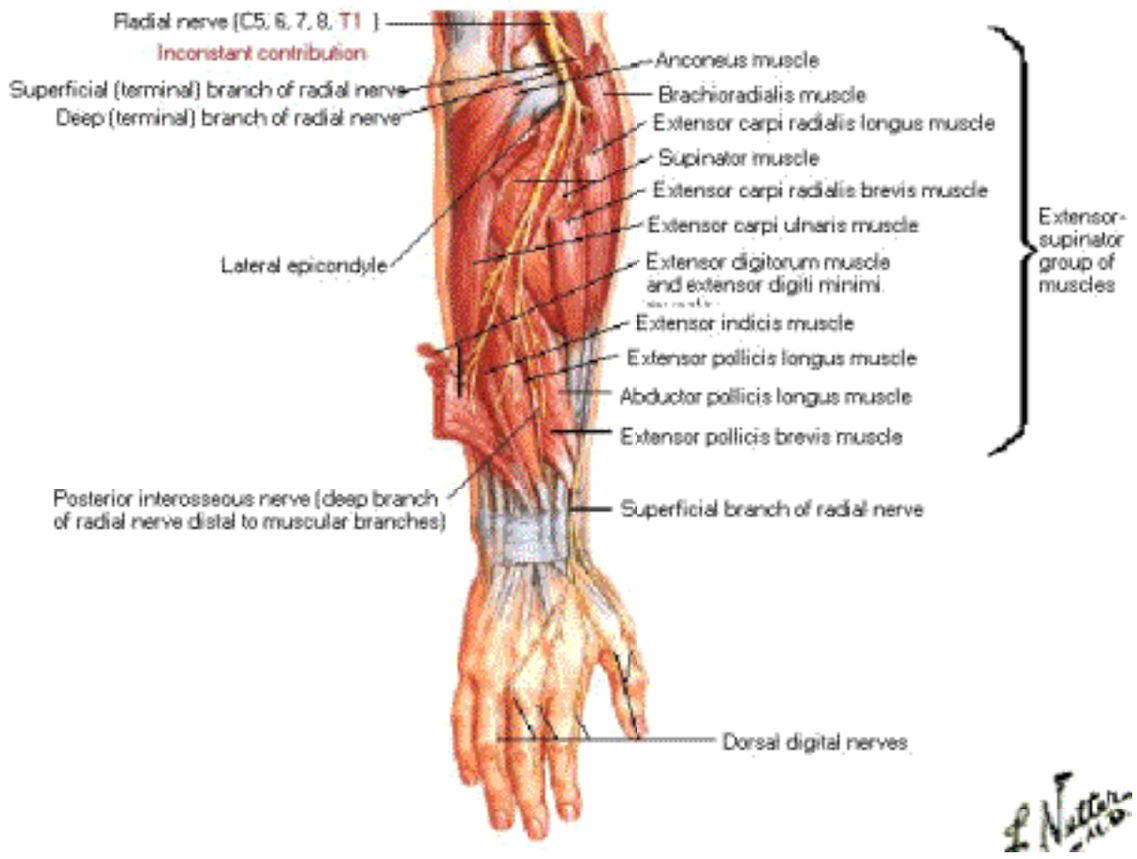


Radial Nerve in Arm and Nerves of Posterior Shoulder



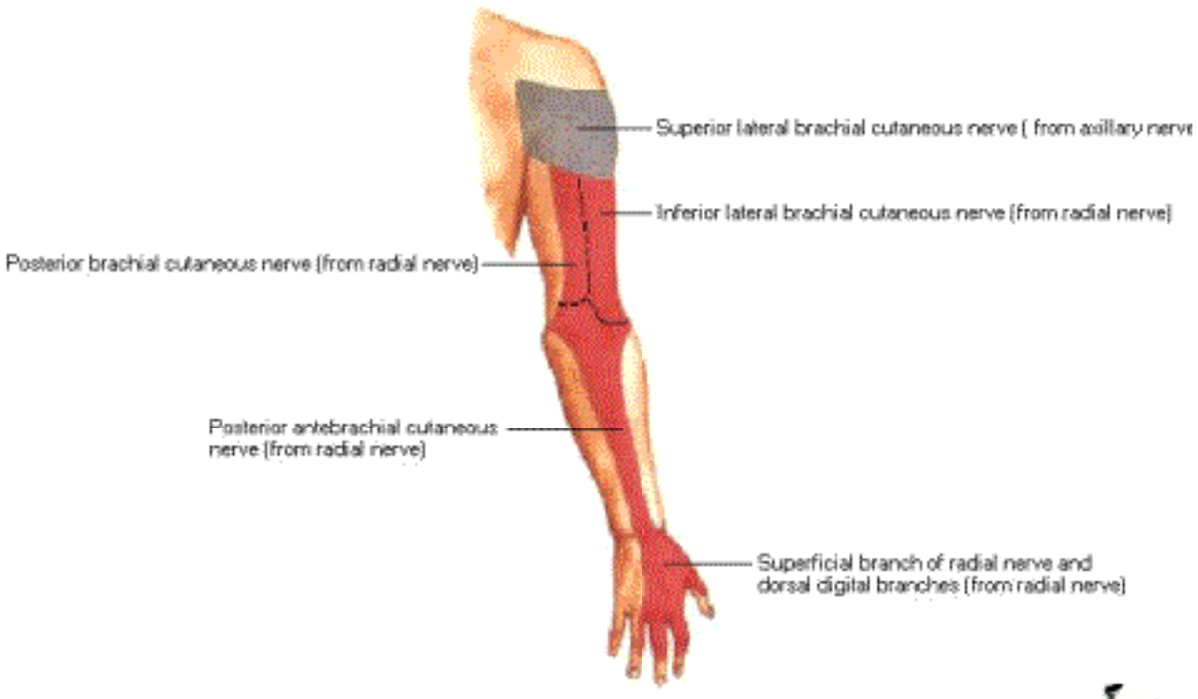
Radial Nerve in Forearm

Posterior View



Radial and Axillary Nerves

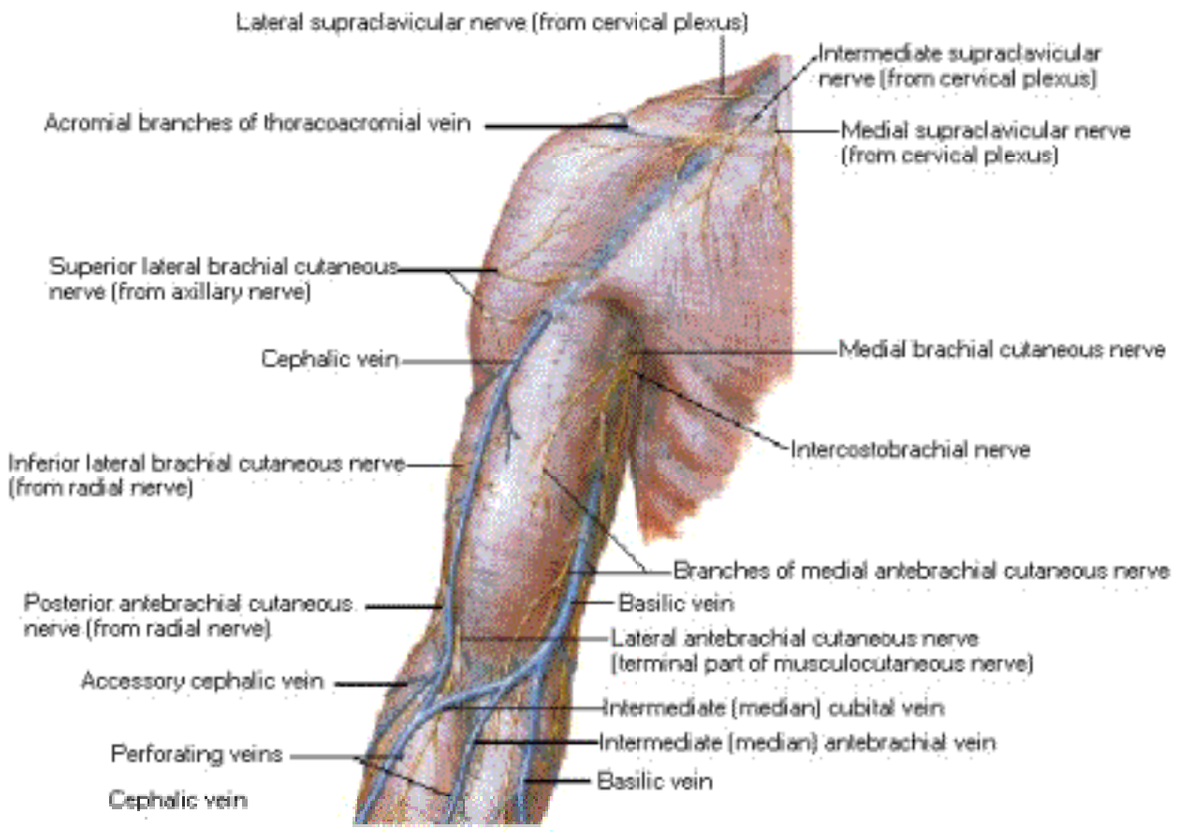
Cutaneous Innervation



Posterior View

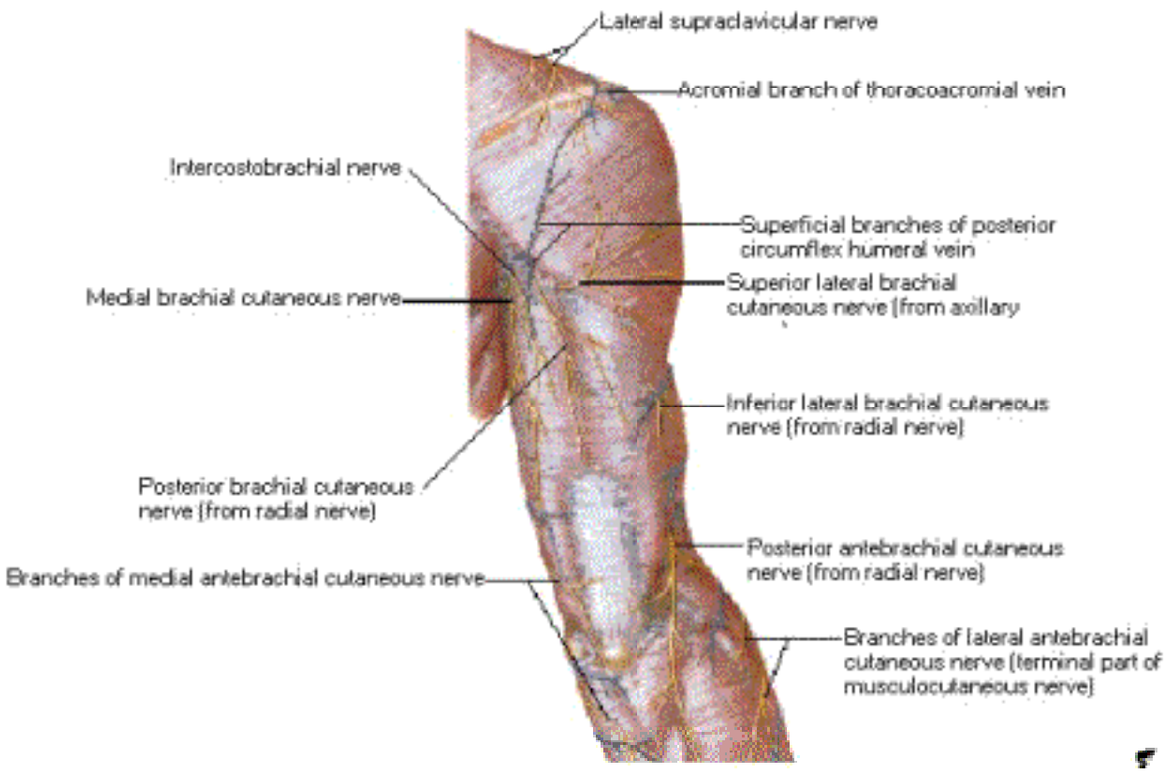
Superficial Nerves and Veins of Shoulder and Arm

Anterior View



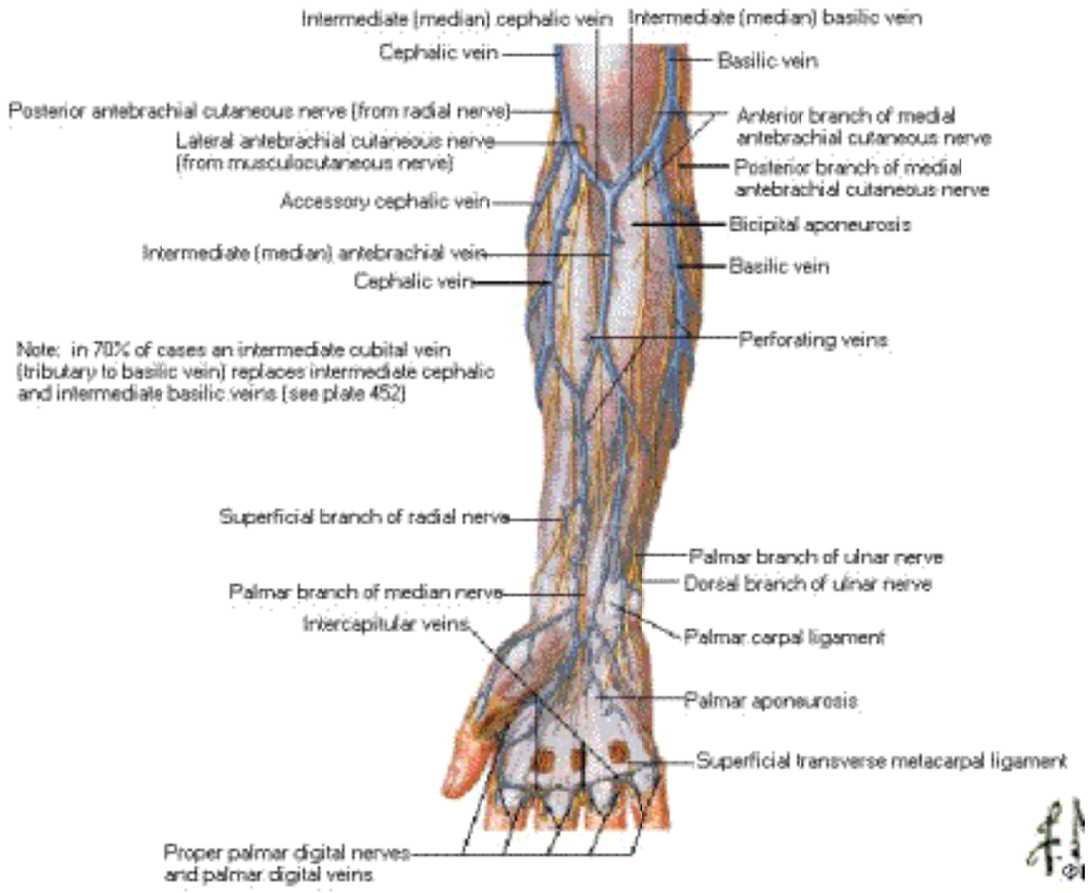
Superficial Nerves and Veins of Shoulder and Arm

Posterior View



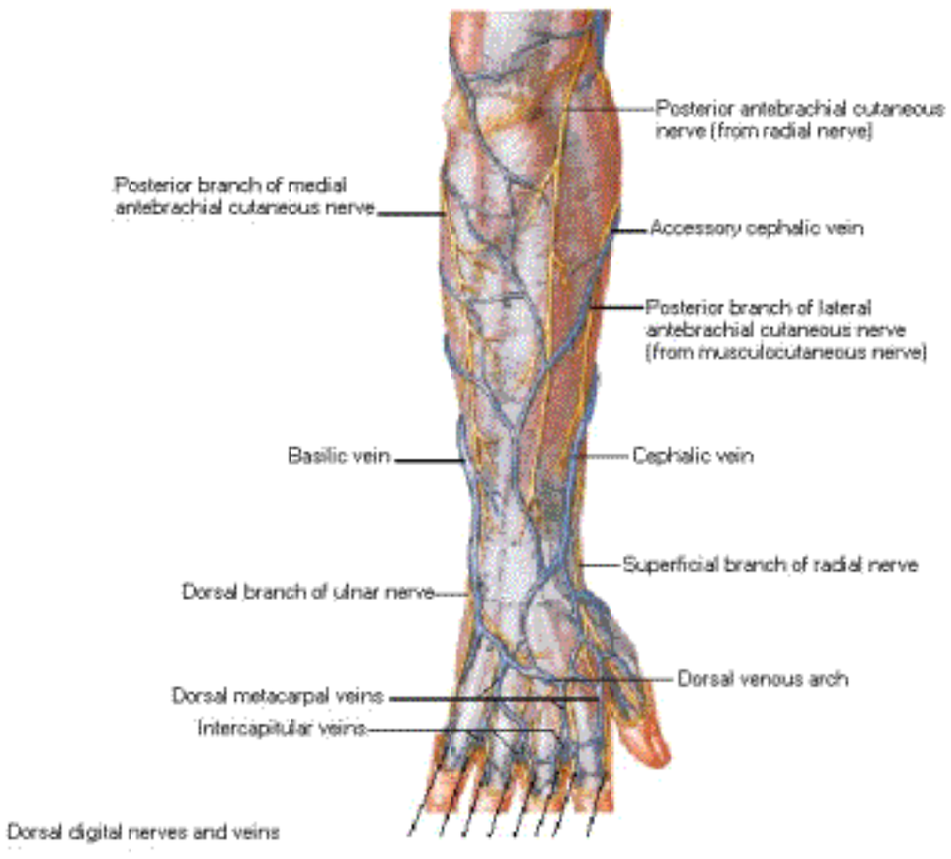
Cutaneous Nerves and Superficial Veins of Forearm

Anterior (Palmar) View



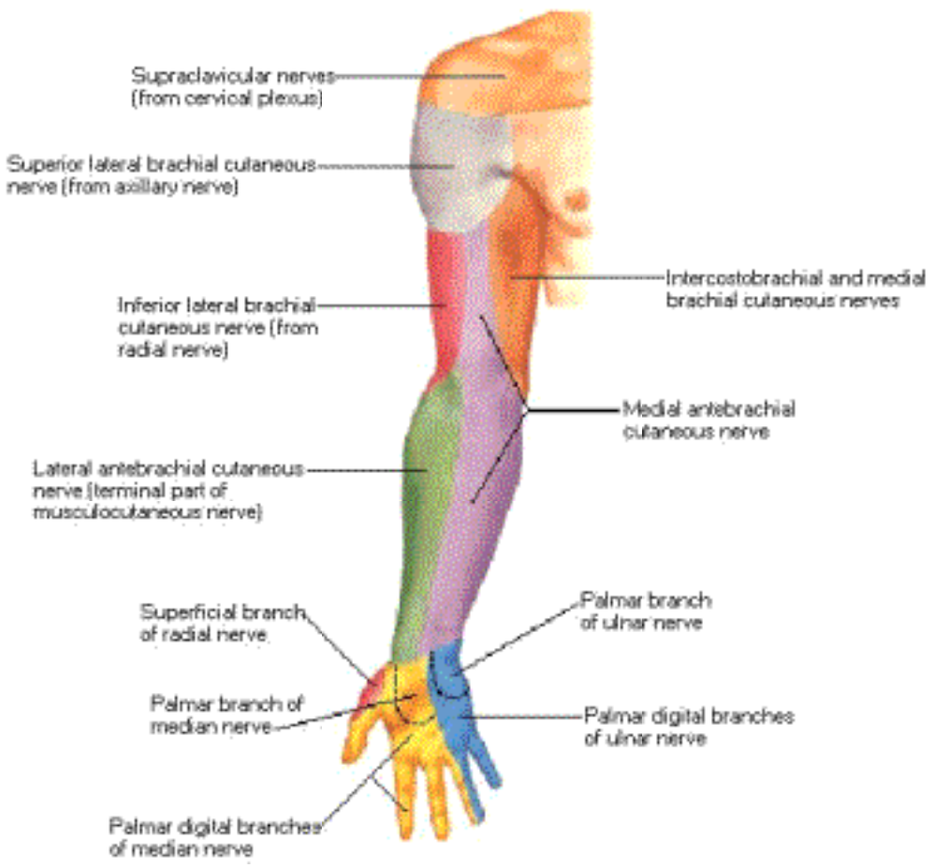
Cutaneous Nerves and Superficial Veins of Forearm

Posterior (Dorsal) View



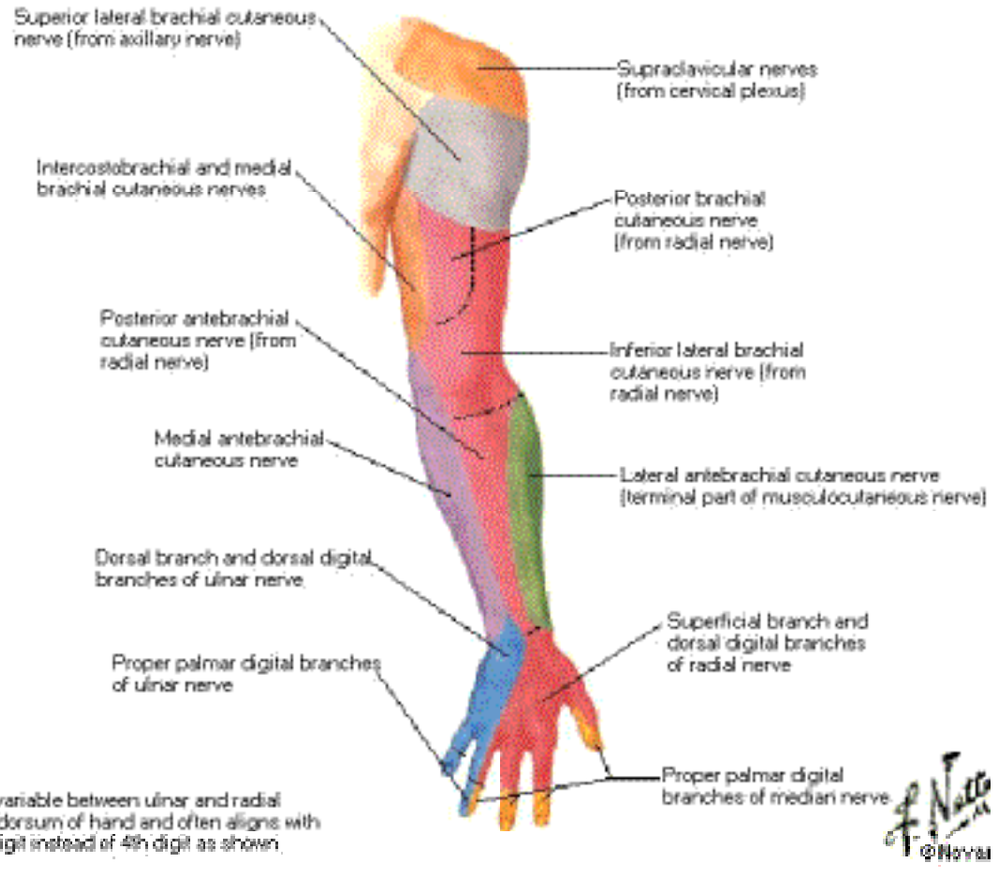
Cutaneous Innervation of Upper Limb

Anterior [Palmar] View



Cutaneous Innervation of Upper Limb

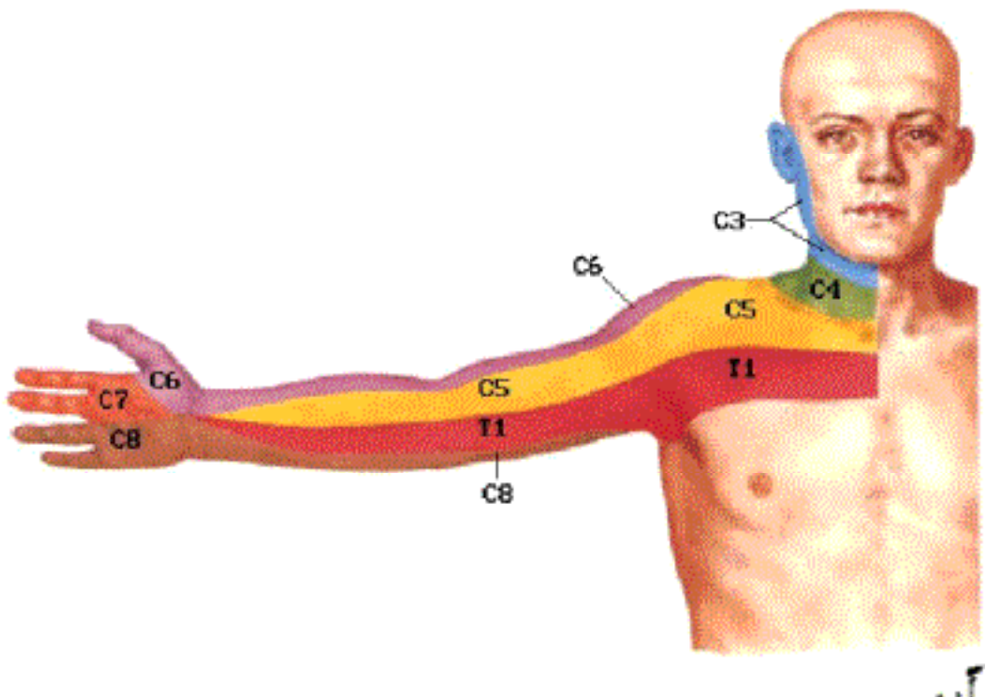
Posterior [Dorsal] View



Note: division variable between ulnar and radial innervation on dorsum of hand and often aligns with middle of 3rd digit instead of 4th digit as shown

Dermatomes of Upper Limb

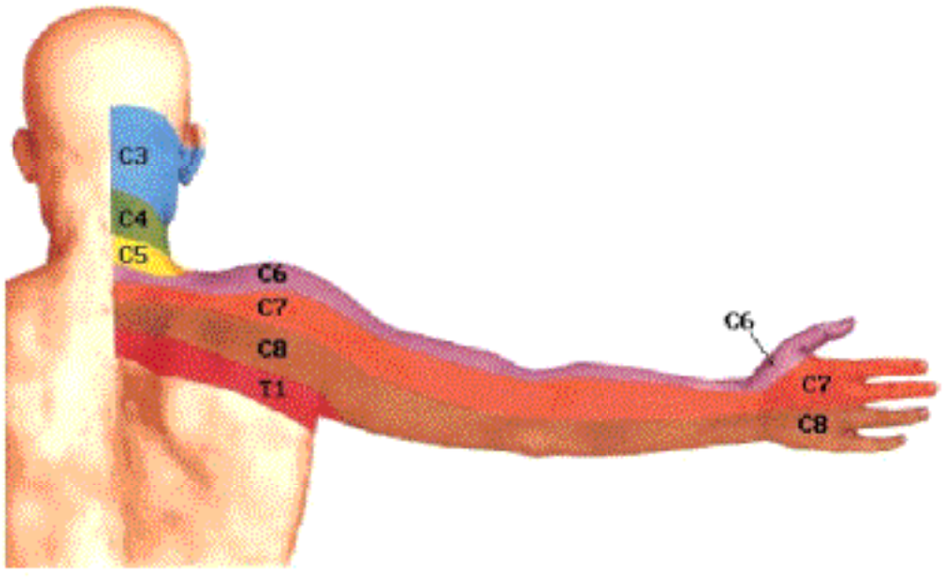
Anterior View



Note: schematic demarcation of dermatomes shown as distinct segments.
There is actually considerable overlap between adjacent dermatomes.

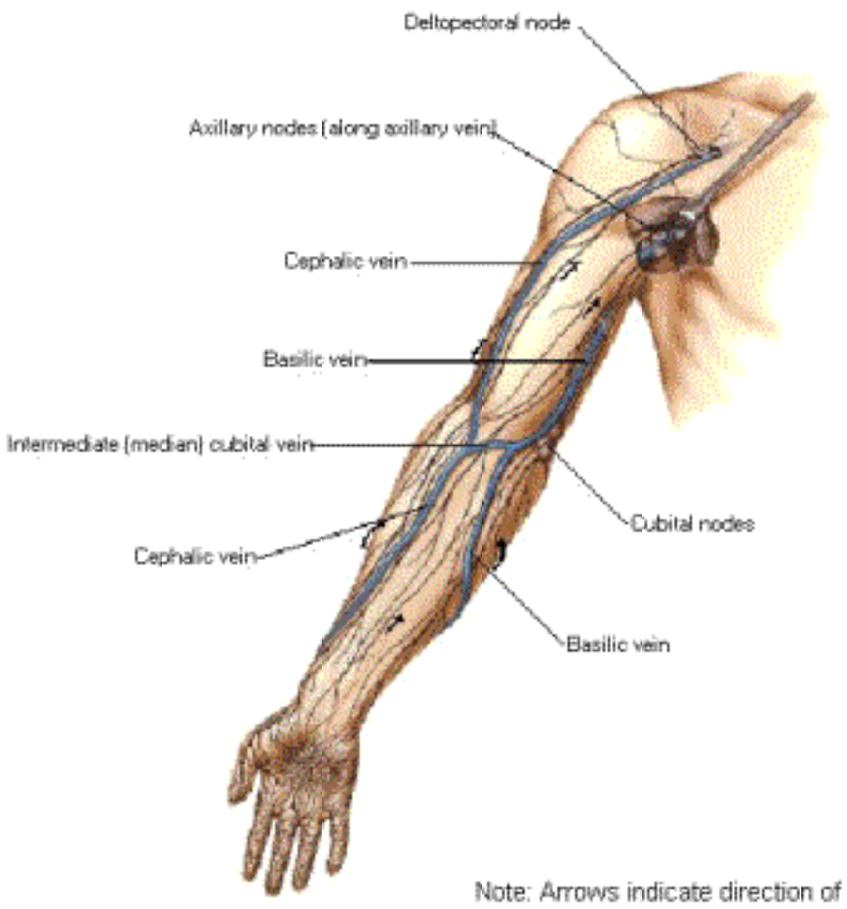
Dermatomes of Upper Limb

Posterior View



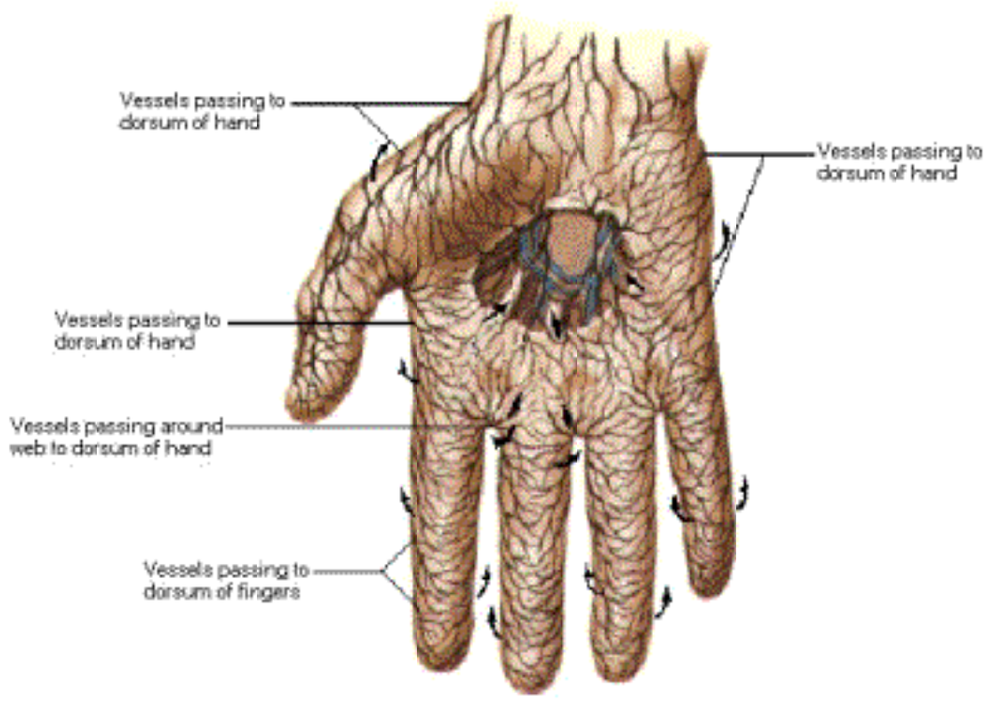
Note: schematic demarcation of dermatomes shown as distinct segments.
There is actually considerable overlap between adjacent dermatomes.

Lymph Vessels and Nodes of Upper Limb



Note: Arrows indicate direction of drainage.

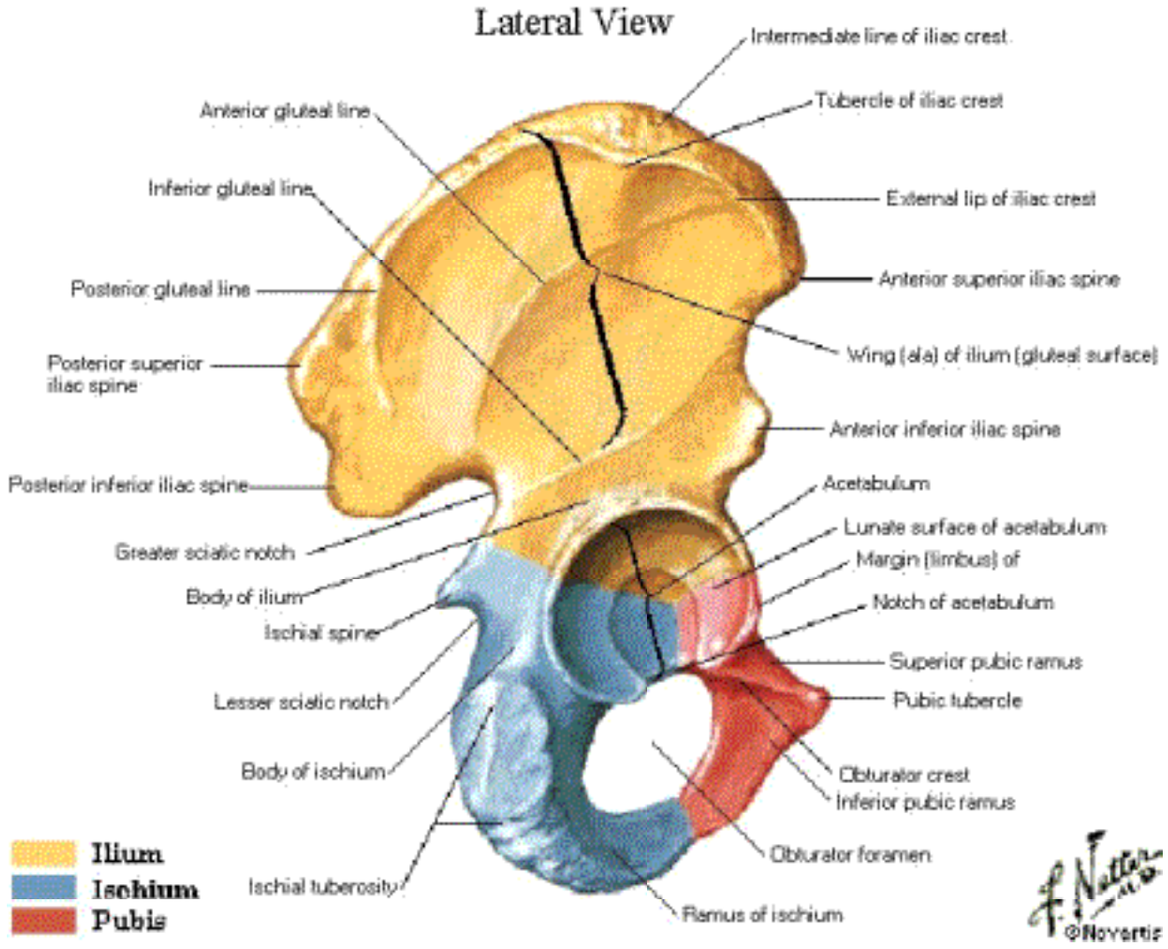
Lymph Vessels of Hand



Note: Arrows indicate direction of drainage.

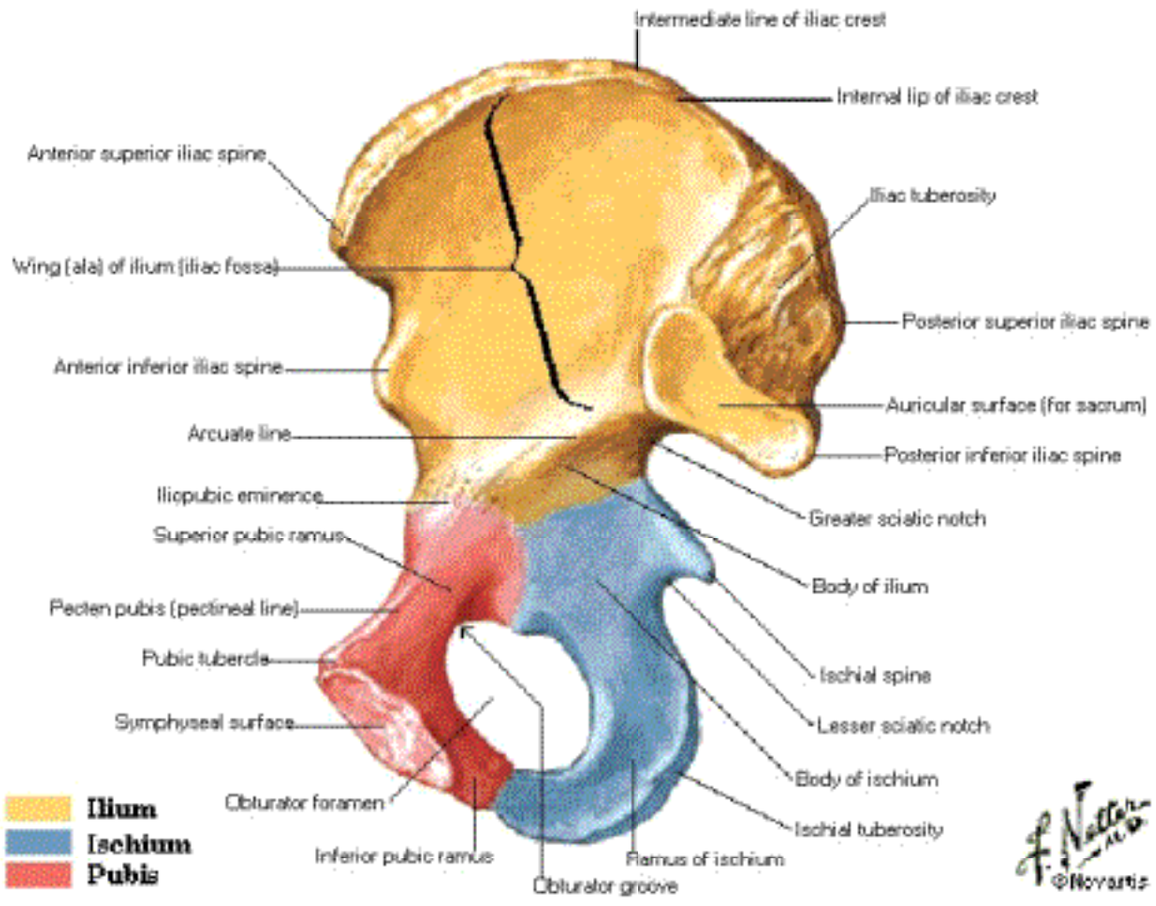
Coxal Bone

Lateral View



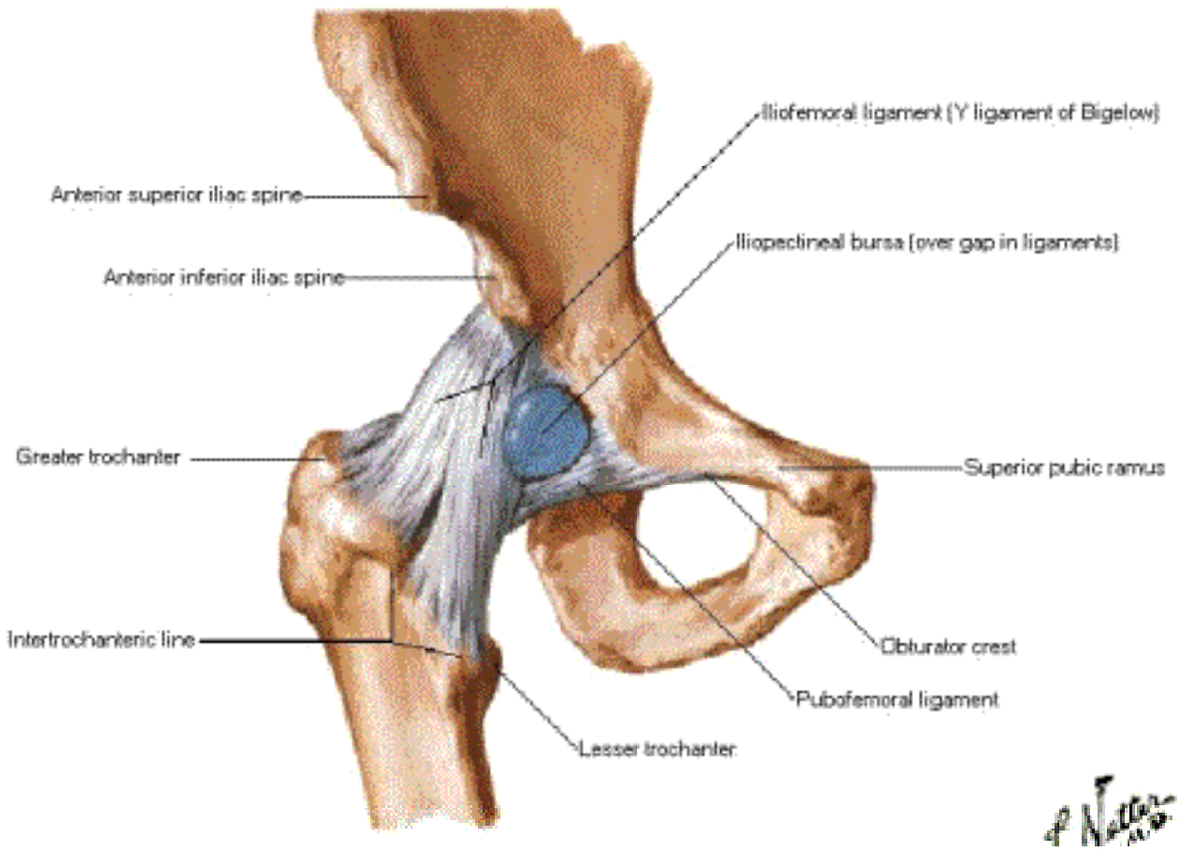
Coxal Bone

Medial View



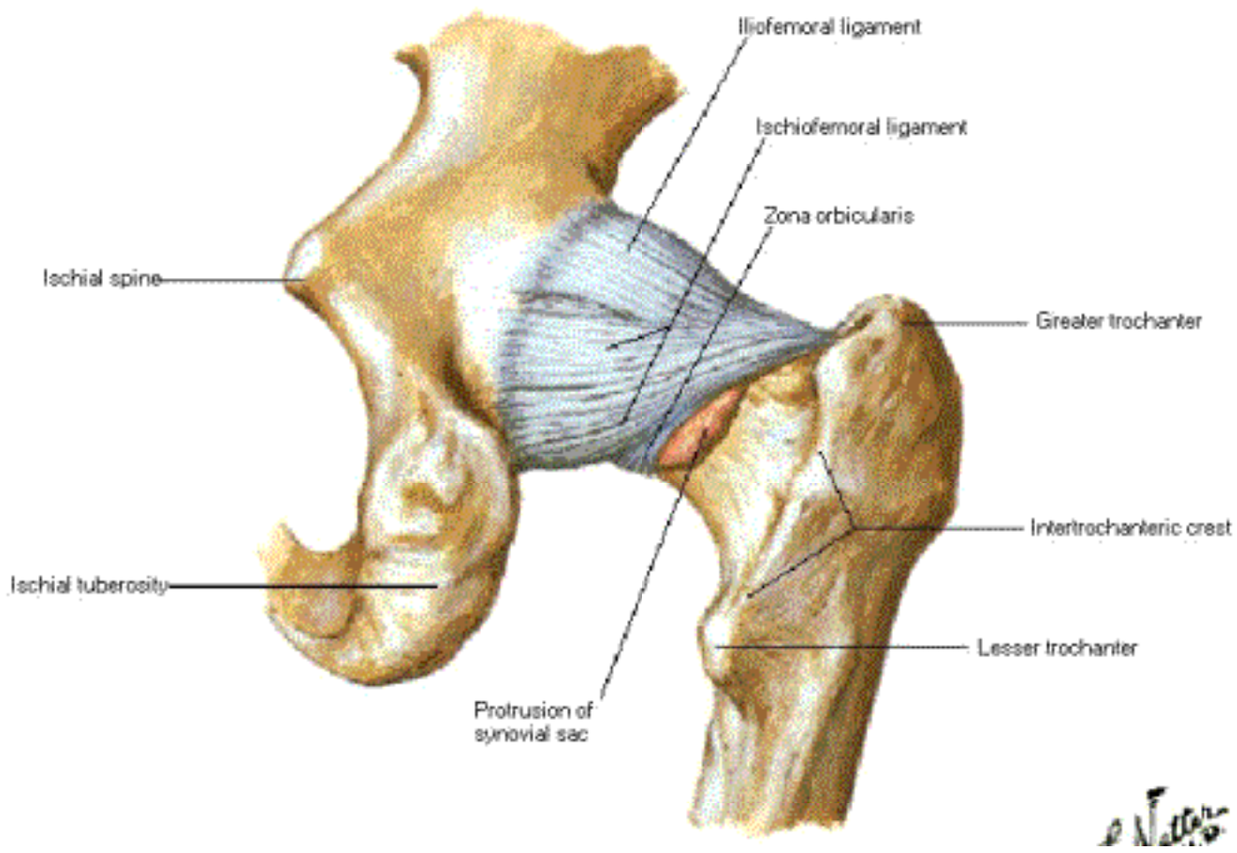
Hip Joint

Anterior View



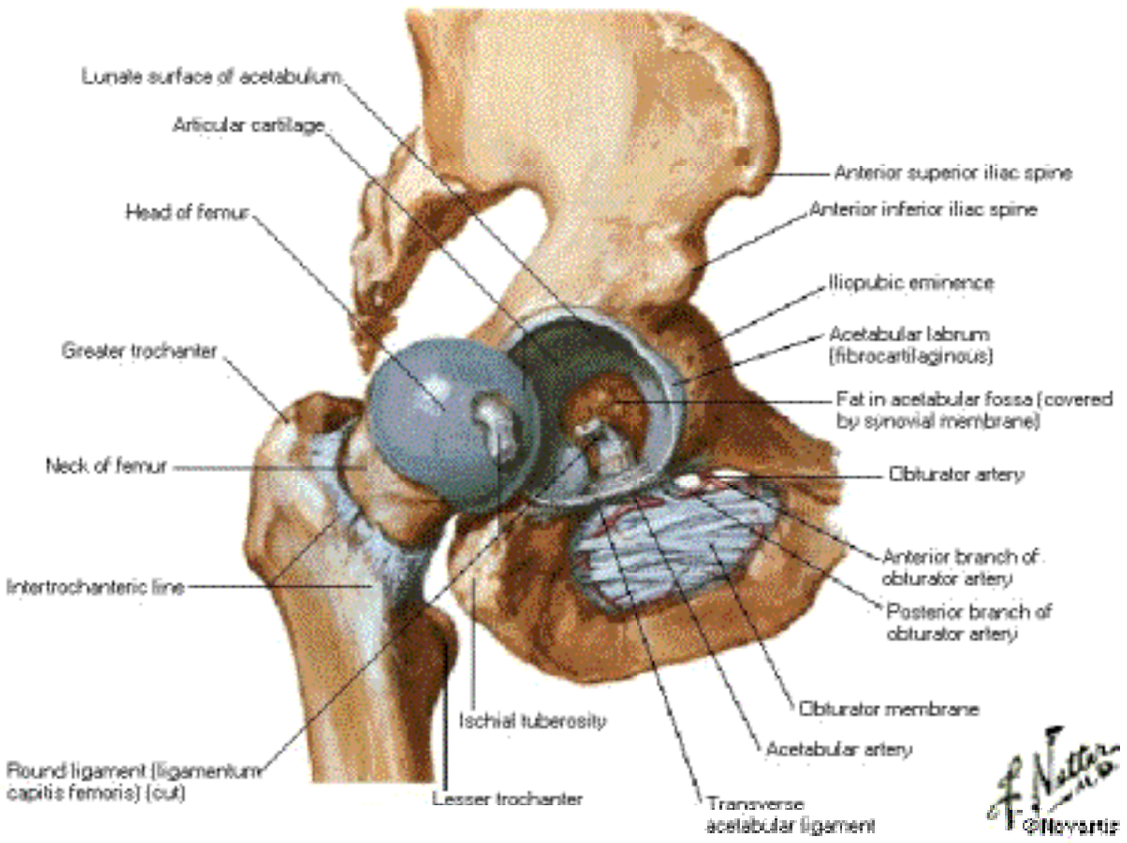
Hip Joint

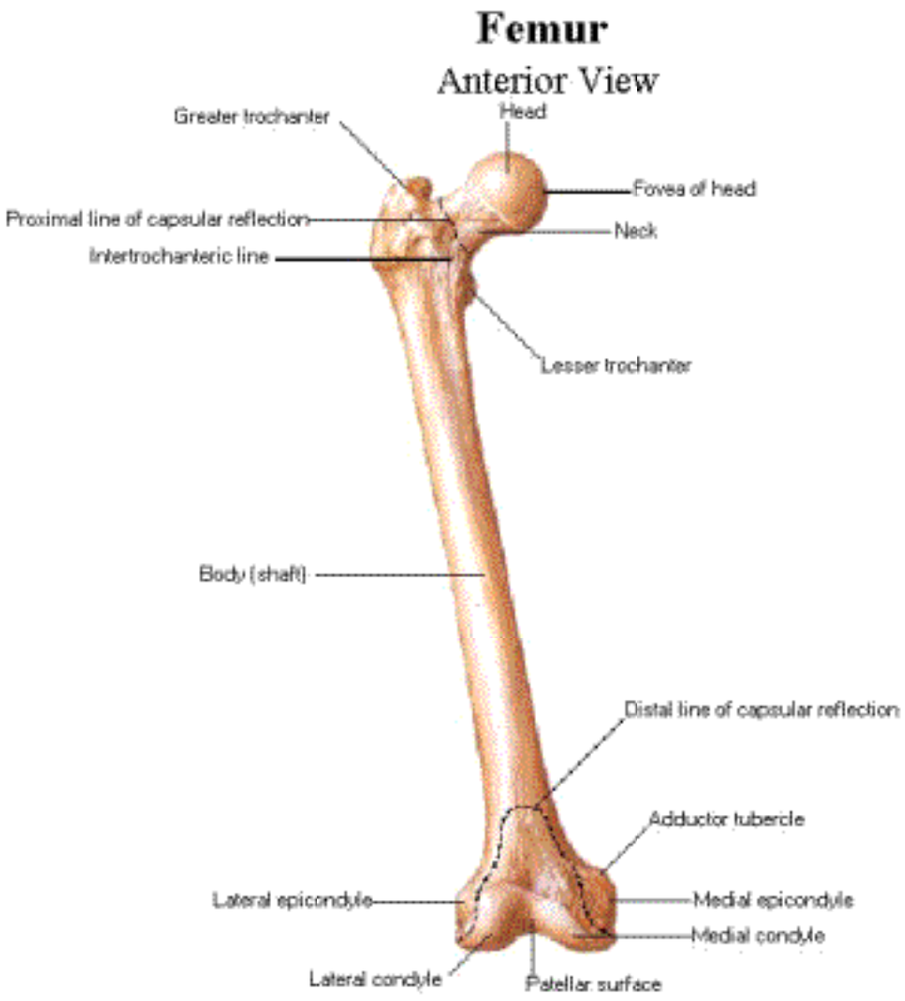
Posterior View



Hip Joint [Opened]

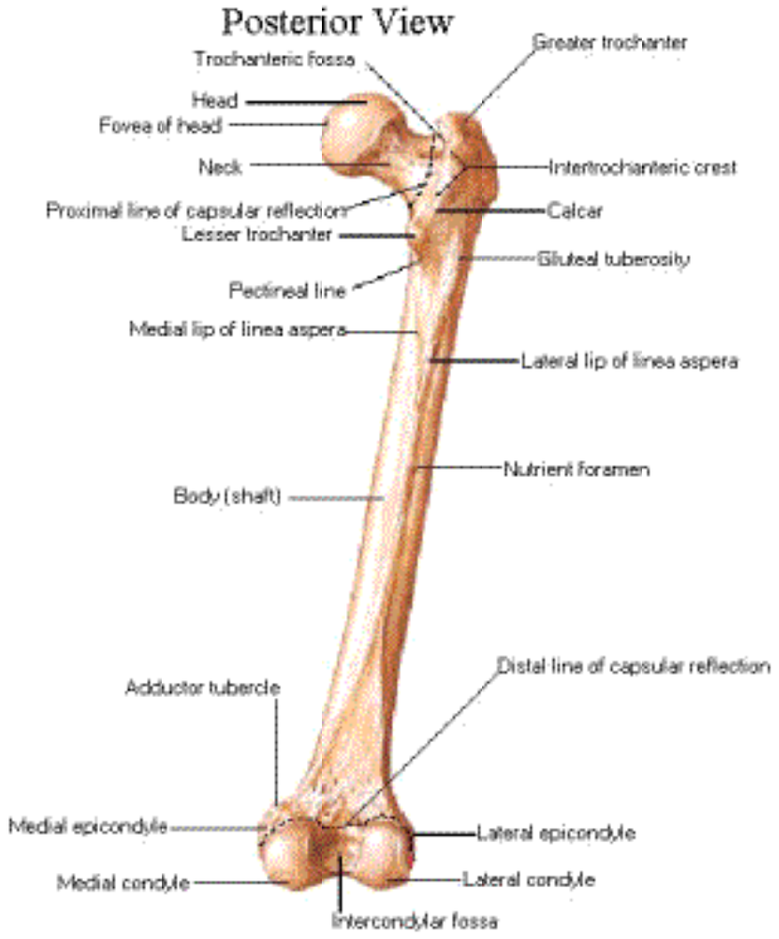
Lateral View



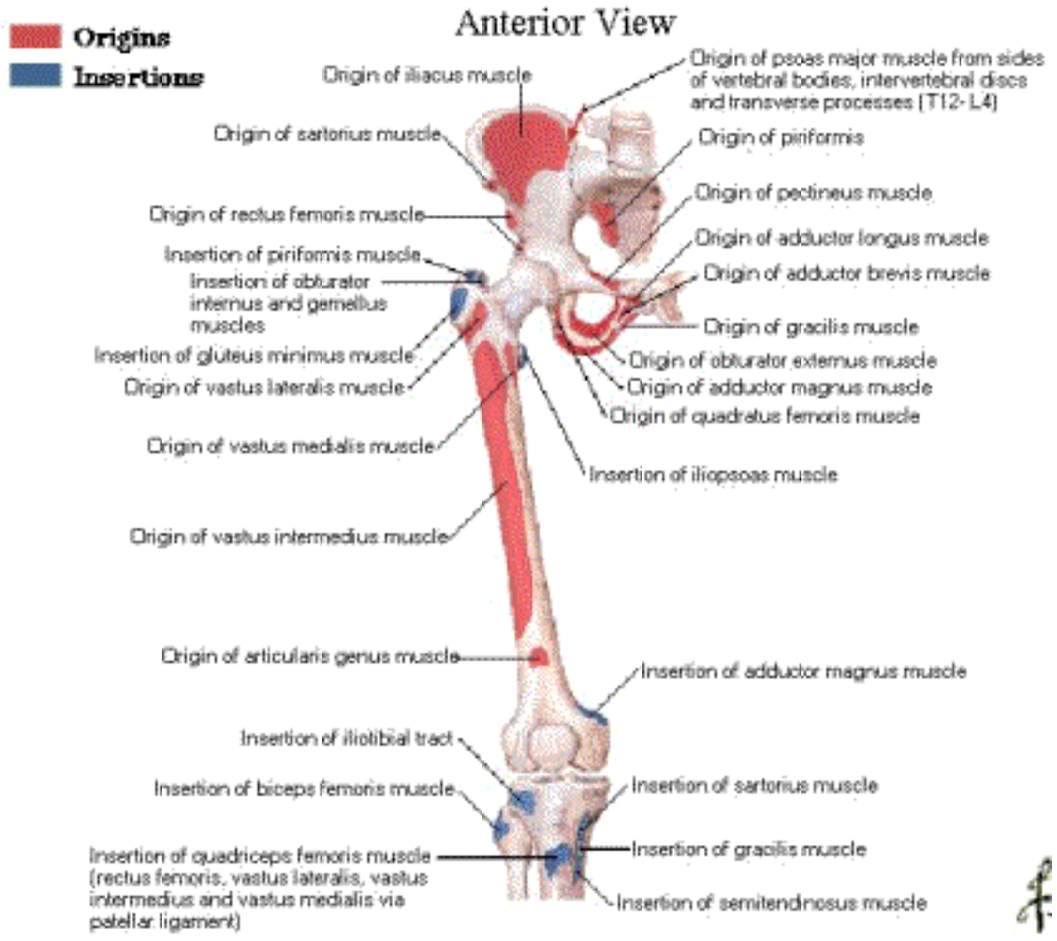

Femur
Anterior View
Greater trochanter
Head
Fovea of head
Proximal line of capsular reflection
Neck
Intertrochanteric line
Lesser trochanter
Body (shaft)
Distal line of capsular reflection
Adductor tubercle
Lateral epicondyle
Medial epicondyle
Medial condyle
Lateral condyle
Patellar surface

Femur

Posterior View

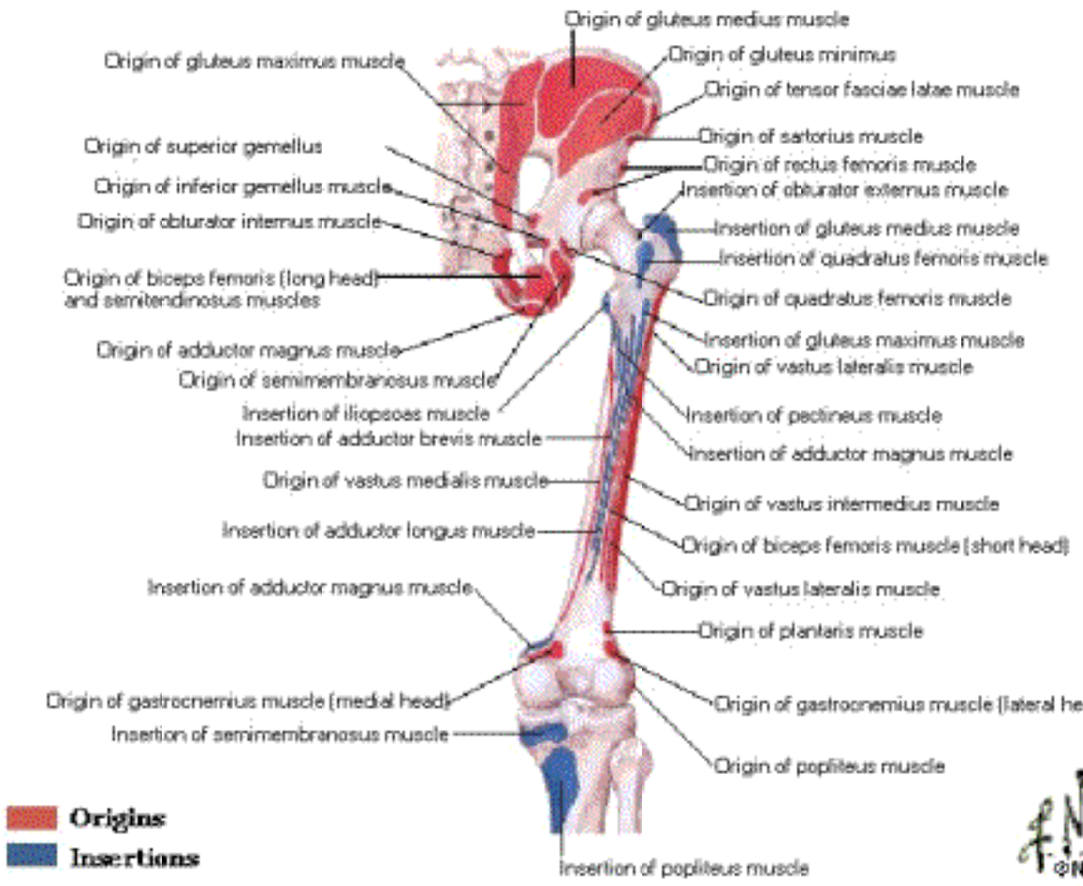


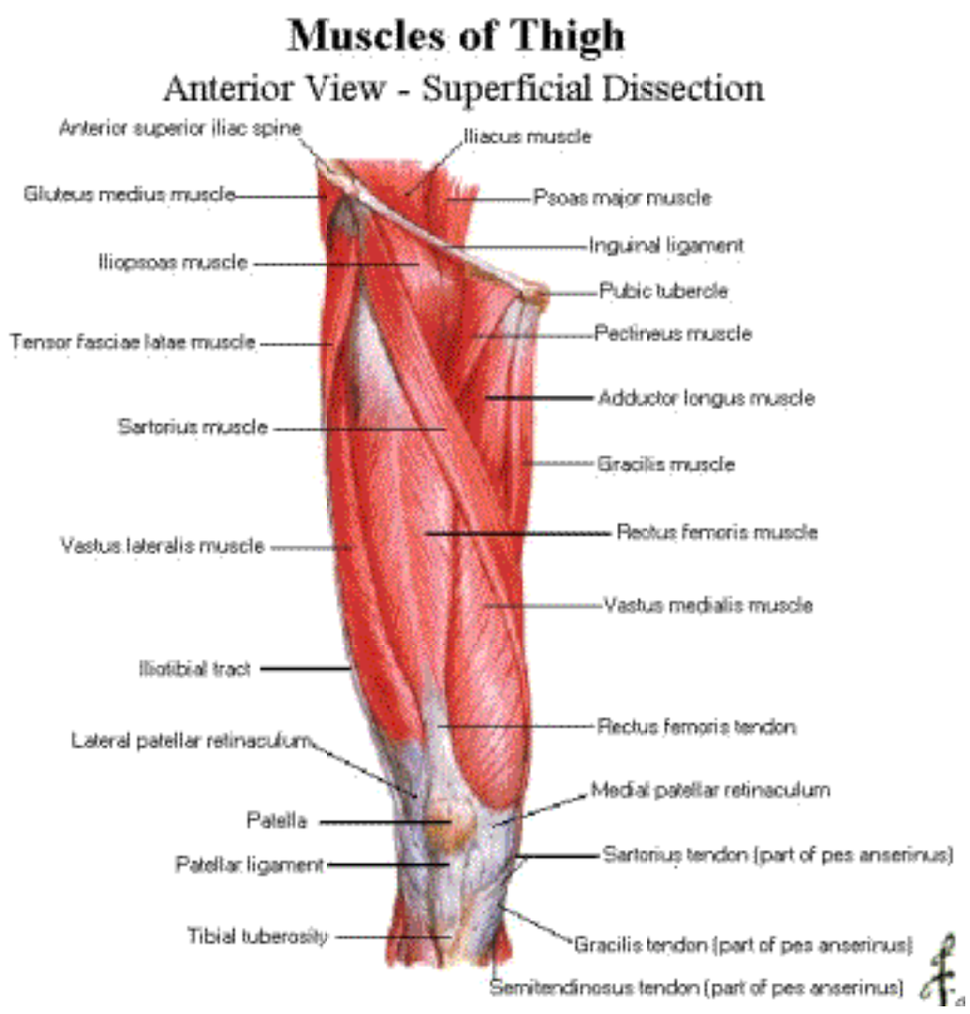
Bony Attachments of Muscles of Hip and Thigh



Bony Attachments of Muscles of Hip and Thigh

Posterior View

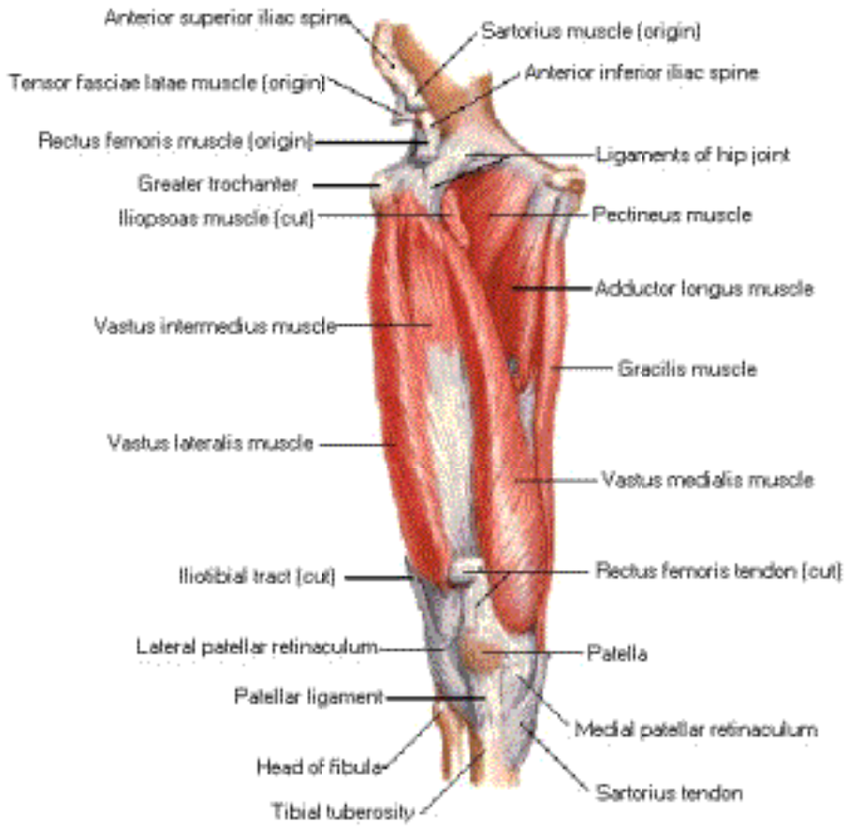



Muscles of Thigh
Anterior View - Superficial Dissection
Anterior superior iliac spine
Iliacus muscle
Gluteus medius muscle
Psoas major muscle
Inguinal ligament
Iliopsoas muscle
Pubic tubercle
Tensor fasciae latae muscle
Pectineus muscle
Adductor longus muscle
Sartorius muscle
Gracilis muscle
Vastus lateralis muscle
Rectus femoris muscle
Vastus medialis muscle
Iliotibial tract
Lateral patellar retinaculum
Rectus femoris tendon
Medial patellar retinaculum
Patella
Sartorius tendon (part of pes anserinus)
Patellar ligament
Tibial tuberosity
Gracilis tendon (part of pes anserinus)
Semitendinosus tendon (part of pes anserinus)

¡@

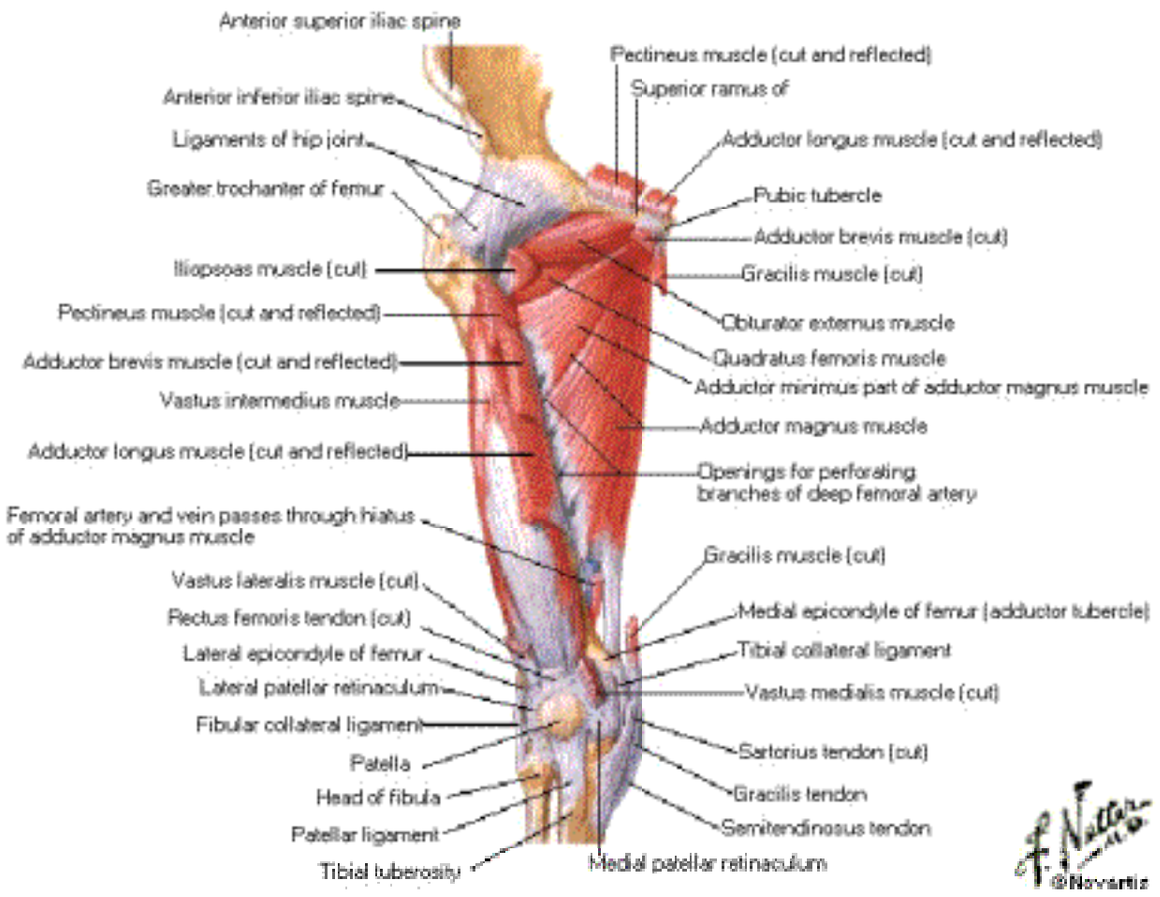
Muscles of Thigh

Anterior View - Deeper Dissection



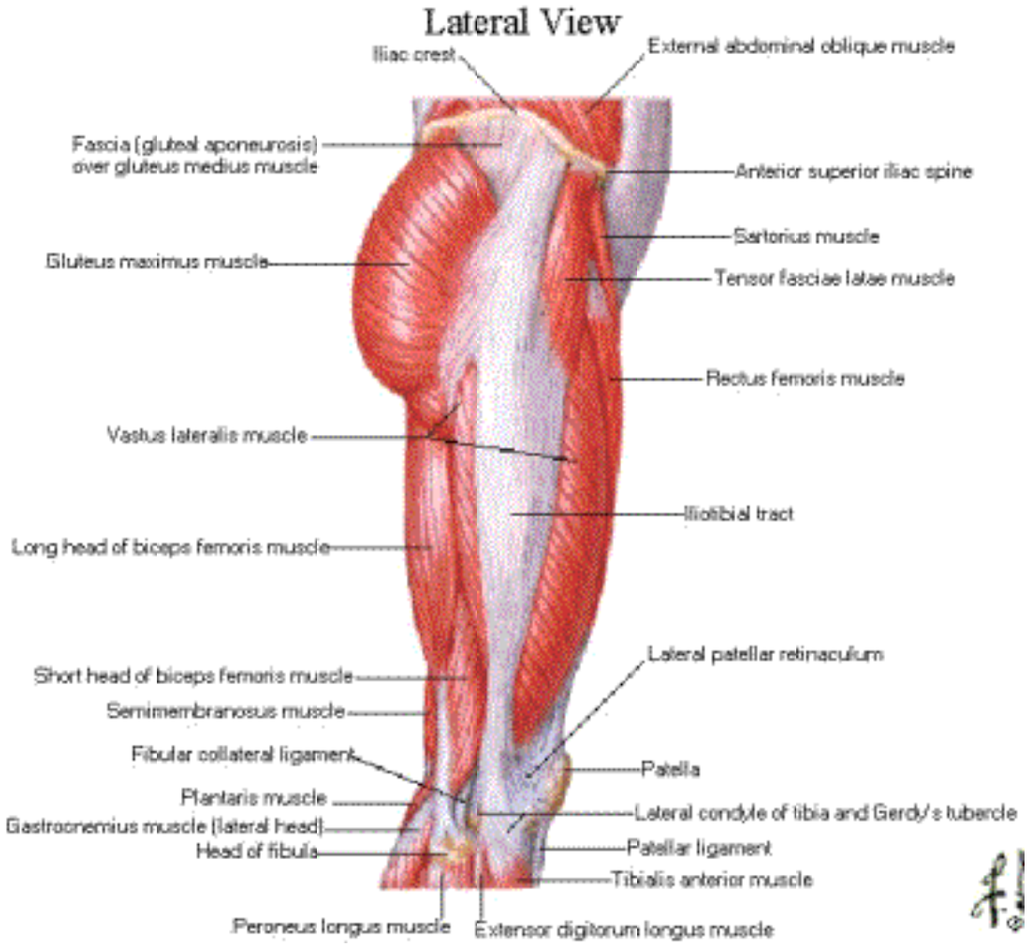
Muscles of Thigh

Anterior View - Deepest Dissection



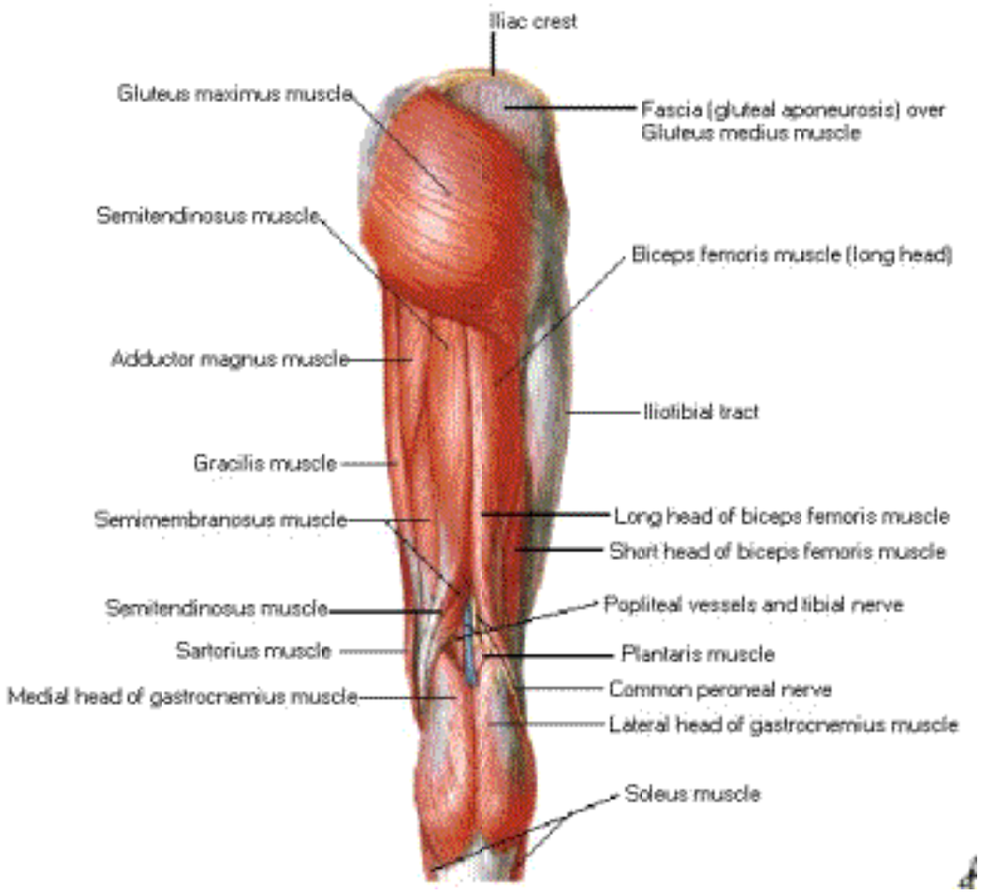
Muscles of Hip and Thigh

Lateral View



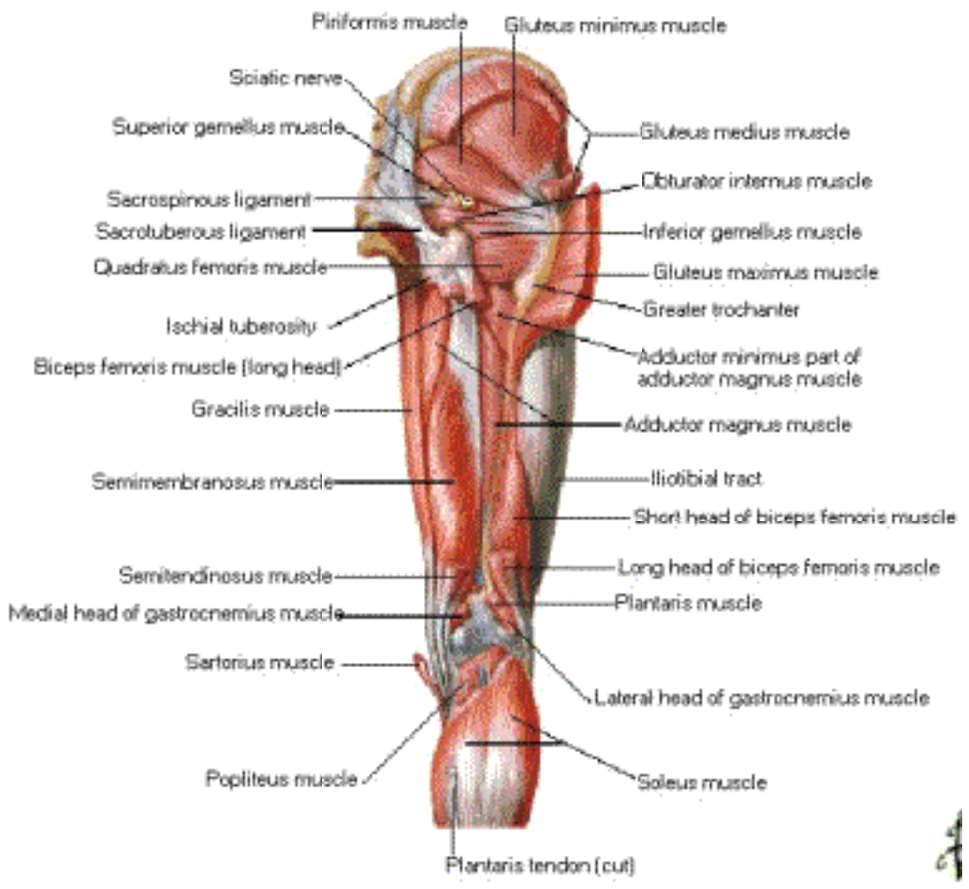
Muscles of Hip and Thigh

Posterior View - Superficial Dissection

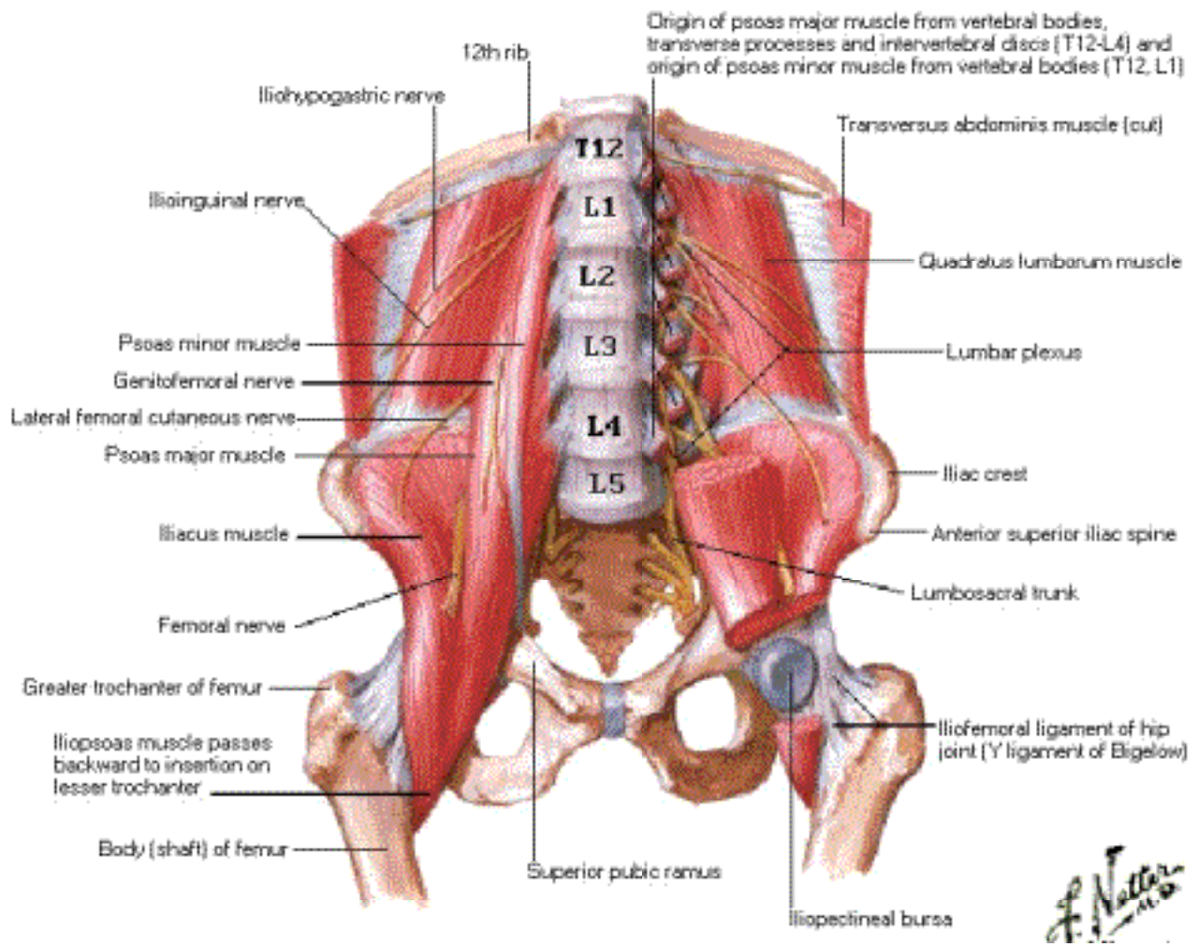


Muscles of Hip and Thigh

Posterior View - Deeper Dissection

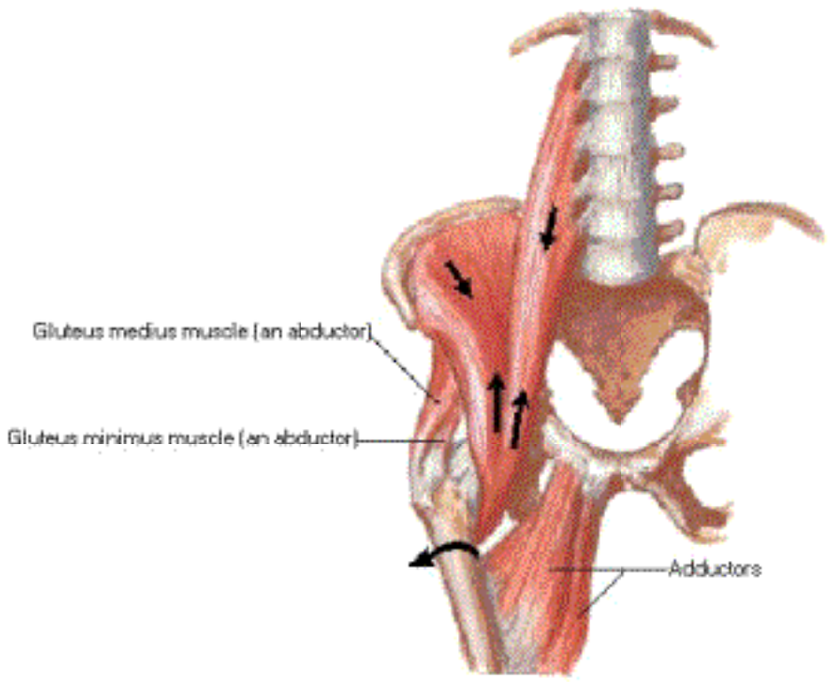


Psoas and Iliacus Muscles



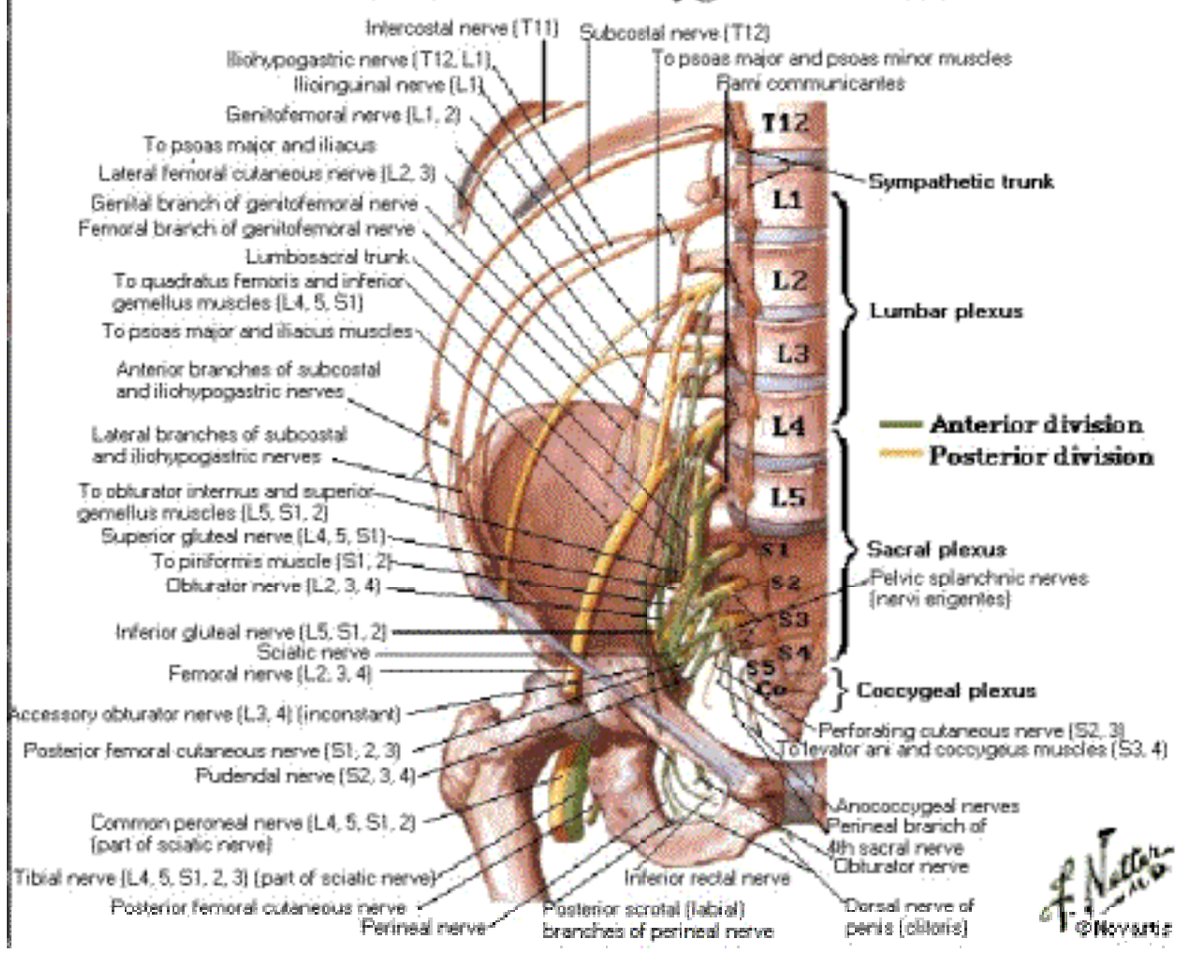
Psoas and Iliacus Muscles

Action



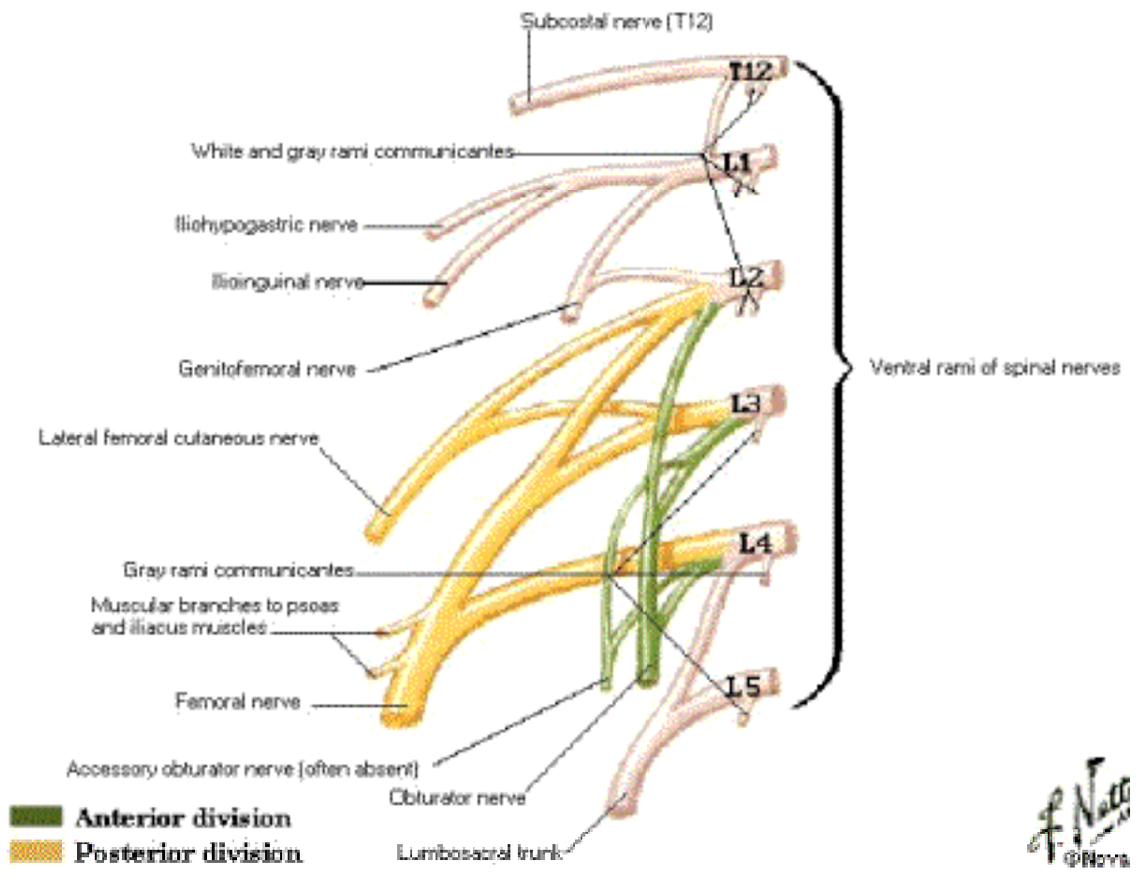
Note: . arrows indicate direction of action of iliopsoas muscle

Lumbosacral and Coccygeal Plexuses

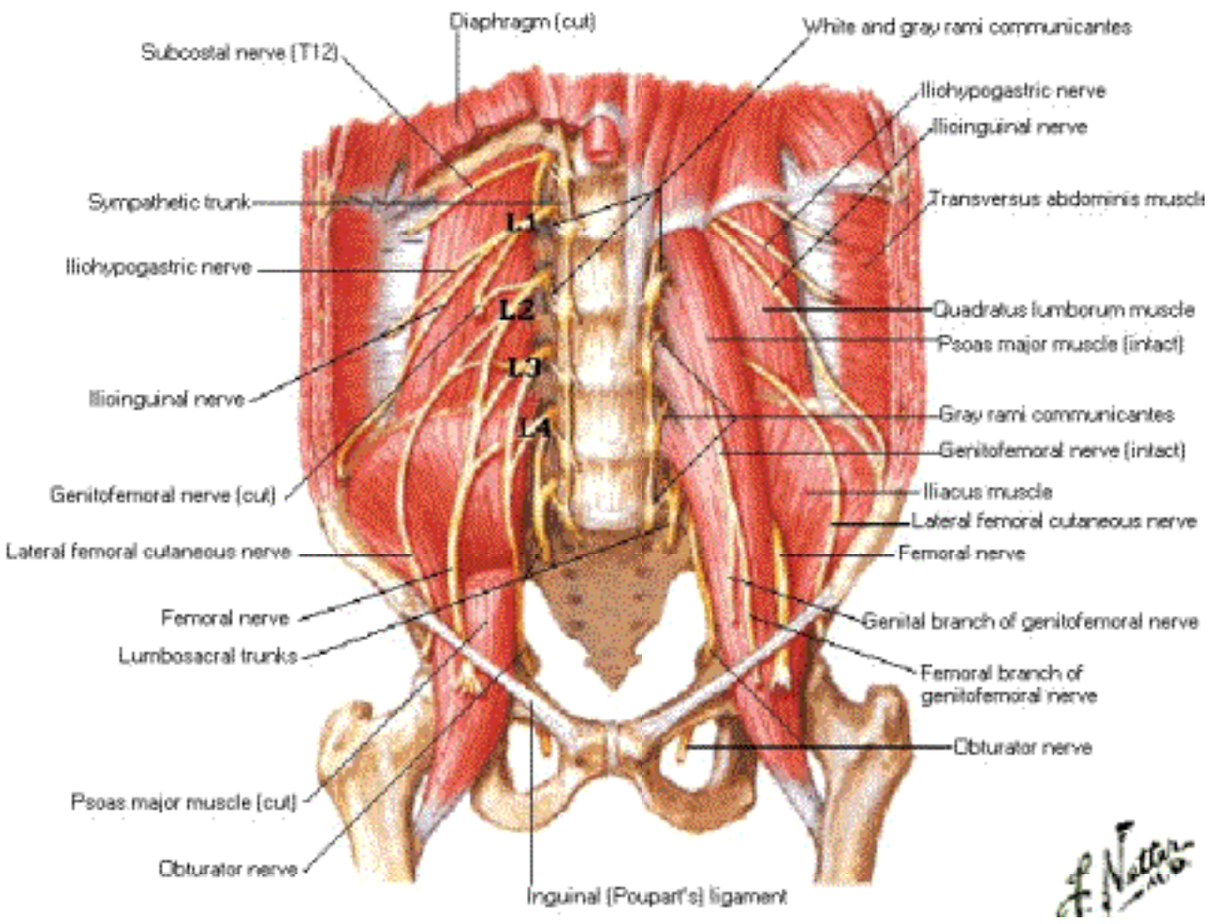


Lumbar Plexus

Schema

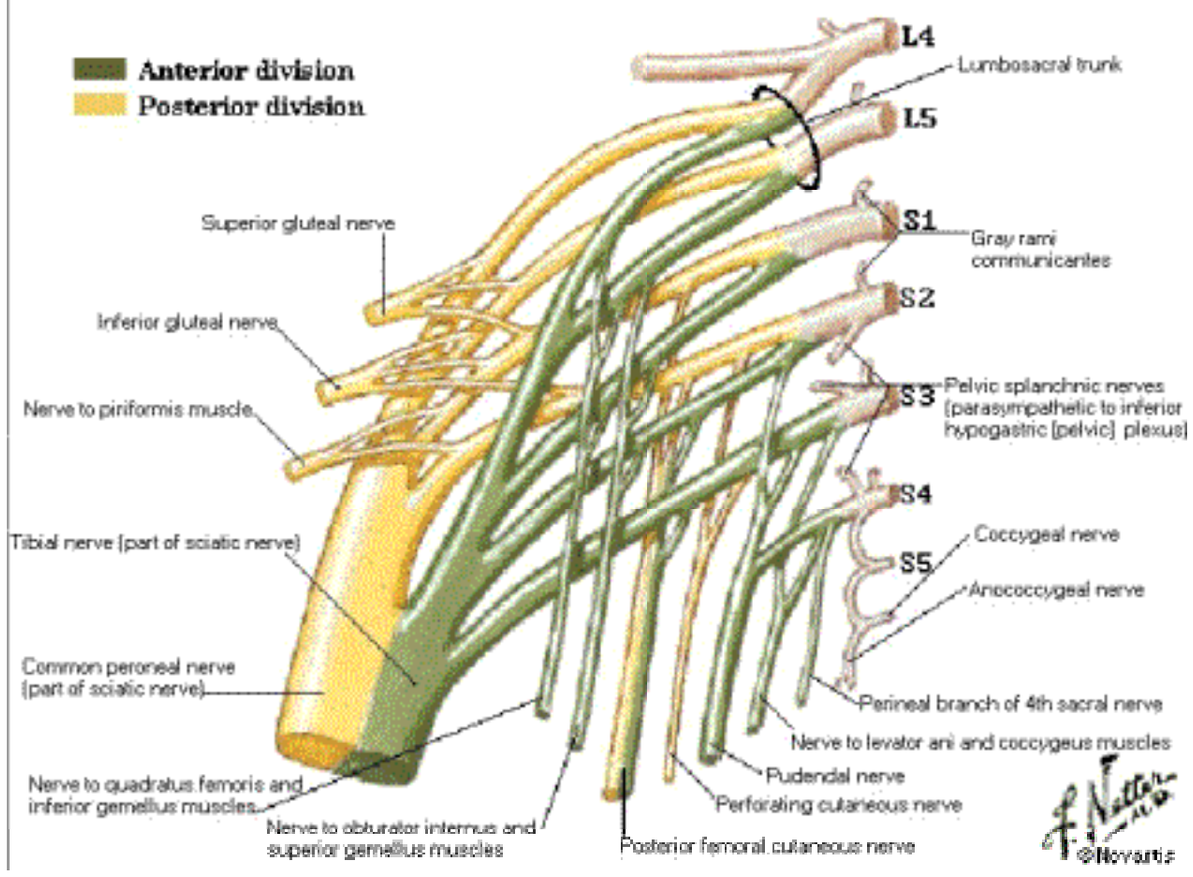


Lumbar Plexus in Situ

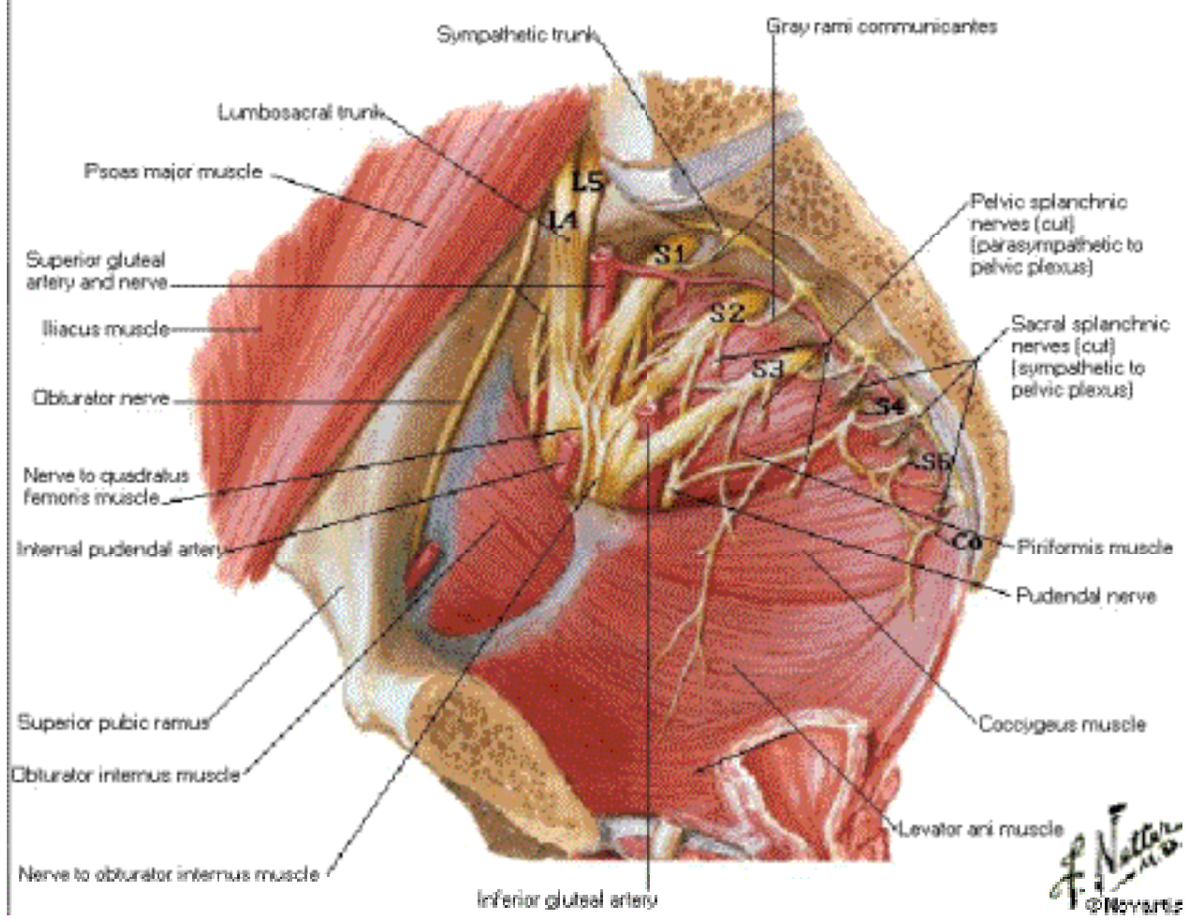


Sacral and Coccygeal Plexuses

Schema

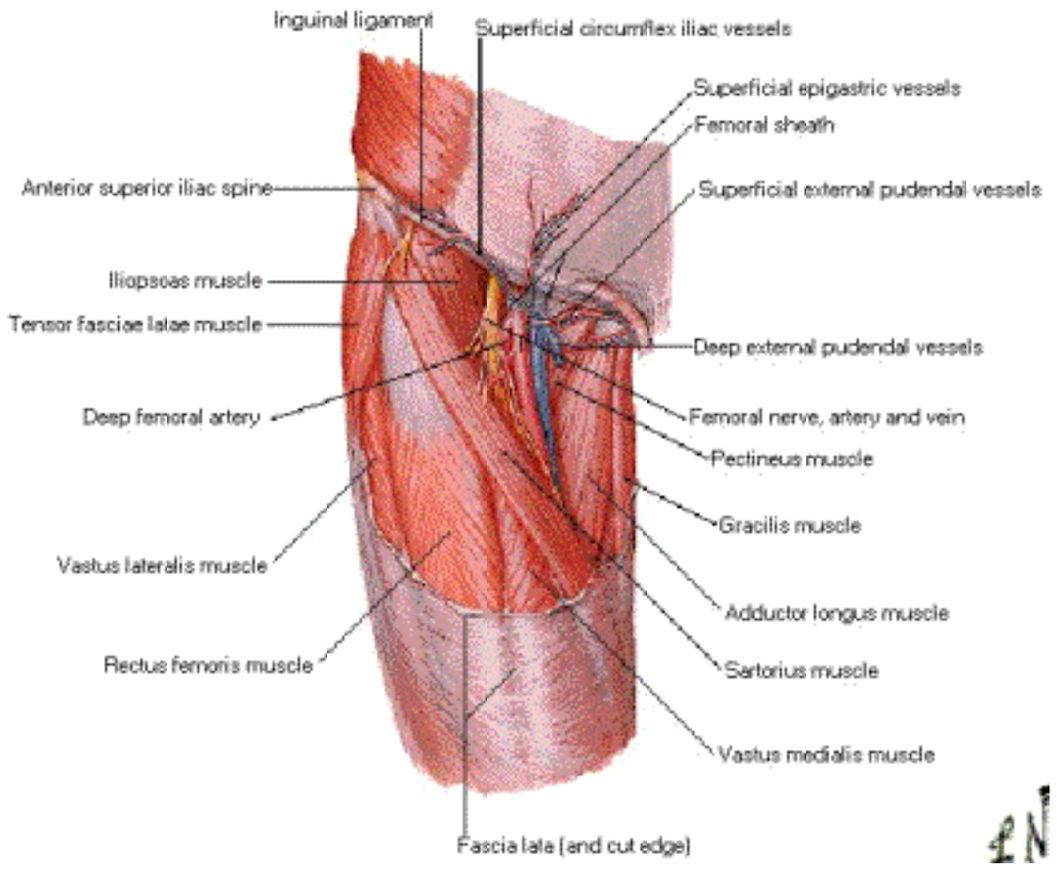


Sacral and Coccygeal Plexuses in Situ



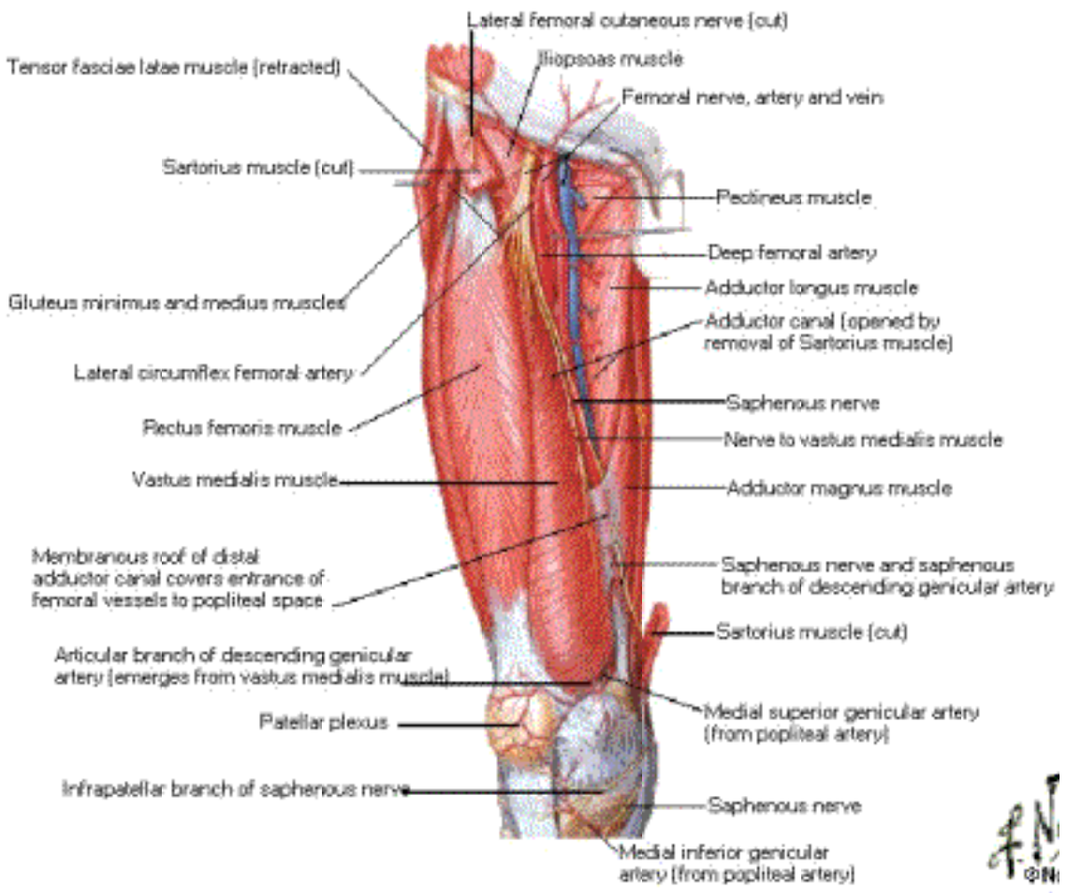
Arteries and Nerves of Thigh

Superficial Anterior View



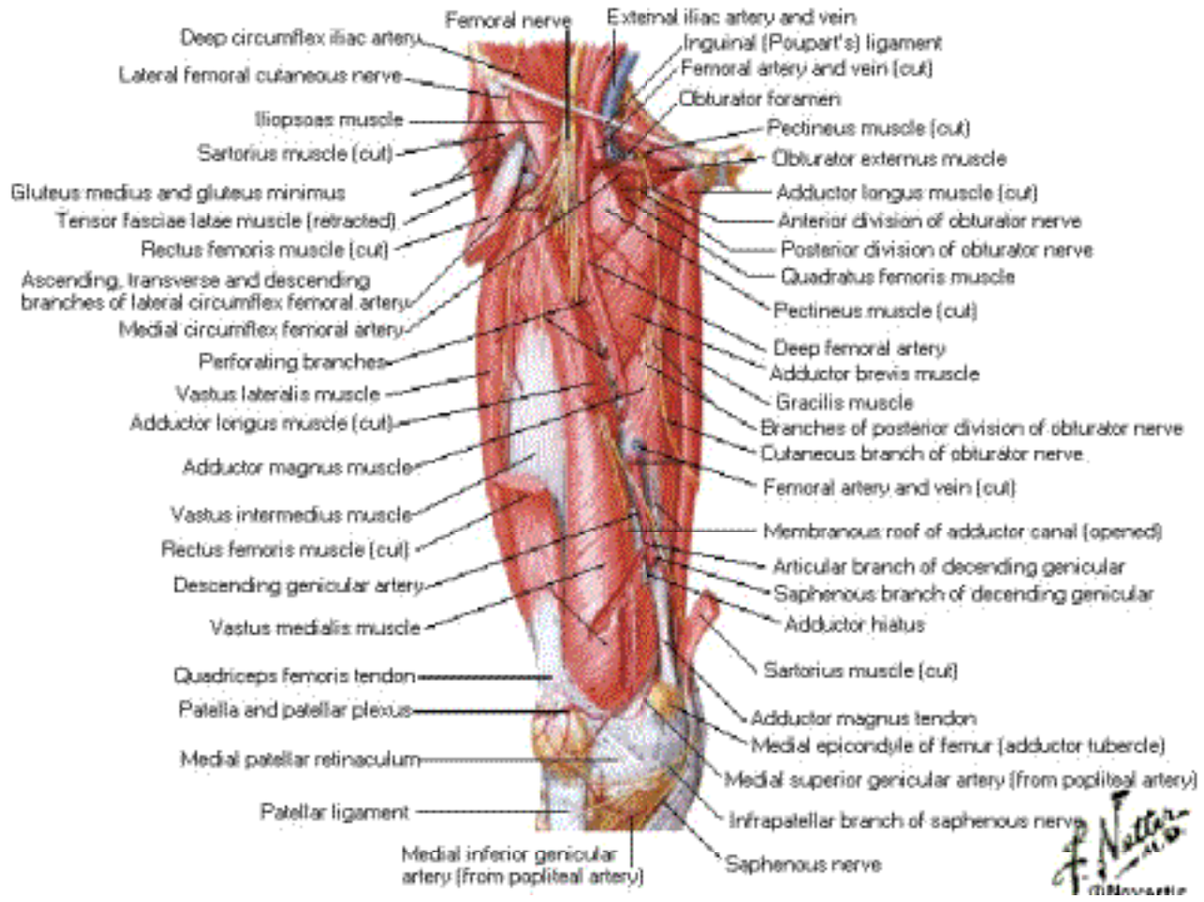
Arteries and Nerves of Thigh

Deeper Anterior View



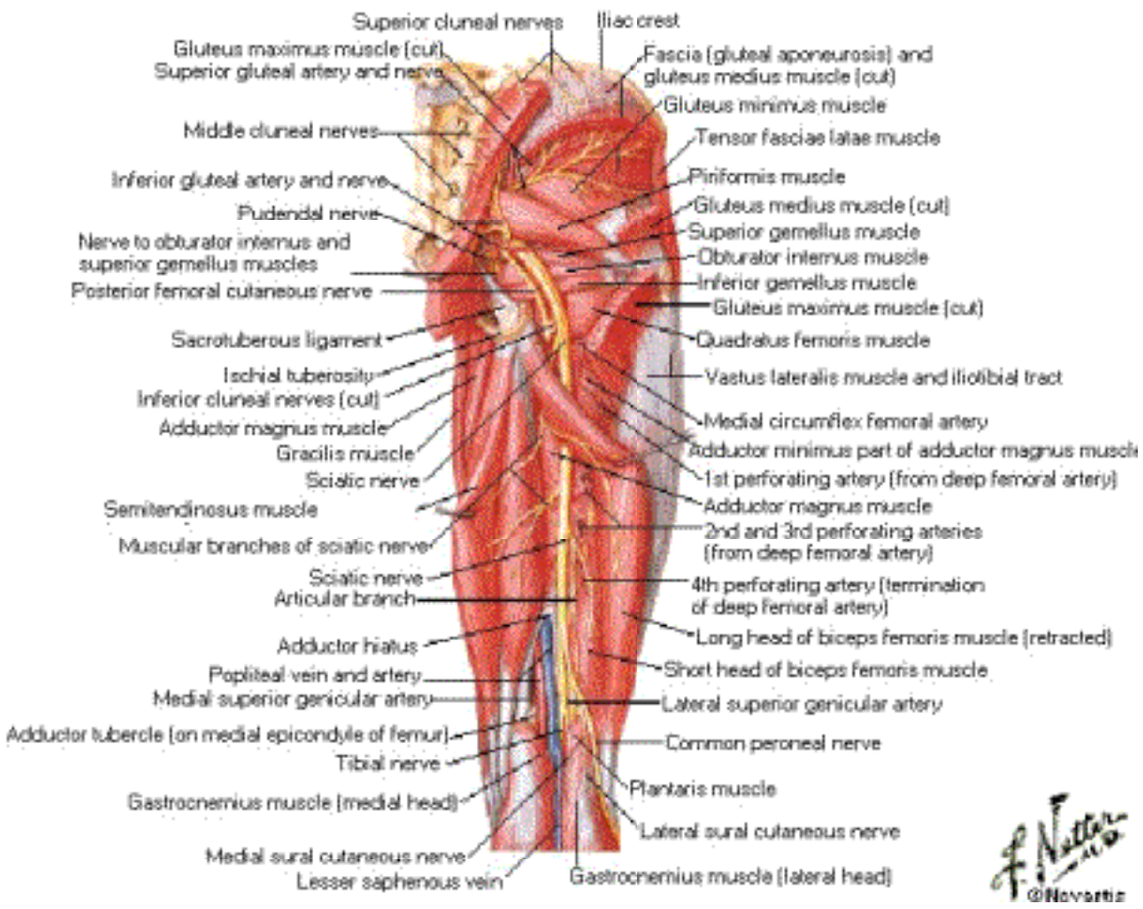
Arteries and Nerves of Thigh

Deepest Anterior View



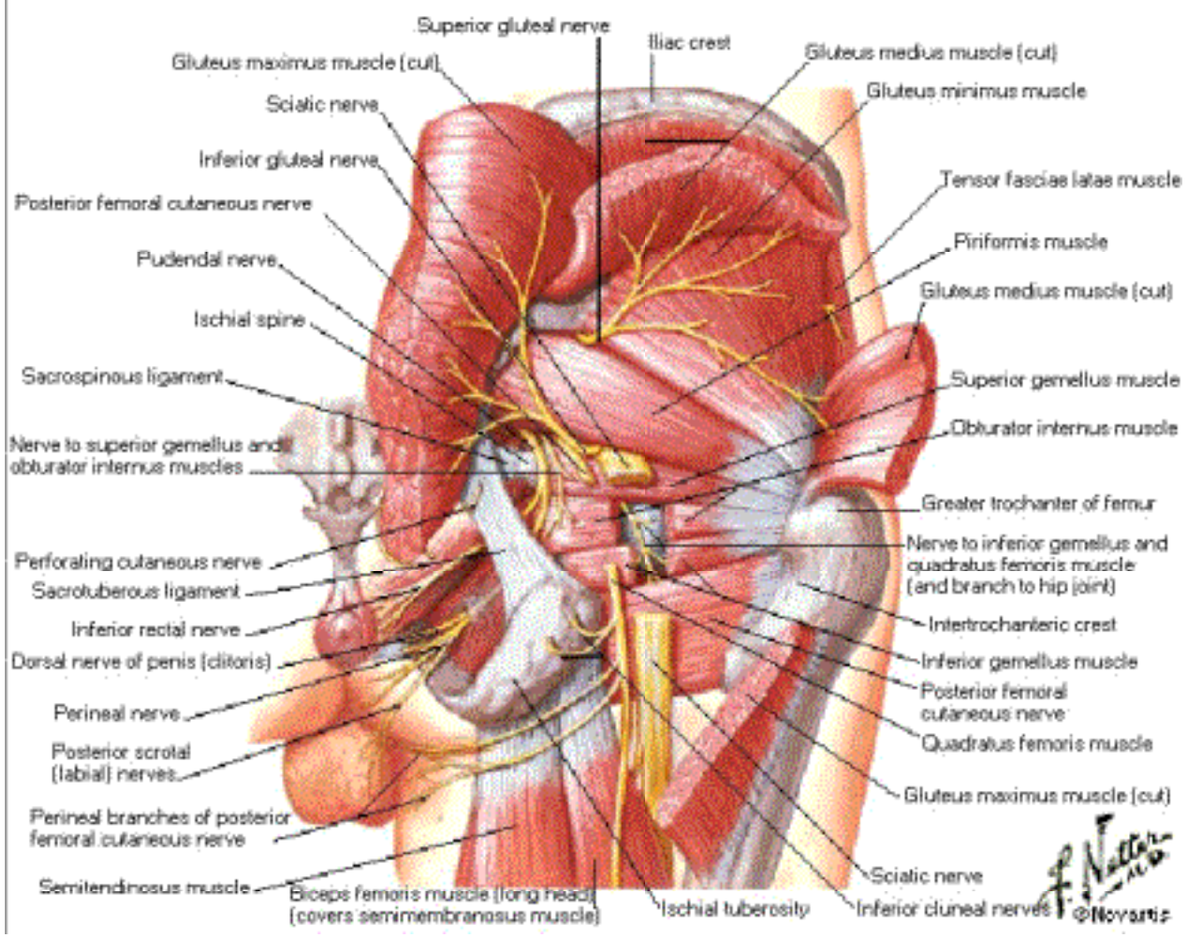
Arteries and Nerves of Thigh

Posterior View



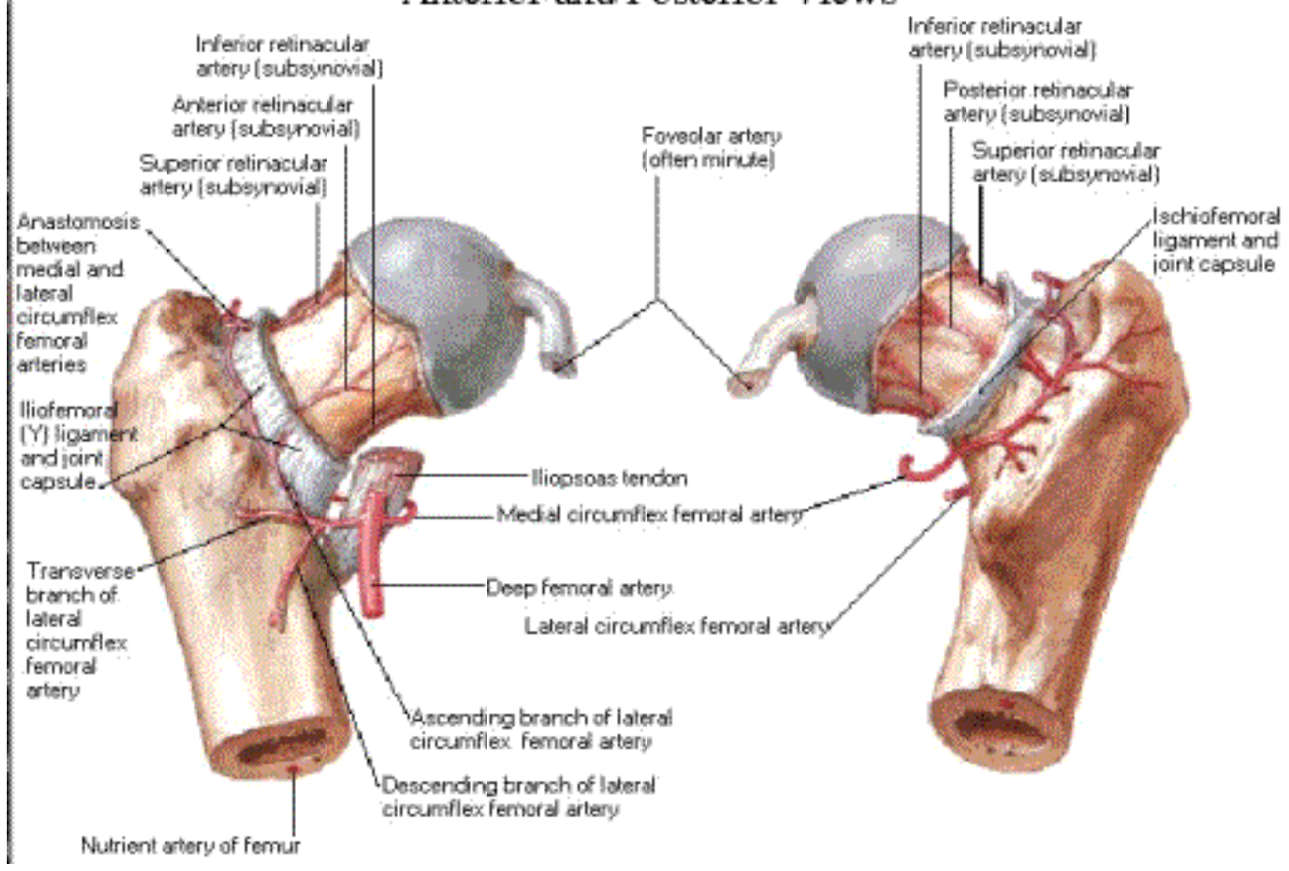
©Novartis

Nerves of Hip and Buttock



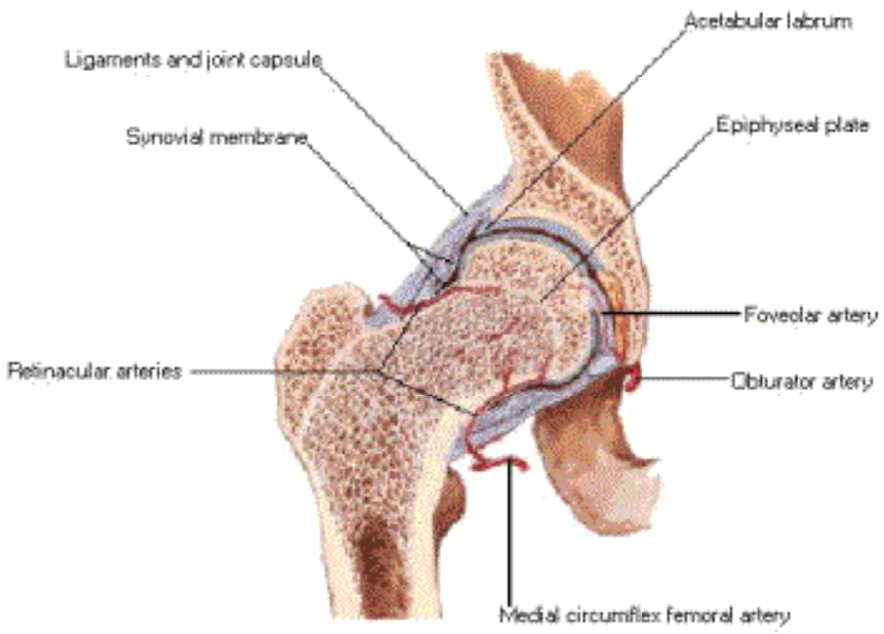
Arteries of Femoral Head and Neck

Anterior and Posterior Views



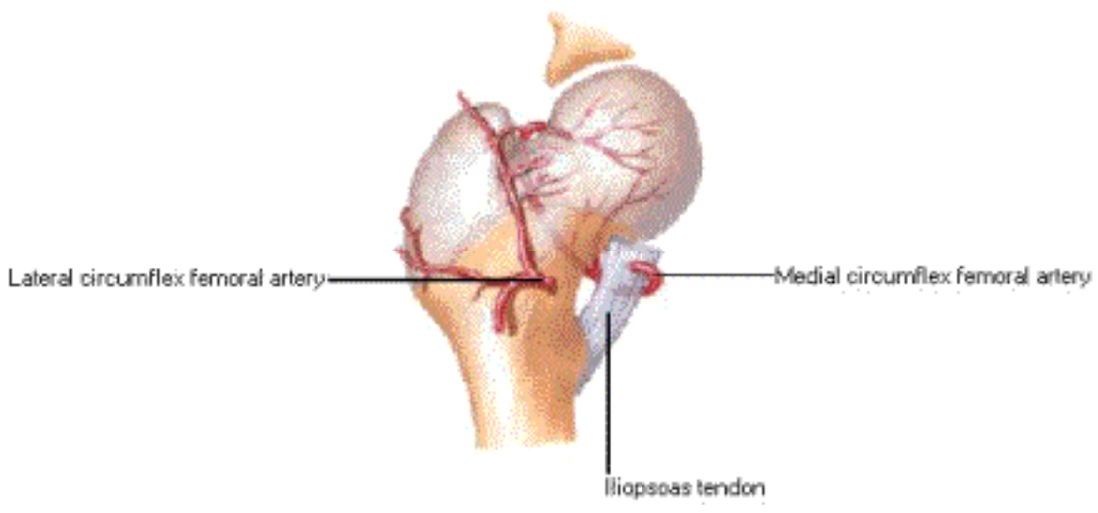
Arteries of Femoral Head and Neck

Coronal Section



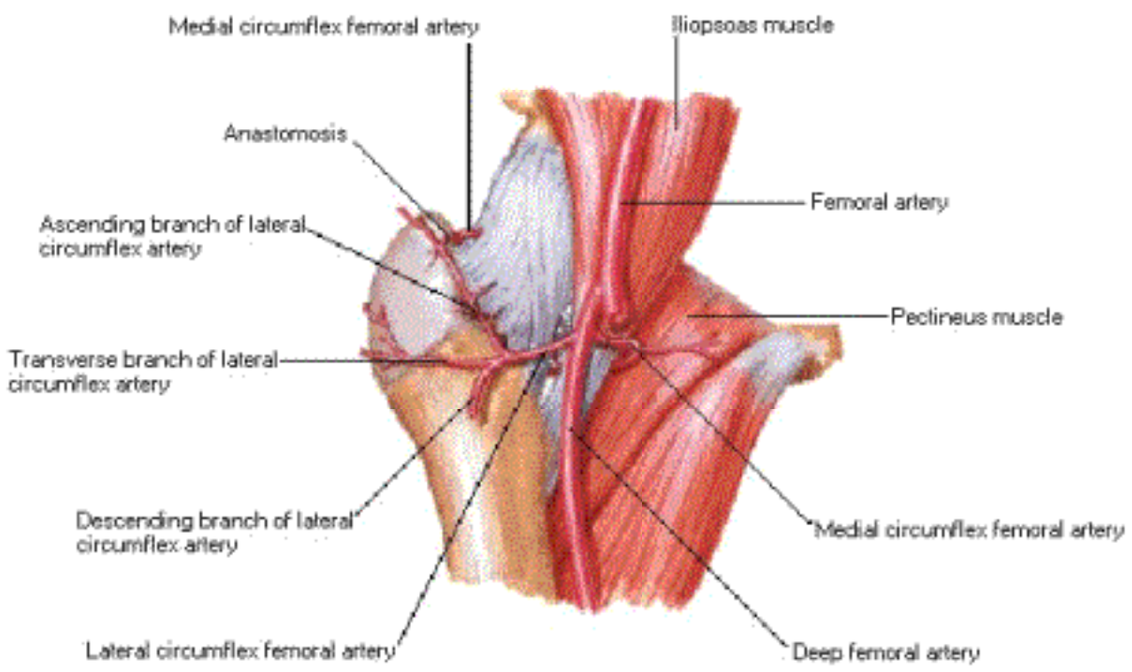
Arteries of Femoral Head and Neck

Femur of Child - Anterior View



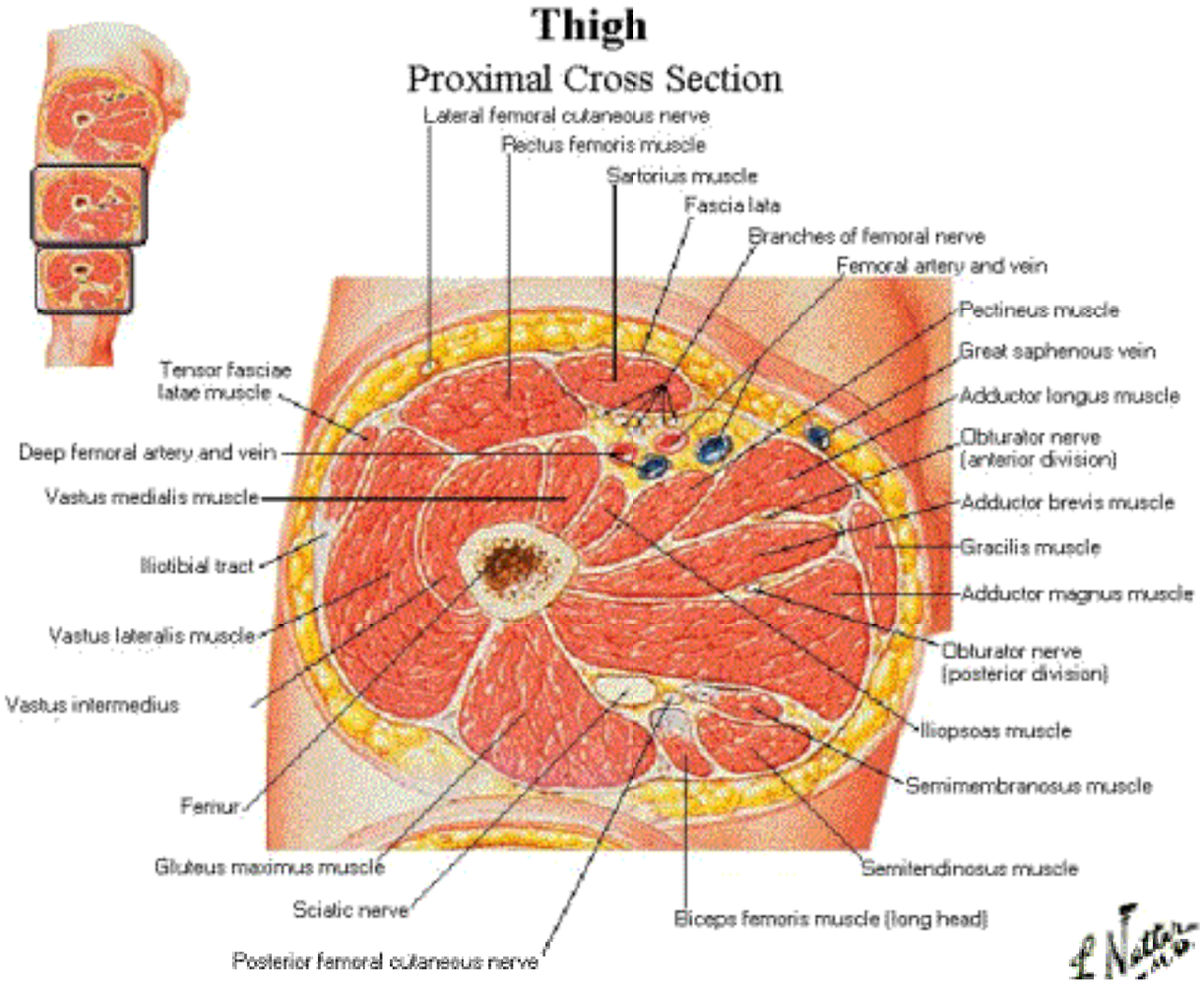
Arteries of Femoral Head and Neck

Anterior View in Situ



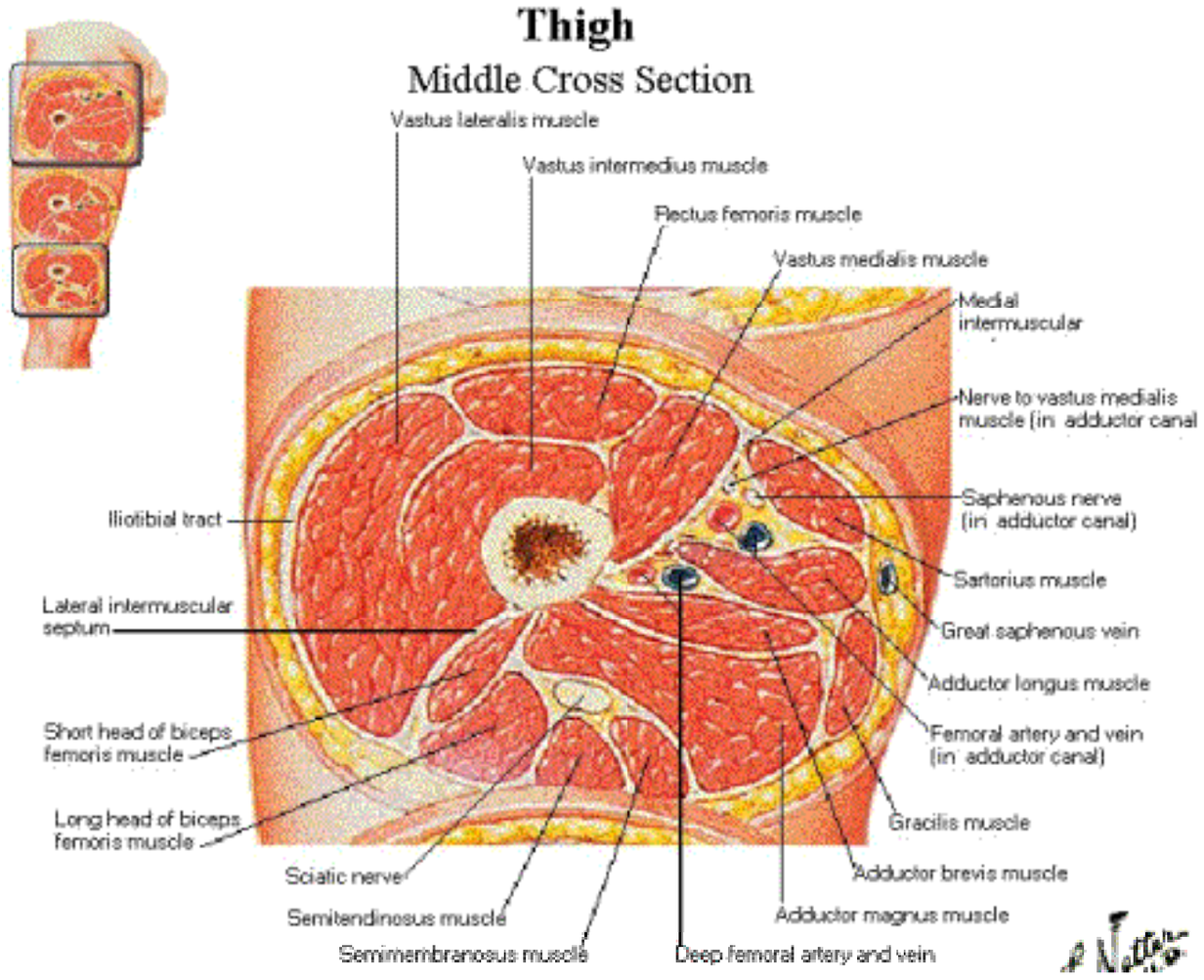
Thigh

Proximal Cross Section



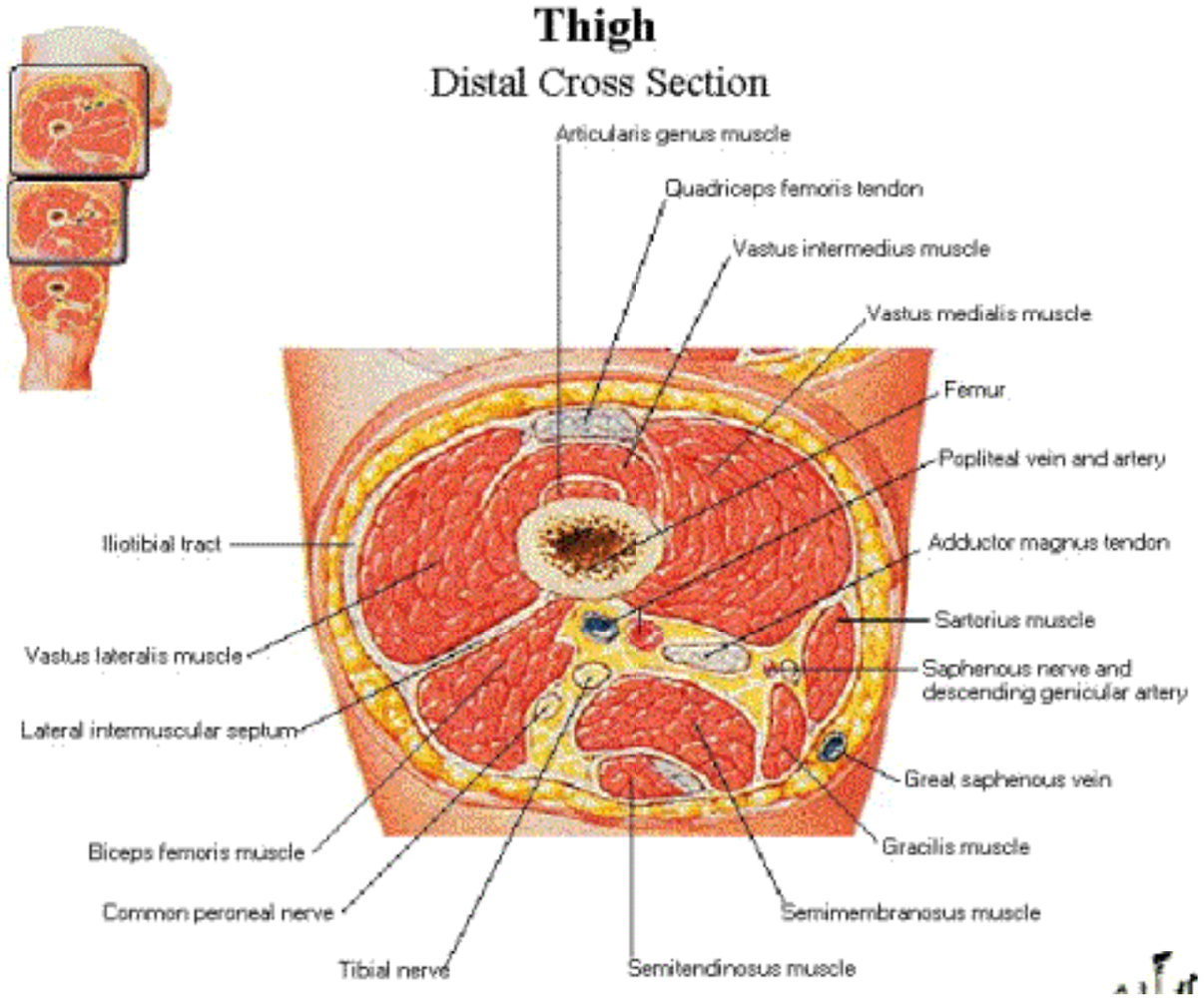
Thigh

Middle Cross Section



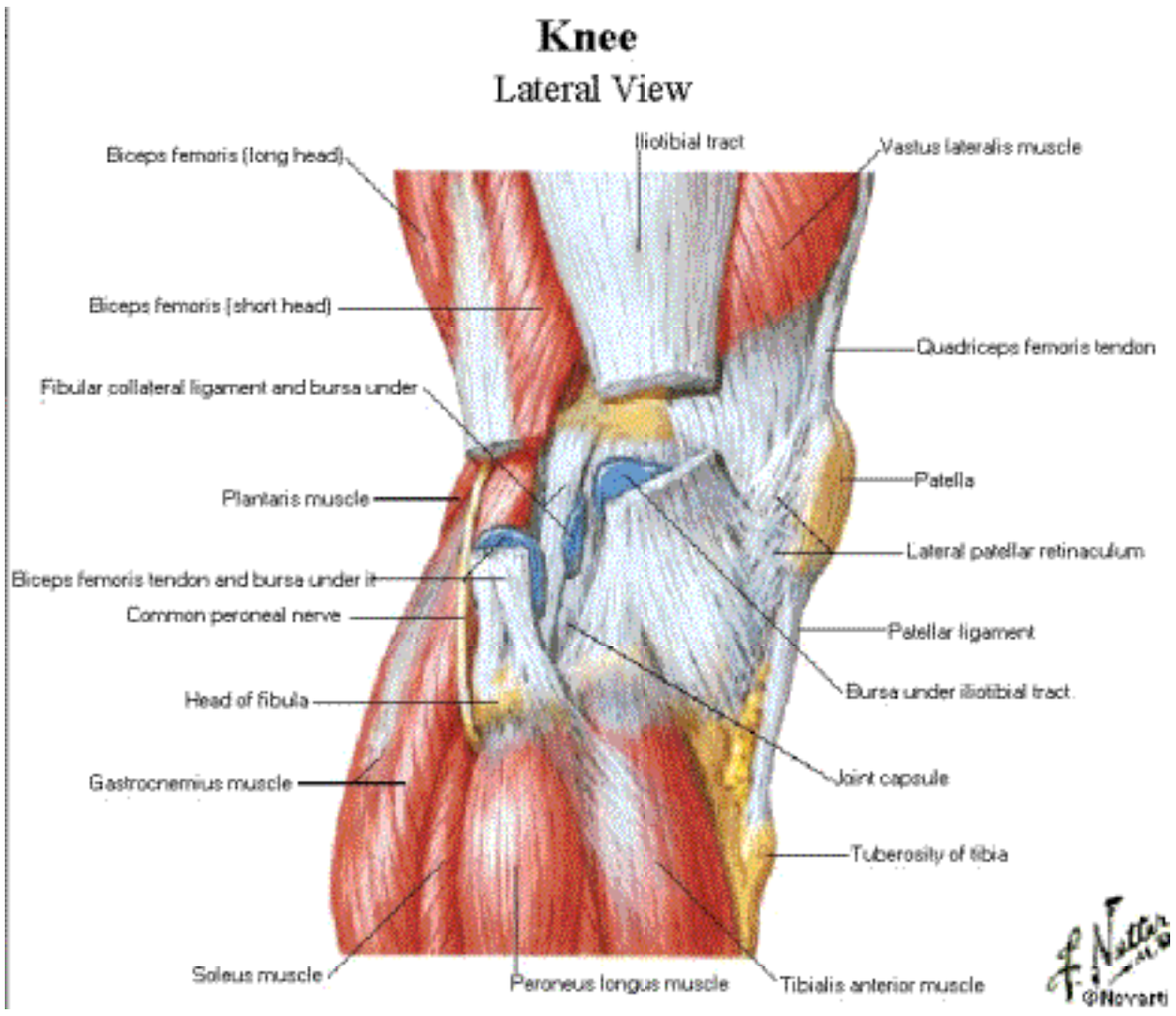
Thigh

Distal Cross Section



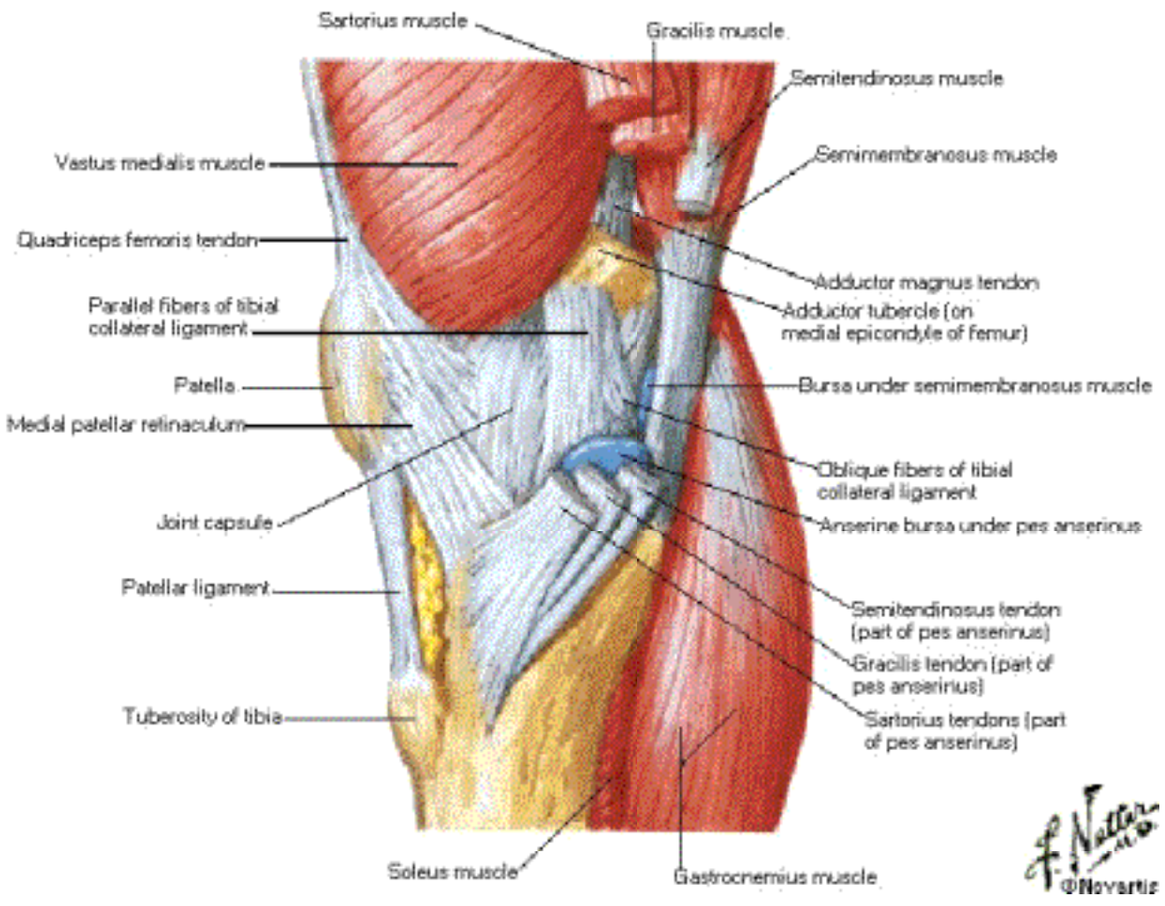
Knee

Lateral View



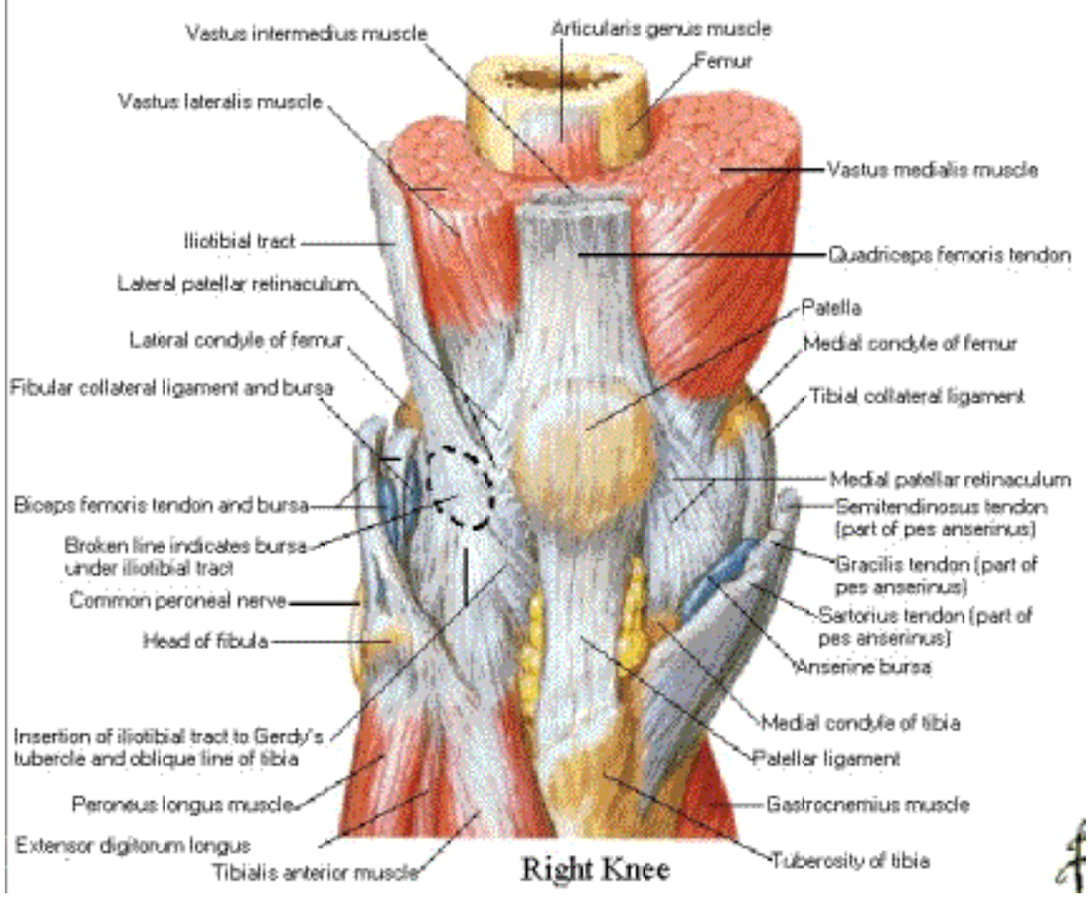
Knee

Medial View



Knee in Extension

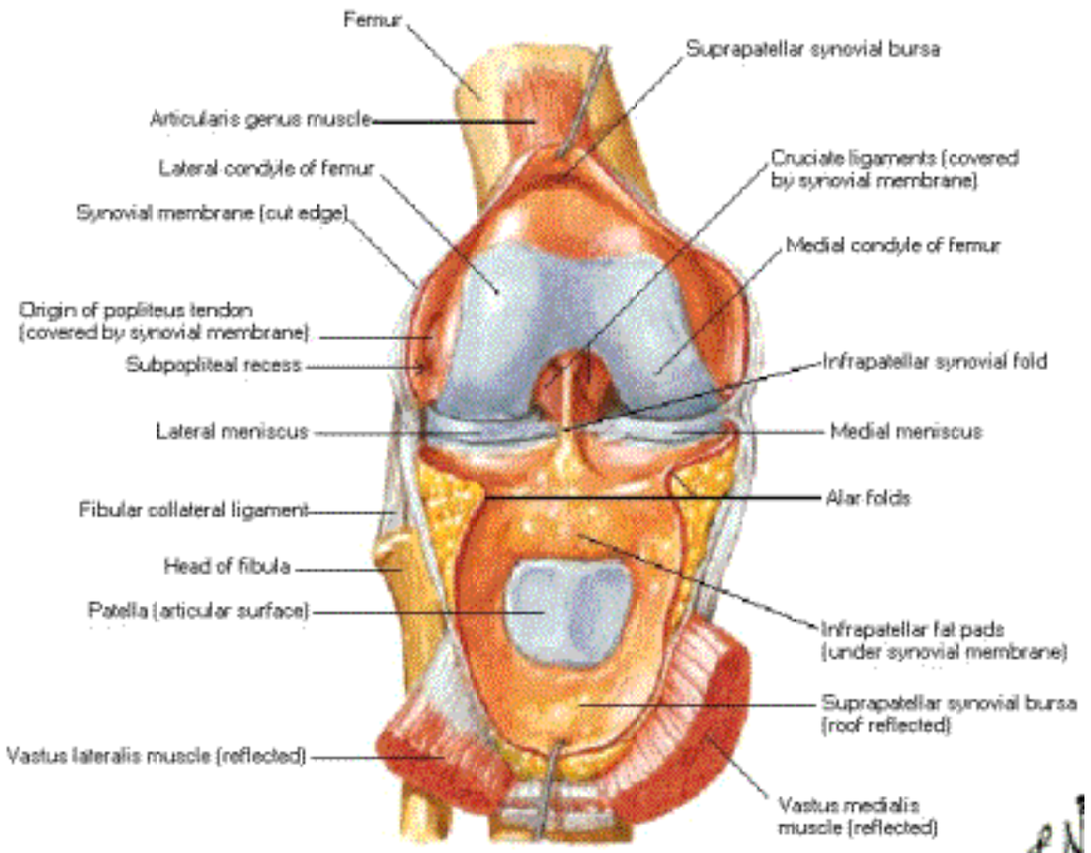
Anterior View



Right Knee

Knee

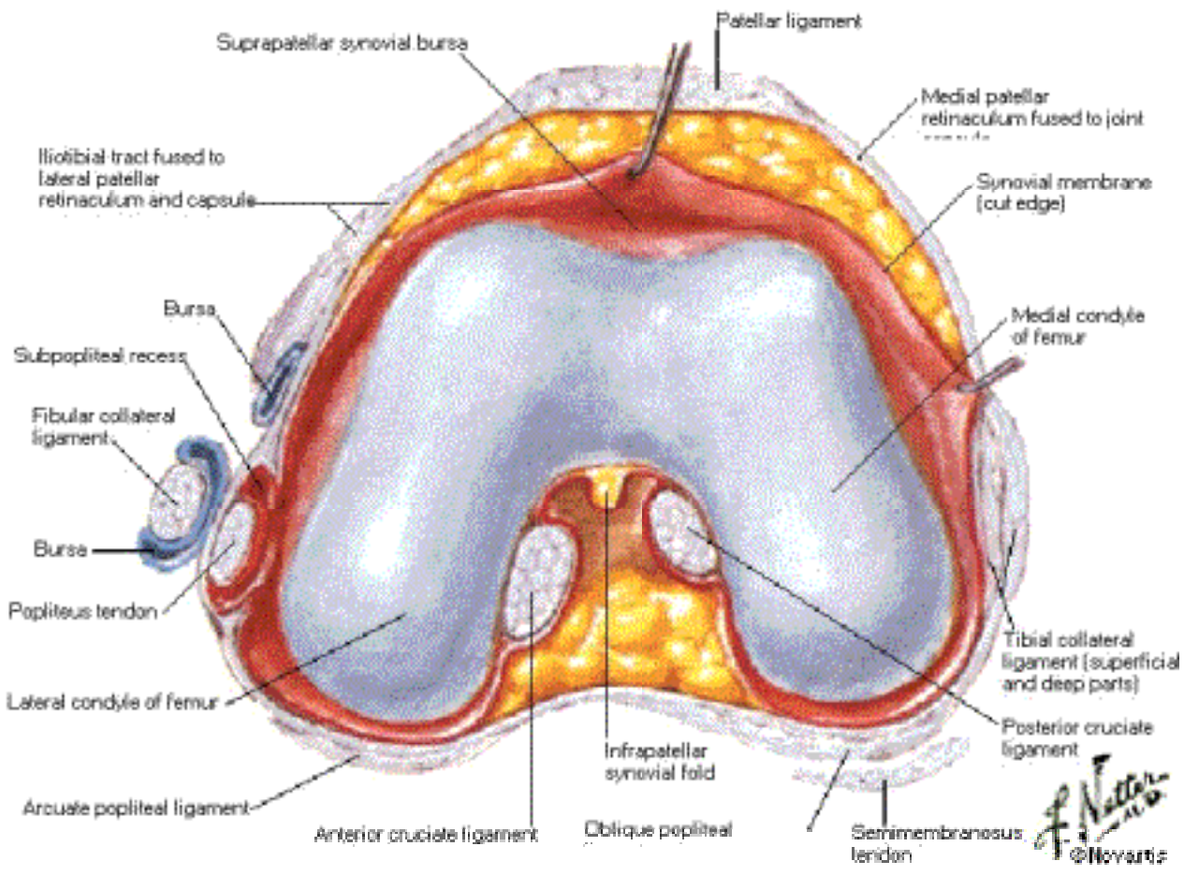
Right Knee Slightly in Flexion [Joint Opened]



Anterior View

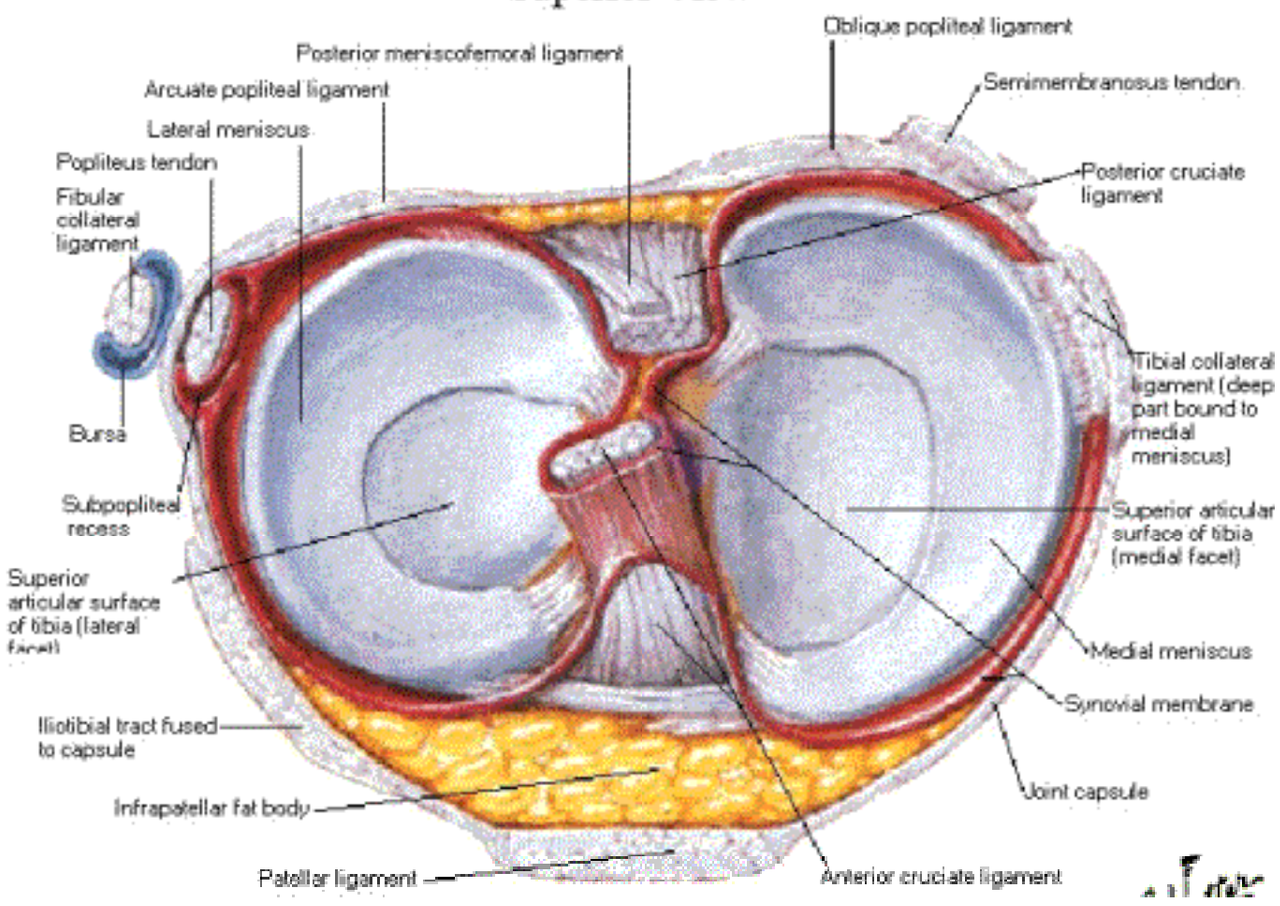
Knee - Interior

Inferior View



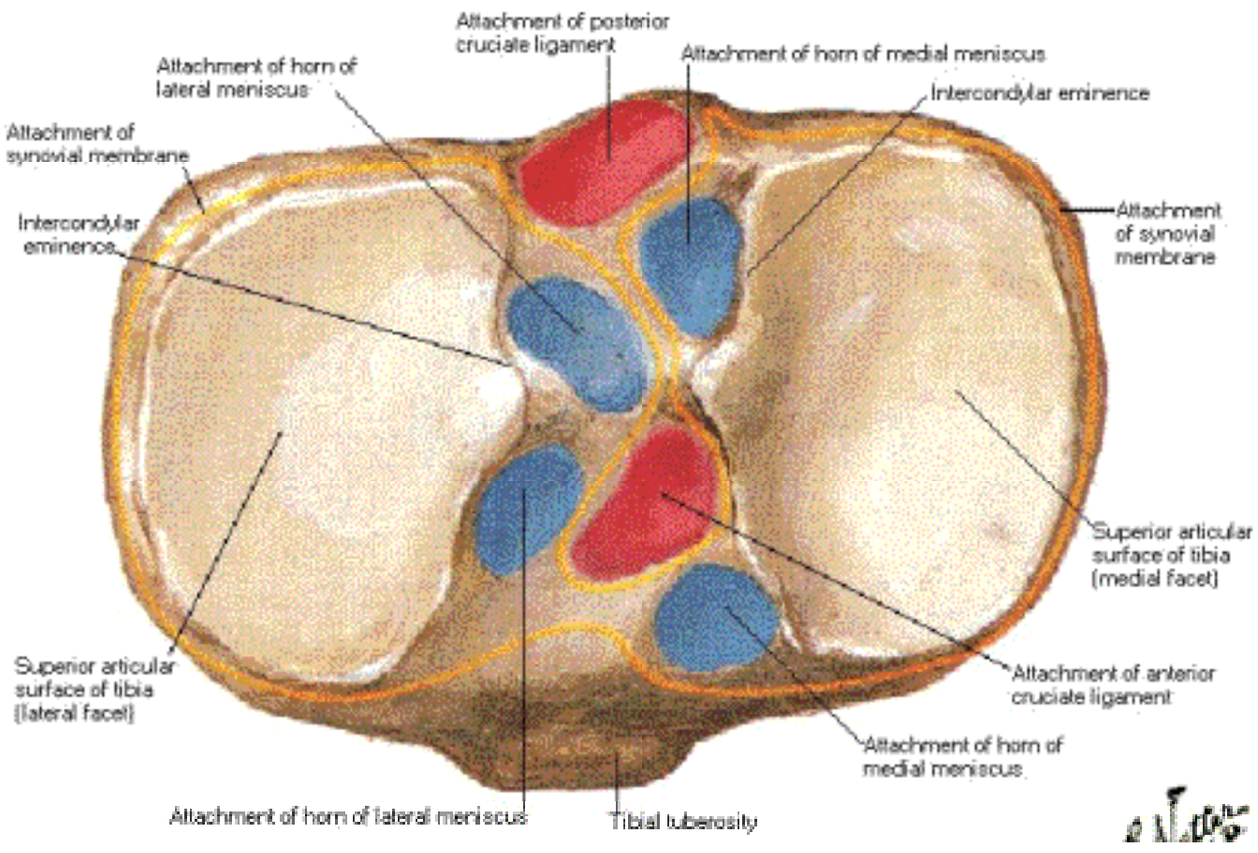
Knee - Interior

Superior View



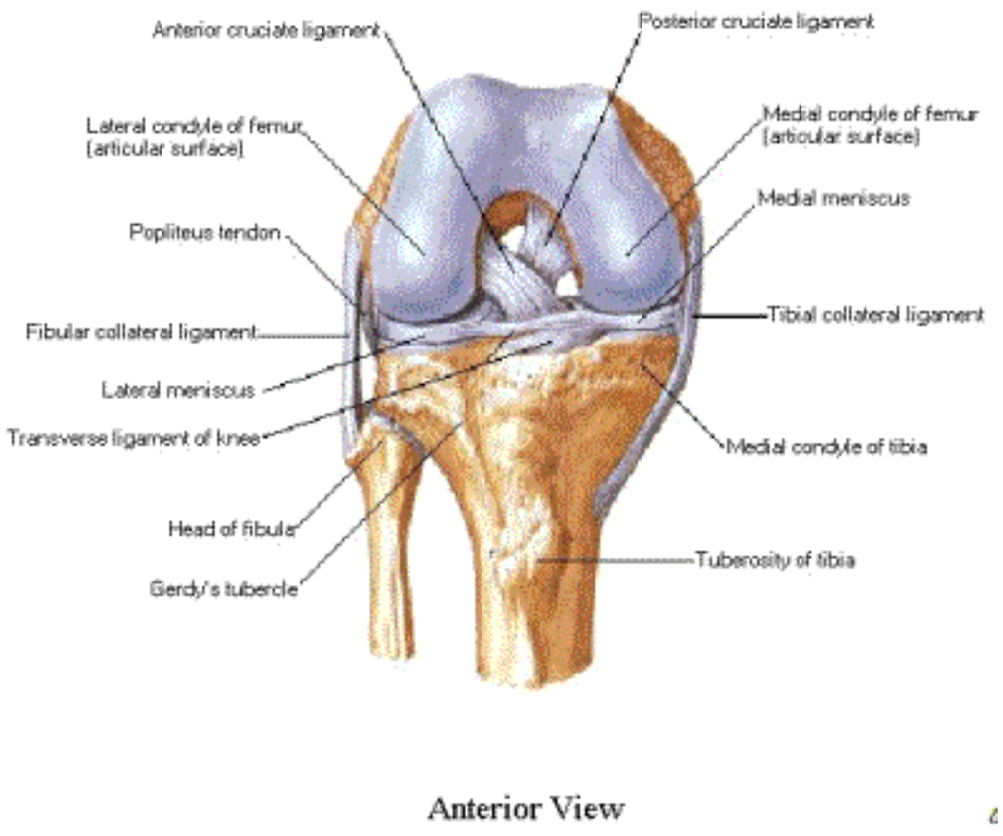
Knee - Interior

Superior View, Ligaments and Cartilage Removed



Knee - Cruciate and Collateral Ligaments

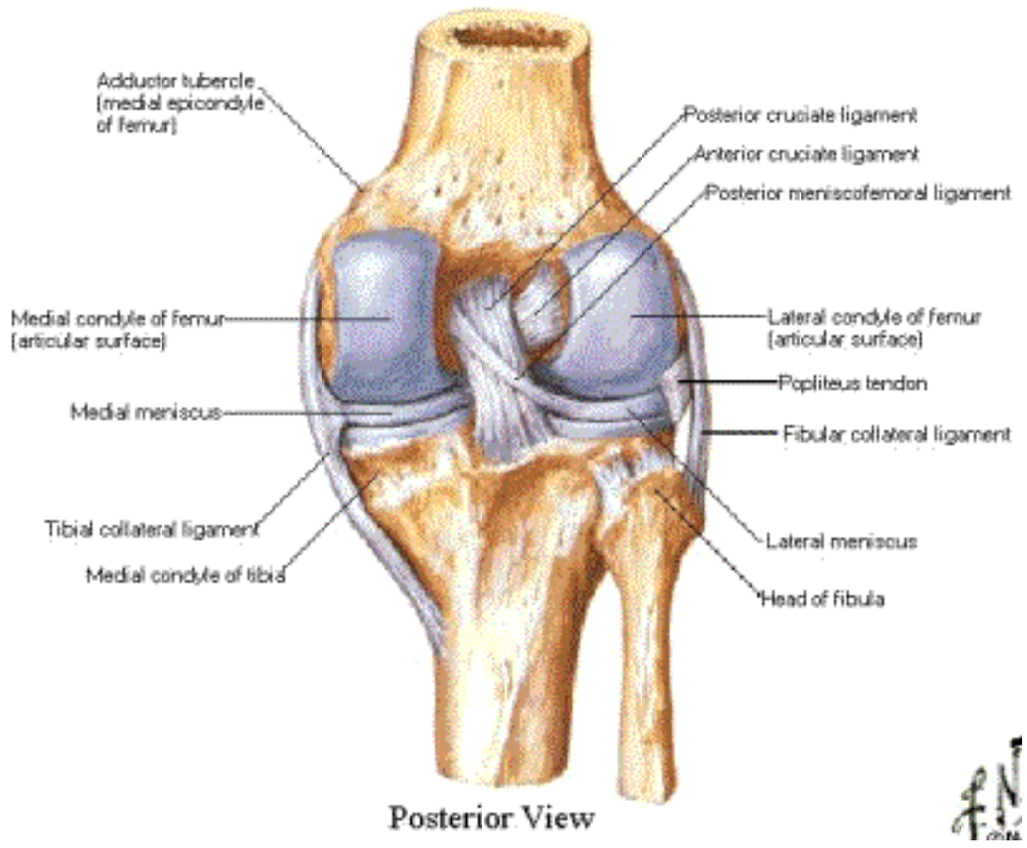
Right Knee in Flexion



Anterior View

Knee - Cruciate and Collateral Ligaments

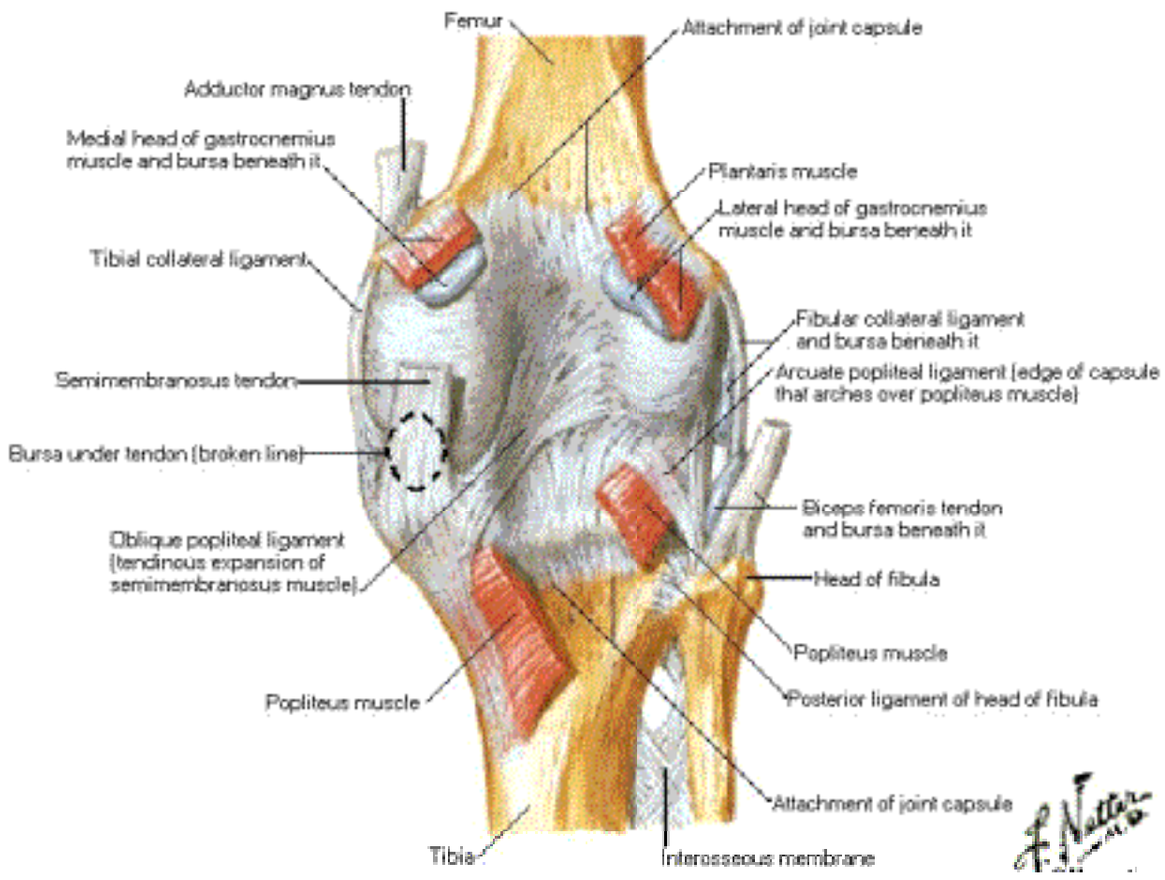
Right Knee in Extension



Posterior View

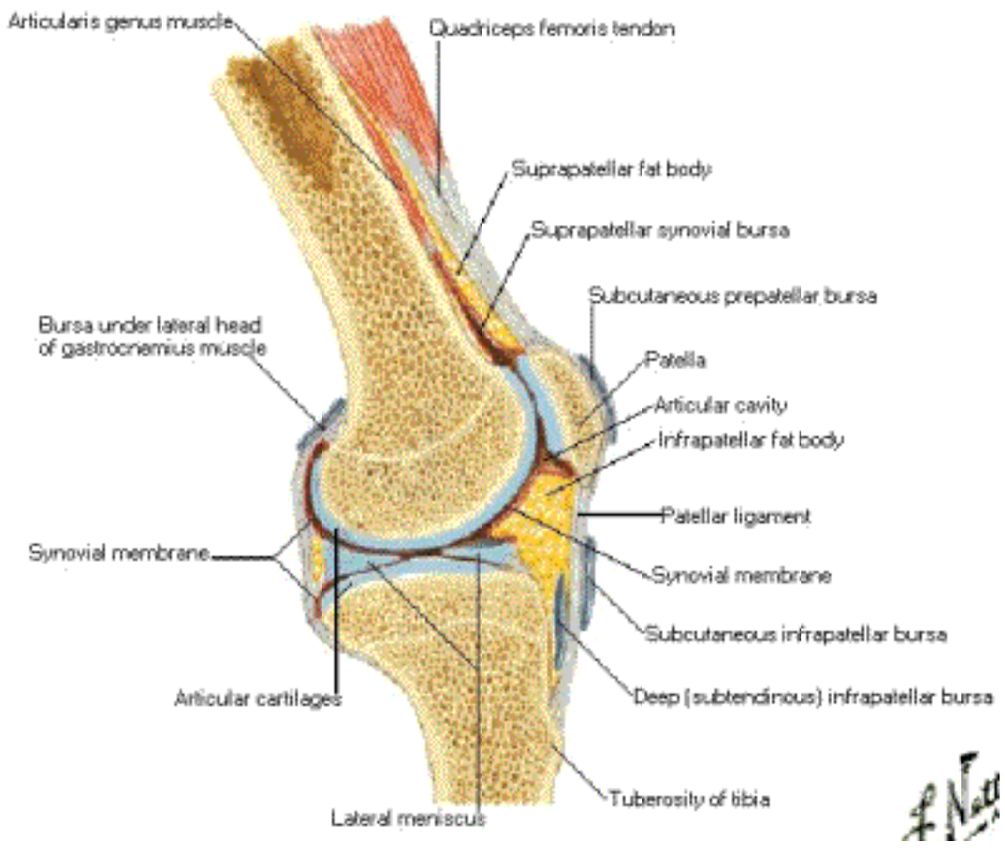
Knee

Posterior View



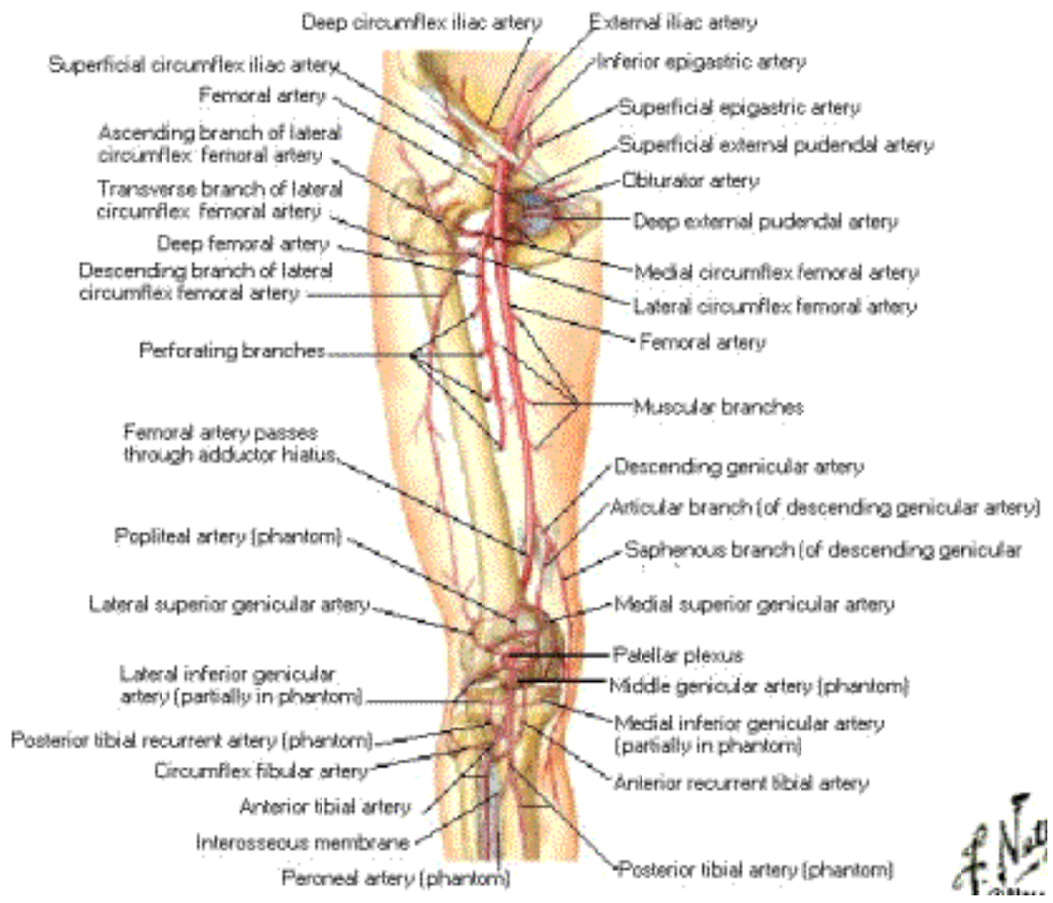
Knee

Parasagittal Section - Lateral to Midline

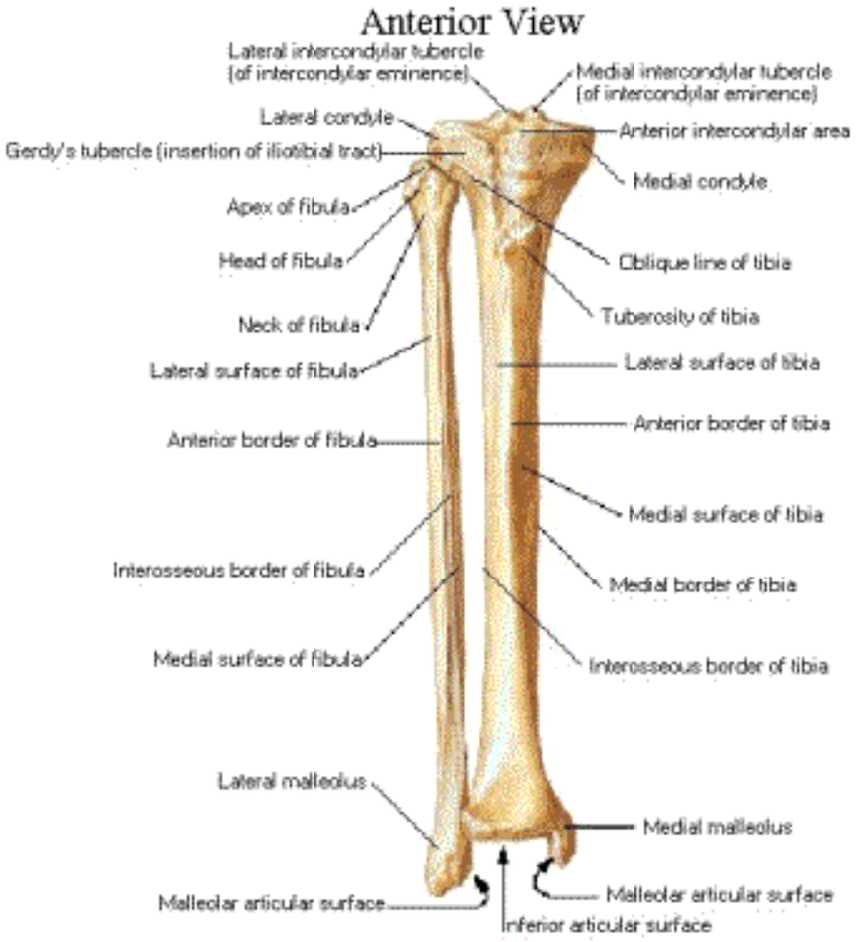


Arteries of Thigh and Knee

Schema

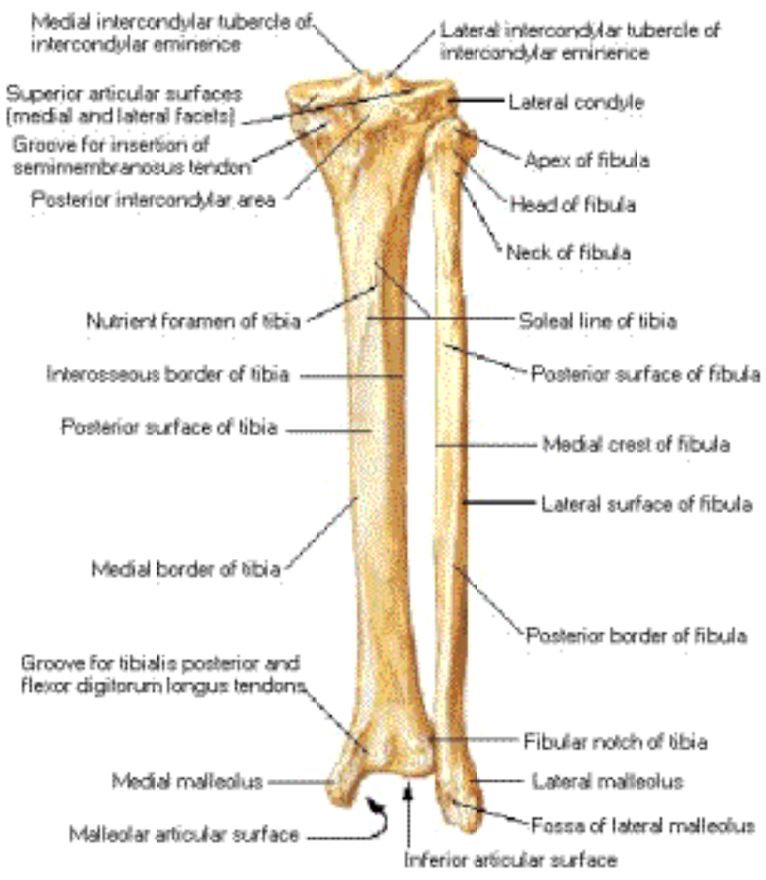


Tibia and Fibula of Right Leg



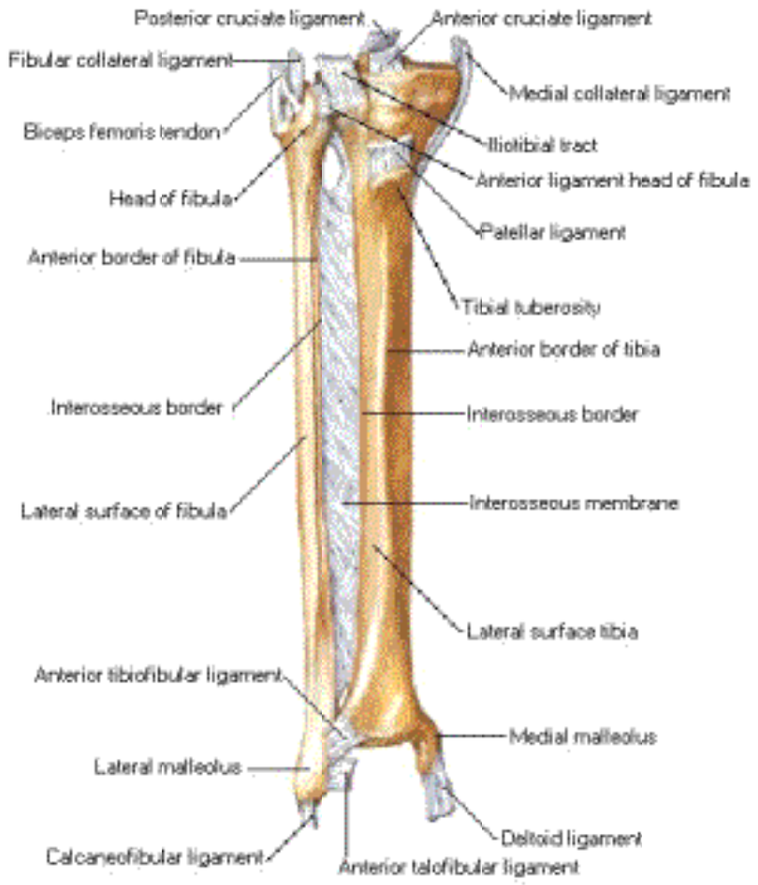
Tibia and Fibula of Right Leg

Posterior View



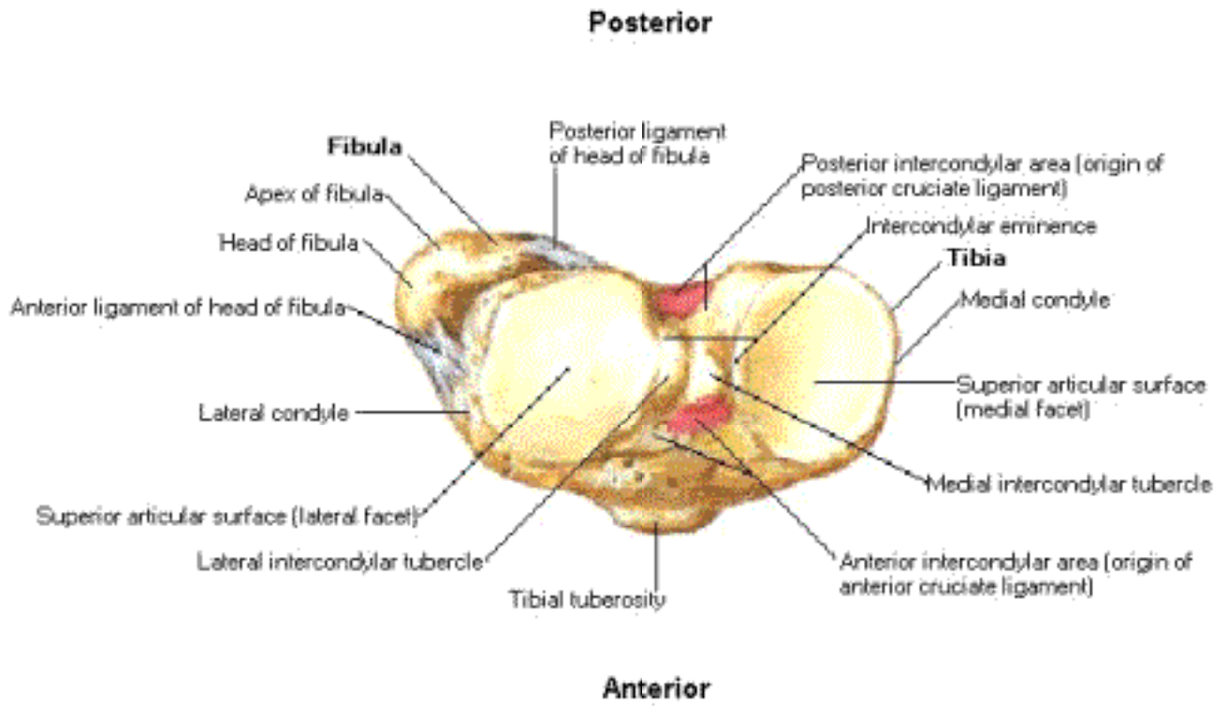
Tibia and Fibula of Right Leg

Anterior View - Ligament Attachments



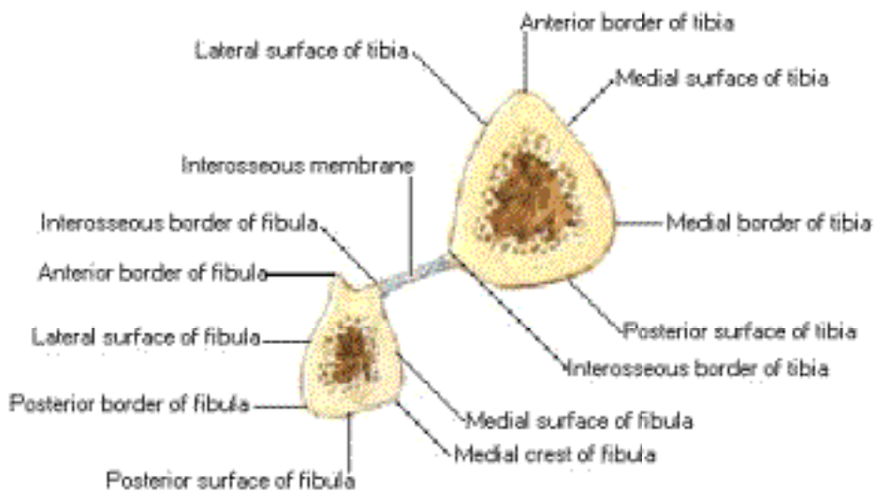
Tibia and Fibula of Right Leg

Superior View



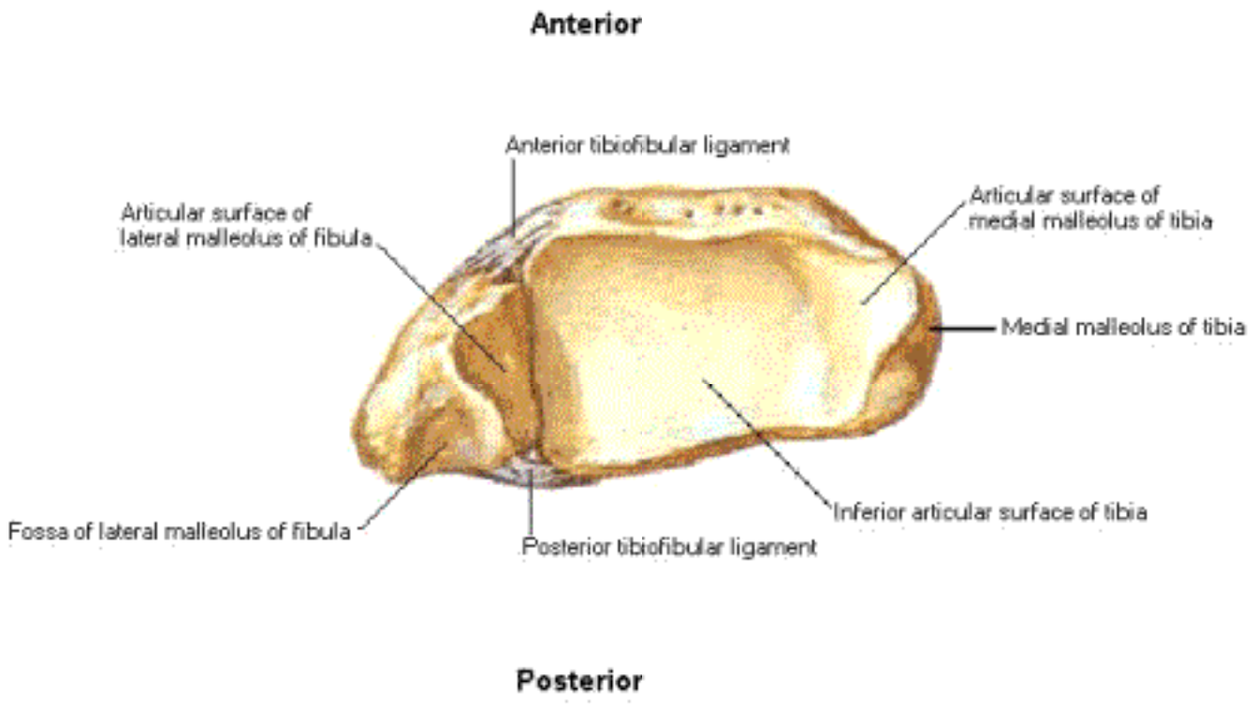
Tibia and Fibula of Right Leg

Cross Section



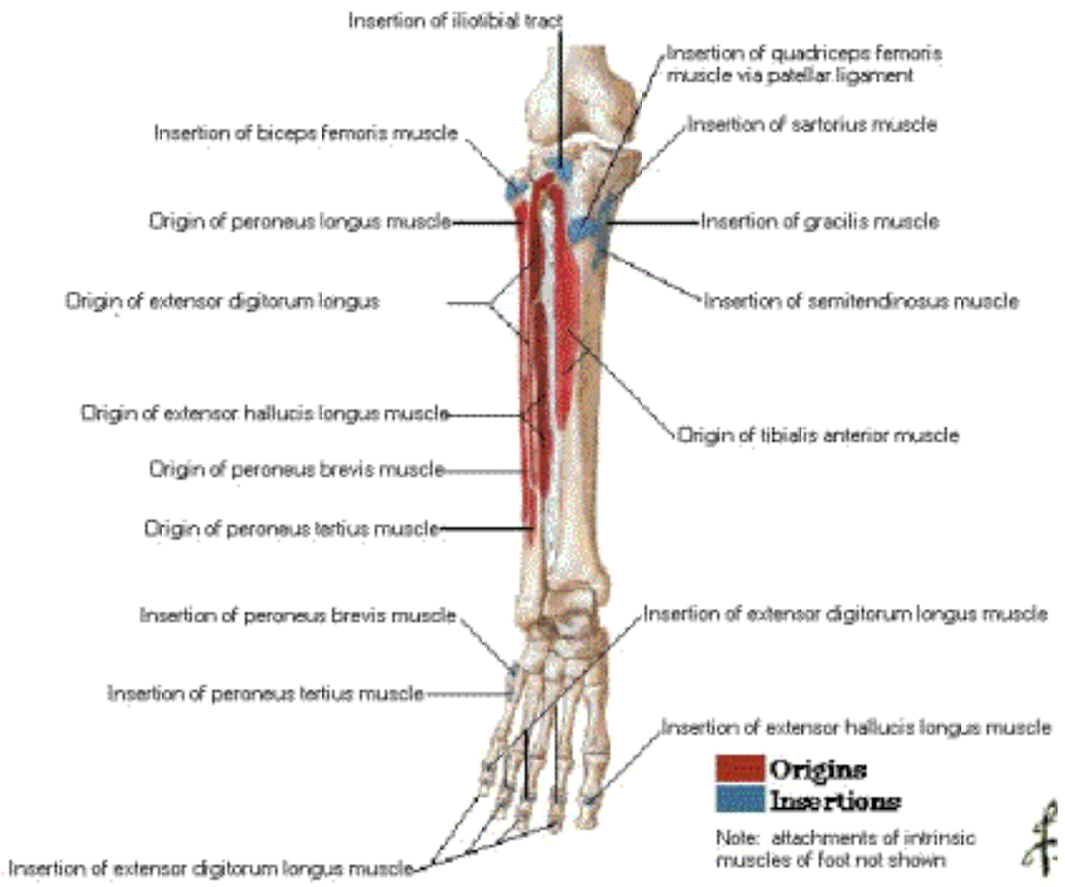
Tibia and Fibula of Right Leg

Inferior View



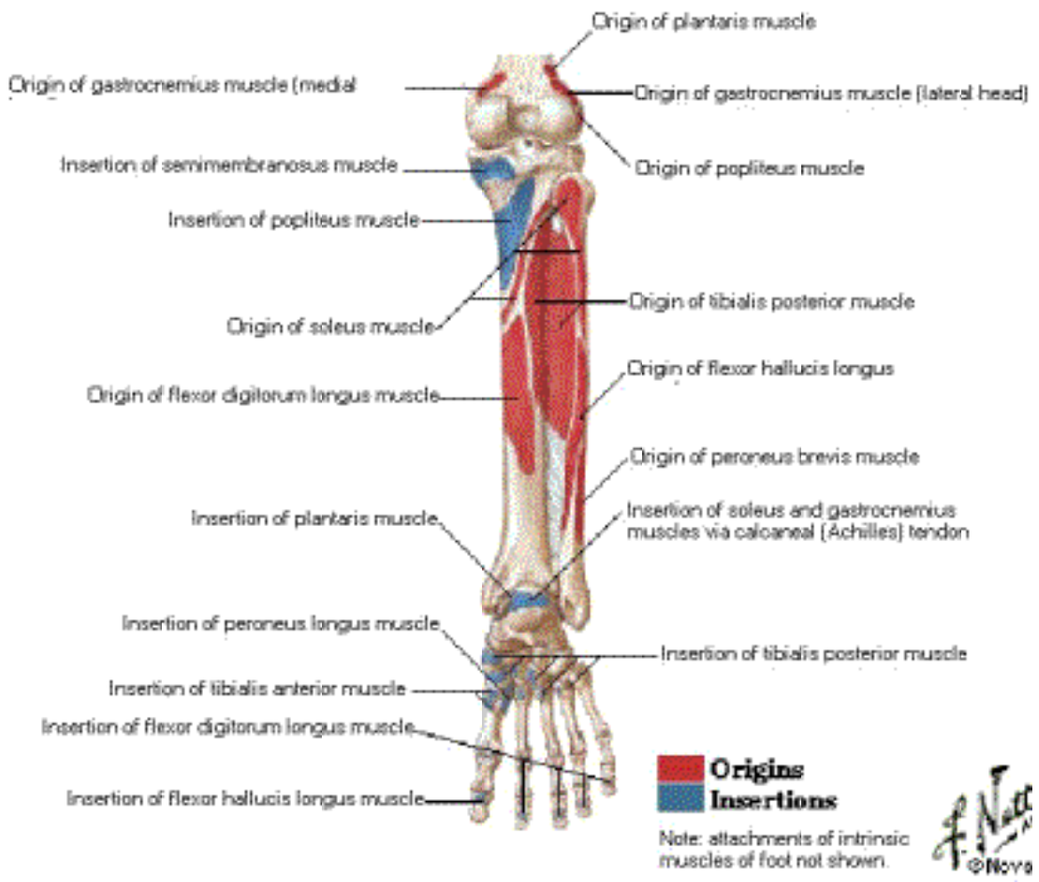
Bony Attachments of Muscles of Leg

Anterior View



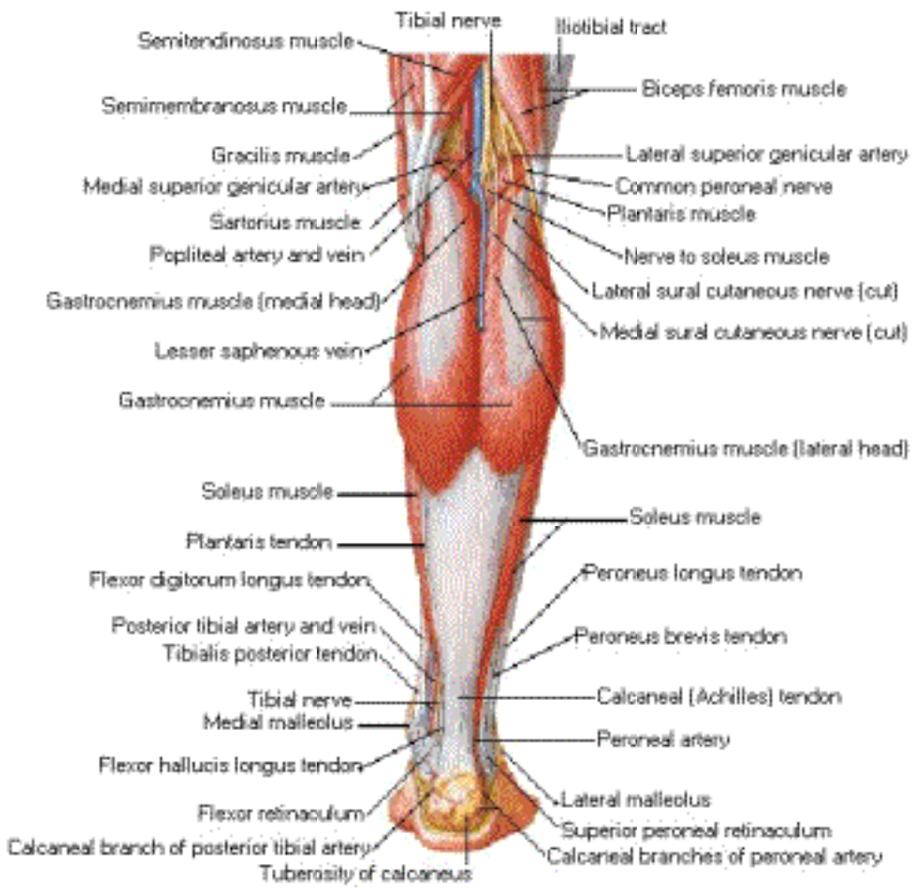
Bony Attachments of Muscles of Leg

Posterior View



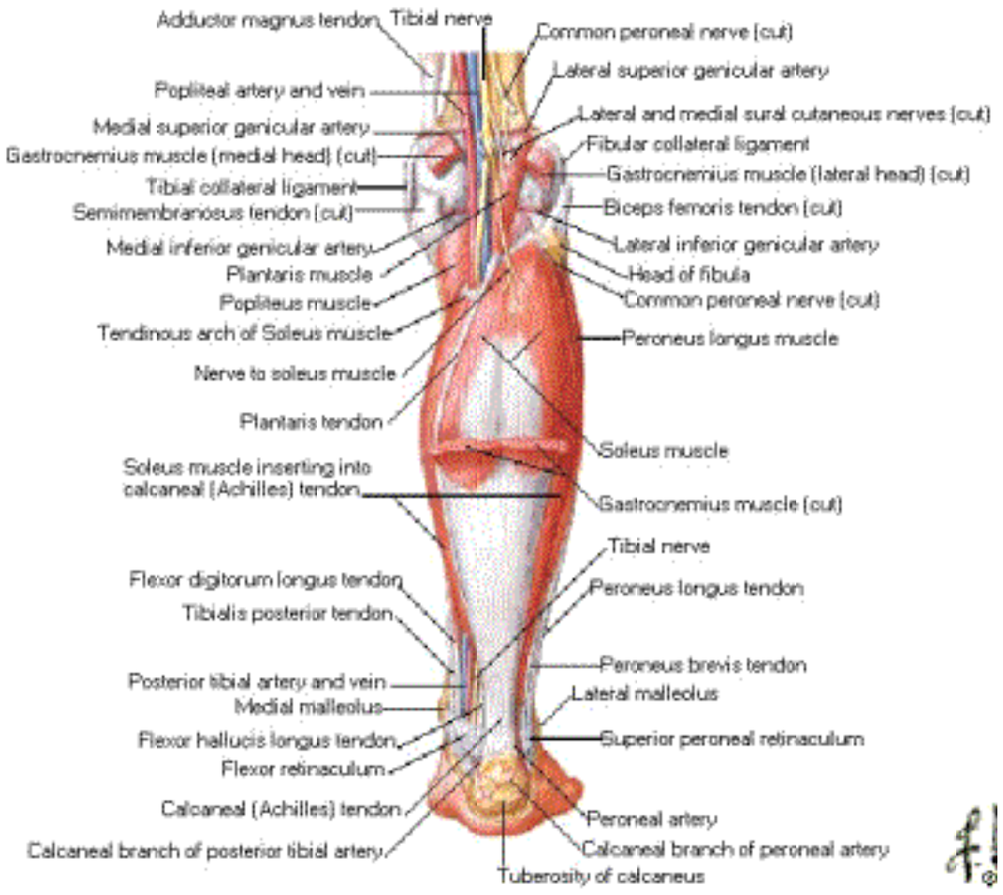
Muscles of Leg [Superficial Dissection]

Posterior View



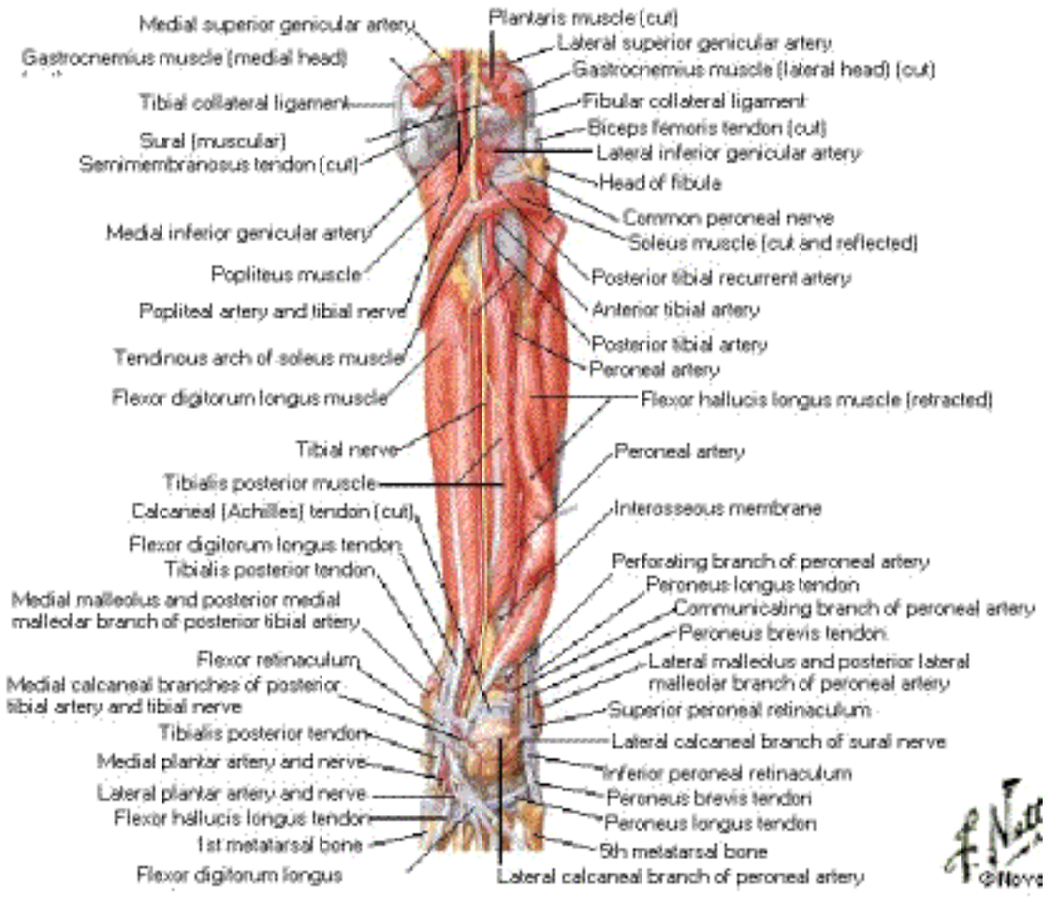
Muscles of Leg [Intermediate Dissection]

Posterior View



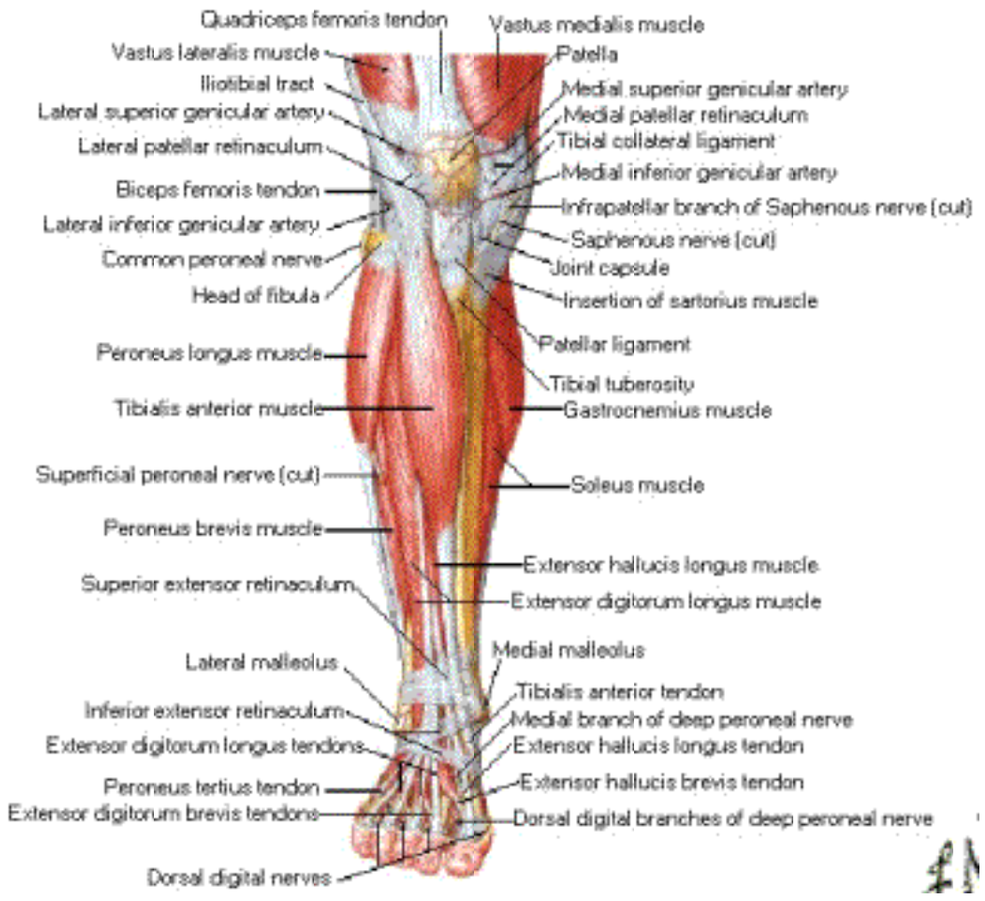
Muscles of Leg [Deep Dissection]

Posterior View



Muscles of Leg [Superficial Dissection]

Anterior View



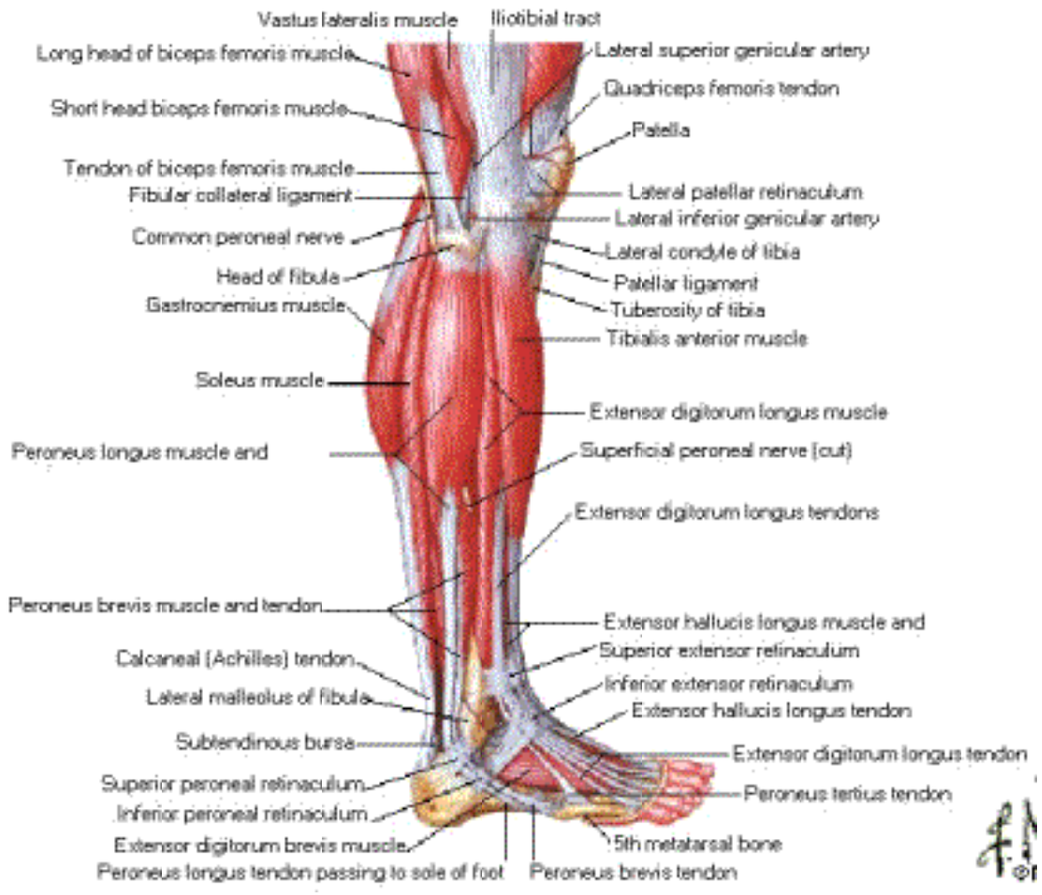
Muscles of Leg [Deep Dissection]

Anterior View



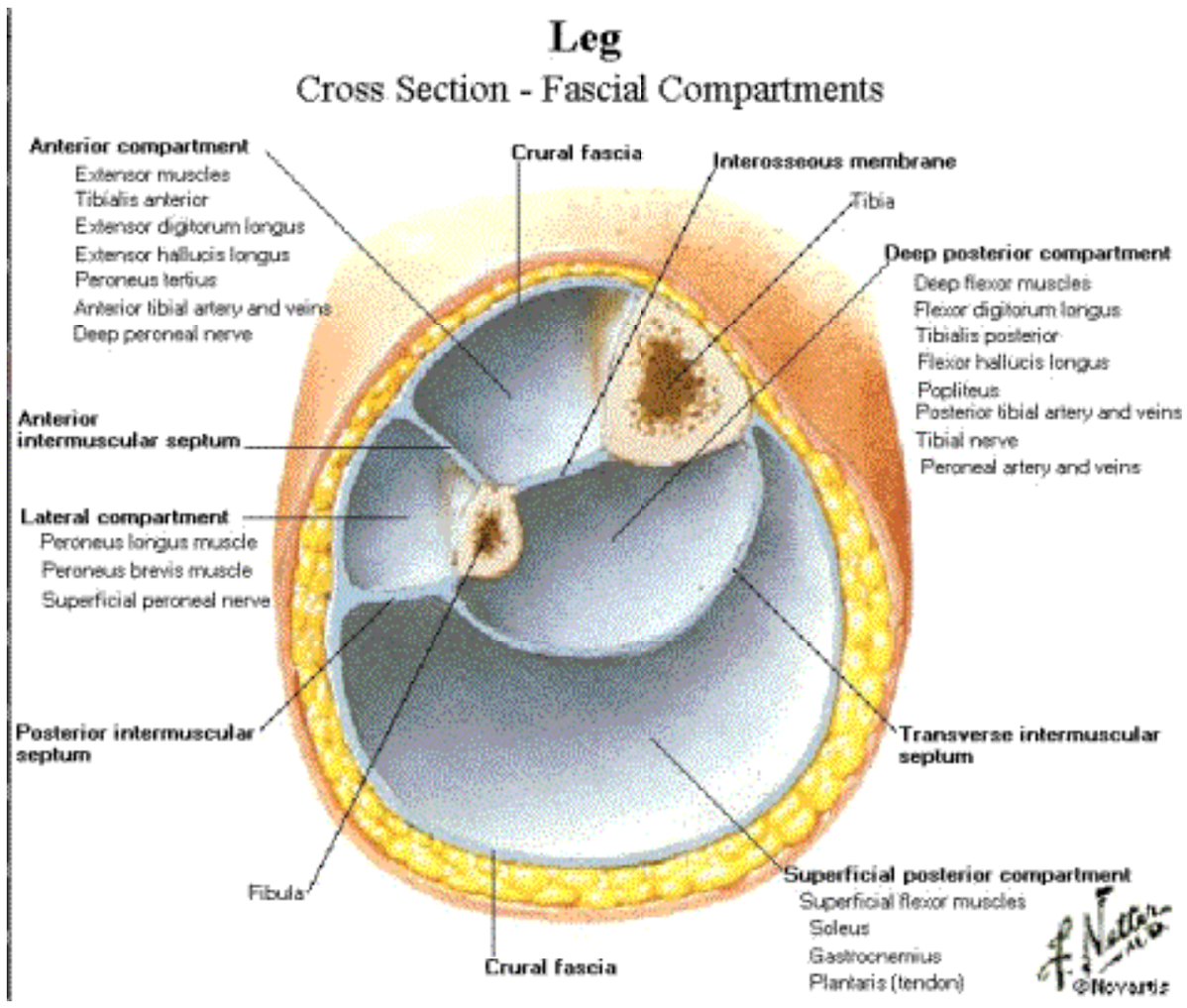
Muscles of Leg

Lateral View



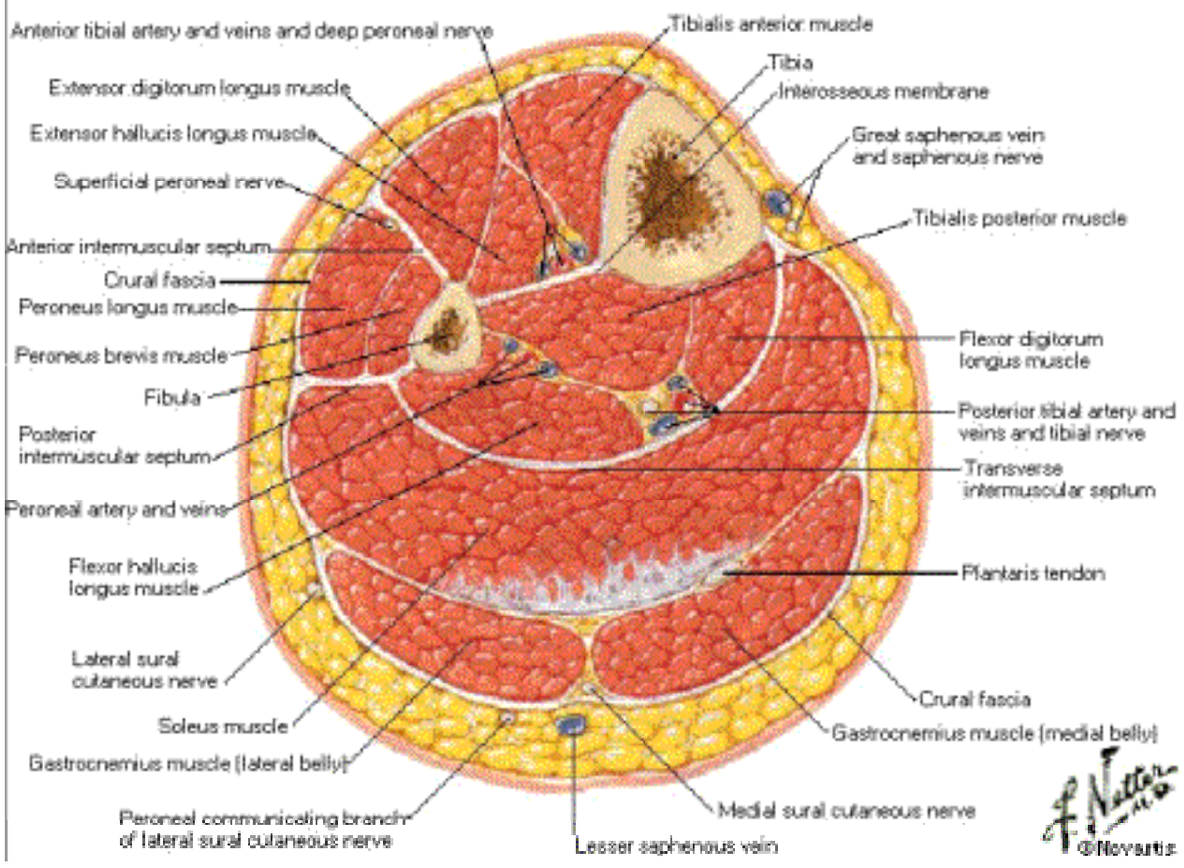
Leg

Cross Section - Fascial Compartments



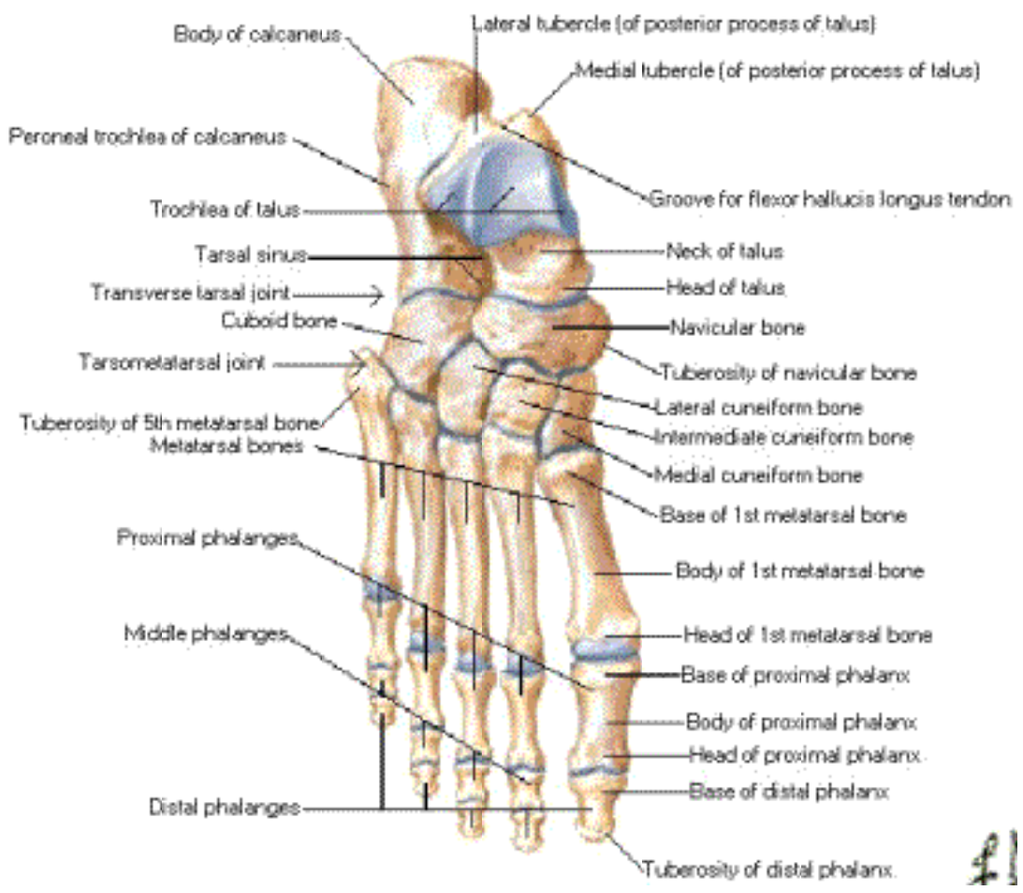
Leg

Cross Section just above Middle of Left Leg



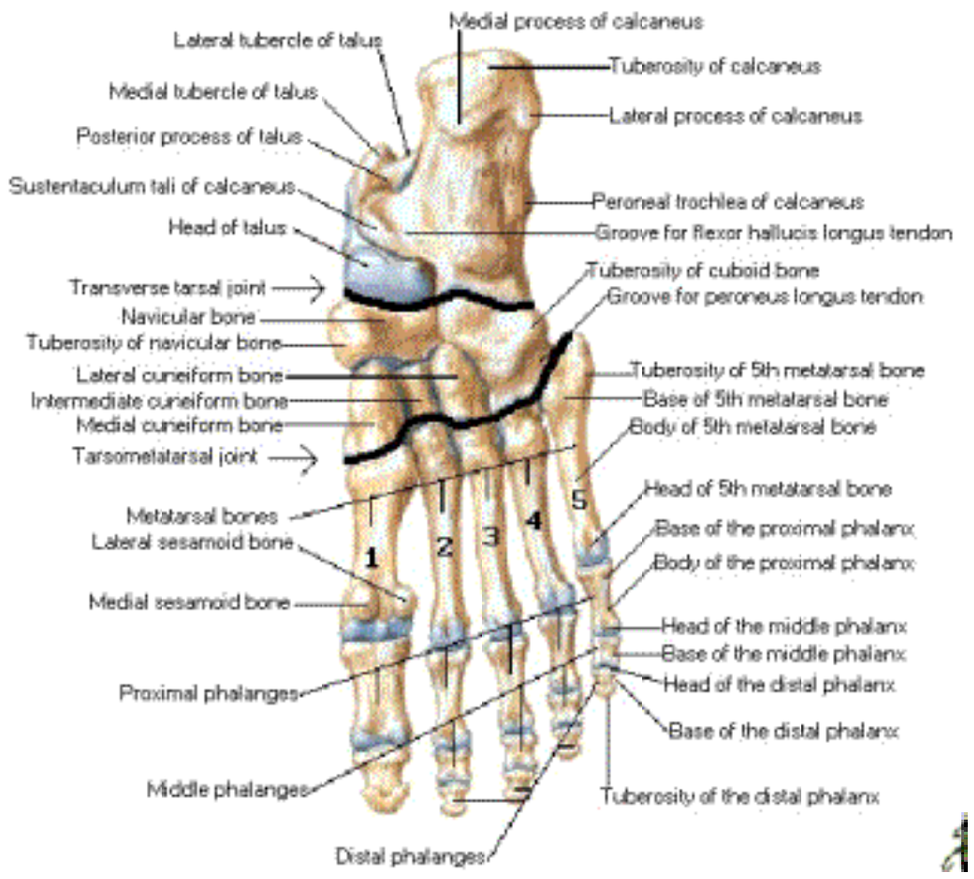
Bones of Foot

Dorsal View



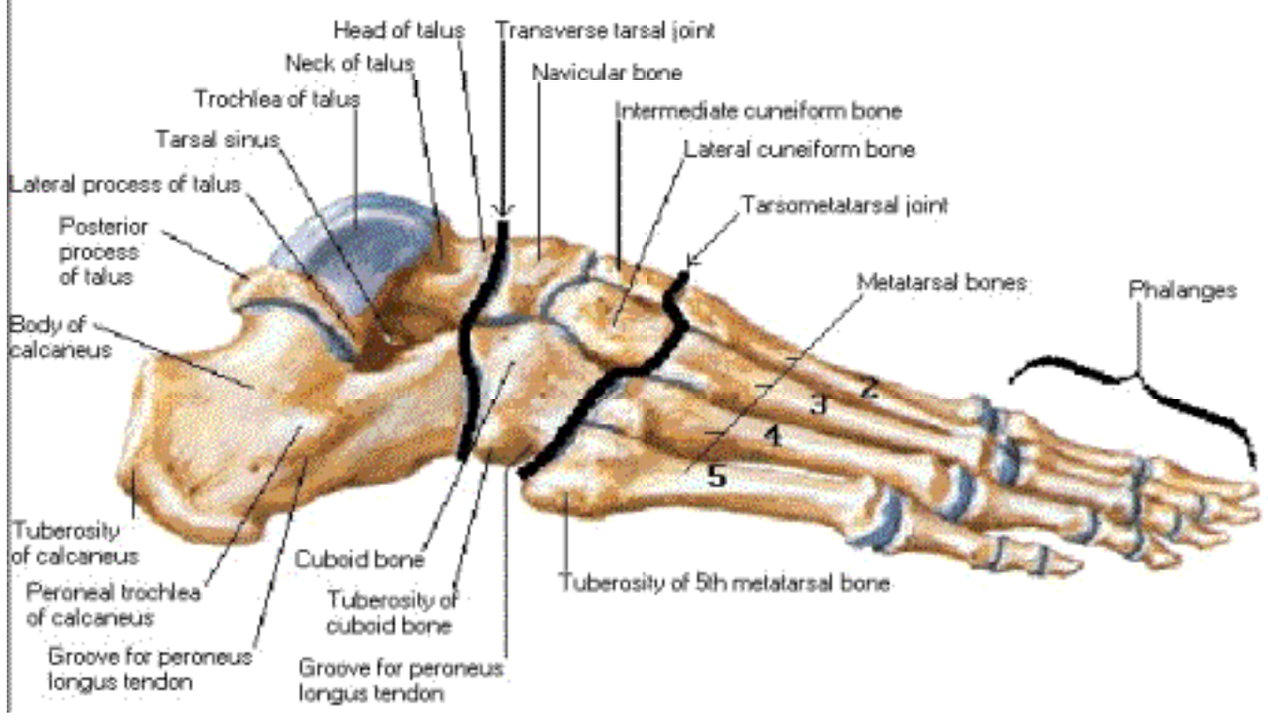
Bones of Foot

Plantar View



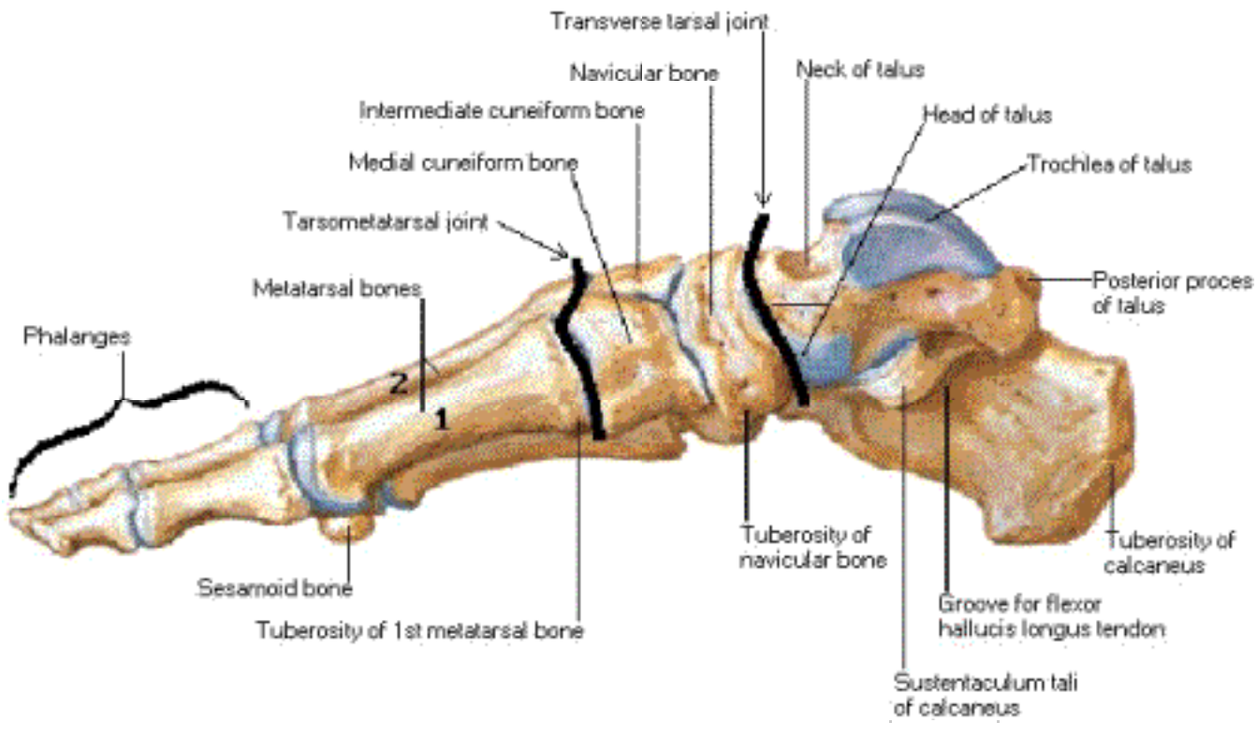
Bones of Foot

Lateral View



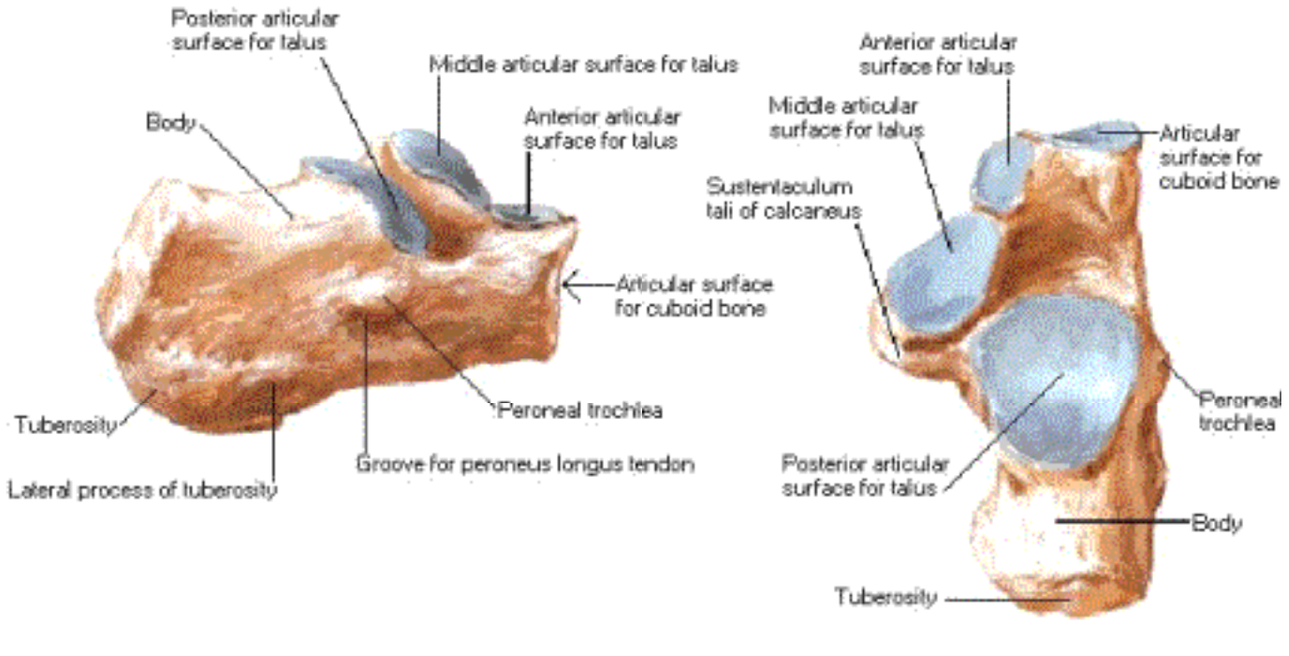
Bones of Foot

Medial View



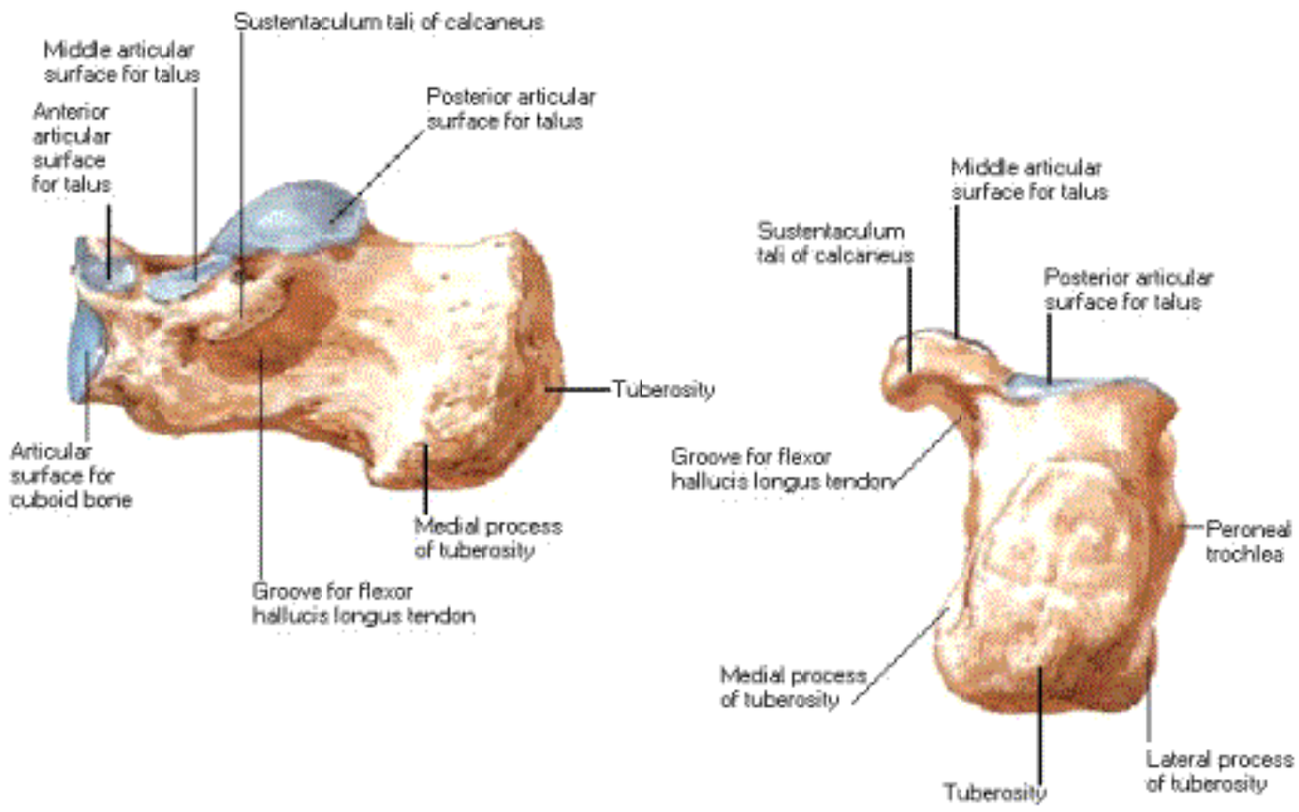
Calcaneus of Right Foot

Lateral and Superior Views



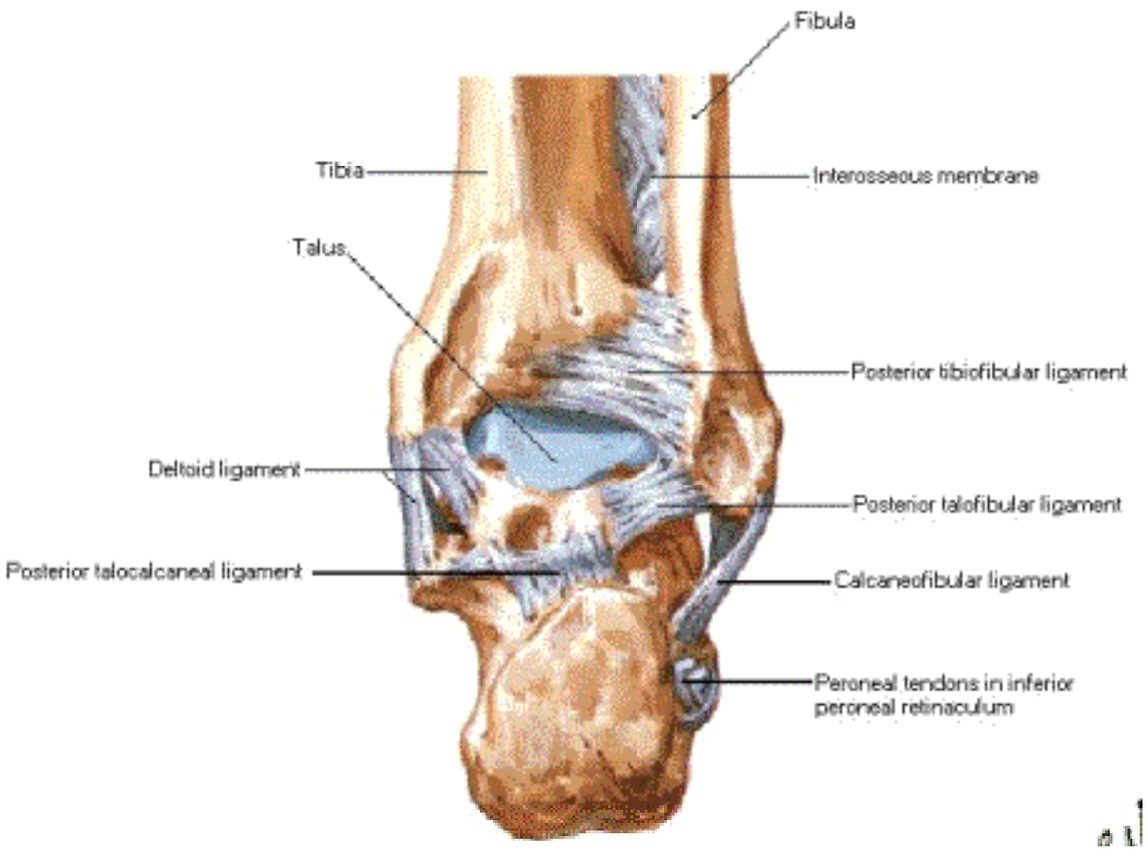
Calcaneus of Right Foot

Medial and Posterior Views



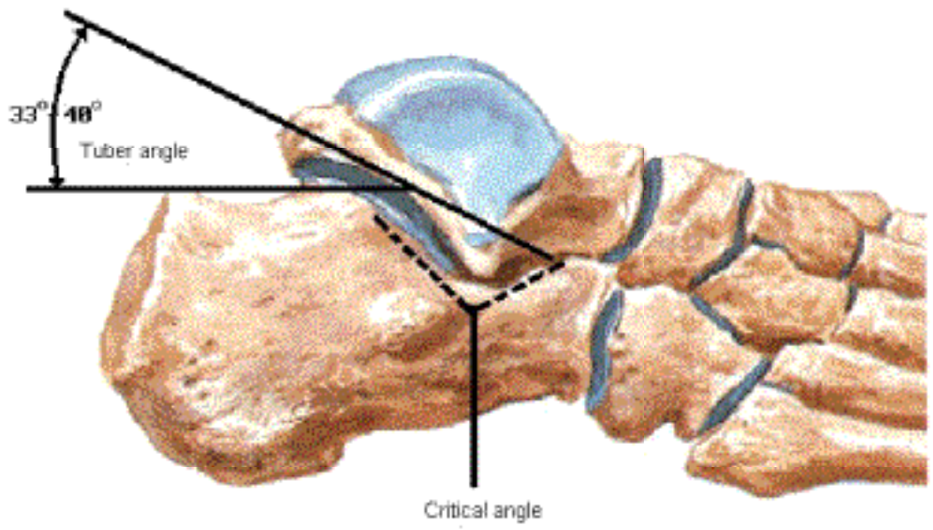
Calcaneus of Right Foot

Posterior View with Ligaments



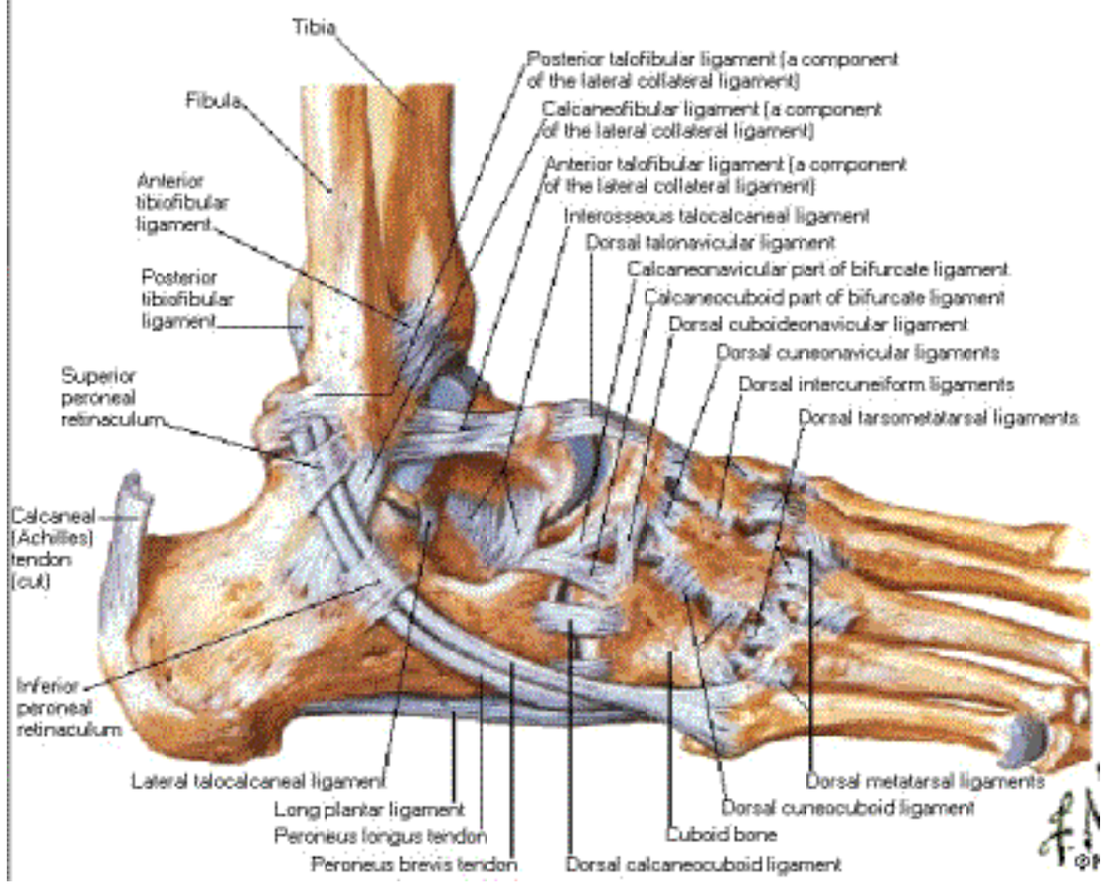
Calcaneus of Right Foot

Functional Relations of Calcaneus



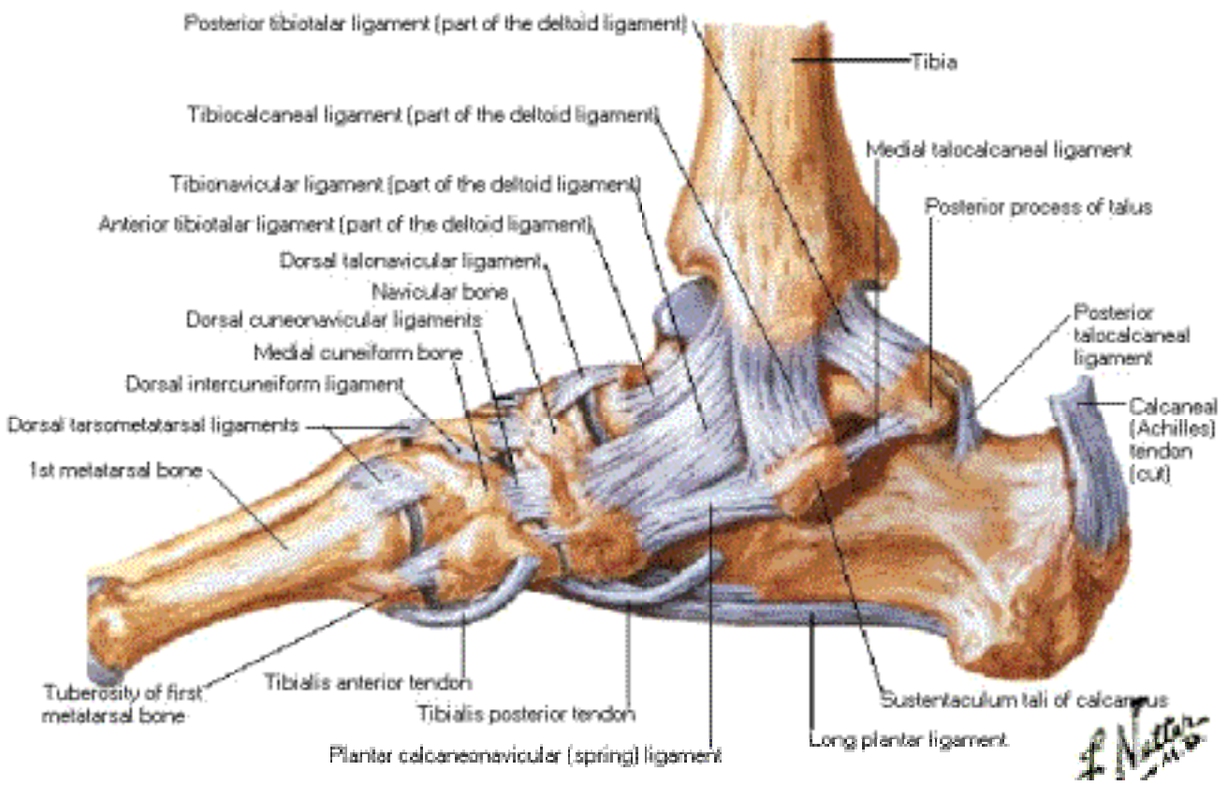
Ligaments and Tendons of Right Ankle

Lateral View



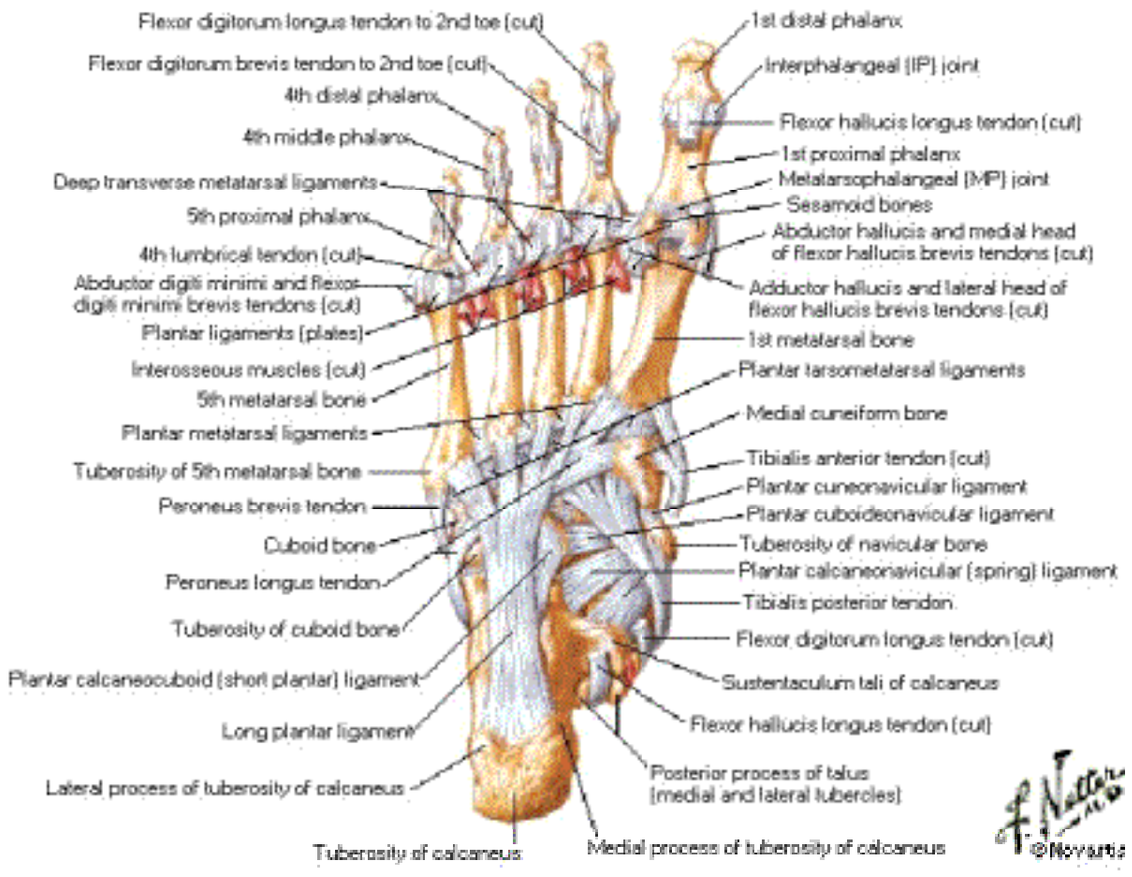
Ligaments and Tendons of Right Ankle

Medial View



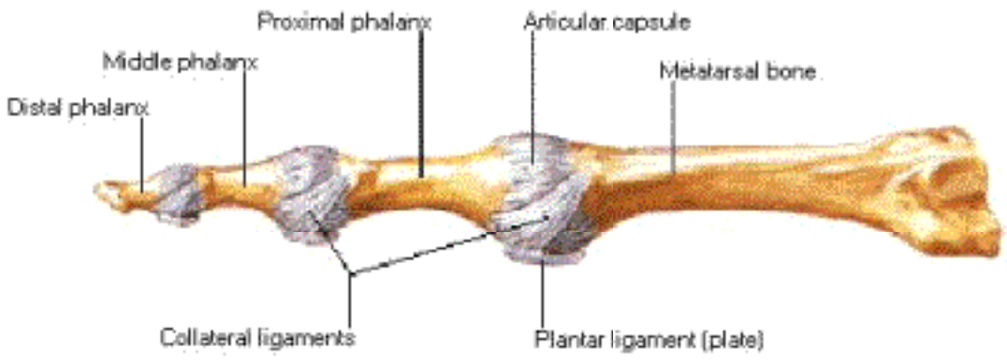
Ligaments and Tendons of Foot

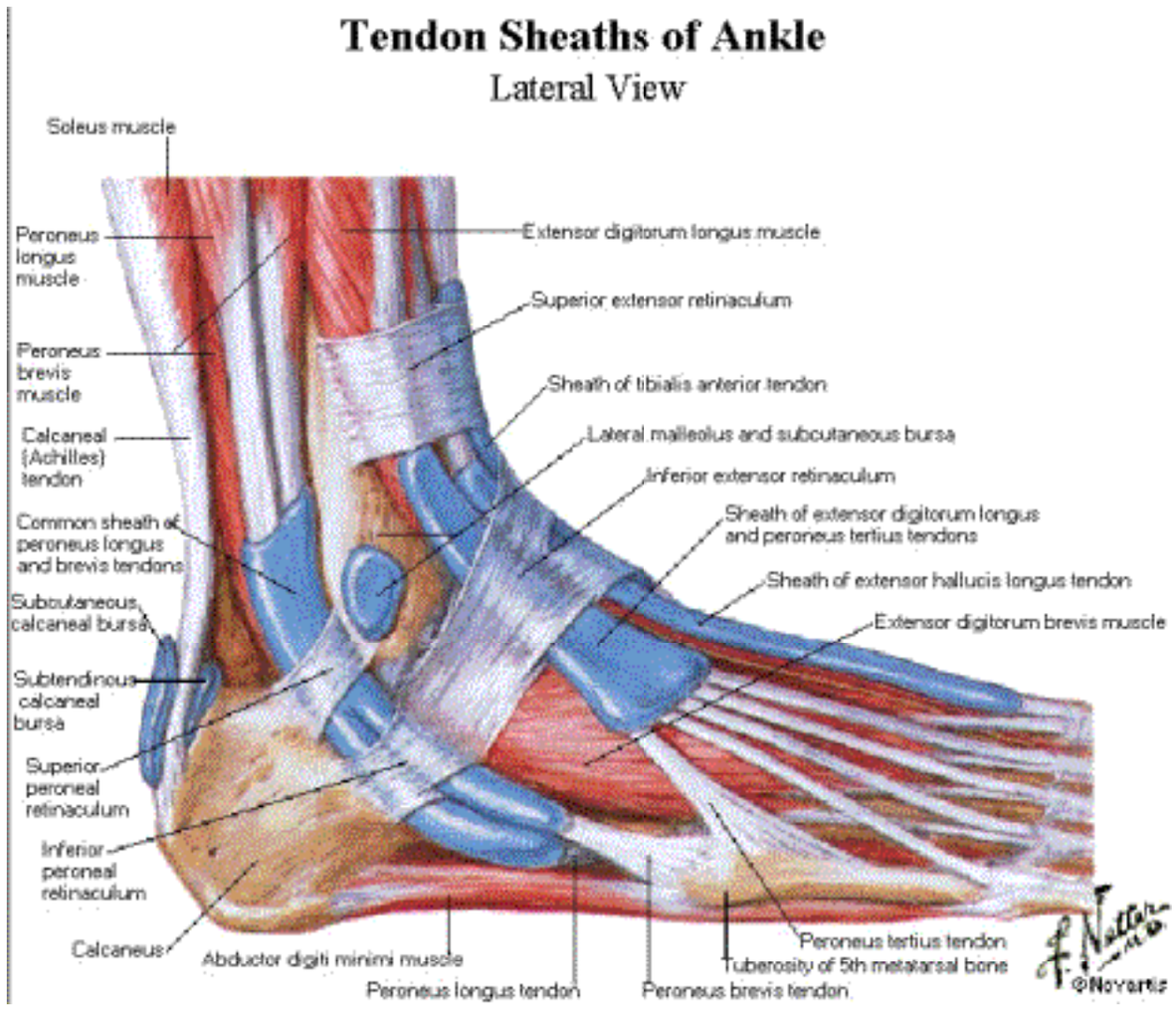
Plantar View



Metatarsophalangeal and Interphalangeal Joints

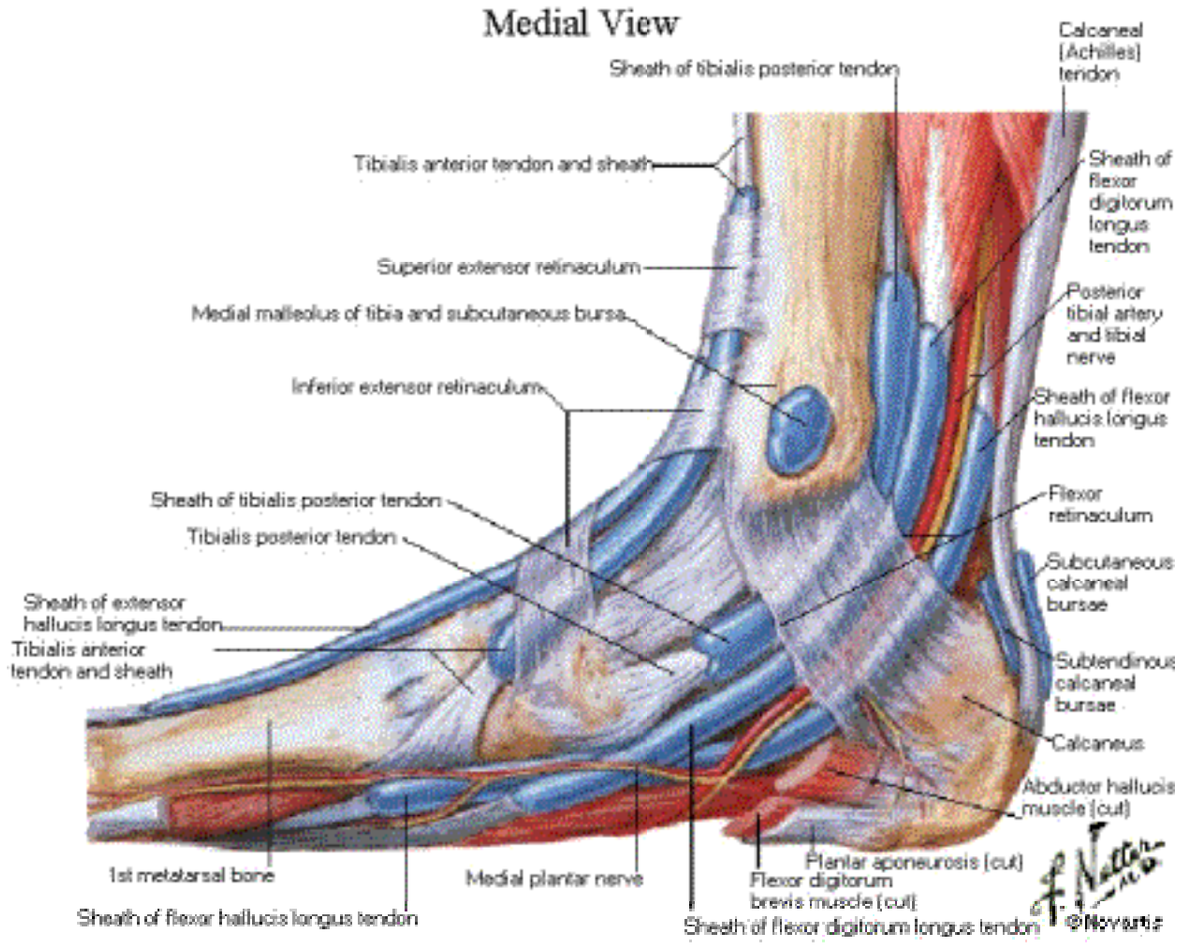
Lateral View




Tendon Sheaths of Ankle
Lateral View
Soleus muscle
Peroneus longus muscle
Peroneus brevis muscle
Calcaneal (Achilles) tendon
Common sheath of peroneus longus and brevis tendons
Subcutaneous calcaneal bursa
Subtendinous calcaneal bursa
Superior peroneal retinaculum
Inferior peroneal retinaculum
Calcaneus
Abductor digiti minimi muscle
Peroneus longus tendon
Extensor digitorum longus muscle
Superior extensor retinaculum
Sheath of tibialis anterior tendon
Lateral malleolus and subcutaneous bursa
Inferior extensor retinaculum
Sheath of extensor digitorum longus and peroneus tertius tendons
Sheath of extensor hallucis longus tendon
Extensor digitorum brevis muscle
Peroneus tertius tendon
Tuberosity of 5th metatarsal bone
Peroneus brevis tendon
©Novartis

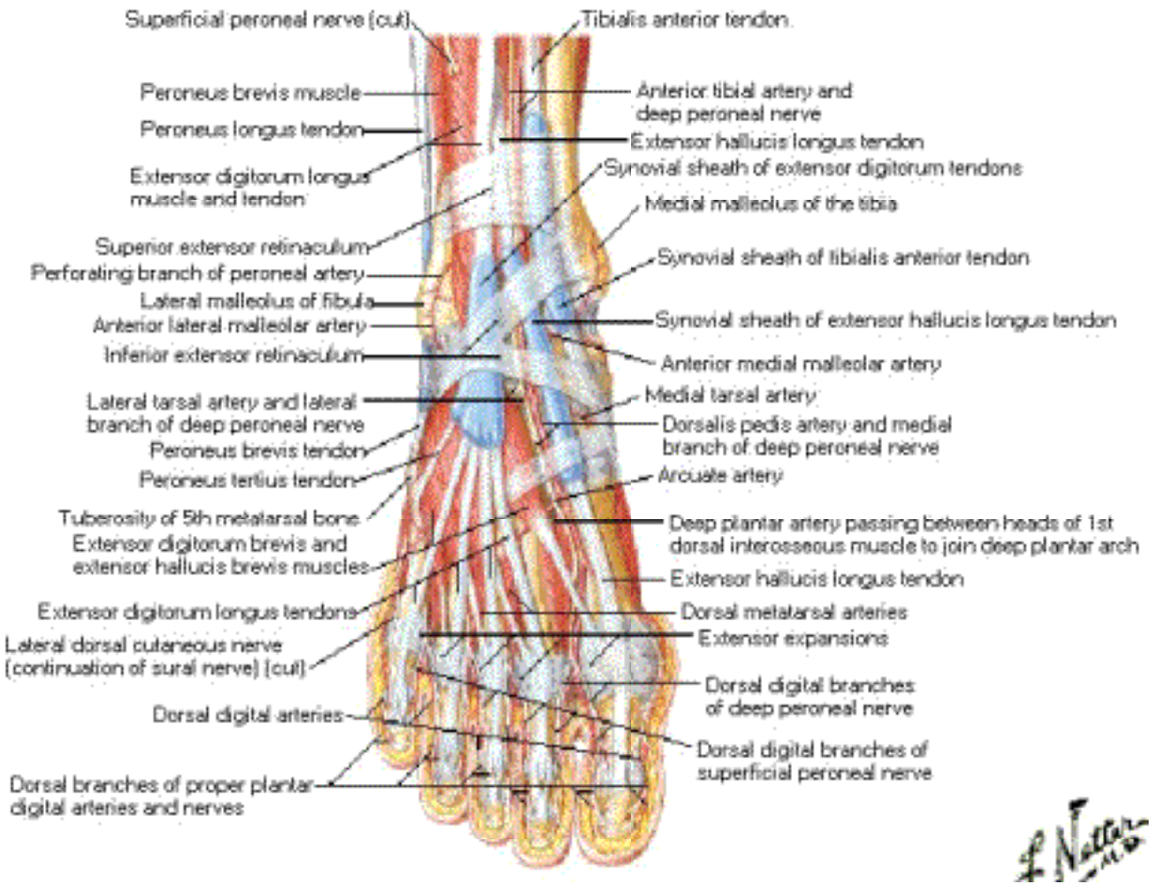
Tendon Sheaths of Ankle

Medial View



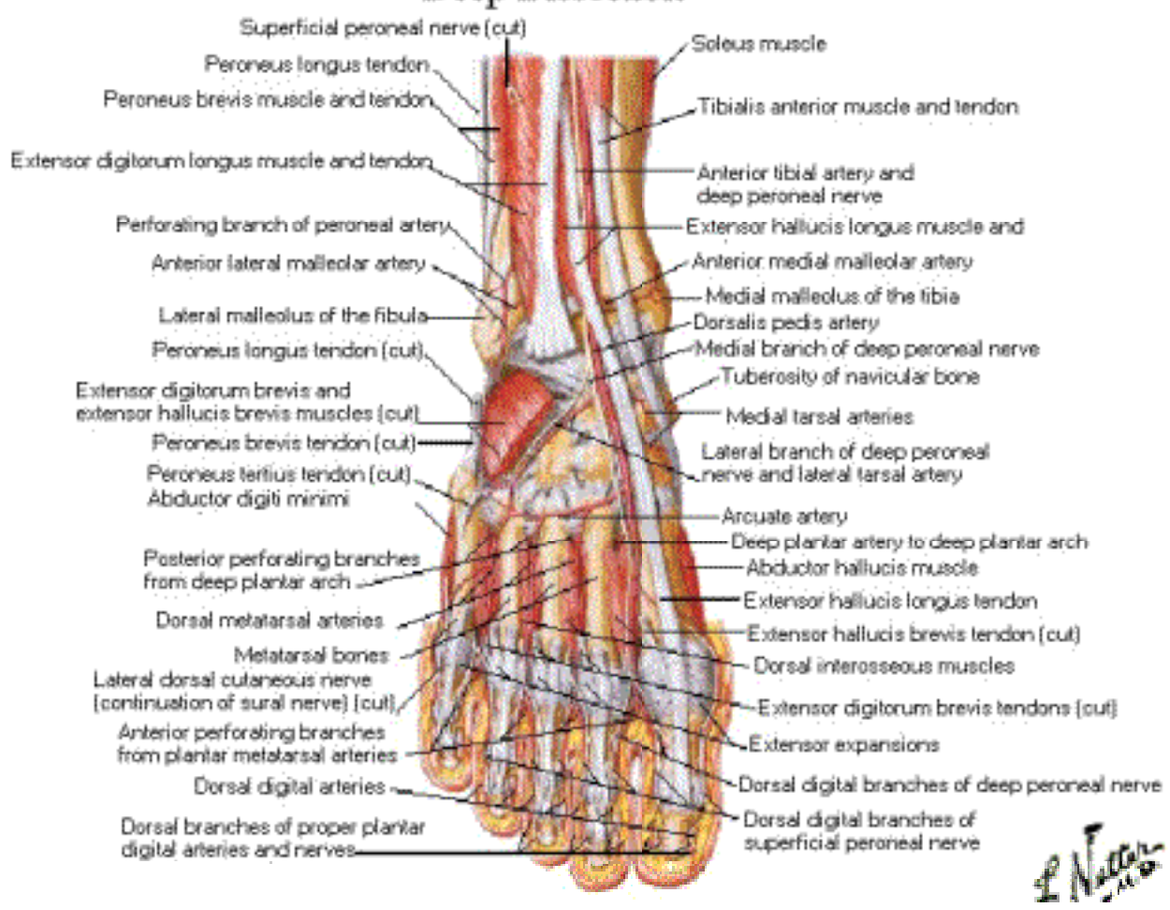
Muscles of Dorsum of Foot

Superficial Dissection



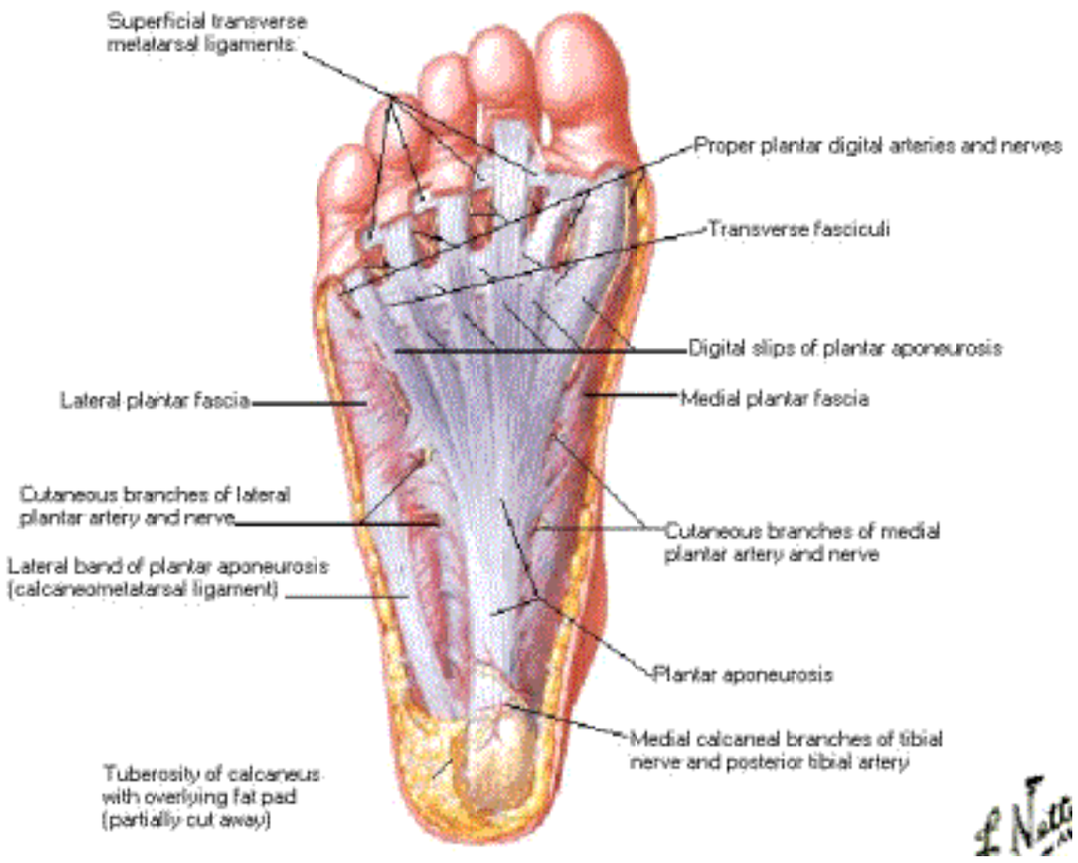
Dorsum of Foot

Deep Dissection



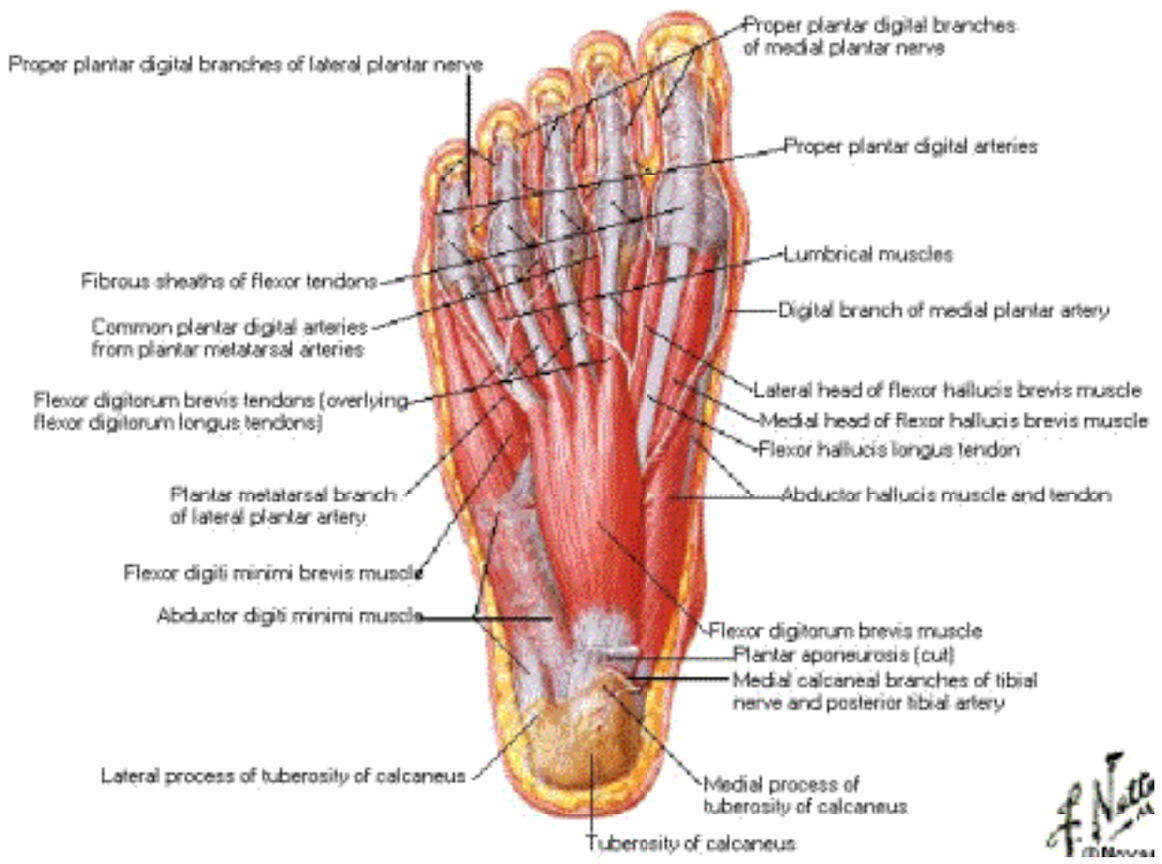
Sole of Foot

Superficial Dissection



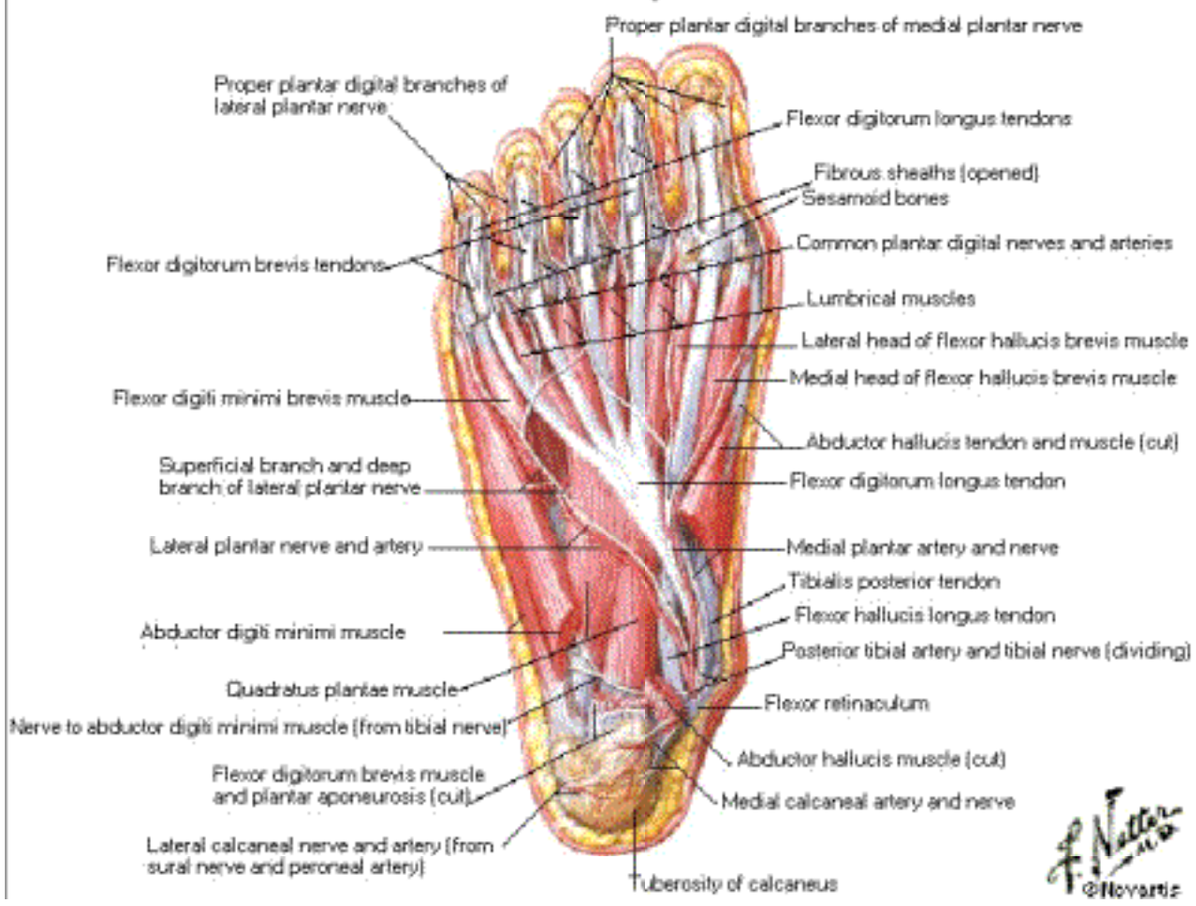
Muscles of Sole of Foot

First Layer



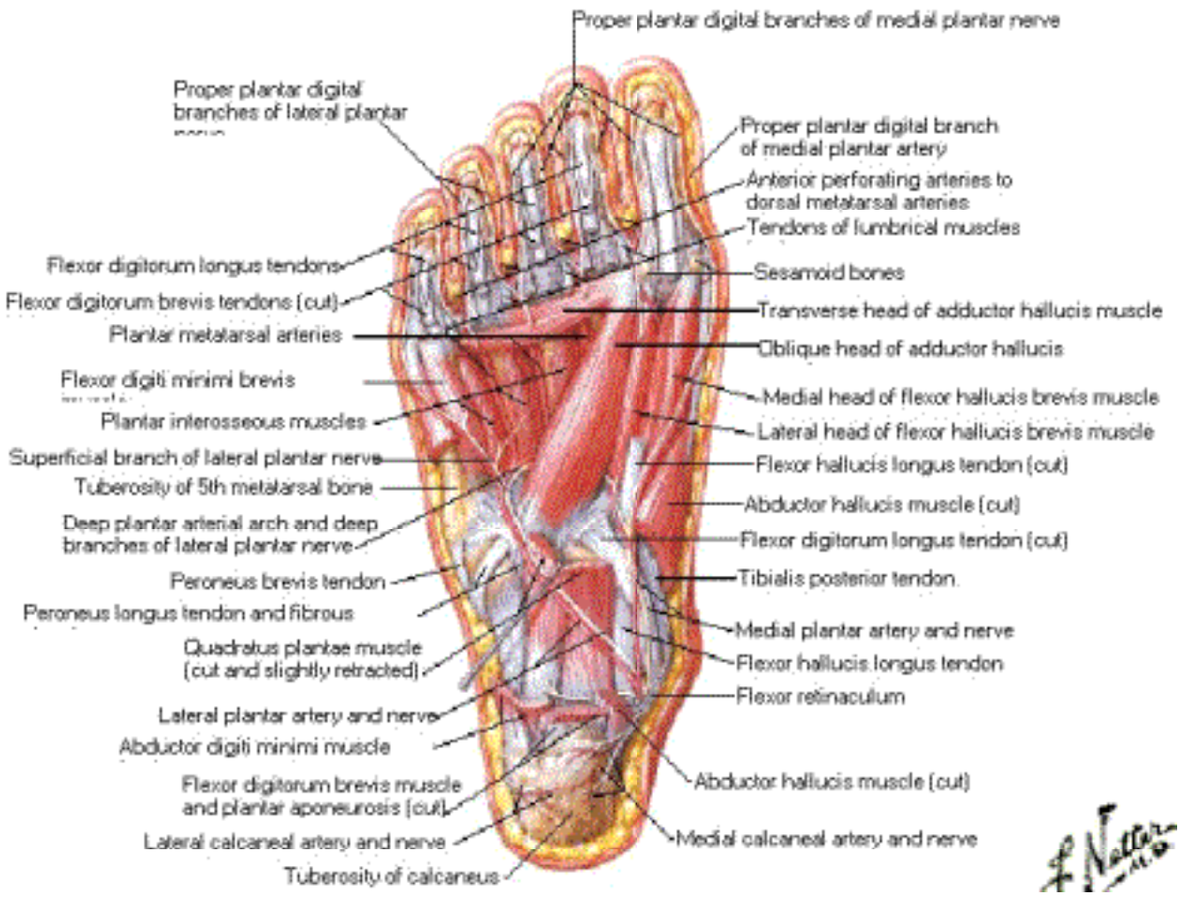
Muscles of Sole of Foot

Second Layer



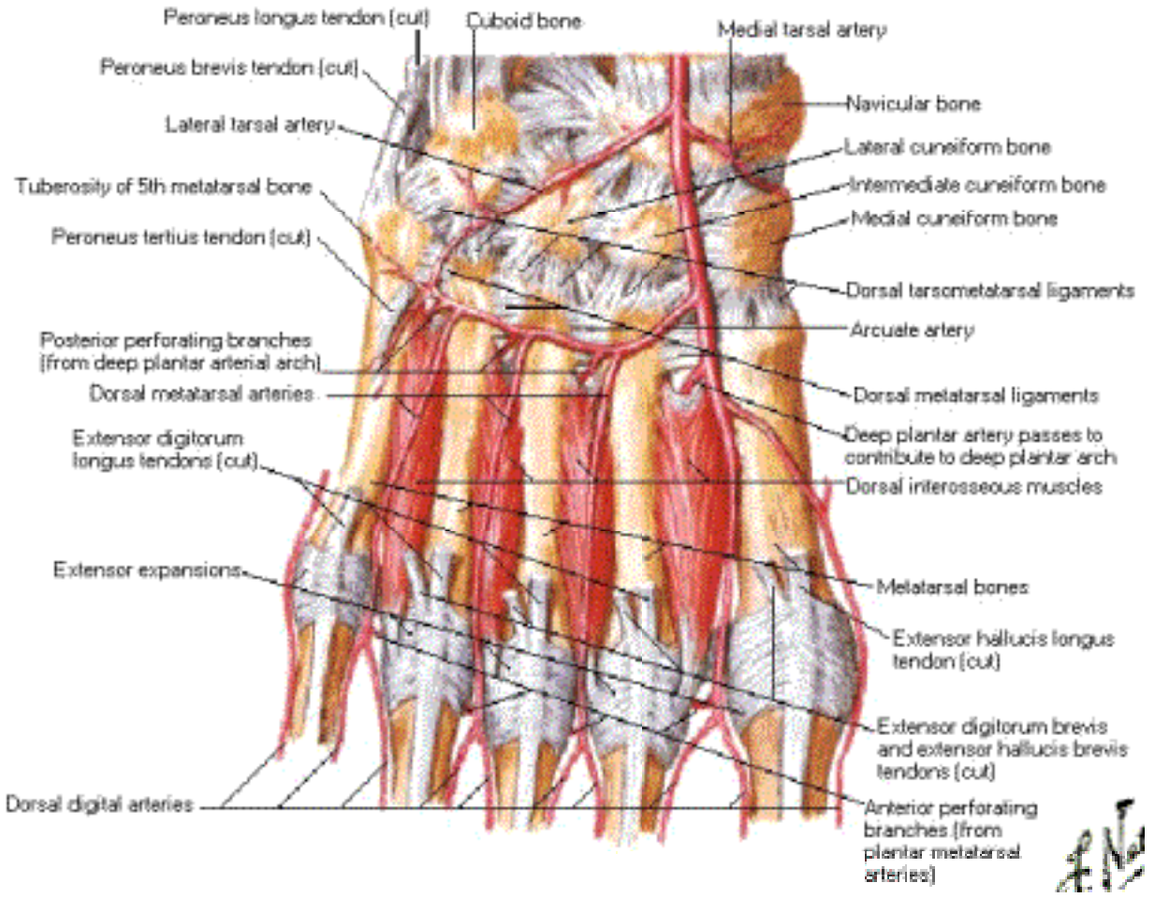
Muscles of Sole of Foot

Third Layer



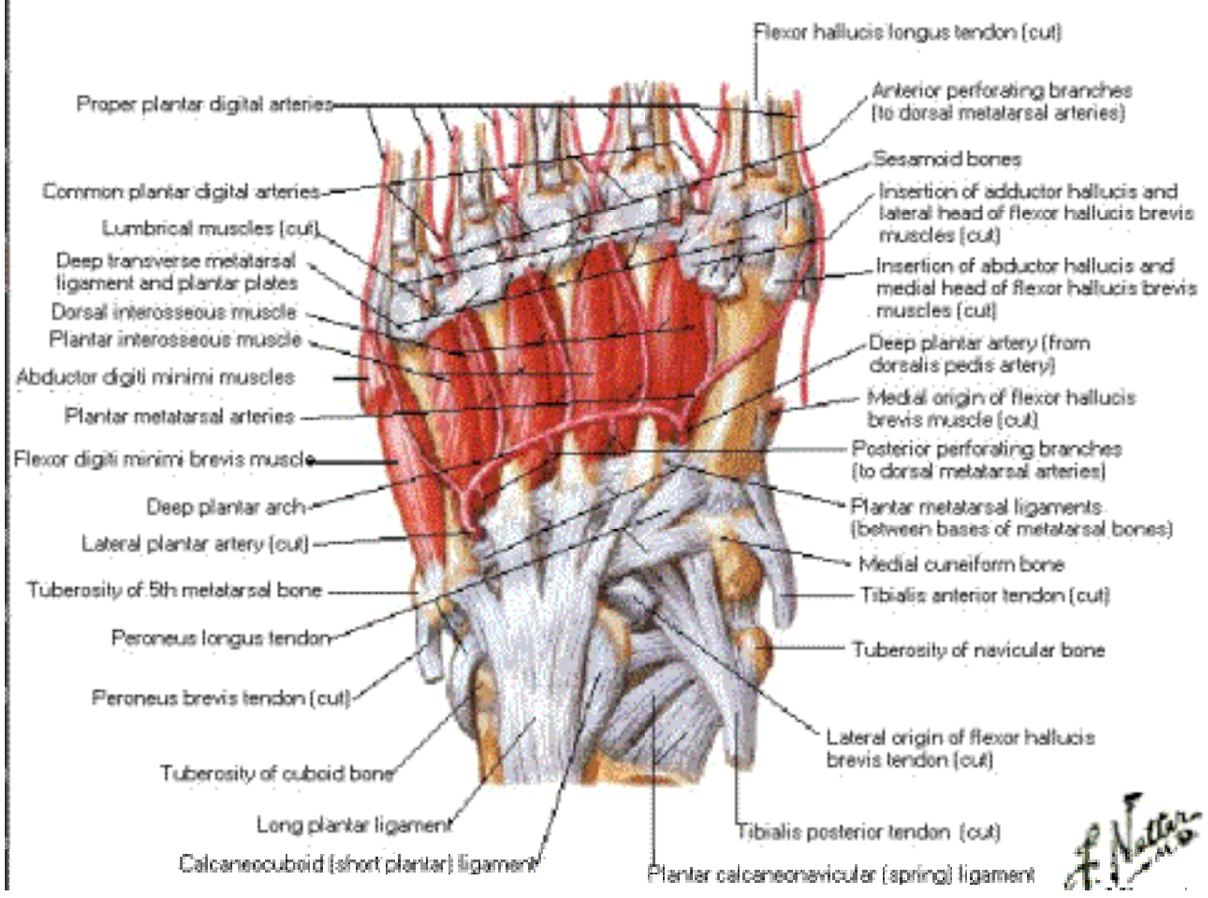
Interosseous Muscles and Deep Arteries of Foot

Dorsal View



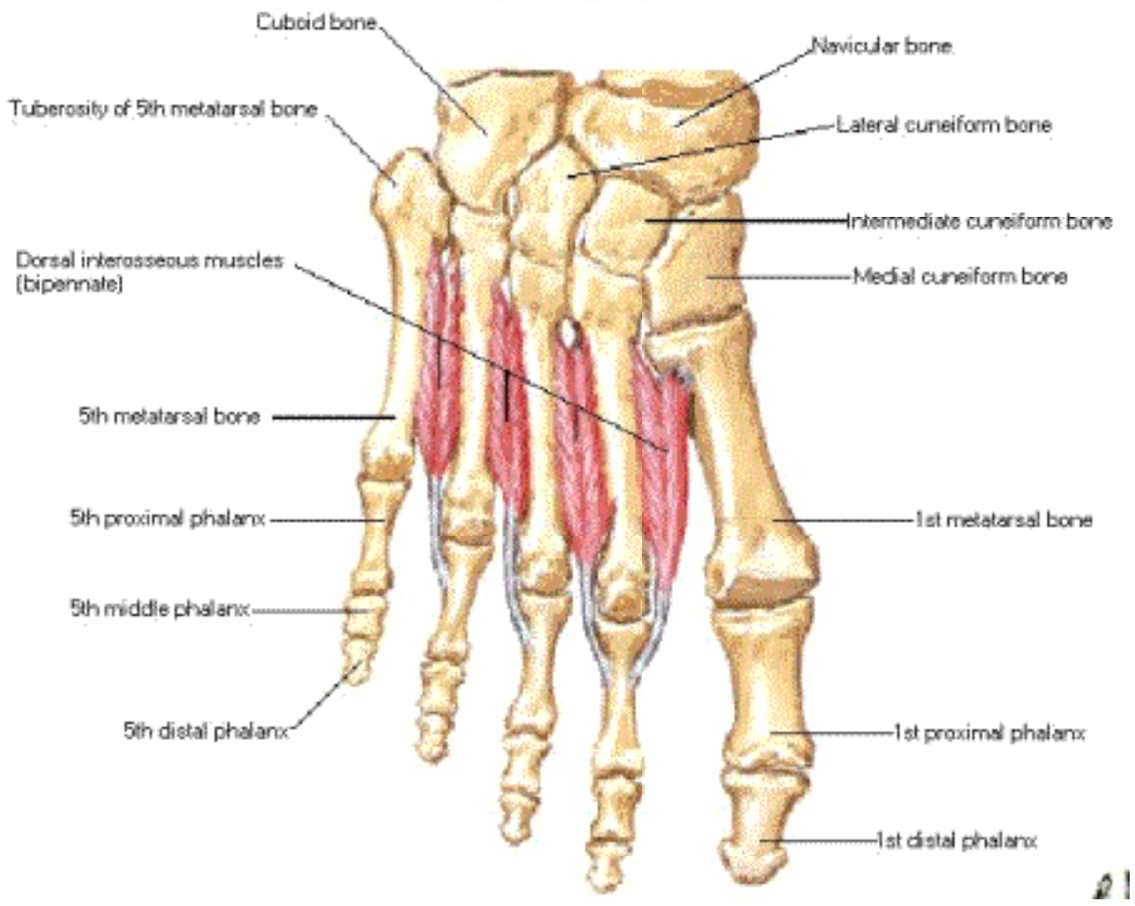
Interosseous Muscles and Deep Arteries of Foot

Plantar View



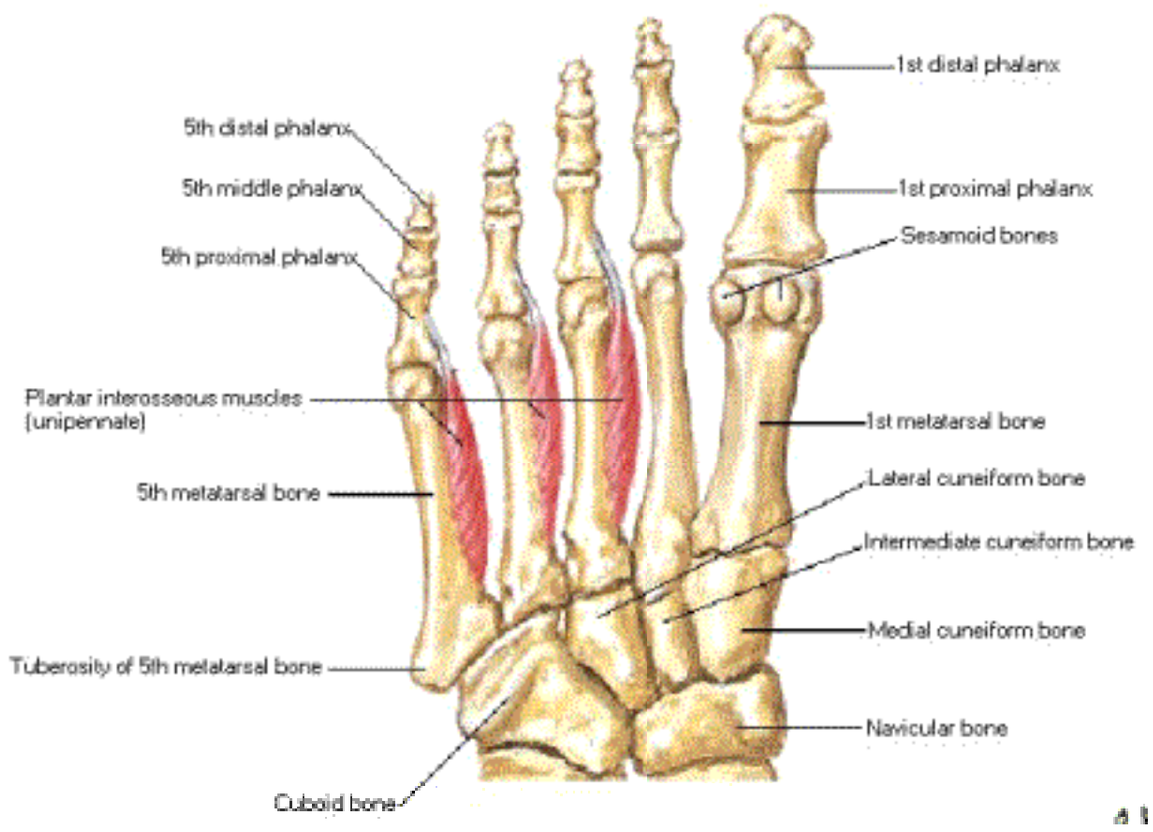
Interosseous Muscles of Foot

Dorsal View

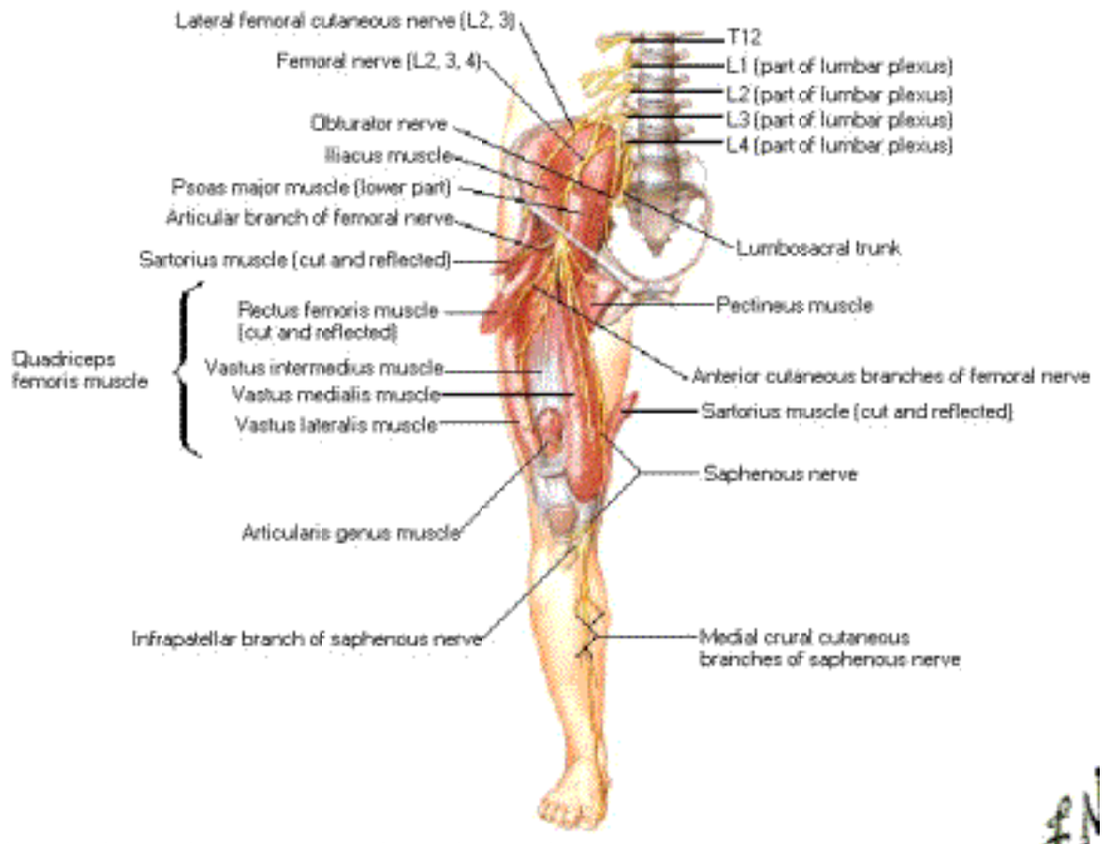


Interosseous Muscles of Foot

Plantar View



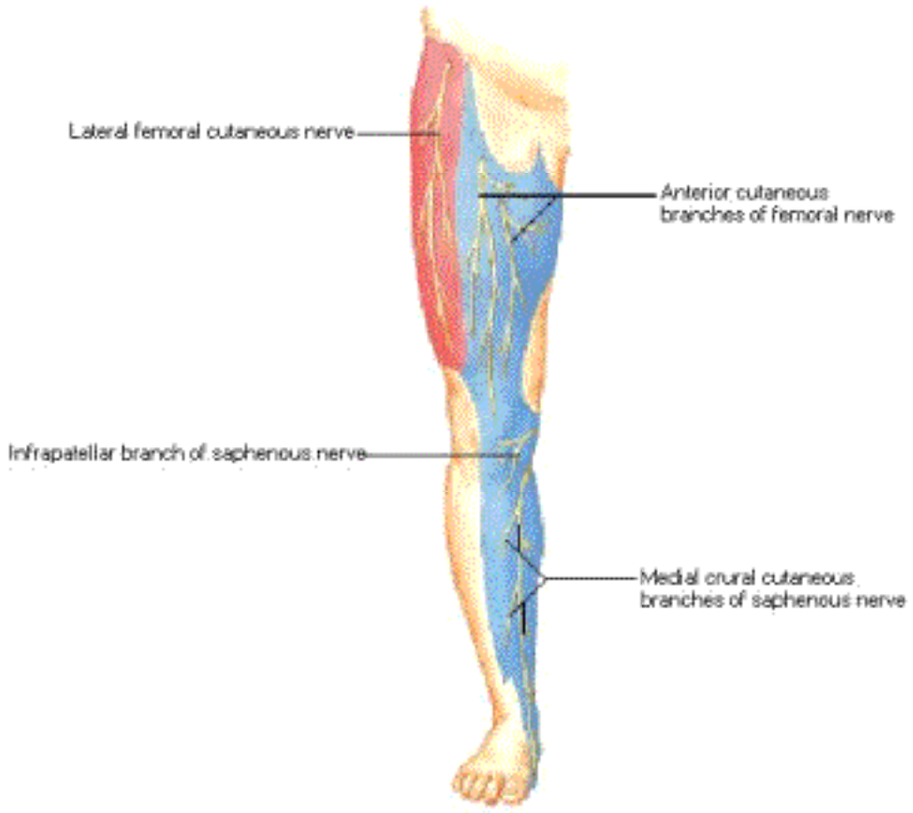
Femoral and Lateral Femoral Cutaneous Nerves



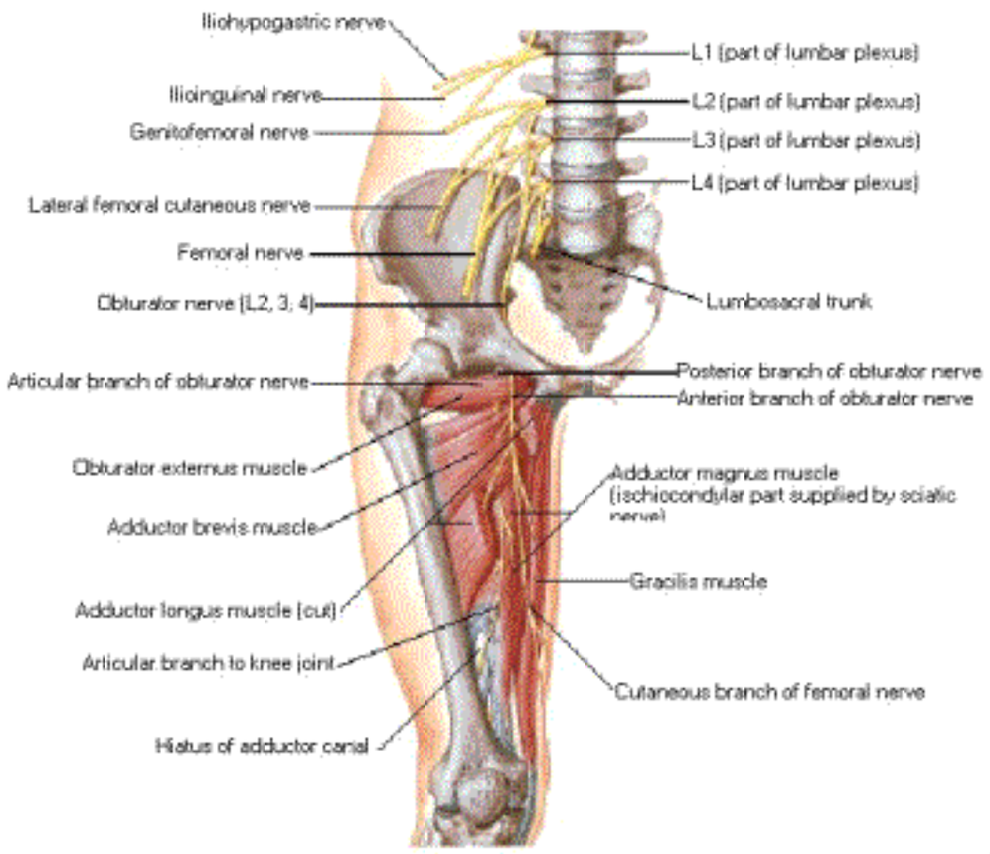
Note: only muscles innervated by femoral nerve shown

Femoral and Lateral Femoral Cutaneous Nerves

Cutaneous Innervation



Obturator Nerve

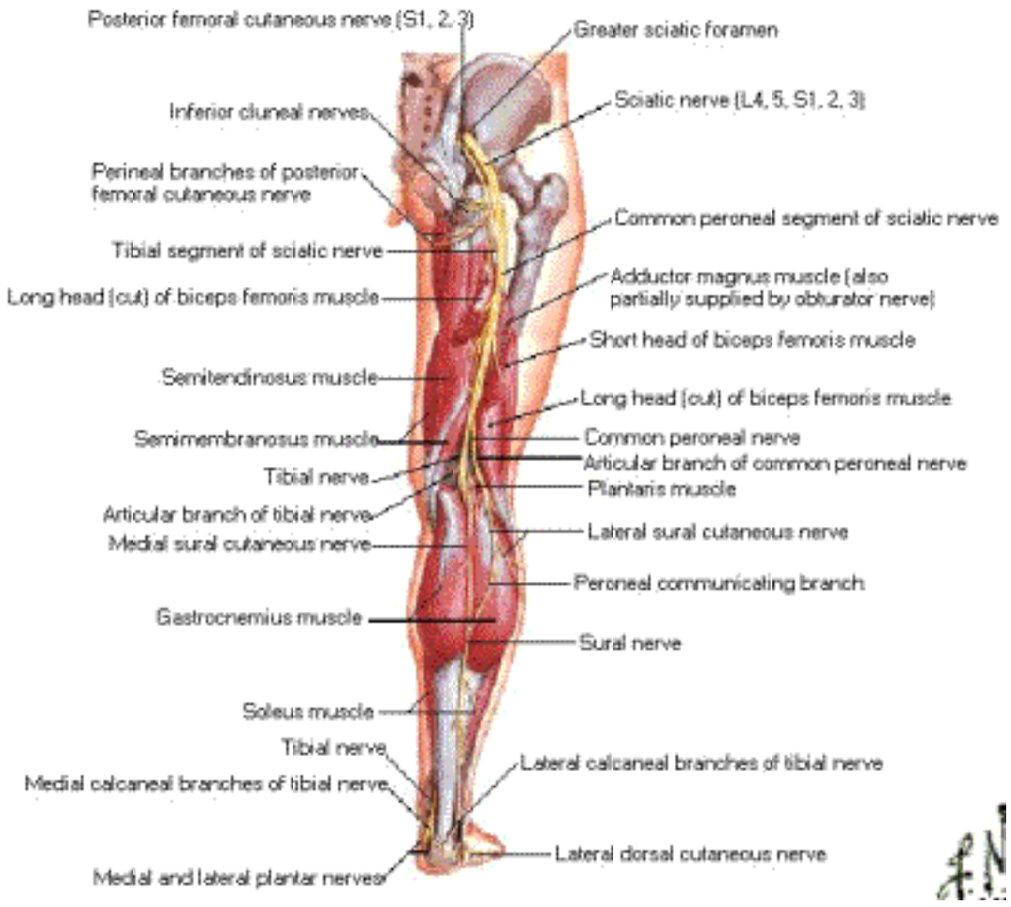


Note:. only muscles innervated by obturator nerve shown

Obturator Nerve
Cutaneous Innervation

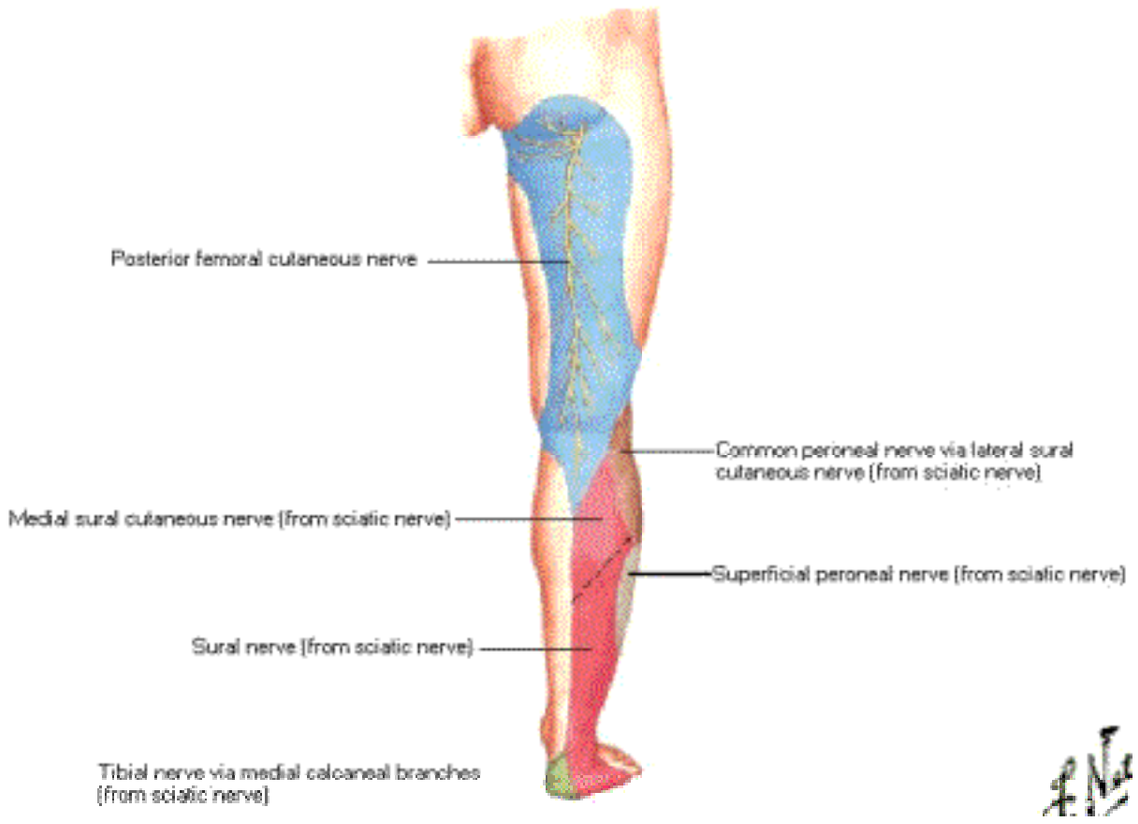


Sciatic and Posterior Femoral Cutaneous Nerves

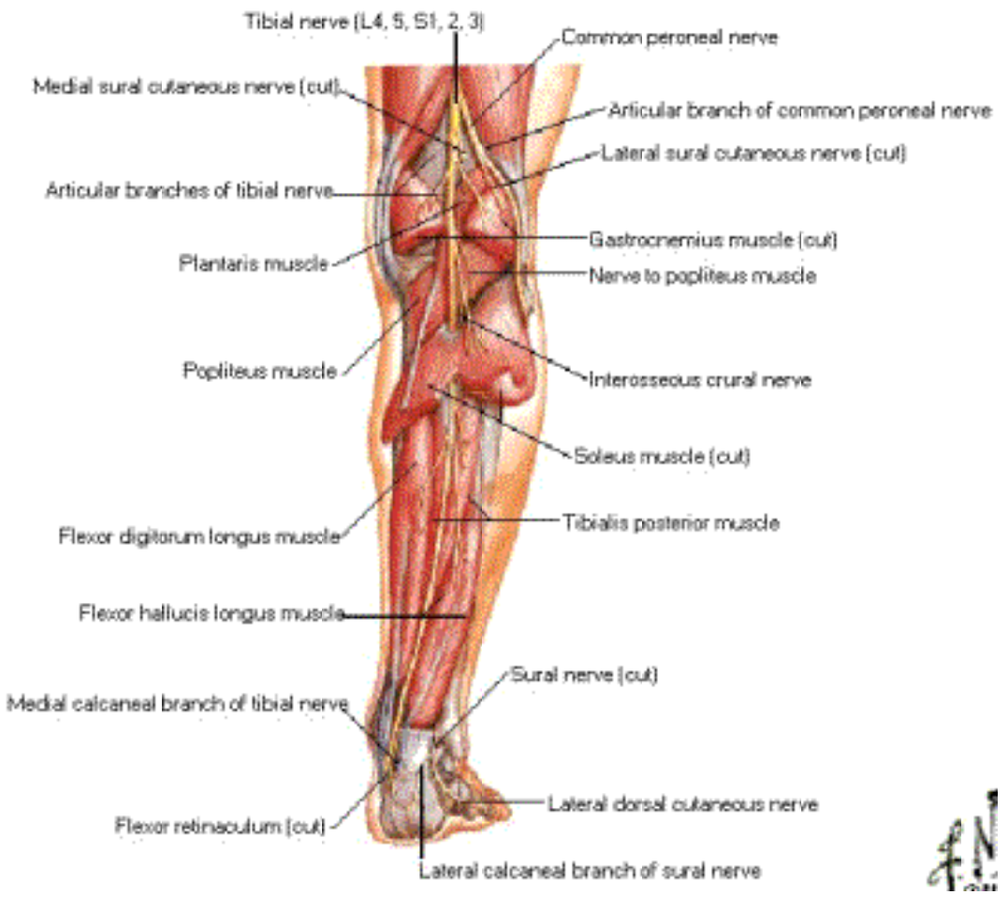


Sciatic and Posterior Femoral Cutaneous Nerves

Cutaneous Innervation

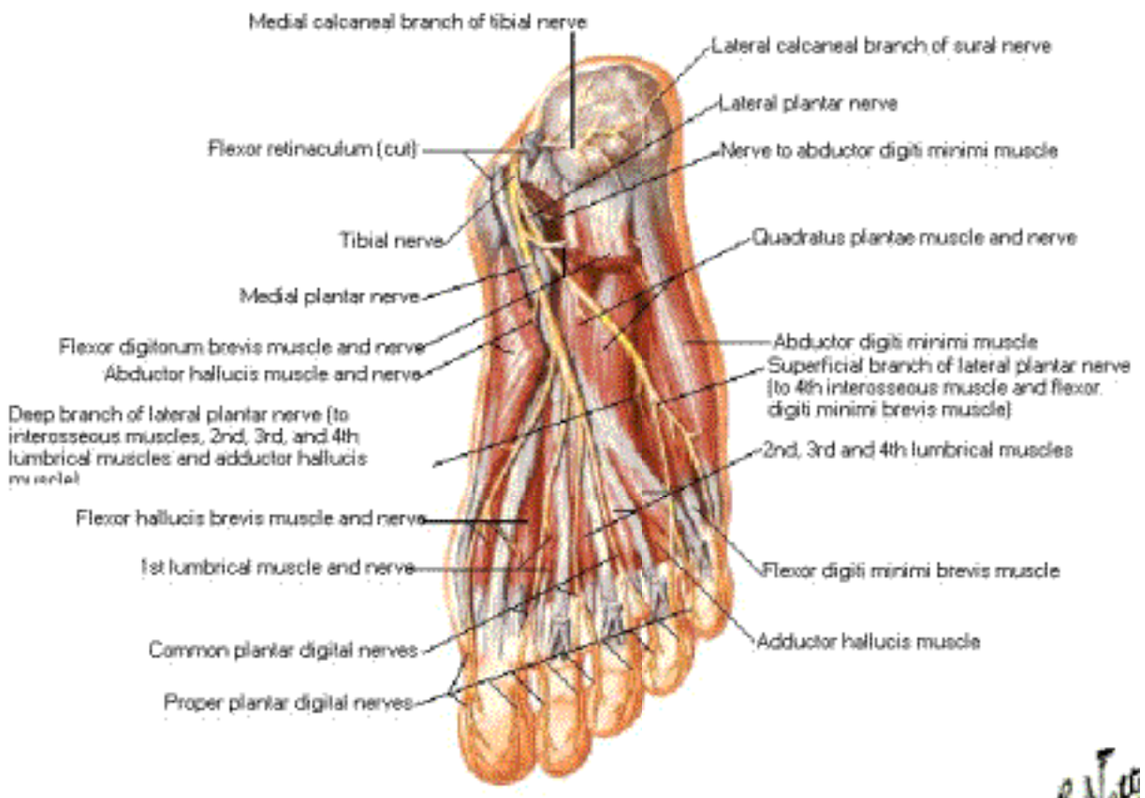


Tibial Nerve



Tibial Nerve

Plantar View

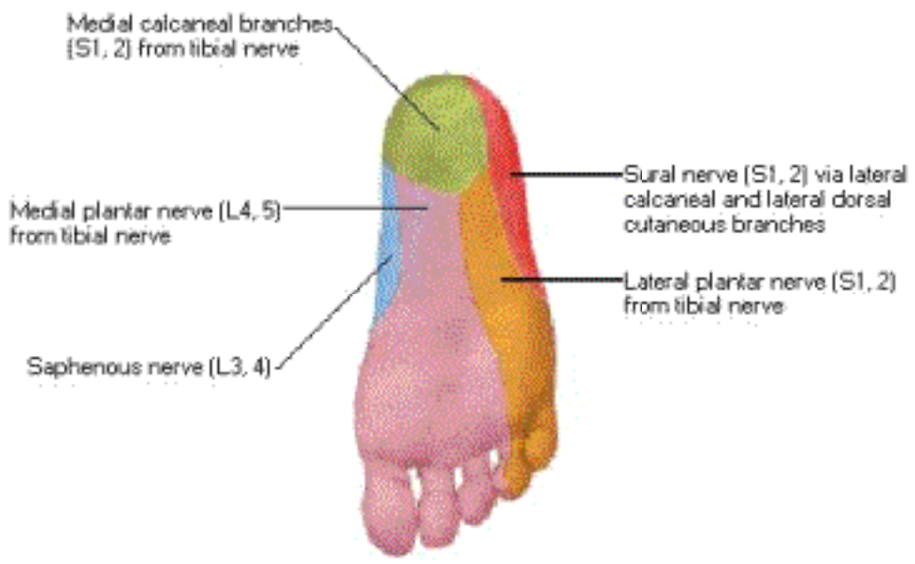


Note: articular branches not shown

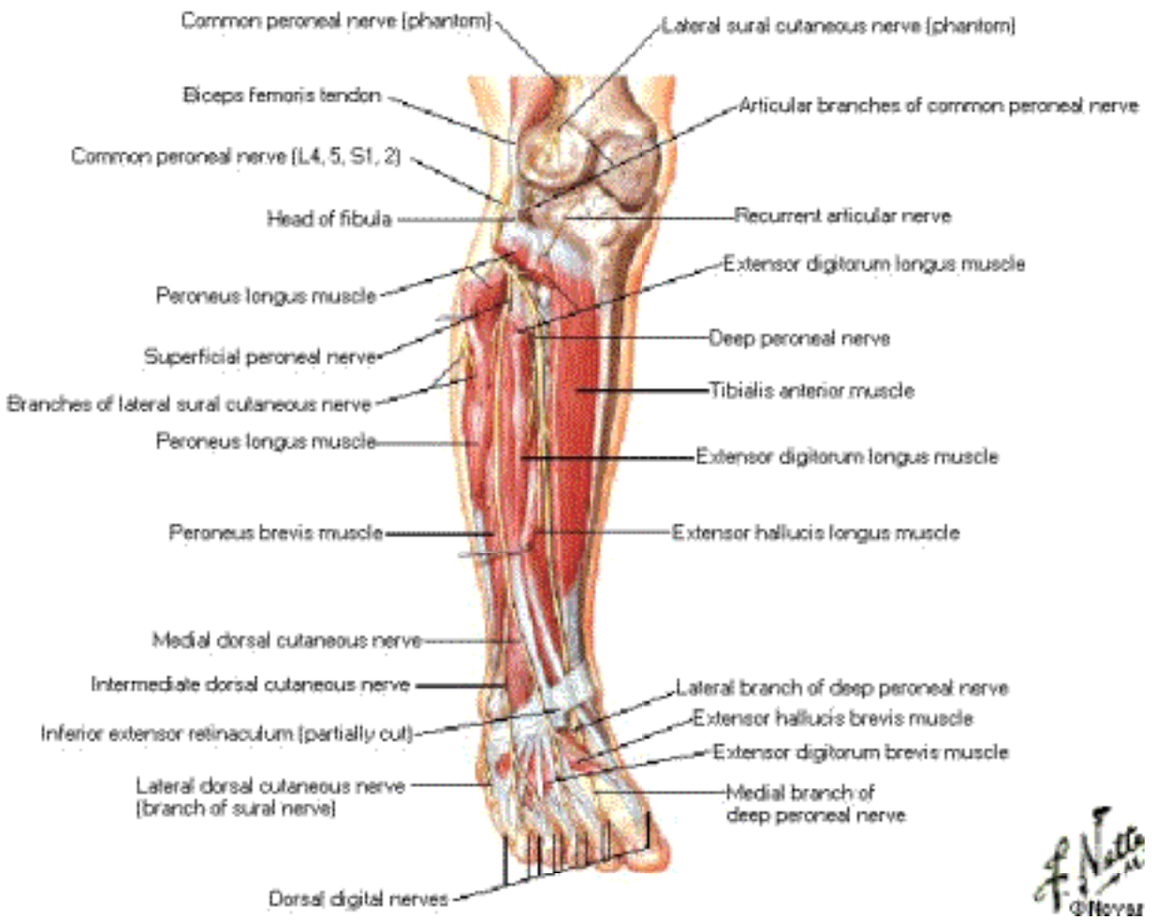
©Netter

Tibial Nerve

Cutaneous Innervation of Sole of Foot

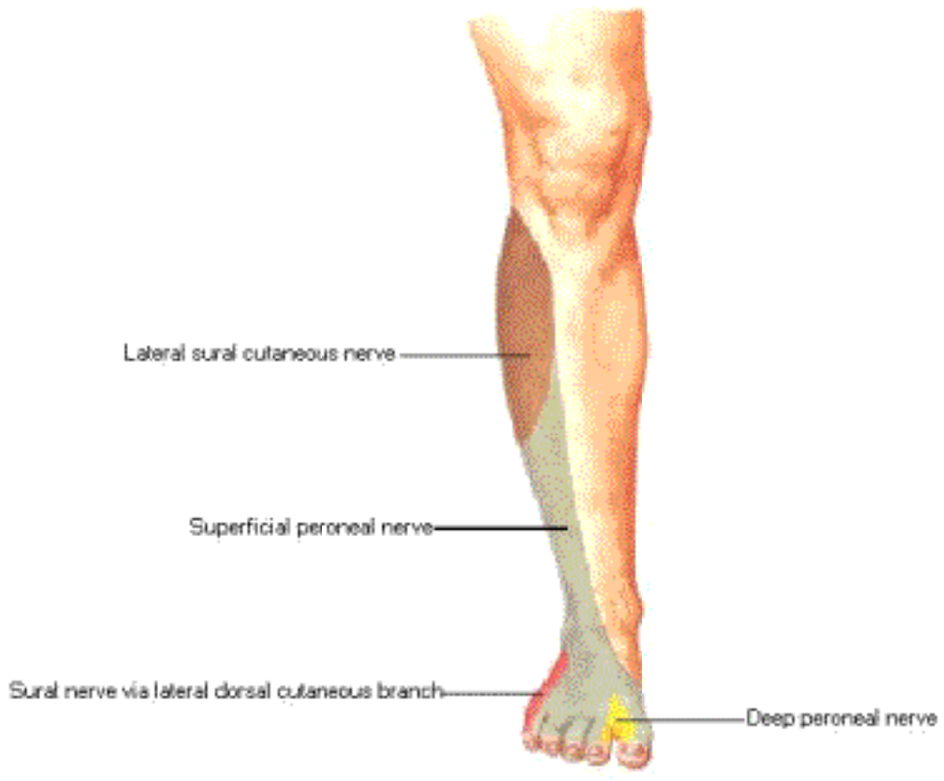


Common Peroneal Nerve



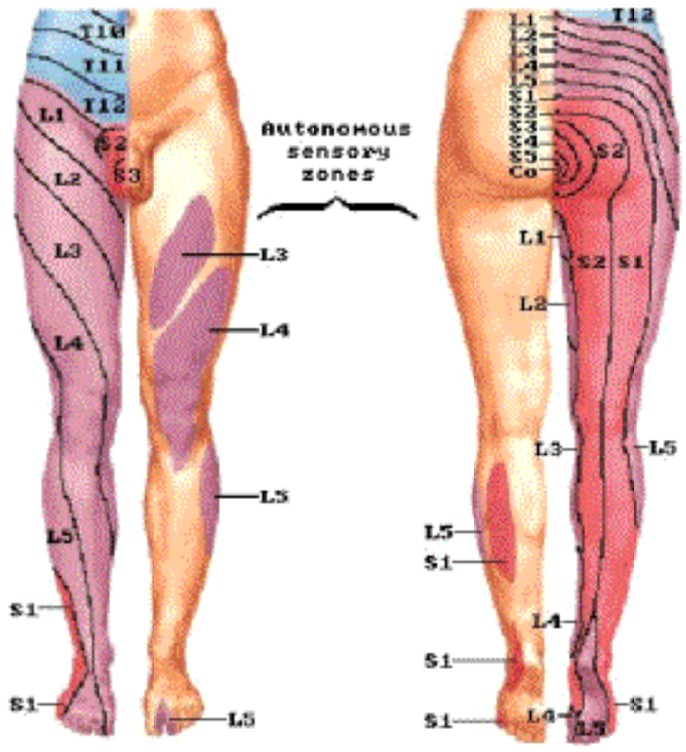
Common Peroneal Nerve

Cutaneous Innervation

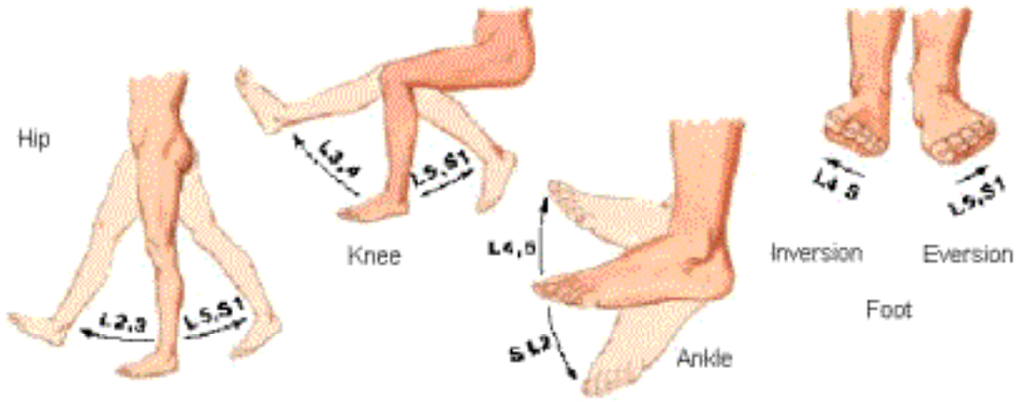


Dermatomes of Lower Limb

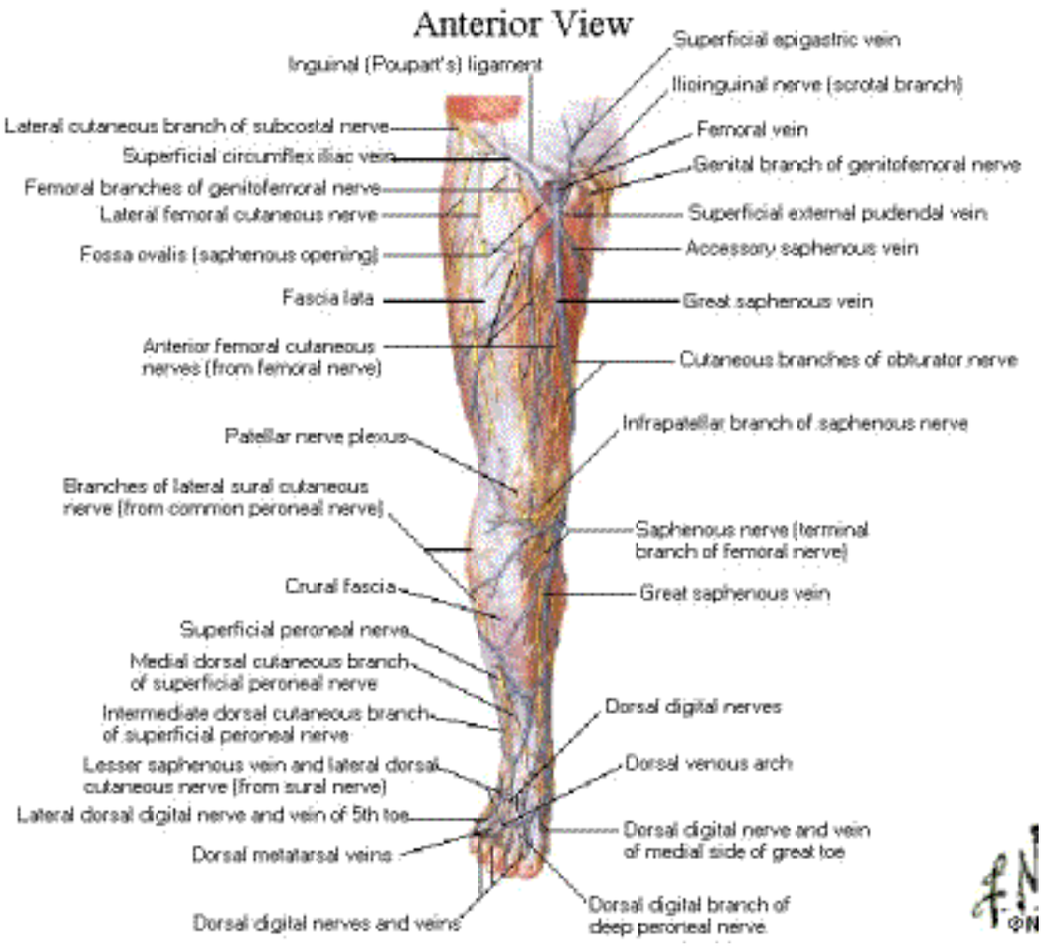
Anterior and Posterior Views



Segmental Innervation of Lower Limb Movements

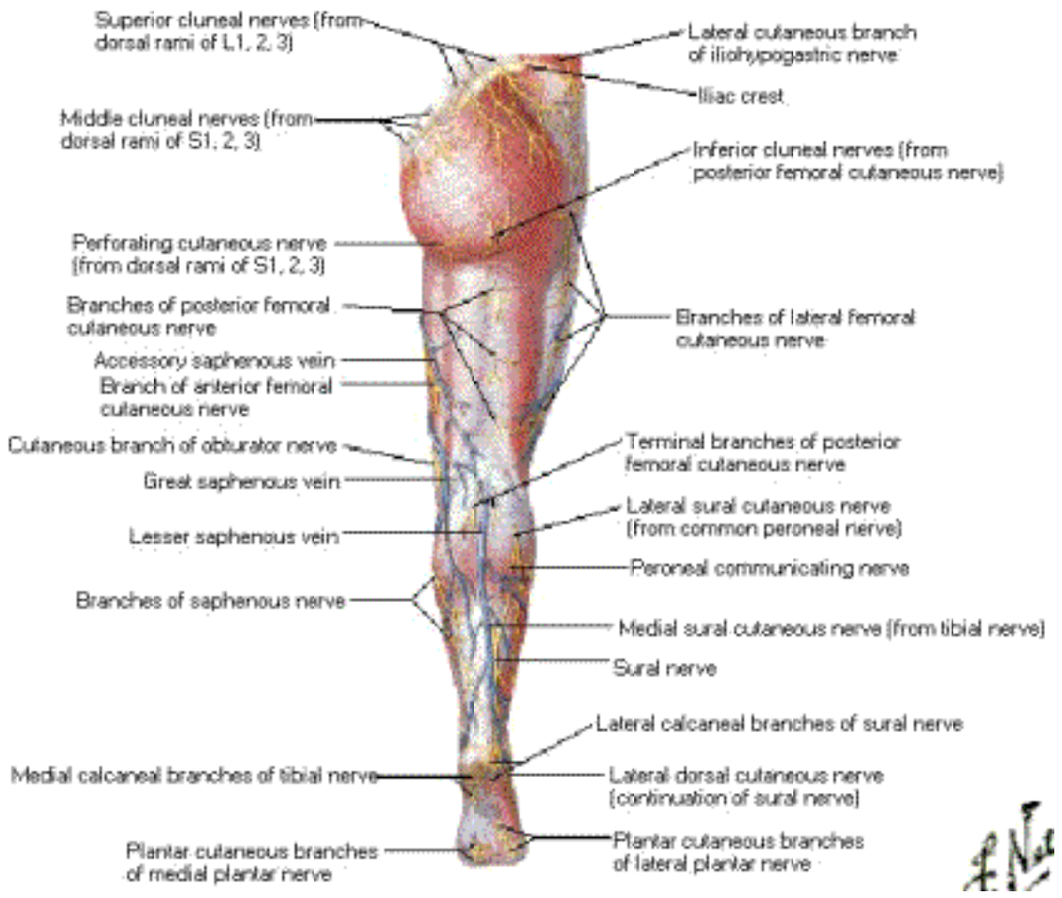


Superficial Nerves and Veins of Lower Limb



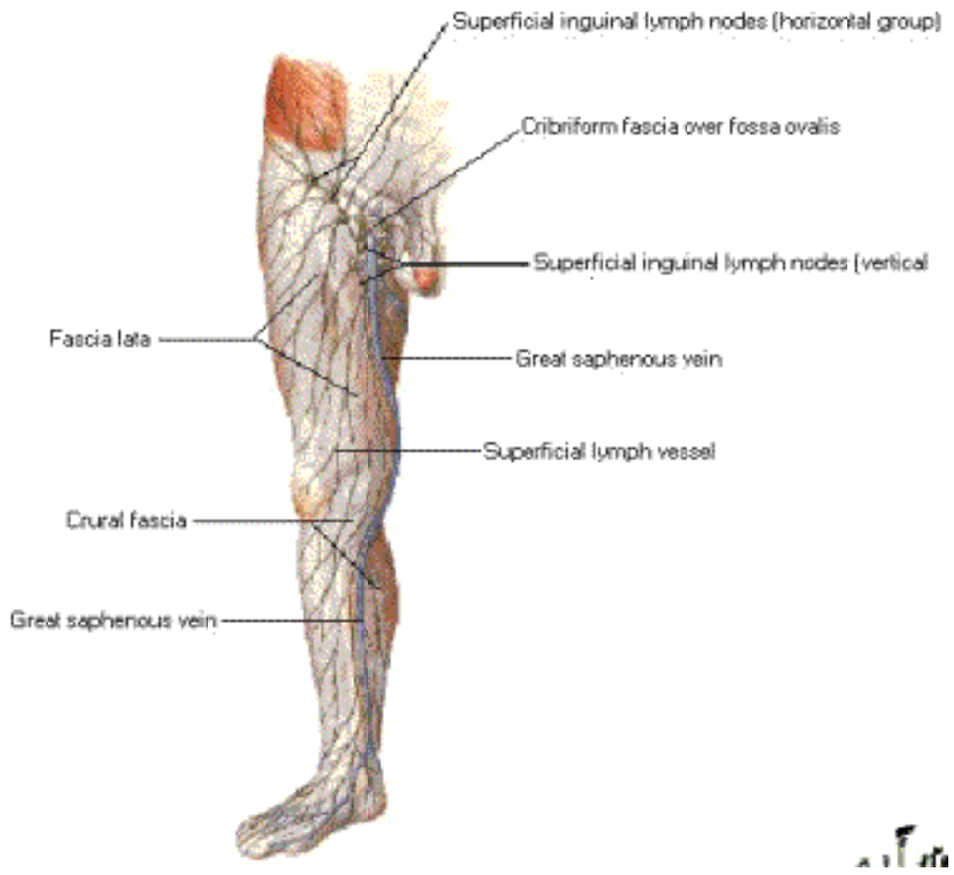
Superficial Nerves and Veins of Lower Limb

Posterior View



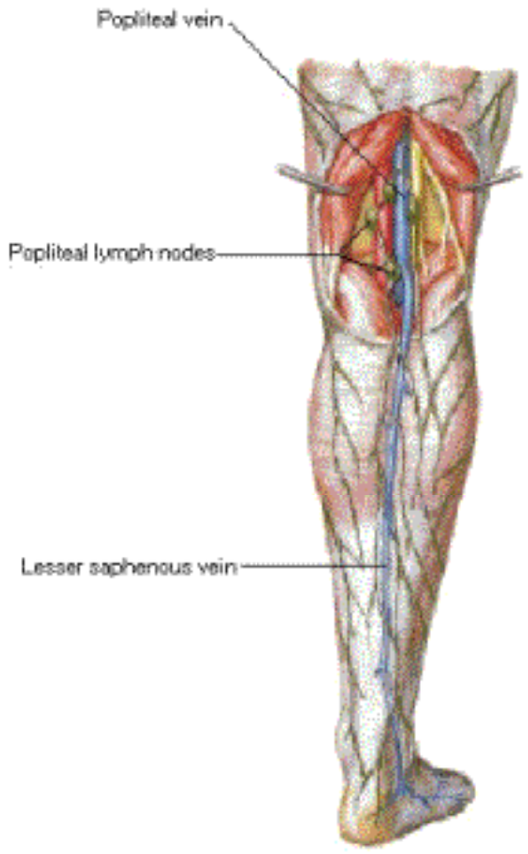
Lymph Vessels and Nodes of Lower Limb

Anterior View



Lymph Vessels and Nodes of Lower Limb

Posterior View



Lymph Vessels and Nodes of Lower Limb

Inguinal Region

