

## Netter for Isilo 3.0

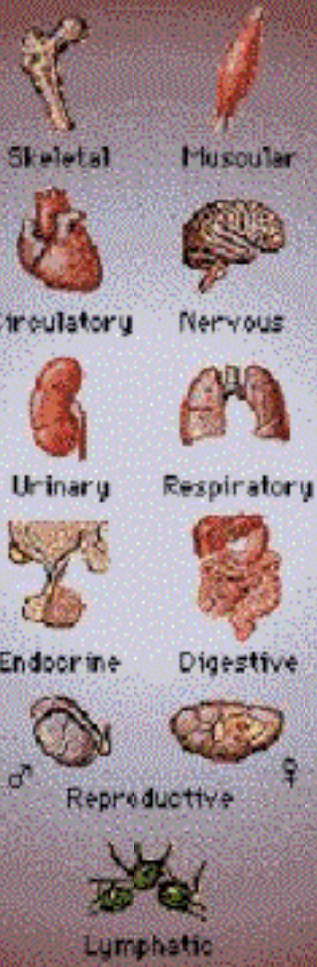
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Regions

Systems



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333B Abdominal Wall and Viscera [Below L4]: Midsagittal Section  
340 Pelvic Diaphragm of Male: Inferior View  
342A Pelvic Viscera and Perineum of Male: Paramedian Sagittal Section  
342B Pelvic Viscera and Perineum of Male: Midsagittal Section  
344 Pelvic Contents of Male: Superior View  
347B Urinary Bladder of Male: Frontal Section  
361A Urogenital Diaphragm of Male: Dissection  
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361C Urogenital Diaphragm of Male: Frontal Section - Schema  
362A Prostate and Seminal Vesicles: Frontal Section  
362B Prostate and Seminal Vesicles: Sagittal Section  
362C Prostate and Seminal Vesicles: Posterior View  
362D Prostate and Seminal Vesicles: Cross Section through Prostate  
363 Urethra: Male  
367A Rectum of Male in Situ  
371B External Anal Sphincter Muscle of Female: Perineal View  
372A Perineopelvic Spaces: Sagittal Section  
376 Arteries and Veins of Testis  
378A Arteries and Veins of Pelvis: Male - Left Paramedian Section  
378B Arterial Supply of Prostate  
380A Arteries and Veins of Perineum: Male  
380B Arteries and Veins of Perineum [Continued]: Male  
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  
386A Nerves of Perineum: Male - Perineal View  
391 Innervation of Male Reproductive Organs: Schema  
394A Homologues of Internal Genitalia: Undifferentiated Stage  
394B Homologues of Internal Genitalia: Fully Developed Male and Female

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167A Mammary Gland: Anterolateral Dissection  
167B Mammary Gland: Sagittal Section  
168 Arteries of Mammary Gland  
169 Lymph Vessels and Nodes of Mammary Gland

## **External genitalia(female)** [\[Back to regional\]](#)

341A Pelvic Viscera and Perineum of Female: Midsagittal Section  
341B Pelvic Viscera and Perineum of Female: Paramedian Sagittal Section  
346A Urinary Bladder - Orientation and Supports: Midsagittal Section  
347A Urinary Bladder of Female: Frontal Section  
349 Uterus Vagina and Supporting Structures  
354A Perineum and External Genitalia of Female  
354B Perineum and External Genitalia of Female [Continued]  
355A Perineum of Female: Superficial Dissection  
356A Perineum and Urogenital Diaphragm of Female  
356B Perineum and Urogenital Diaphragm of Female: Deep Dissection  
379A Arteries and Veins of Perineum: Female  
382 Lymph Vessels and Nodes of Perineum: Female  
388A Nerves of Perineum and External Genitalia: Female  
388B Block Anesthesia of Perineal Area: Primarily Pudendal Nerve

393A Homologues of External Genitalia: Undifferentiated Stage  
393B Homologues of External Genitalia: Fully Developed Male and Female

## **Pelvic structure(female)** [\[Back to regional\]](#)

337A Pelvic Diaphragm of Female: Superior View  
337B Pelvic Diaphragm of Female: Medial View  
338A Pelvic Diaphragm of Female: Inferior View  
338B Pelvic Diaphragm of Female: Lateral View  
341A Pelvic Viscera and Perineum of Female: Midsagittal Section  
341B Pelvic Viscera and Perineum of Female: Paramedian Sagittal Section  
343 Pelvic Contents of Female: Superior View  
345 Endopelvic Fascia and Spaces of Female: Superior View  
346A Urinary Bladder - Orientation and Supports: Midsagittal Section  
347A Urinary Bladder of Female: Frontal Section  
348A Pelvic Viscera of Female: Superior View - Peritoneum Intact  
348B Pelvic Viscera of Female: Superior View - Peritoneum Removed  
349 Uterus Vagina and Supporting Structures  
350A Uterus and Adnexa: Posterior View  
350B Uterus and Adnexa: Frontal Section  
351A Uterus: Changes with Age  
351B Uterus: Schema of Musculature  
352A Uterus: Variations in Position  
352B Uterus [Continued]: Variations in Position  
353A Infant Ovary and Ripening Follicle: Histology  
353B Stages of Ovum and Follicle  
355B Perineum of Female: Midsagittal Section  
356A Perineum and Urogenital Diaphragm of Female  
356B Perineum and Urogenital Diaphragm of Female: Deep Dissection  
367B Rectum of Female in Situ  
375 Arteries and Veins of Pelvic Organs: Female  
377A Arteries and Veins of Pelvis: Female - Sagittal Section  
377B Arteries and Veins of Pelvis: Female - Right Paramedian Section  
379B Arteries and Veins of Uterus  
381 Lymph Vessels and Nodes of Pelvis and Genitalia: Female  
389A Neuropathways in Parturition  
389B Neuropathways in Parturition: Pelvic Area Enlarged  
390 Innervation of Female Reproductive Organs: Schema  
394A Homologues of Internal Genitalia: Undifferentiated Stage  
394B Homologues of Internal Genitalia: Fully Developed Male and Female

## **Head and Neck** [\[Back to regional\]](#)

66 Lymph Vessels and Nodes of Oral and Pharyngeal Regions  
67A Lymphatic Drainage of Pharynx: Posterior View  
67B Lymphatic Drainage of Tongue: Lateral View

## **Throat** [\[Back to regional\]](#)

169 Lymph Vessels and Nodes of Mammary Gland  
197 Lymph Vessels and Nodes of Lung  
227 Lymph Vessels and Nodes of Esophagus  
249 Lymph Vessels and Nodes of Posterior Abdominal Wall

## **Abdomen** [\[Back to regional\]](#)

227 Lymph Vessels and Nodes of Esophagus  
244B Femoral Sheath and Inguinal Canal [Deep]  
249 Lymph Vessels and Nodes of Posterior Abdominal Wall  
281A Spleen: Visceral and Diaphragmatic Surfaces  
281B Spleen: Cross Section  
281C Spleen in Situ  
282 Arteries of Stomach Liver and Spleen  
283 Arteries of Stomach Duodenum Pancreas and Spleen  
284 Arteries of Liver Pancreas Duodenum and Spleen  
299A Lymph Vessels and Nodes of Stomach  
299B Lymph Vessels and Nodes of Stomach: Stomach Reflected  
300 Lymph Vessels and Nodes of Small Intestine  
301A Lymph Vessels and Nodes of Large Intestine  
301B Lymph Vessels and Nodes of Large Intestine [Continued]  
302A Lymph Vessels and Nodes of Liver: Histology  
302B Lymph Vessels and Nodes of Liver  
303A Lymph Vessels and Nodes of Pancreas: Anterior View  
303B Lymph Vessels and Nodes of Pancreas: Posterior View  
325 Lymph Vessels and Nodes of Kidneys and Urinary Bladder

## **Pelvis and Perinum** [\[Back to regional\]](#)

249 Lymph Vessels and Nodes of Posterior Abdominal Wall  
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

## **Limbs** [\[Back to regional\]](#)

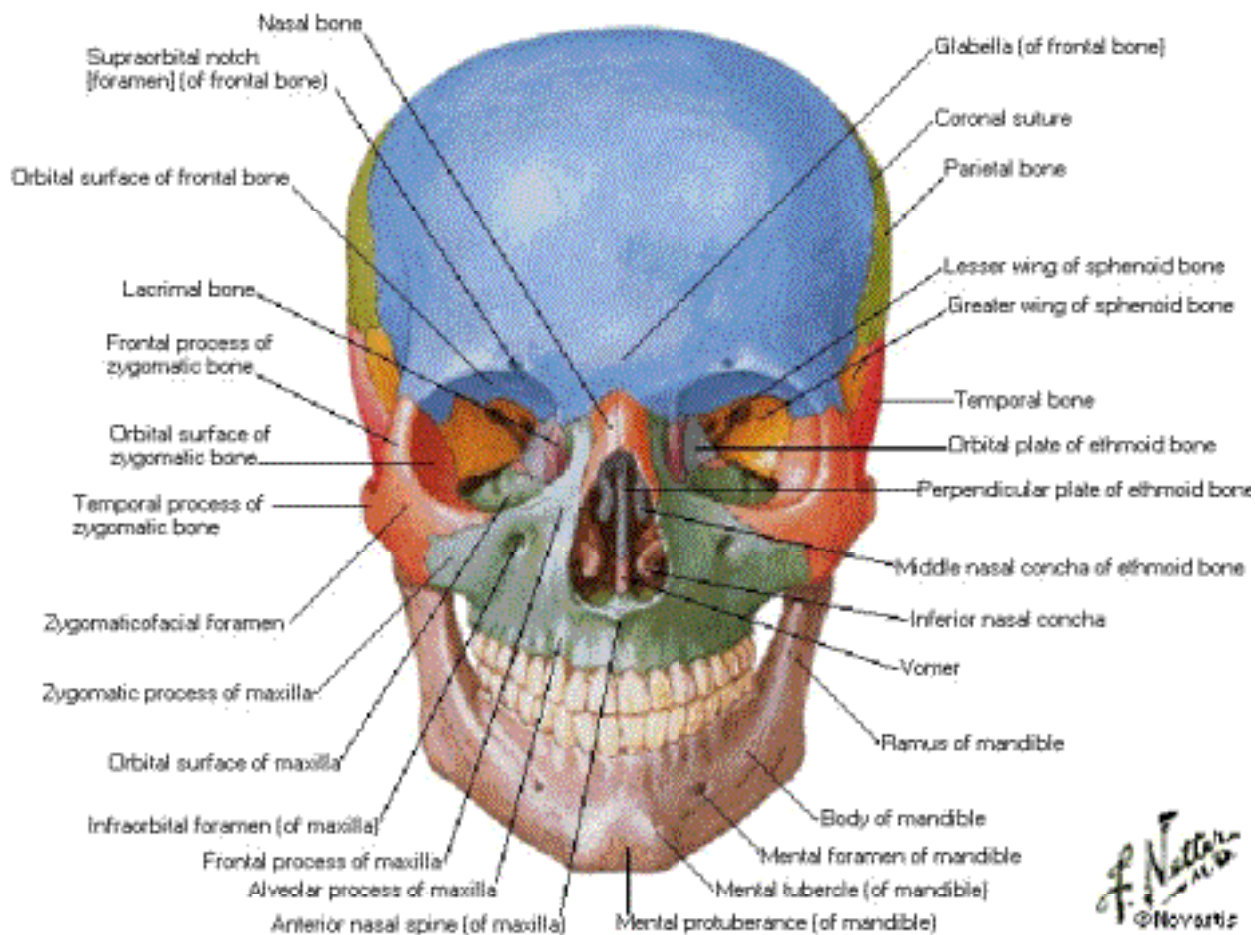
169 Lymph Vessels and Nodes of Mammary Gland  
403B Pectoral, Clavipectoral and Axillary Fasciae: Section of Axilla  
441 Wrist and Hand: Superficial Dorsal Dissection  
456A Lymph Vessels and Nodes of Upper Limb



456B Lymph Vessels of Hand  
514A Lymph Vessels and Nodes of Lower Limb: Anterior View  
514B Lymph Vessels and Nodes of Lower Limb: Posterior View  
514C Lymph Vessels and Nodes of Lower Limb: Inguinal Region

# Skull

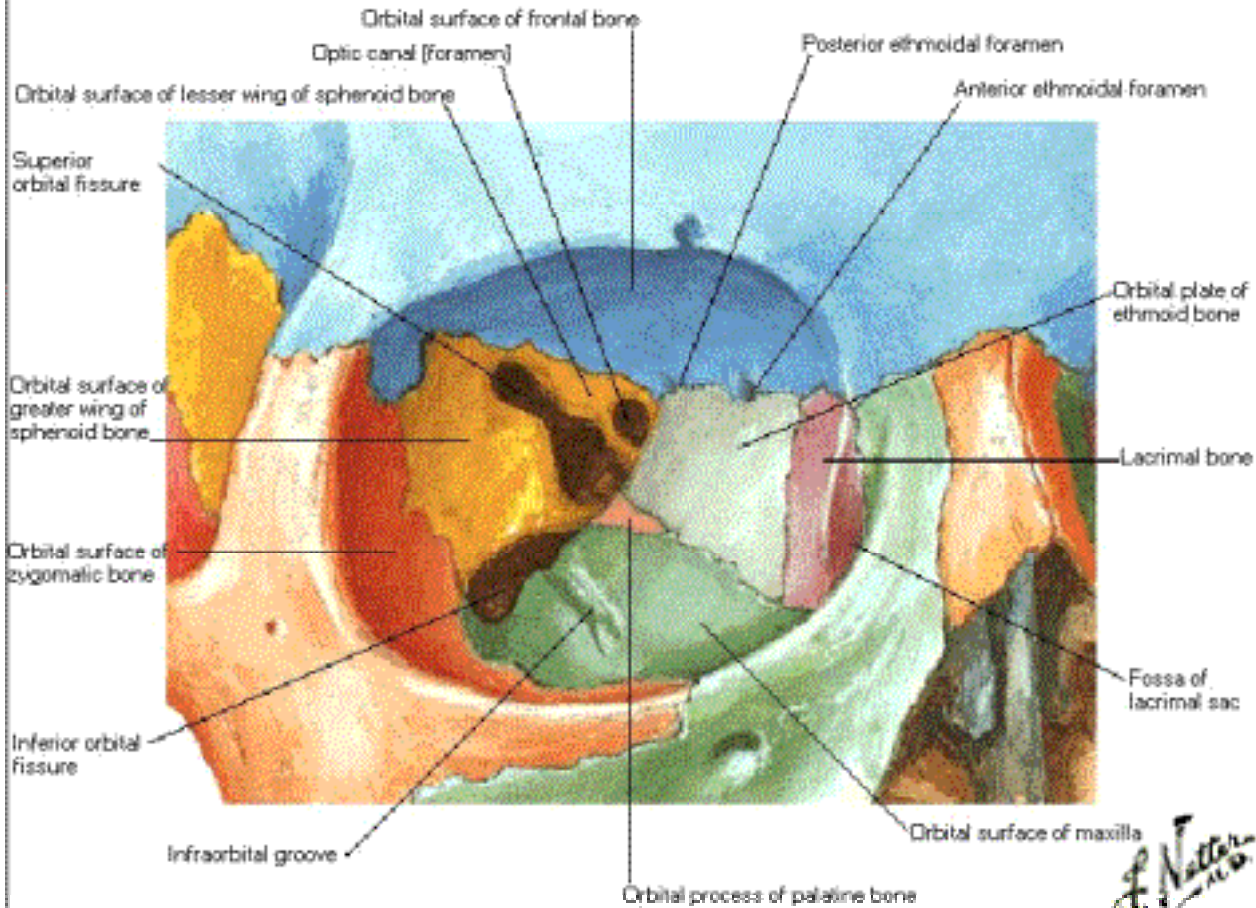
## Anterior View



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# Right Orbit

## Frontal and Slightly Lateral View

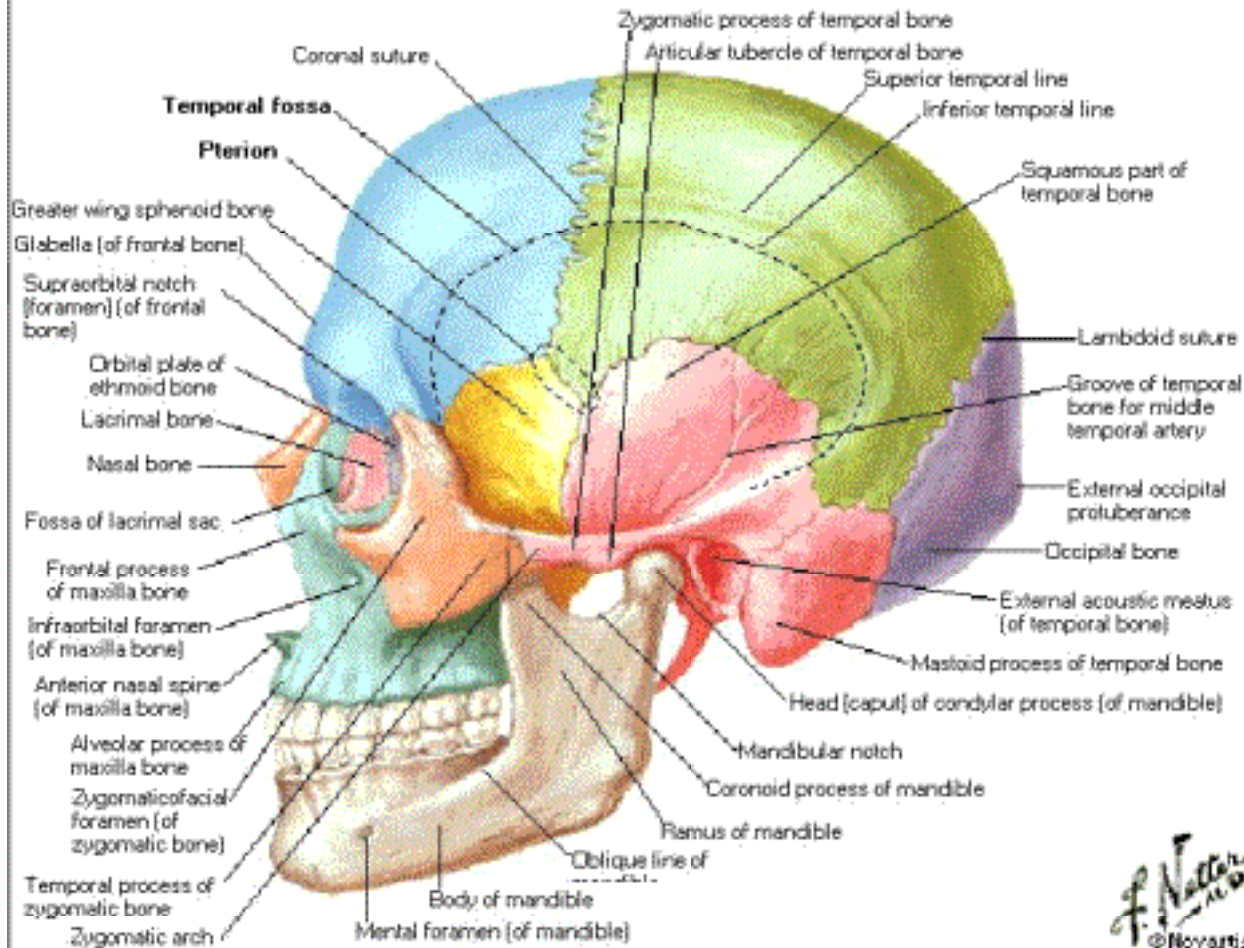


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# Skull

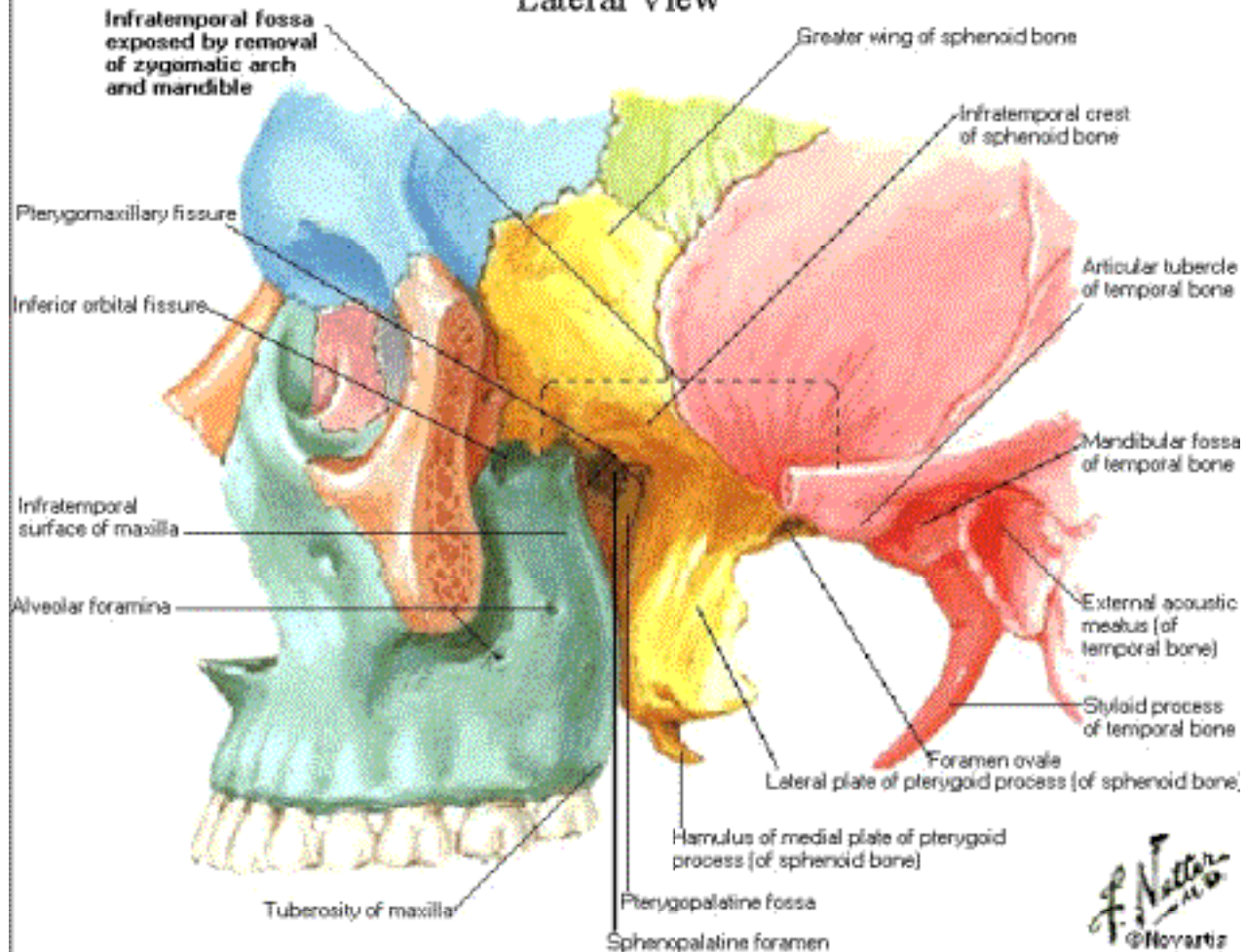
## Lateral View



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# Skull - Infratemporal Fossa Exposed

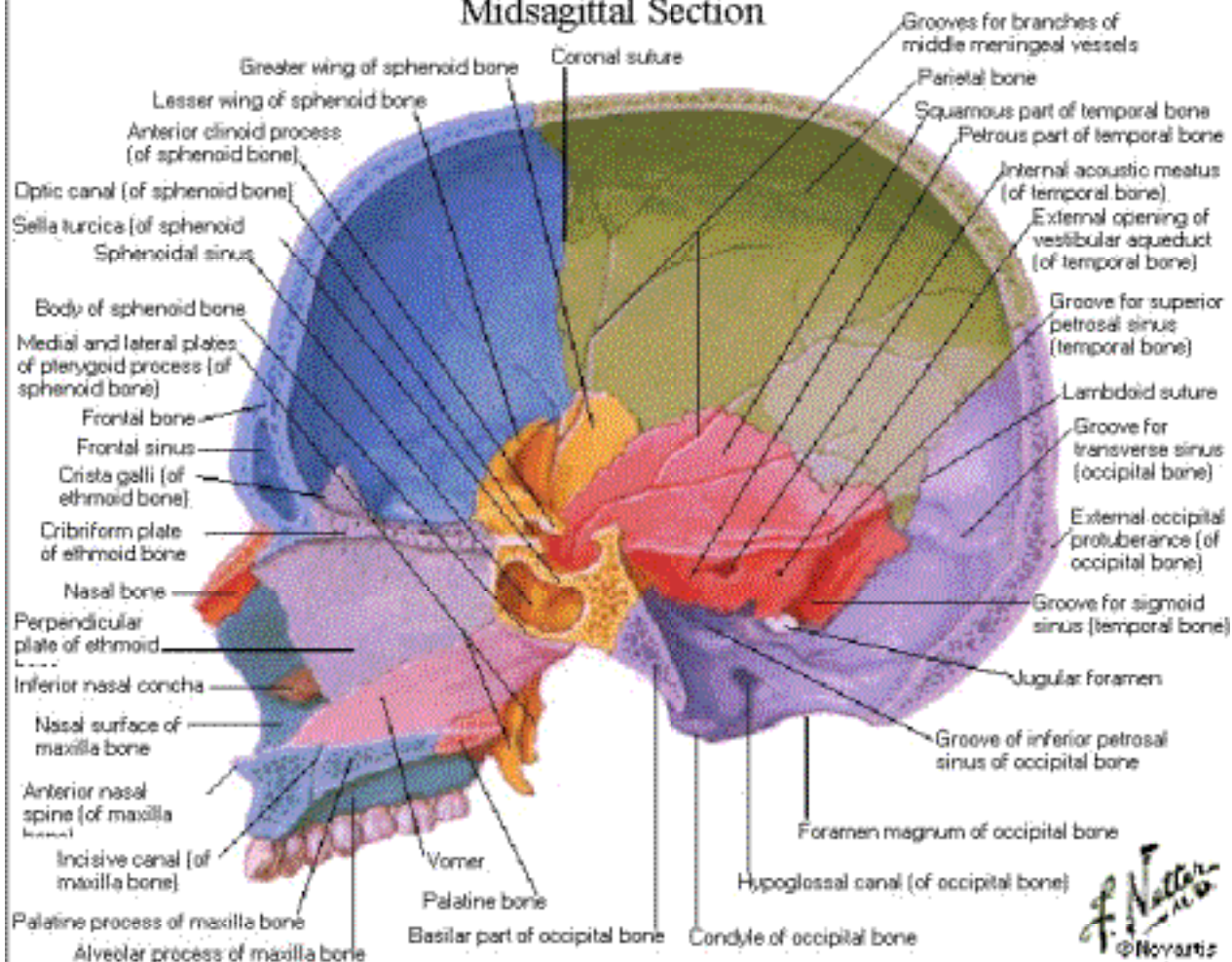
## Lateral View



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# Skull

## Midsagittal Section

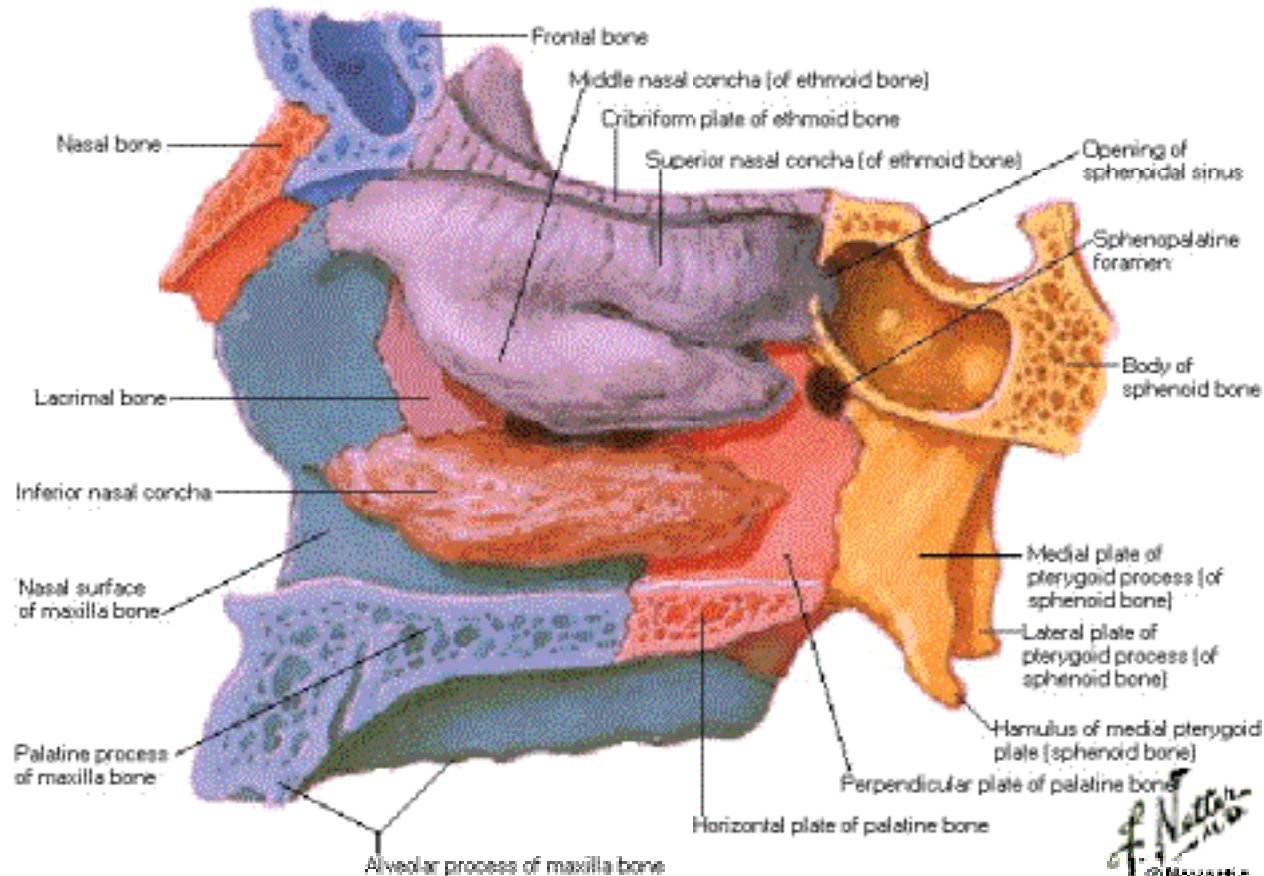


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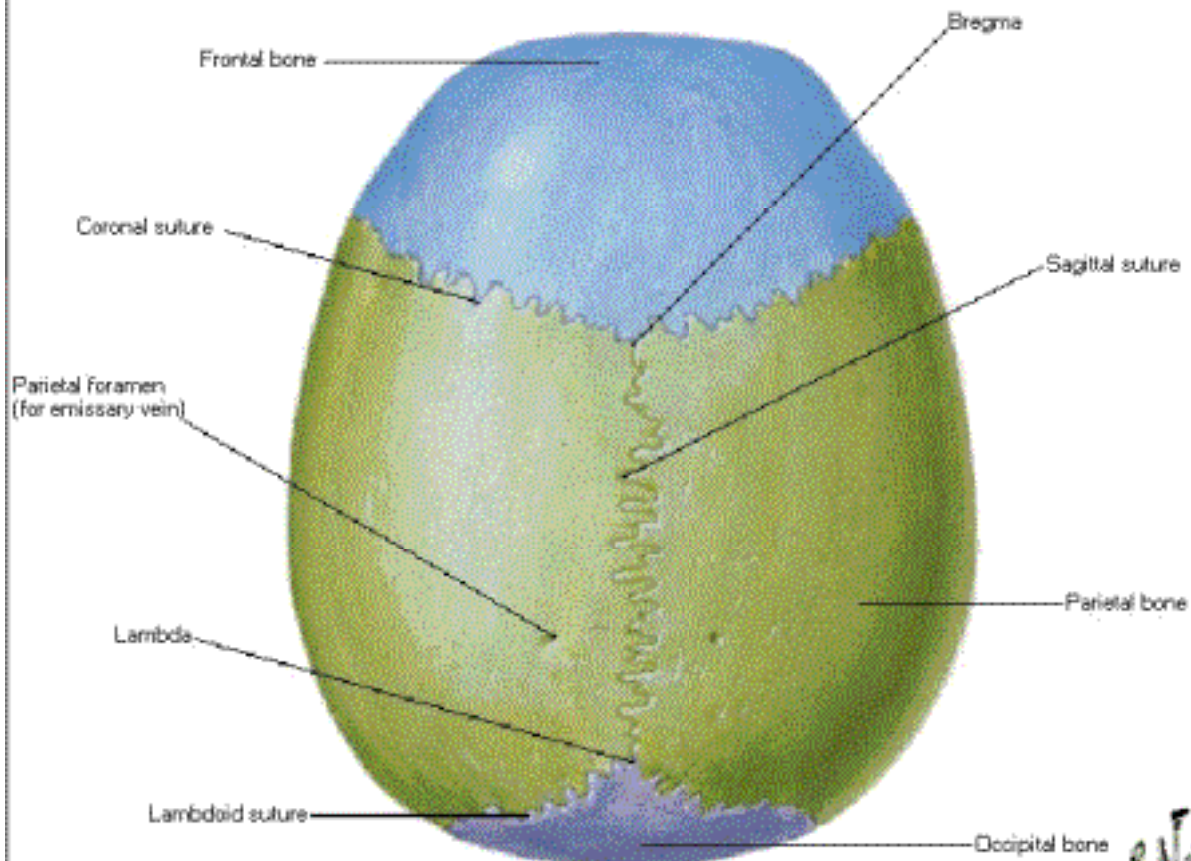
# Skull - Nasal Conchae Exposed

## Sagittal Section



# Calvaria

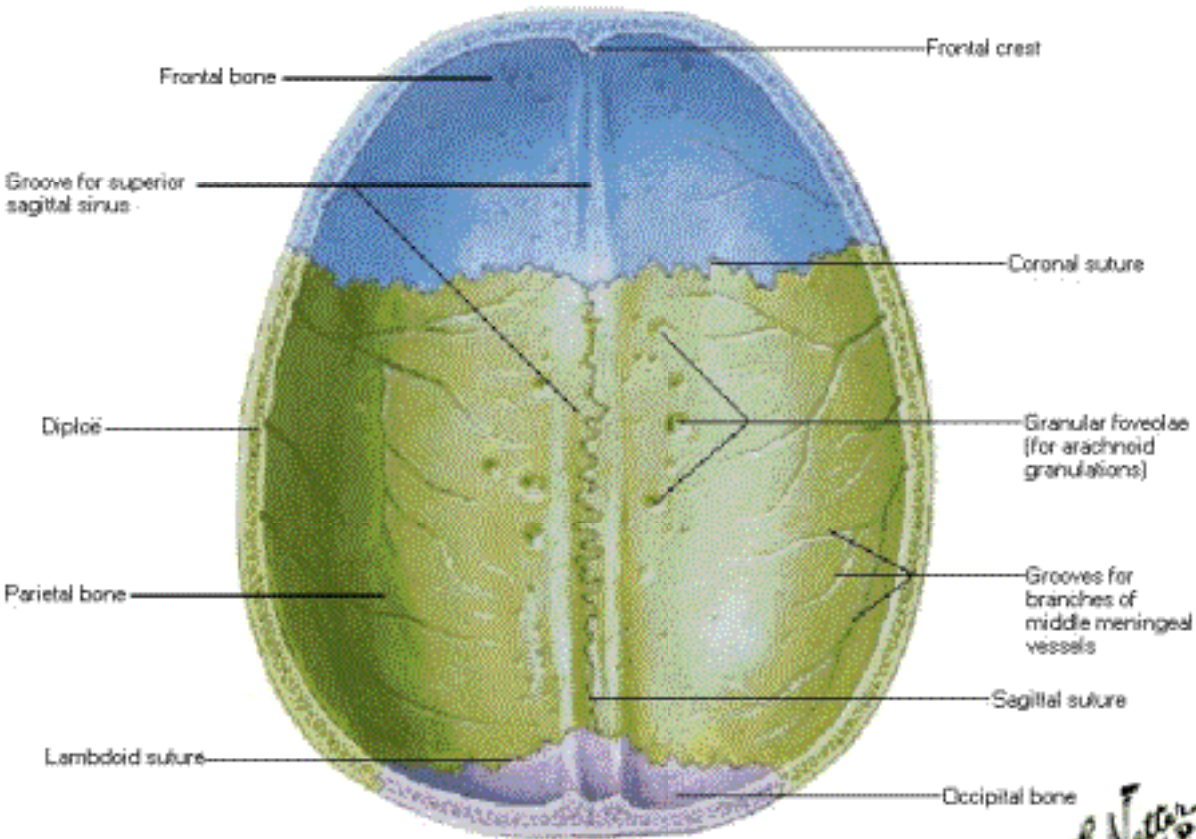
## Superior View



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# Calvaria

## Inferior View

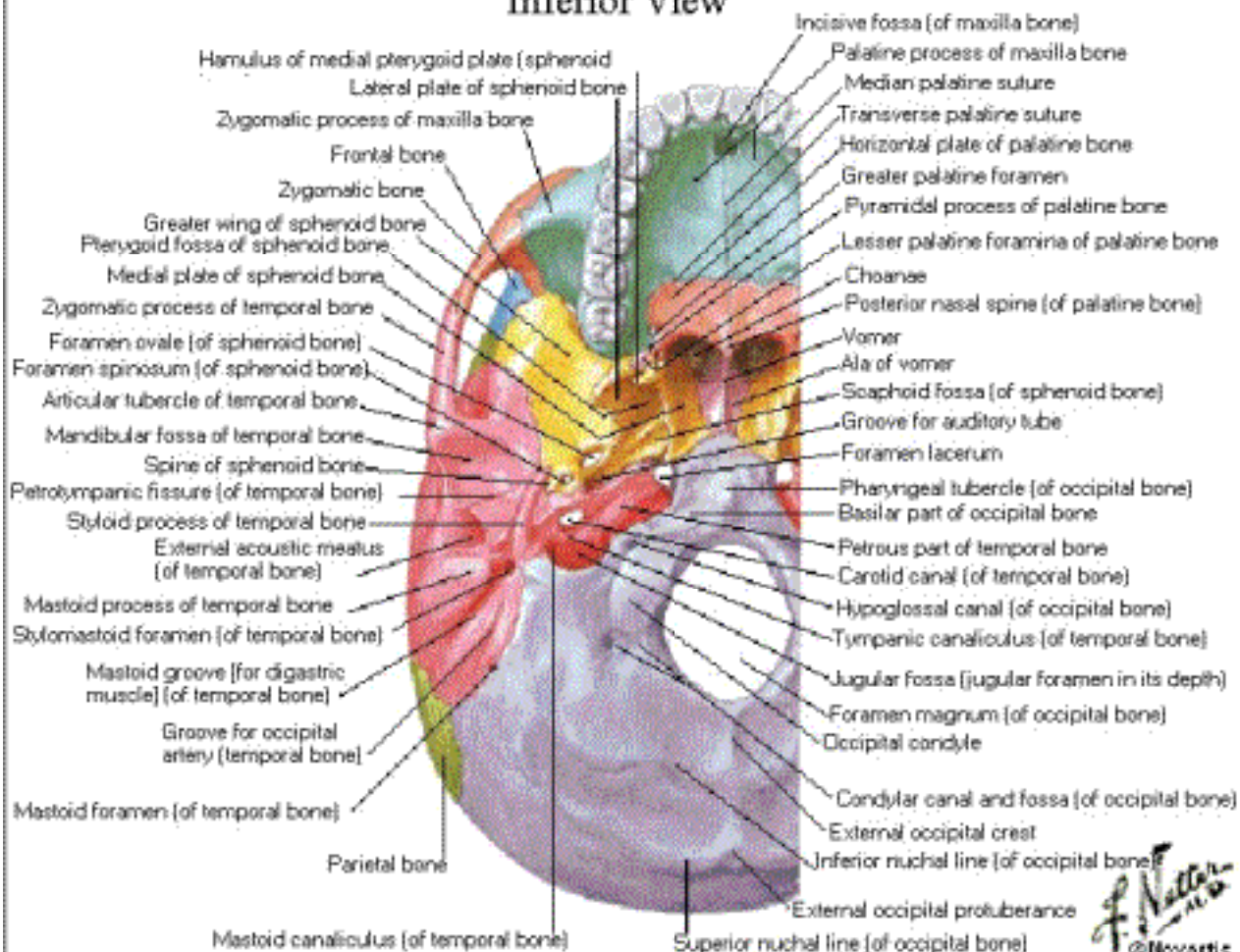


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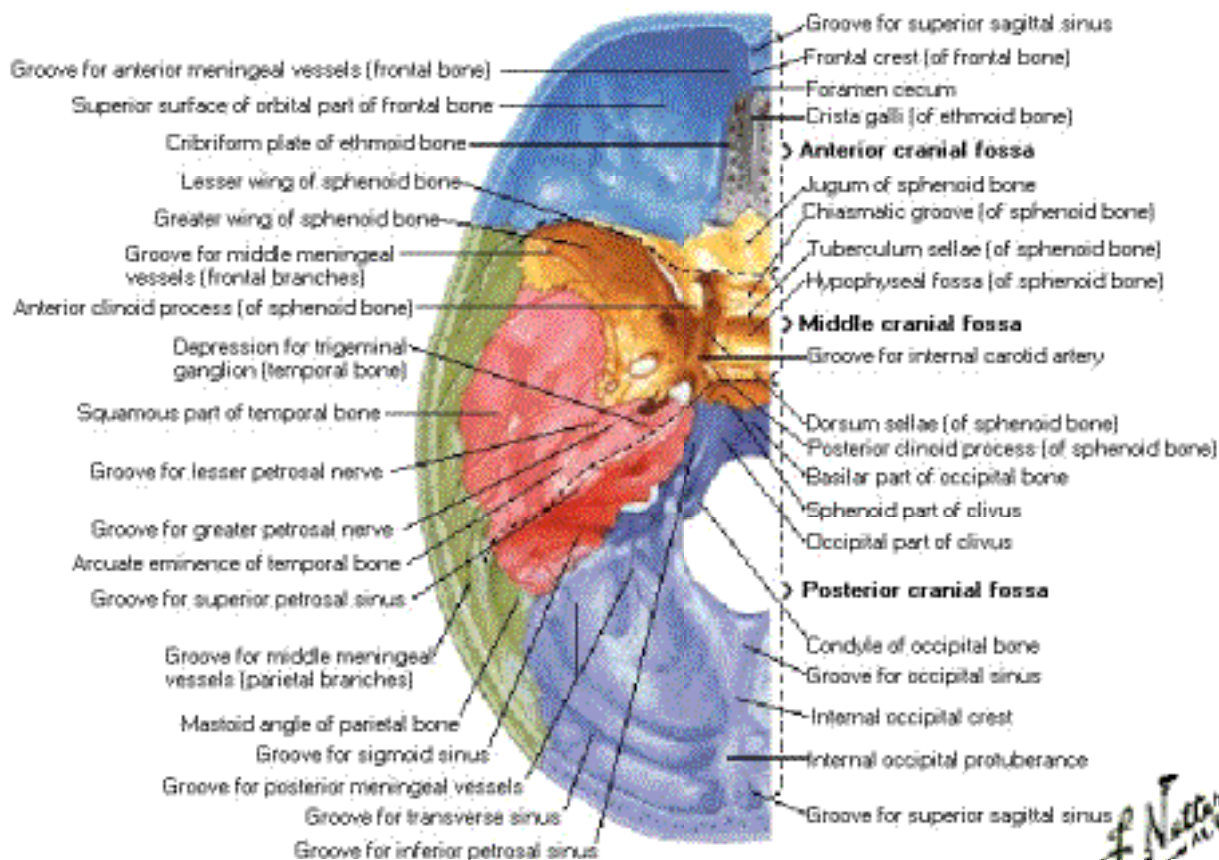
# Cranial Base

## Inferior View



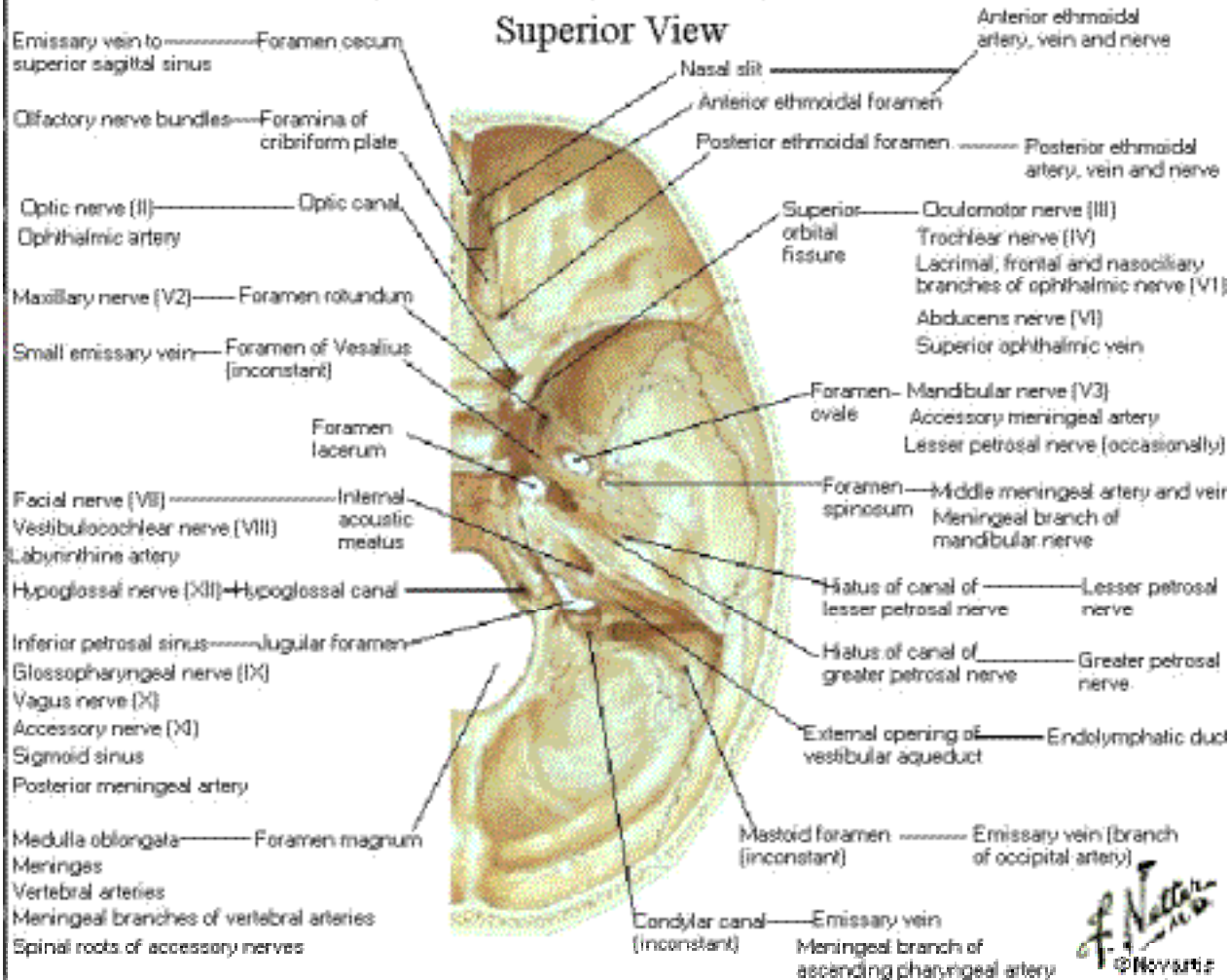
# Bones of Cranial Base

## Superior View



# Foramina of Cranial Base

## Superior View

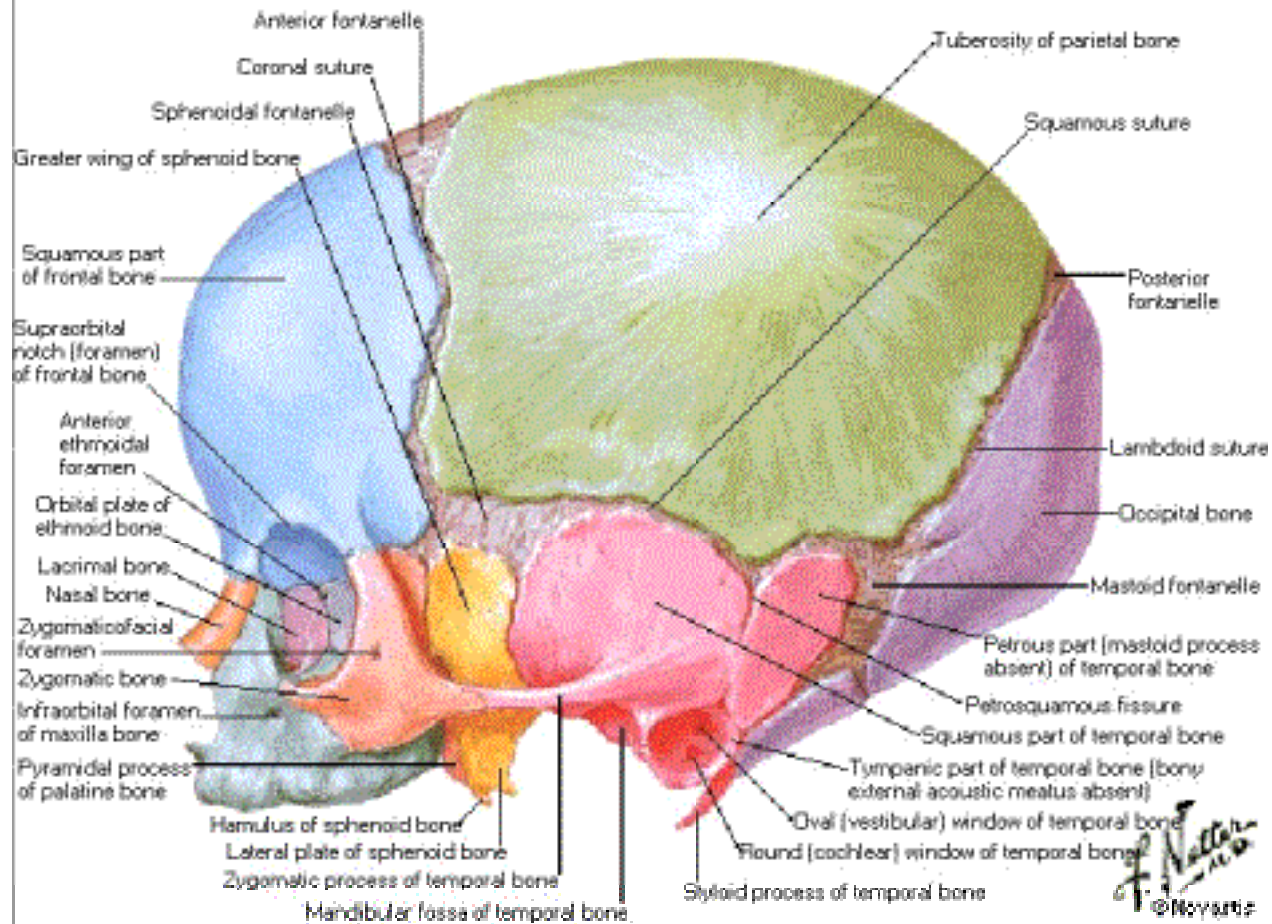


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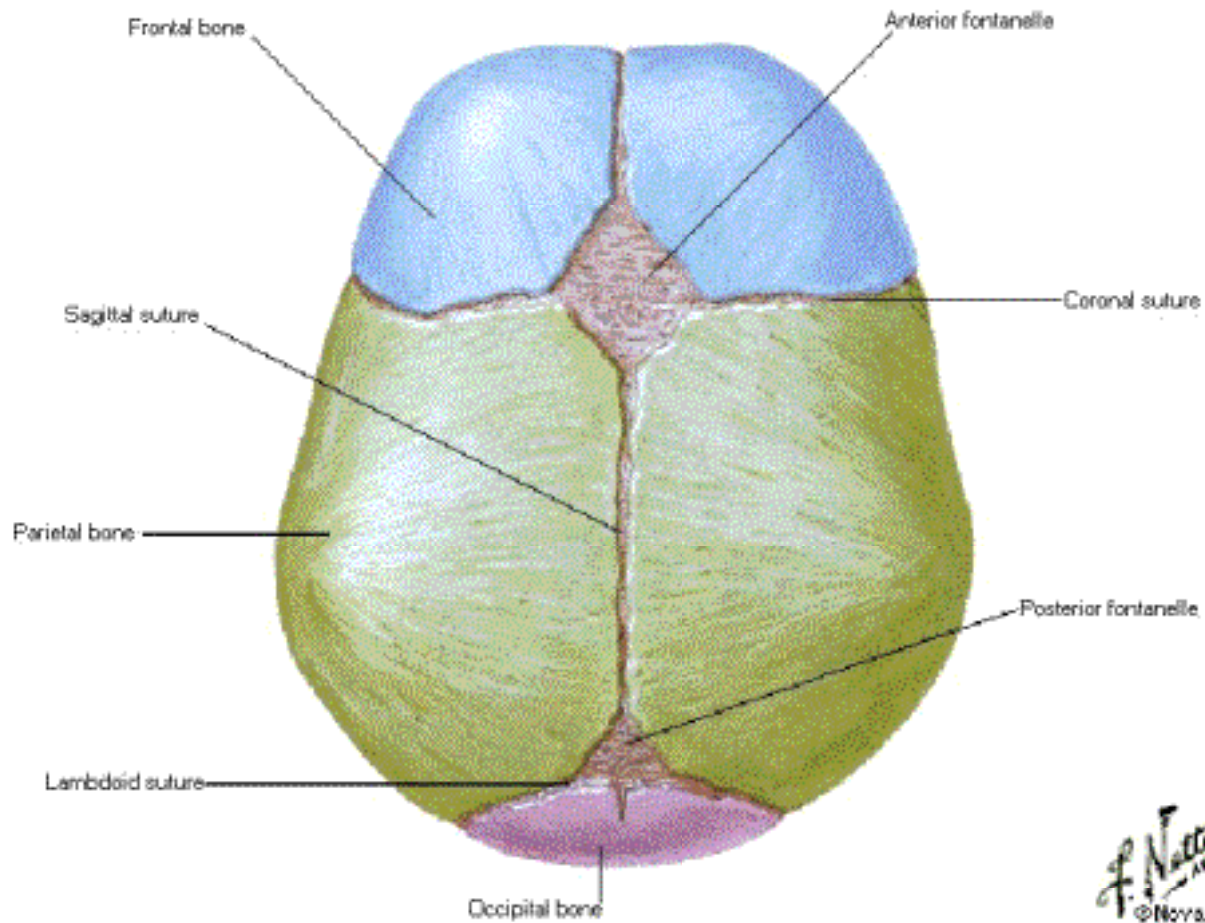


# Skull of Newborn

## Lateral View

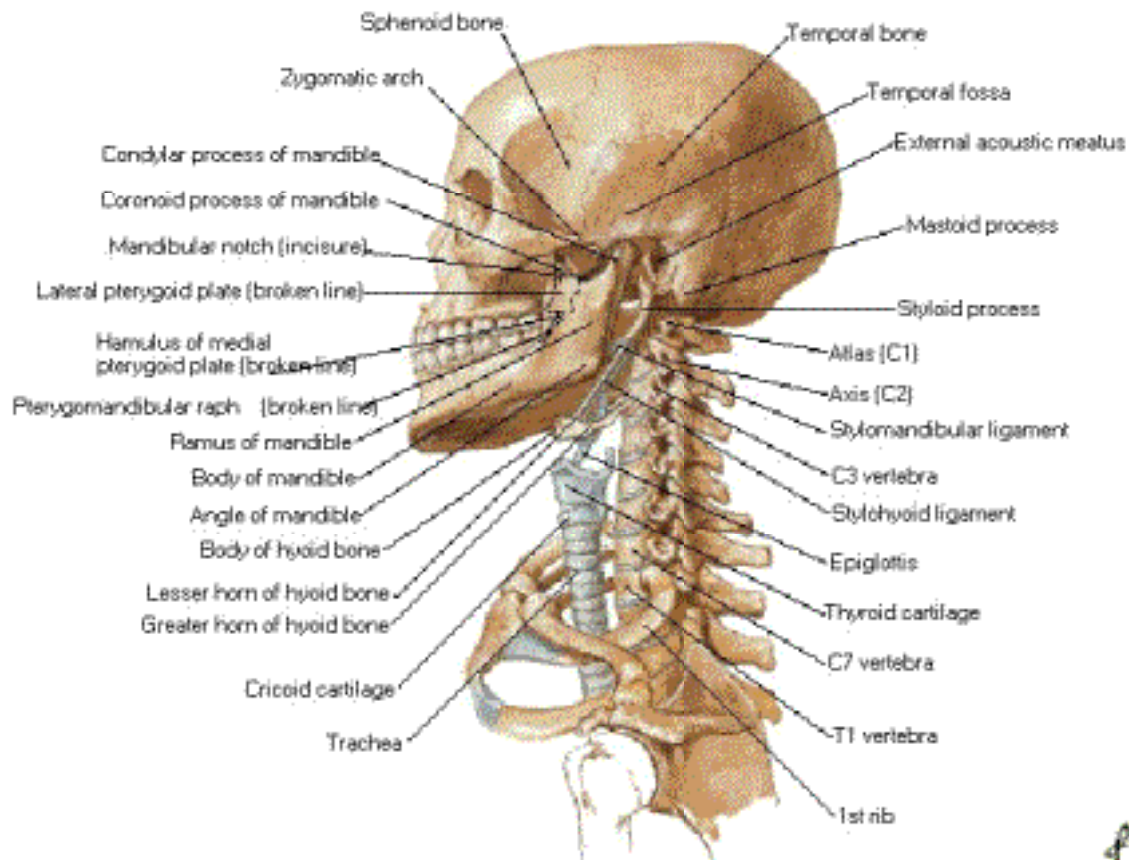


# Skull of Newborn Superior View



# Bony Framework of Head and Neck

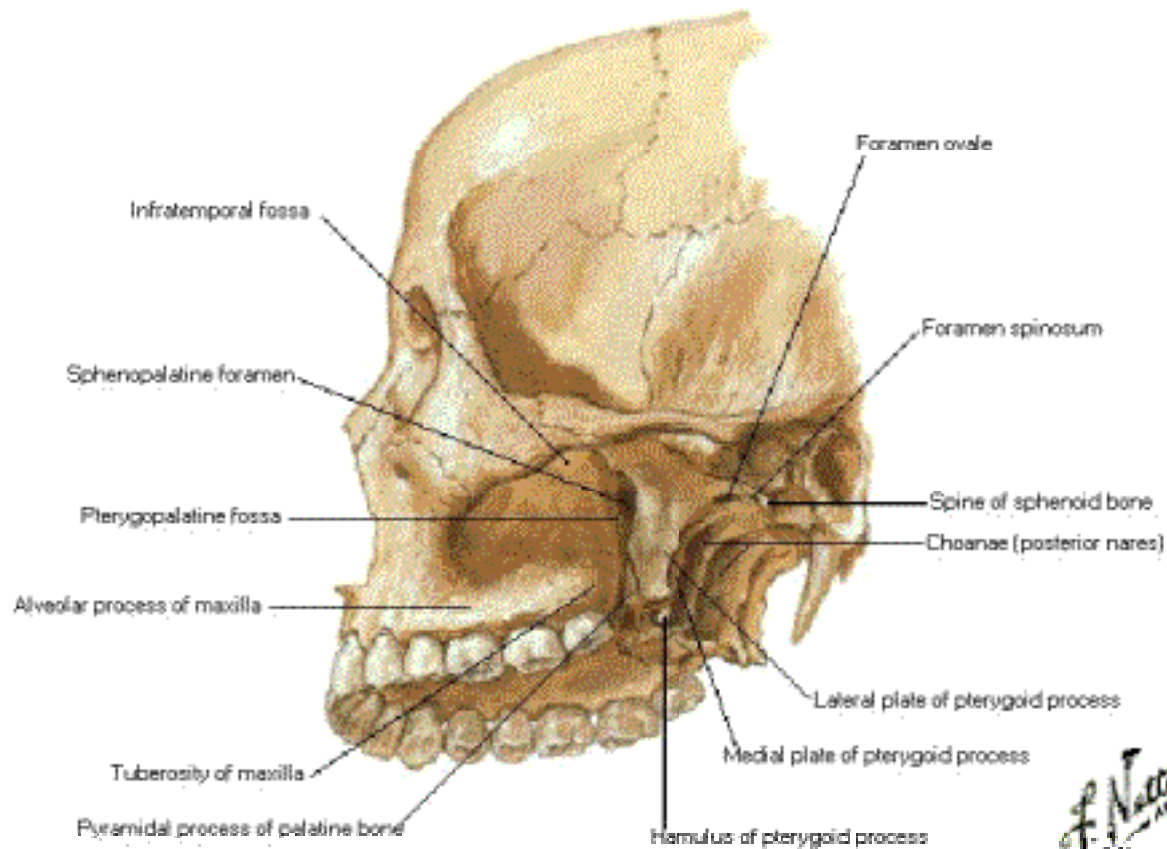
## Lateral View





# Bony Framework of Head - Mandible Removed

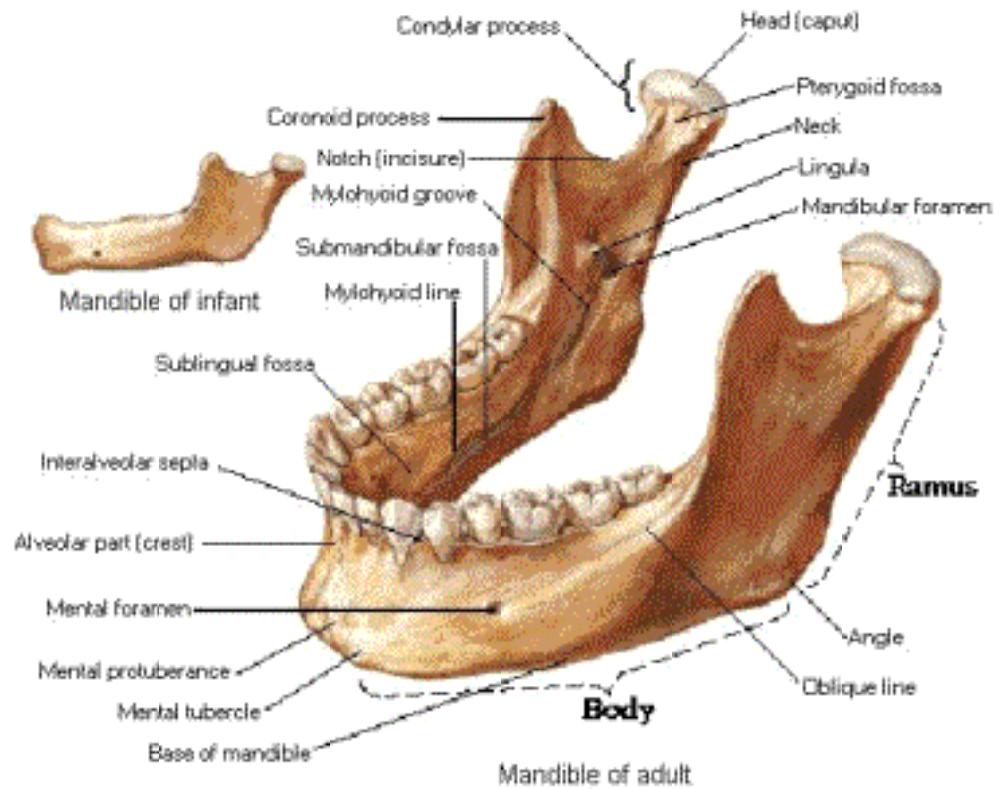
## Lateral View



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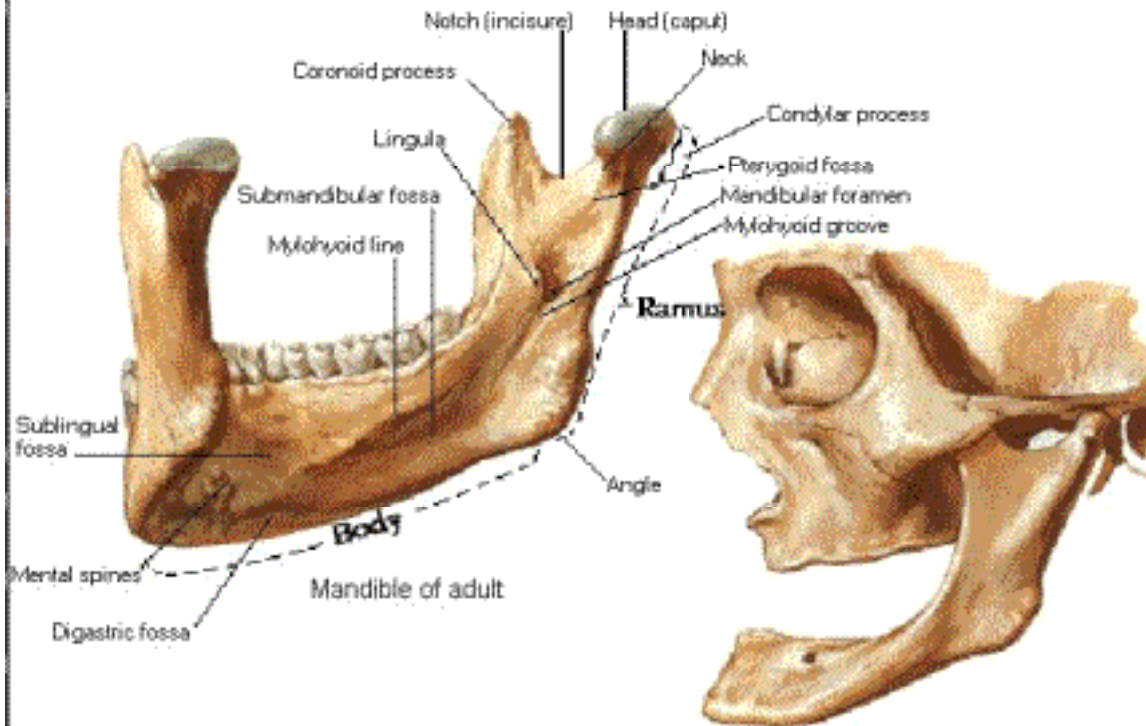
# Mandible

## Anterolateral Superior View



# Mandible

## Left Posterior View



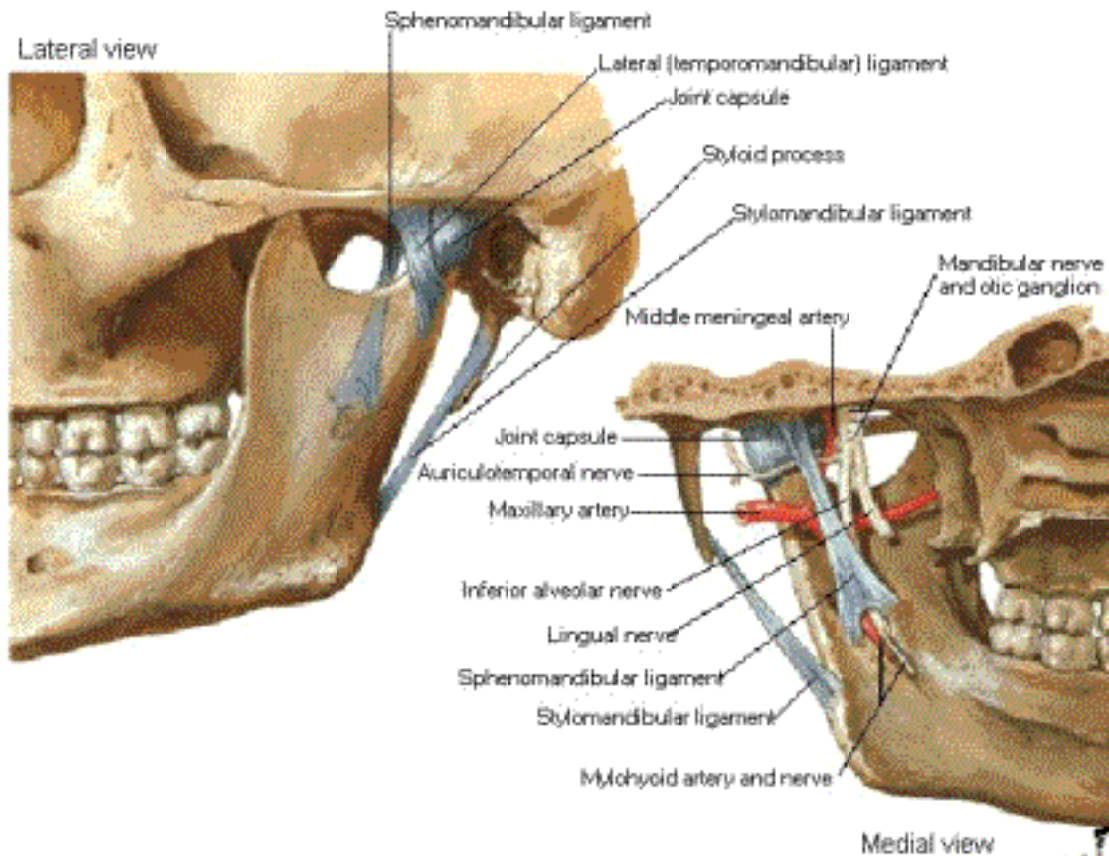
Mandible of aged person  
(edentulous)

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# Temporomandibular Joint

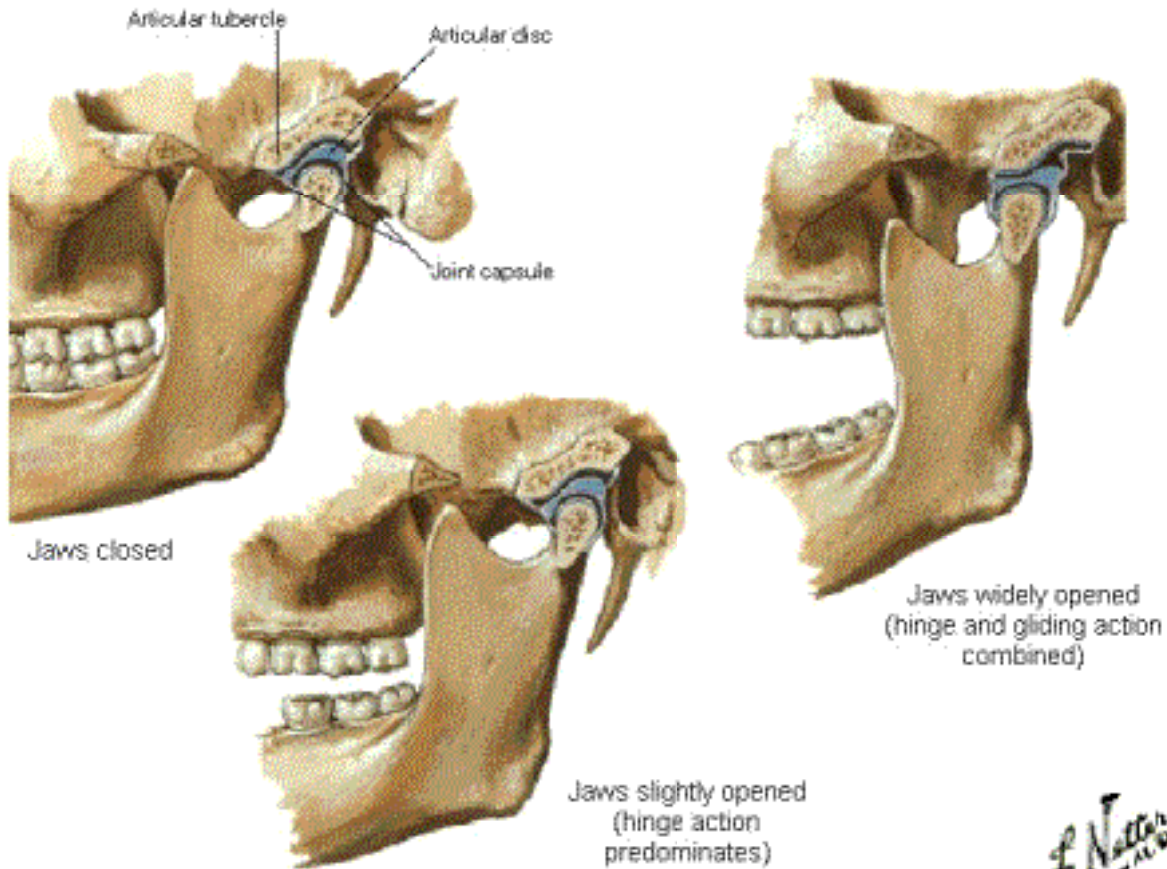
## Lateral and Medial Views



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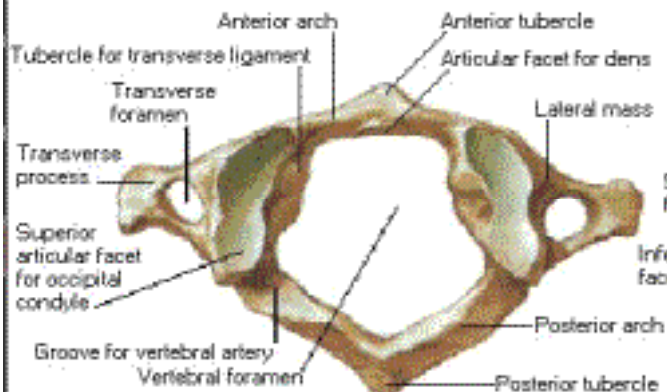
# Temporomandibular Joint

## Joint Action

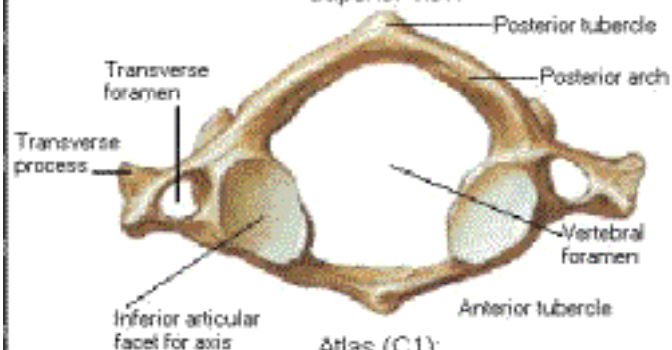


# Cervical Vertebrae

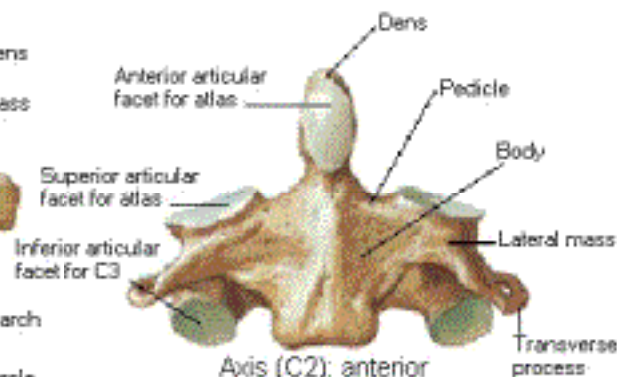
## Atlas and Axis



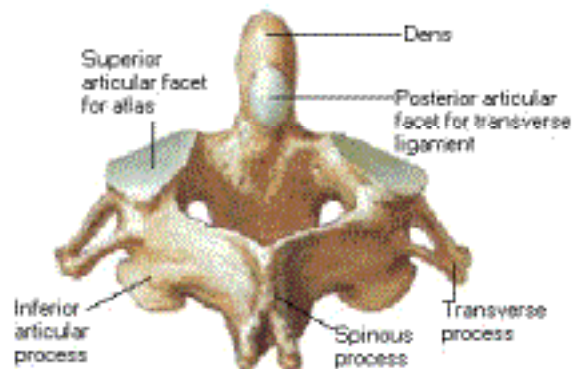
Atlas (C1):  
superior view



Atlas (C1):  
inferior view



Axis (C2): anterior  
view

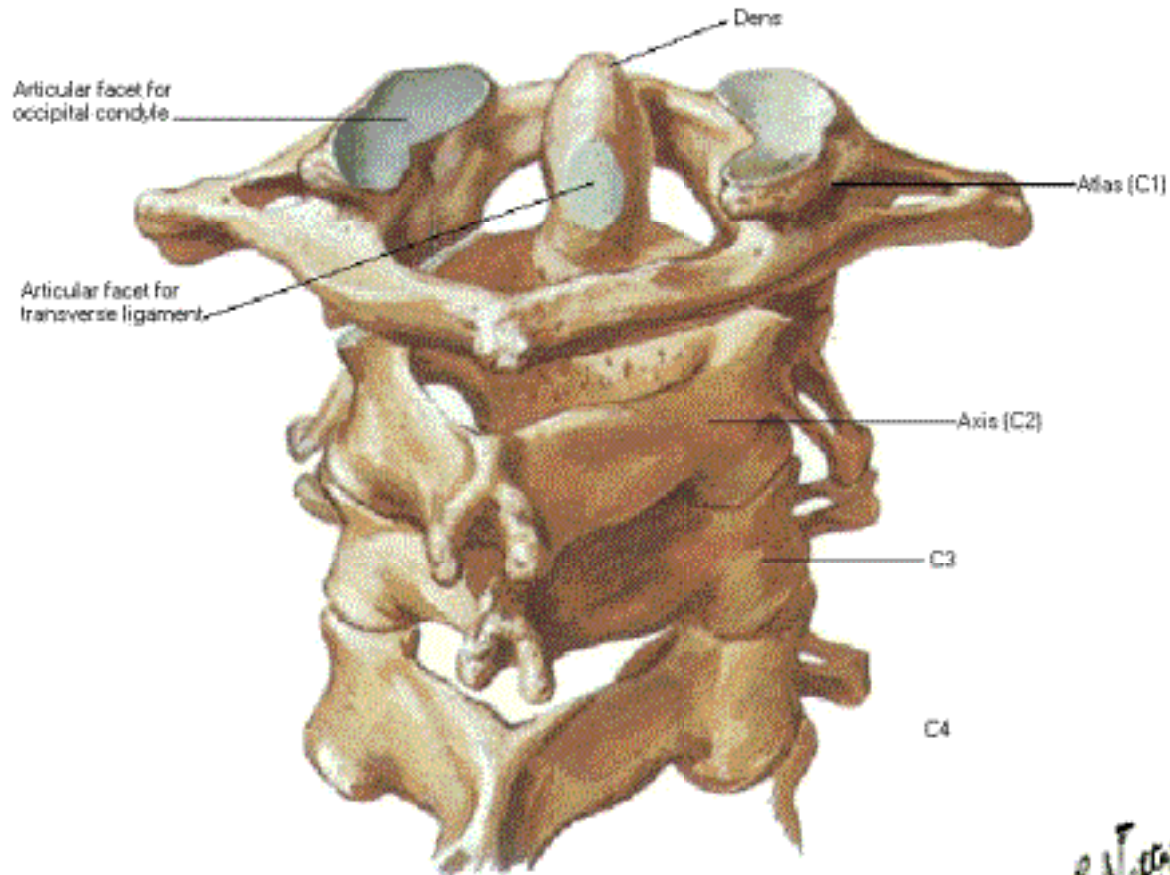


Axis (C2):  
posterosuperior view

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# Cervical Vertebrae [C1-C4], Assembled

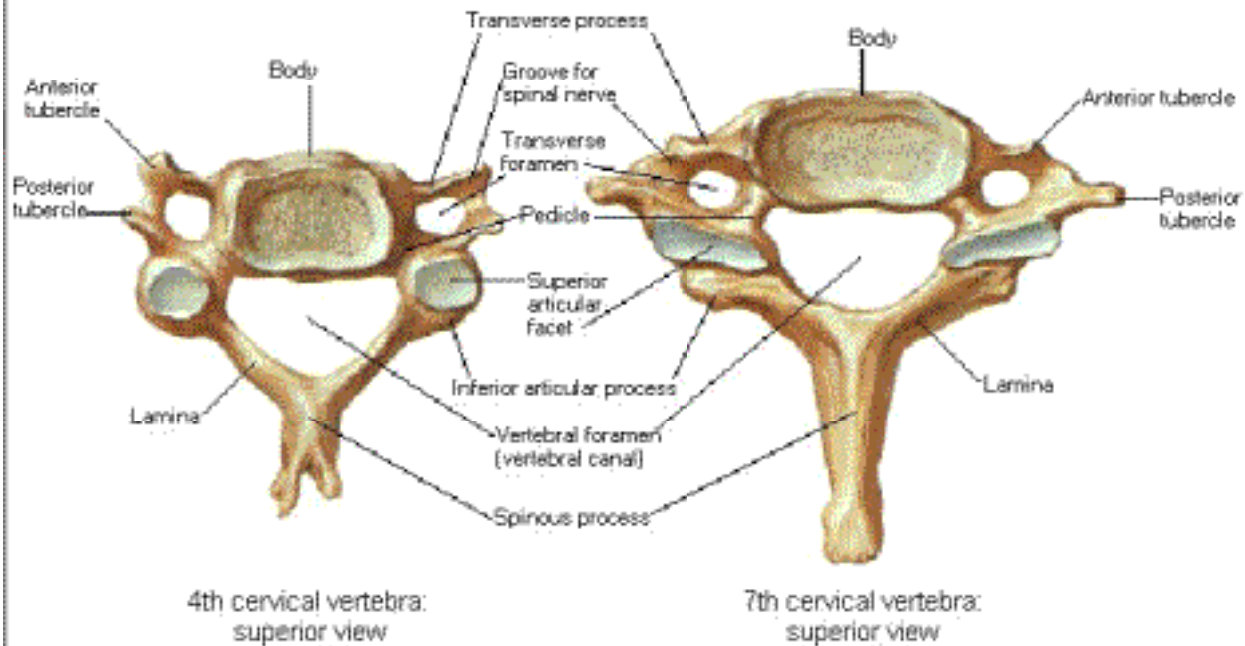
## Posterosuperior View



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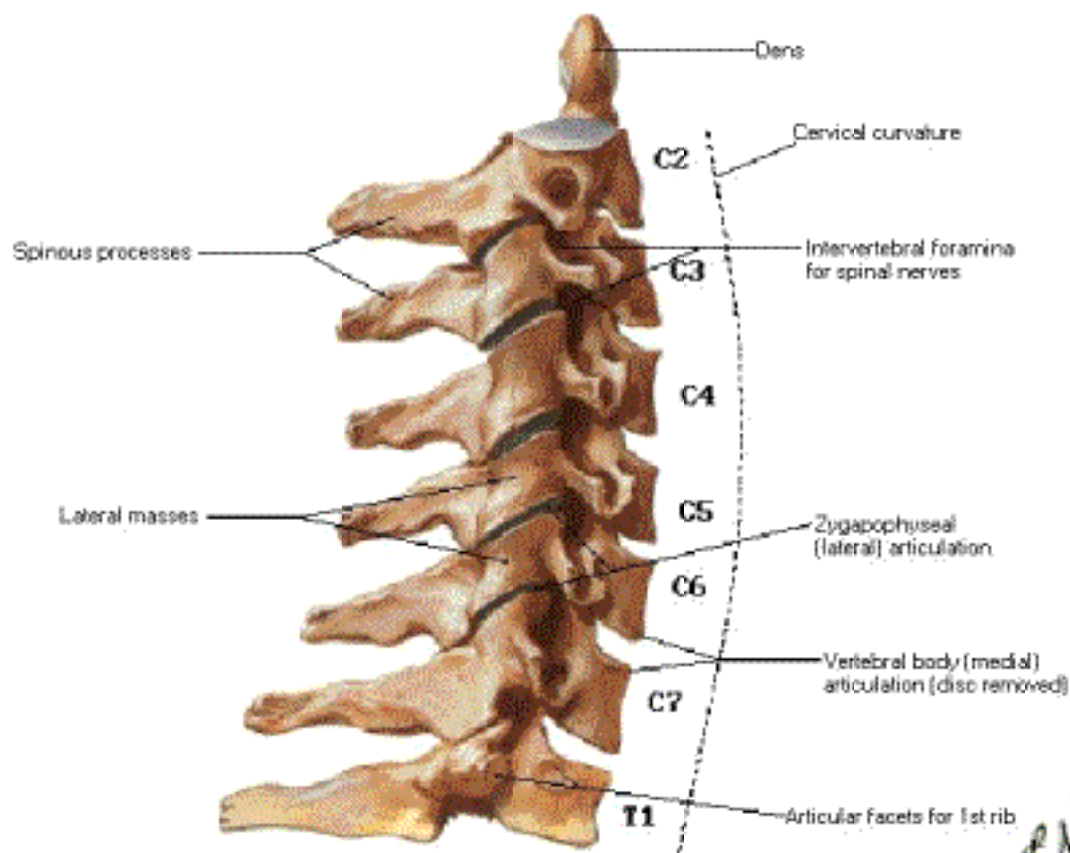


## Cervical Vertebrae [C4 and C7] Superior Views



# Cervical Vertebrae [C2-T1], Assembled

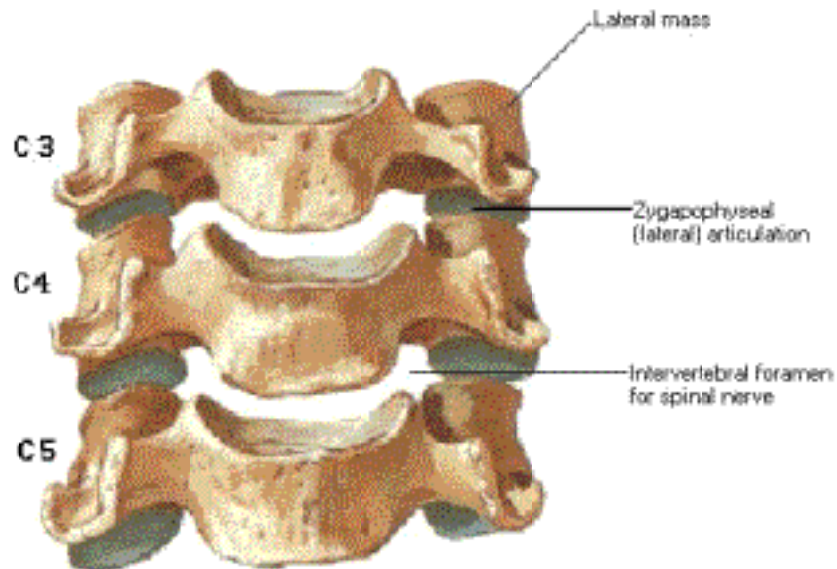
## Right Lateral View



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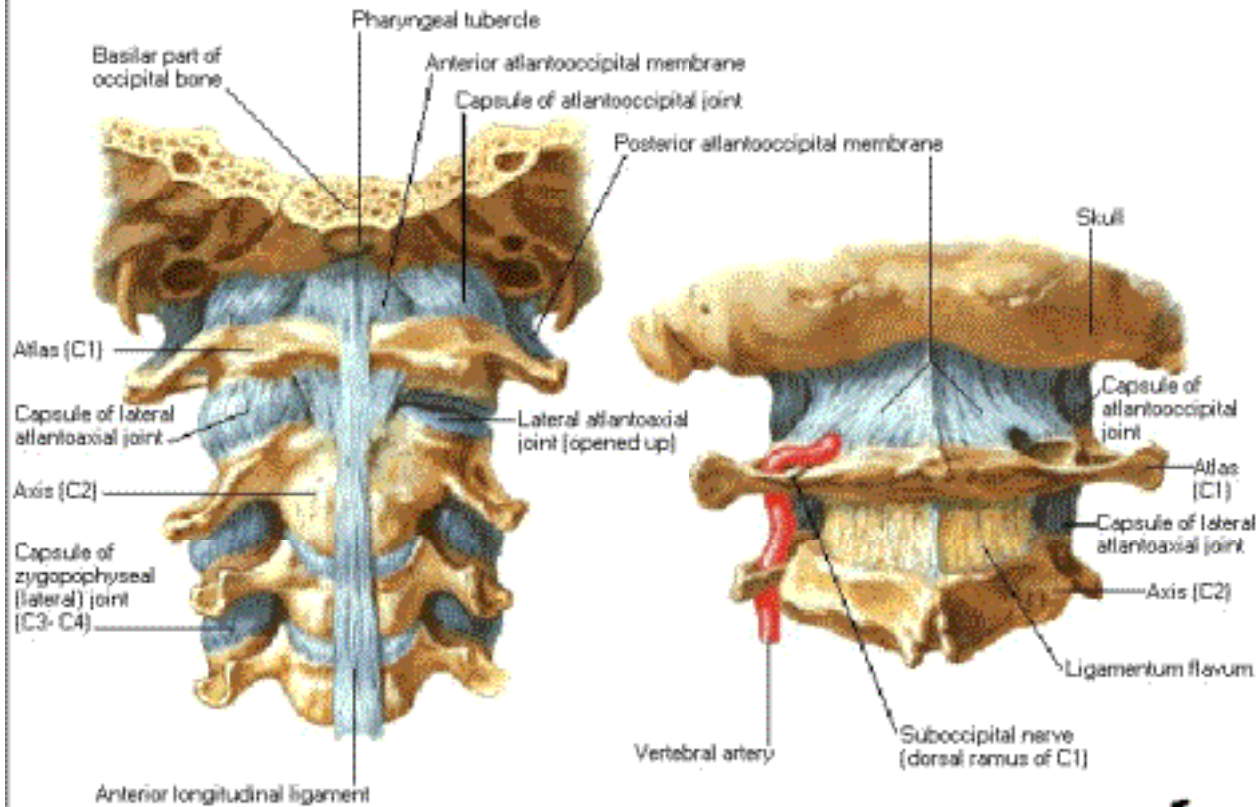
# Cervical Vertebrae [C3-C5], Assembled

## Anterior View



# External Craniocervical Ligaments

## Anterior and Posterior Views

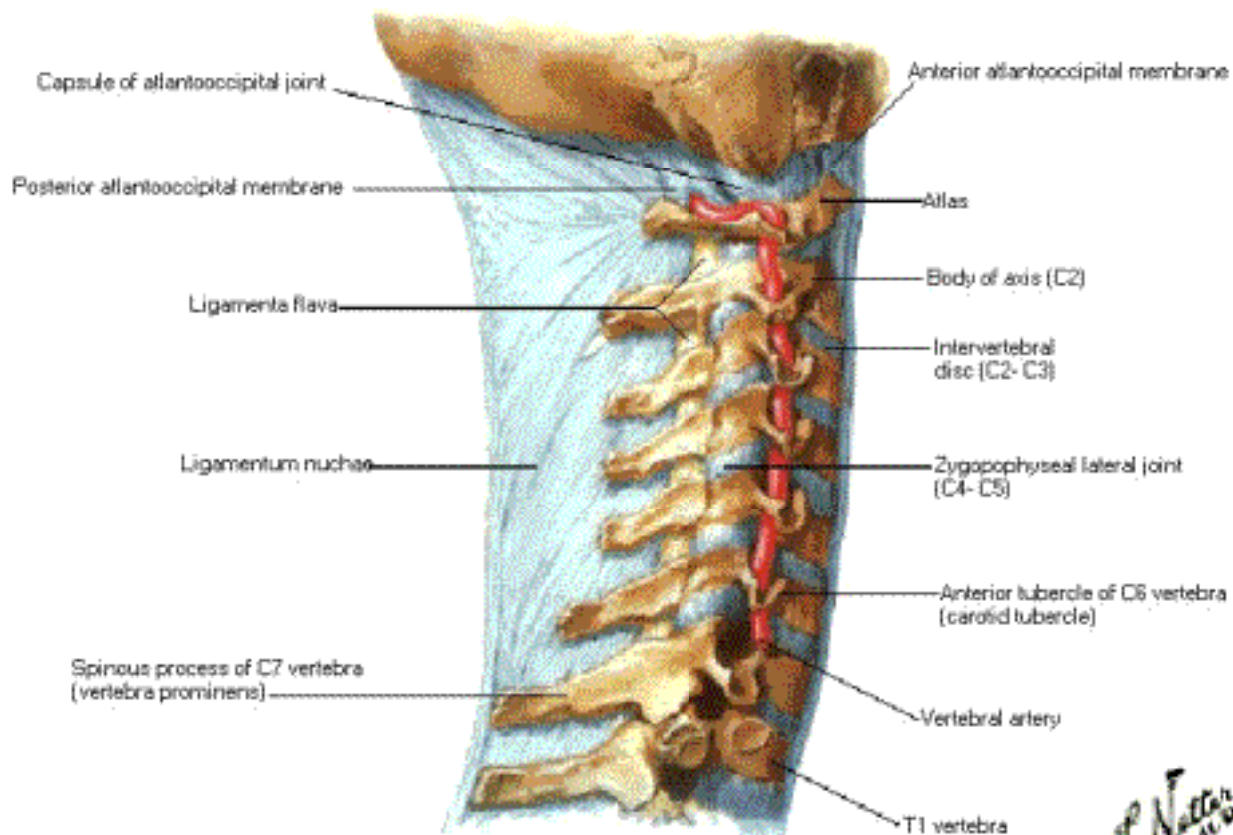


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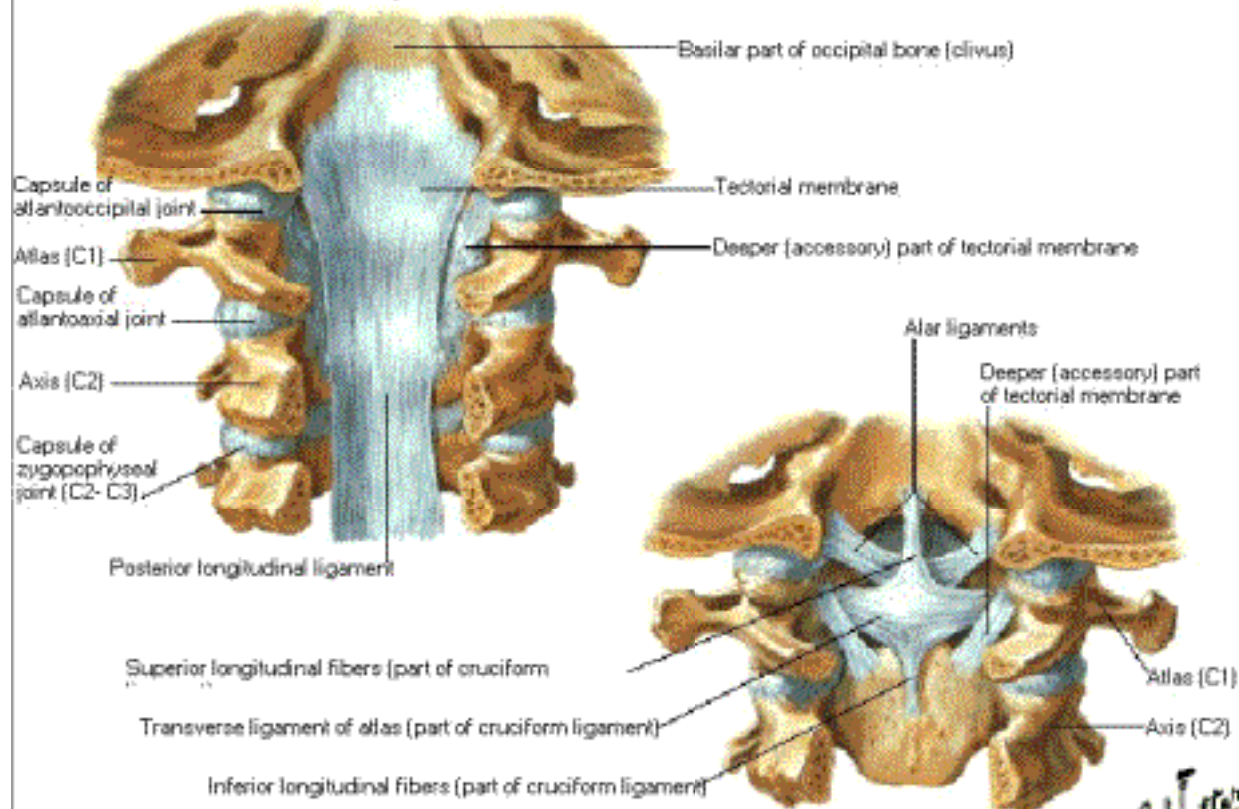
# External Craniocervical Ligaments

## Right Lateral View



## Internal Craniocervical Ligaments

Upper part of vertebral canal with spinous processes and parts of vertebral arches removed to expose ligaments on posterior vertebral bodies: posterior view

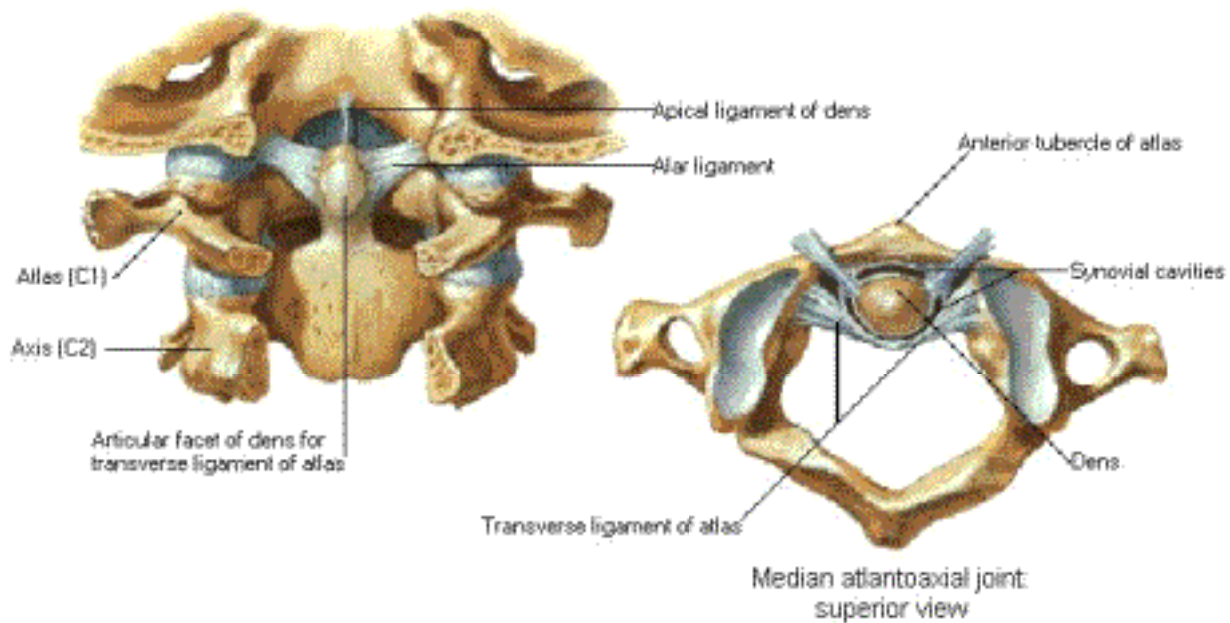


Principal part of tectorial membrane removed to expose deeper ligaments: posterior view

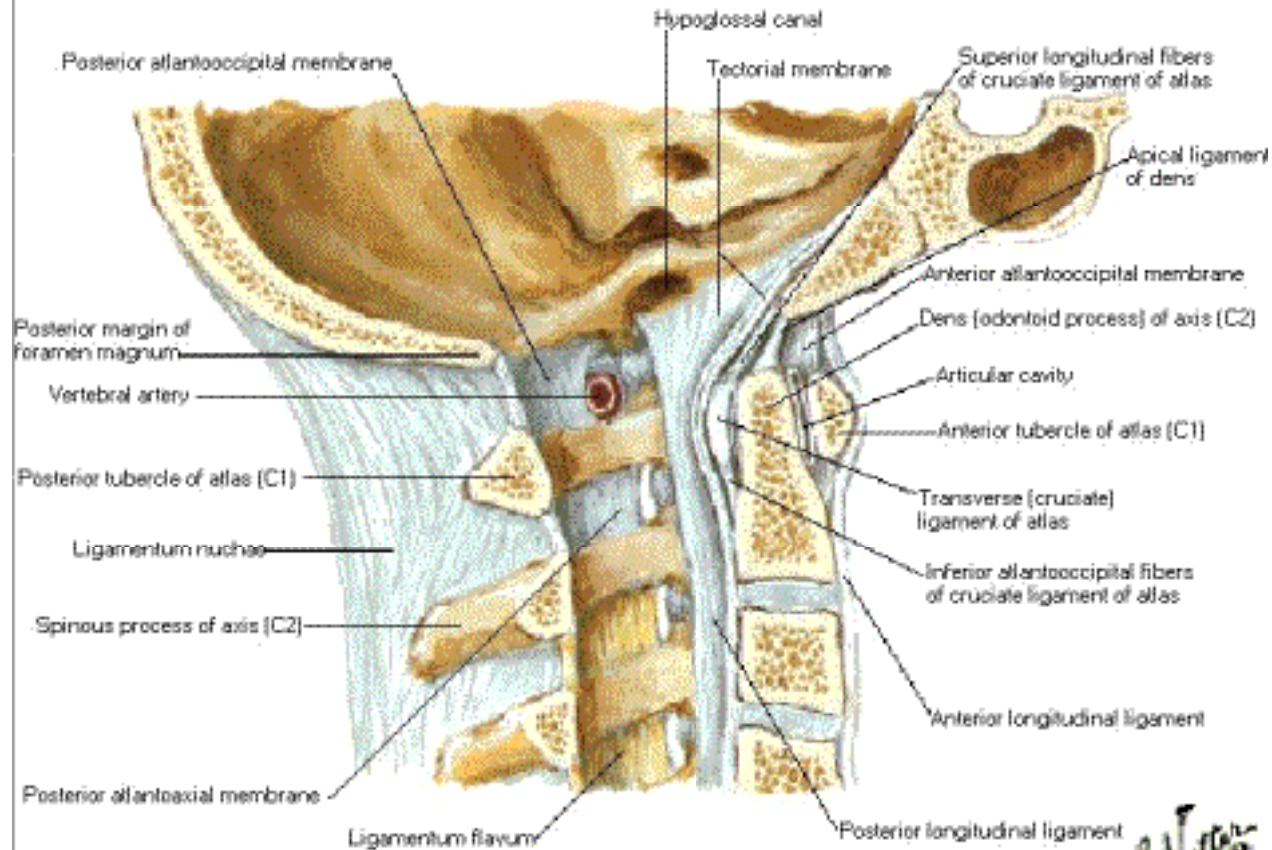
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## Internal Craniocervical Ligaments [Continued]

Cruciform ligament removed to show deepest ligaments: posterior view



# Atlantooccipital Junction

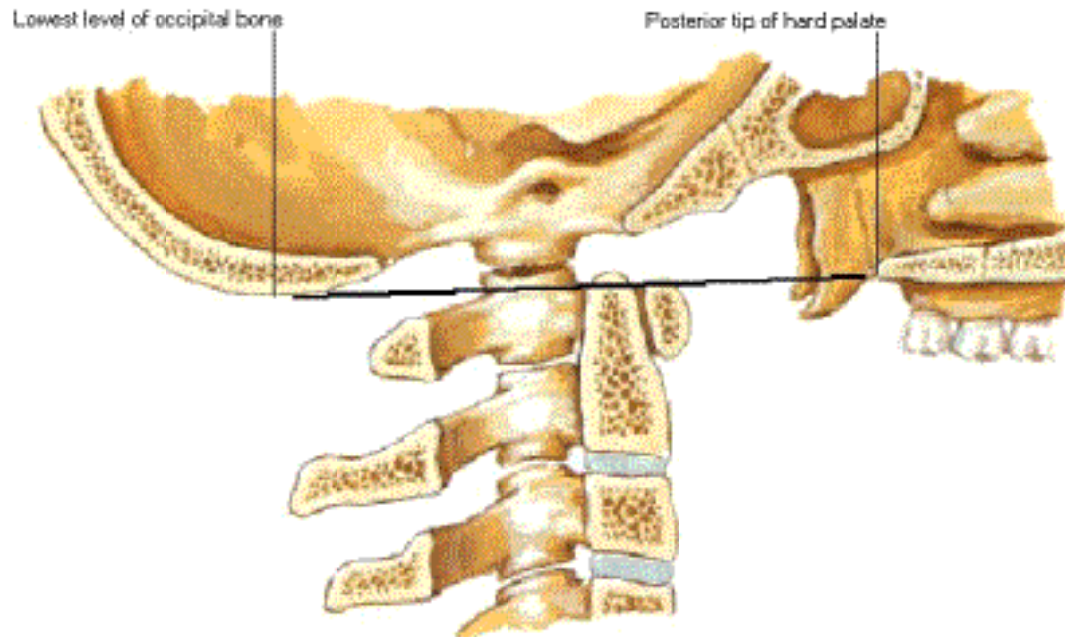


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# Atlantooccipital Junction

## 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

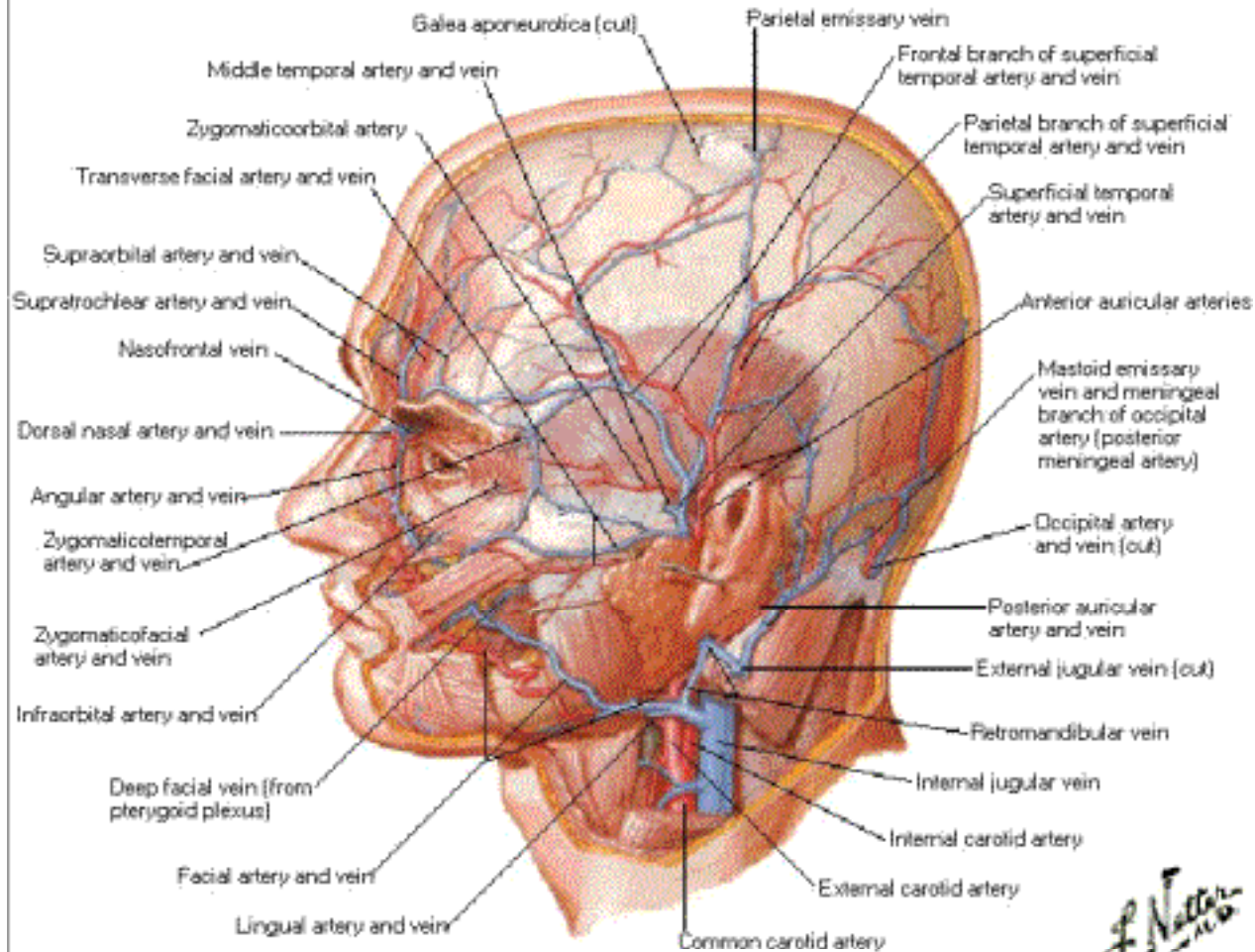


Hypoplastic dens  
(odontoid process)



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

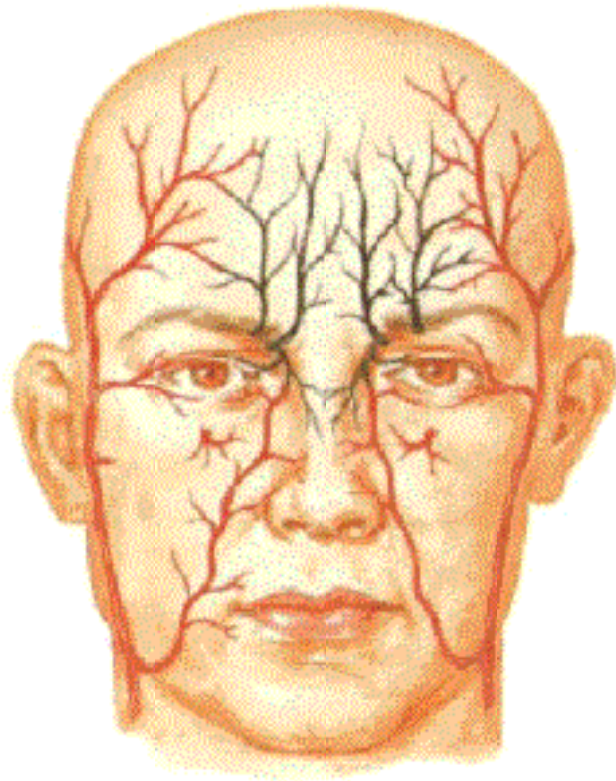
# Superficial Arteries and Veins of Face and Scalp



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## **Superficial Face**

Sources of Arterial Supply

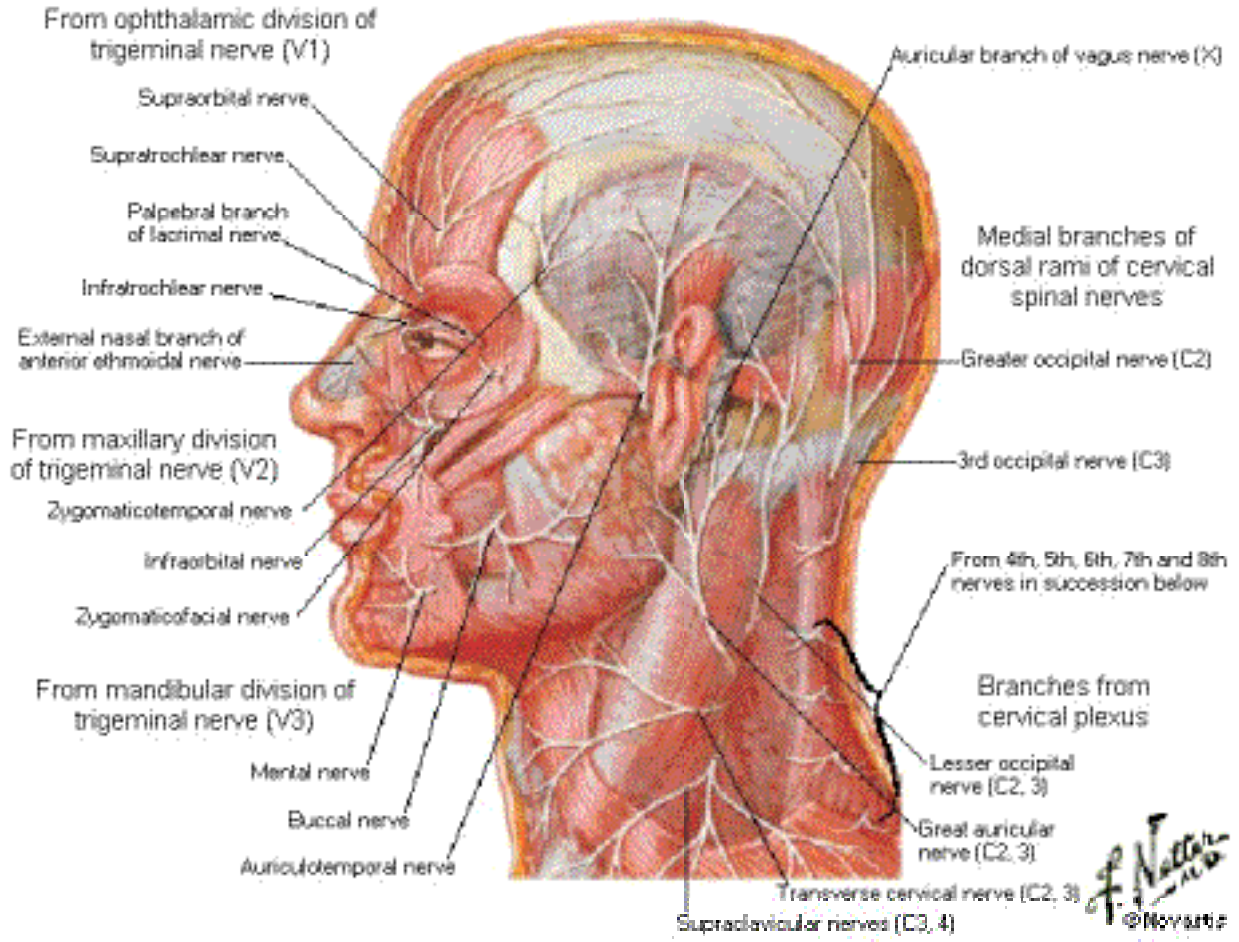


Black: from internal carotid artery (via ophthalmic artery)

Red: from external carotid artery

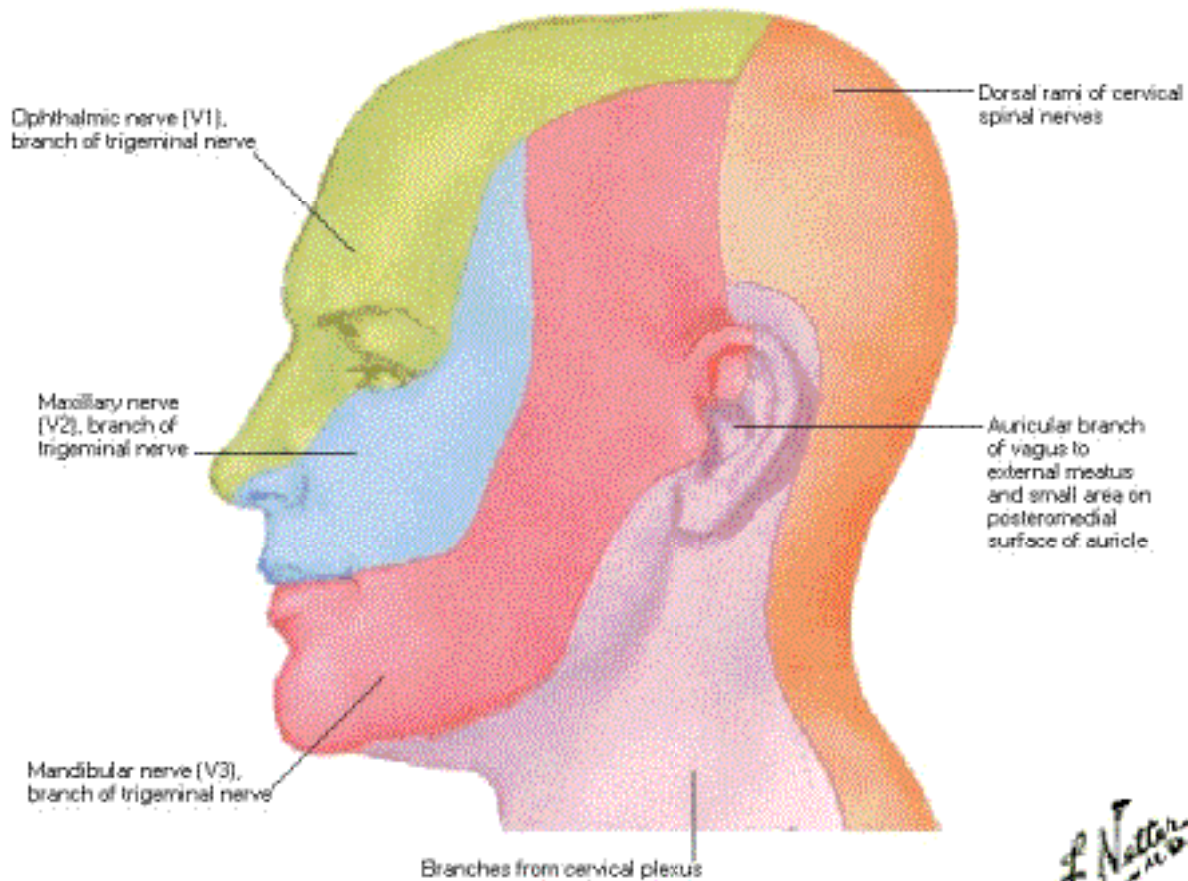


# Cutaneous Nerves of Head and Neck



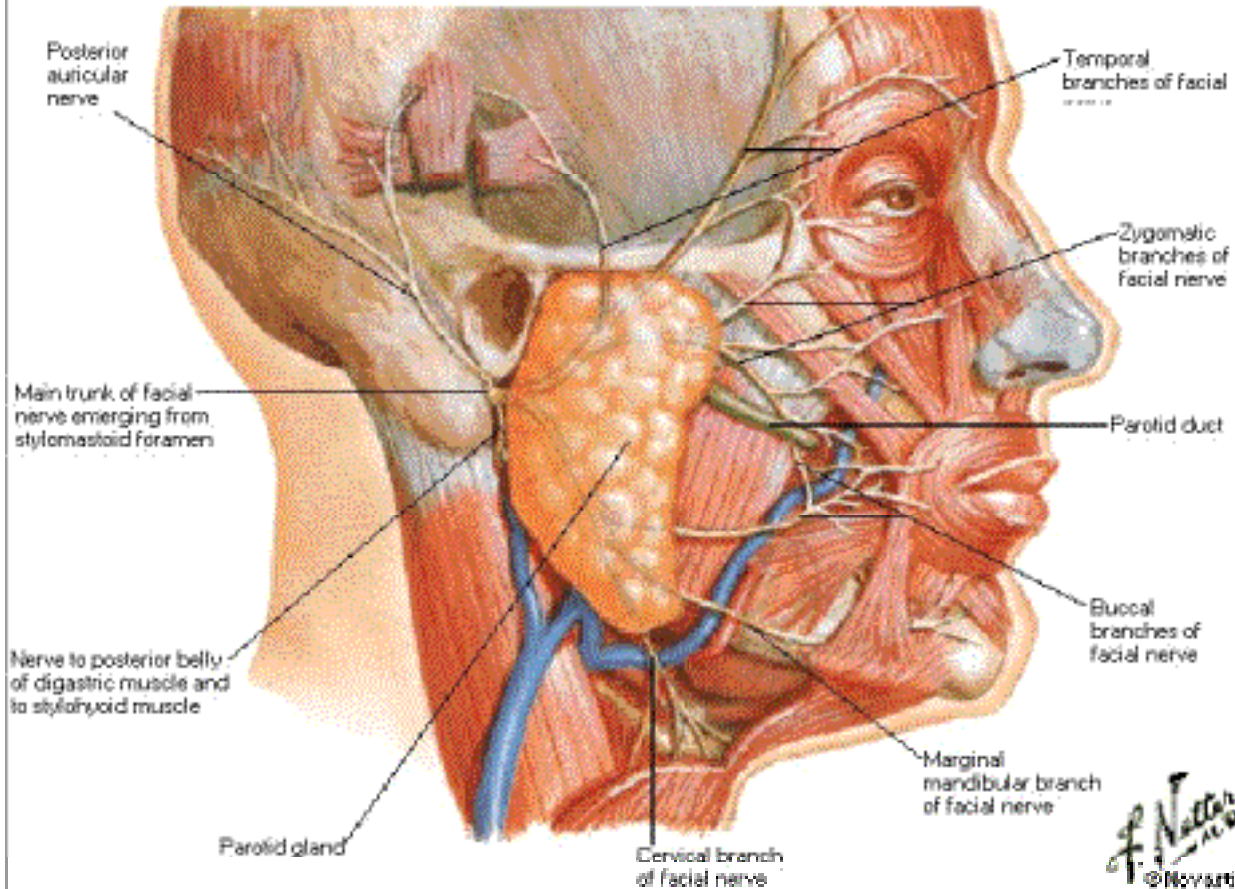
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# Dermatomes of Head and Neck

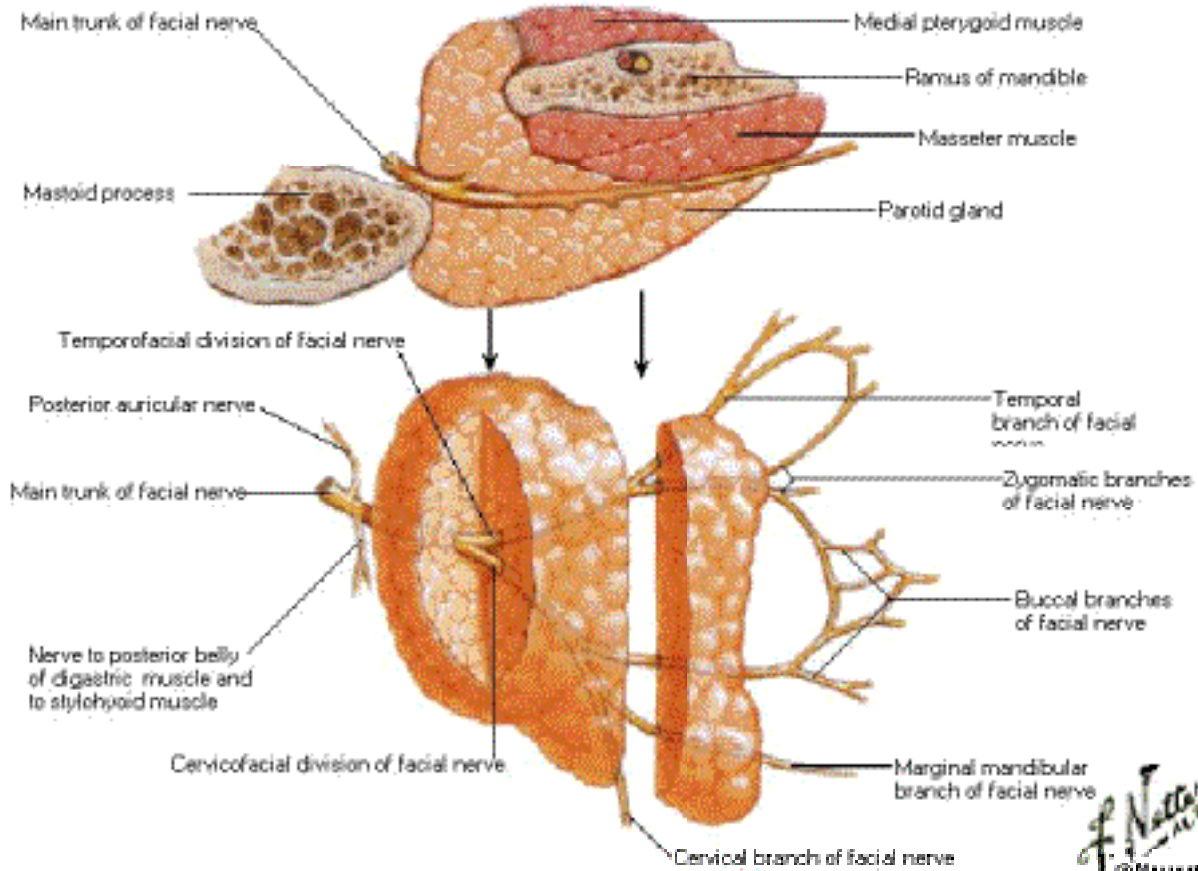


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# Facial Nerve Branches and Parotid Gland in Situ



# Facial Nerve Branches and Parotid Gland Sectioned

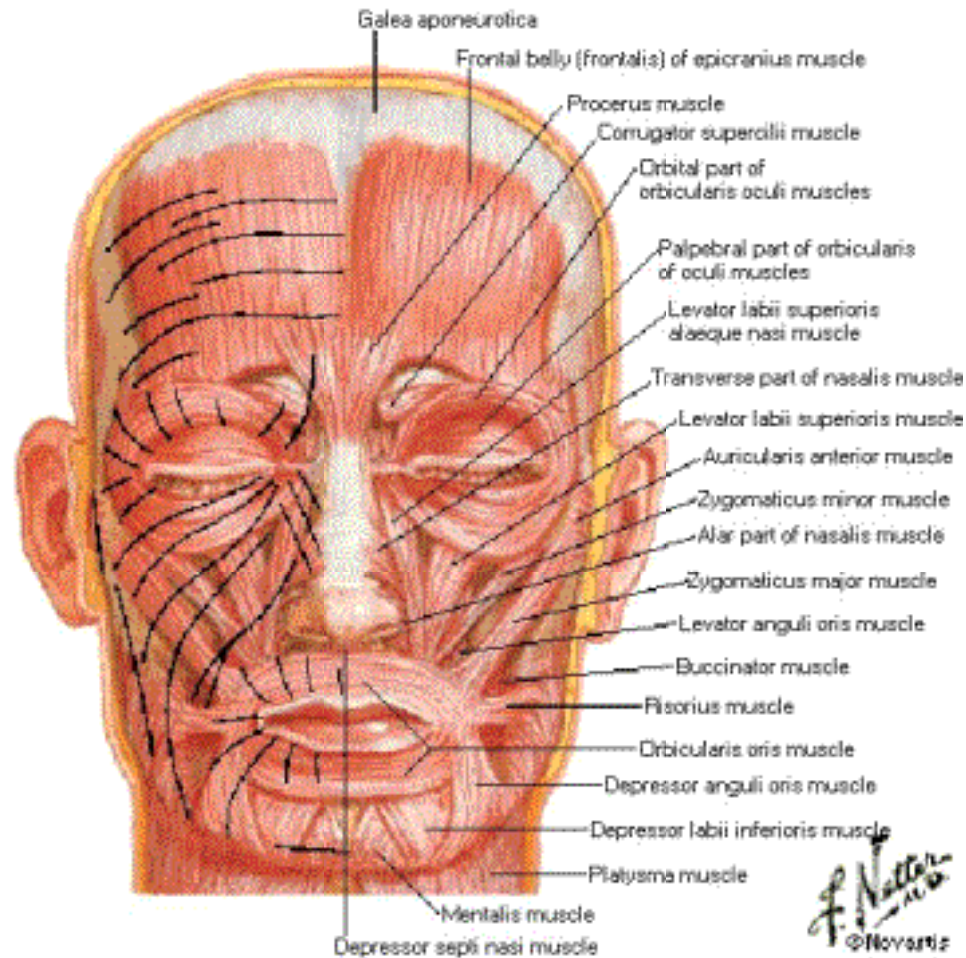


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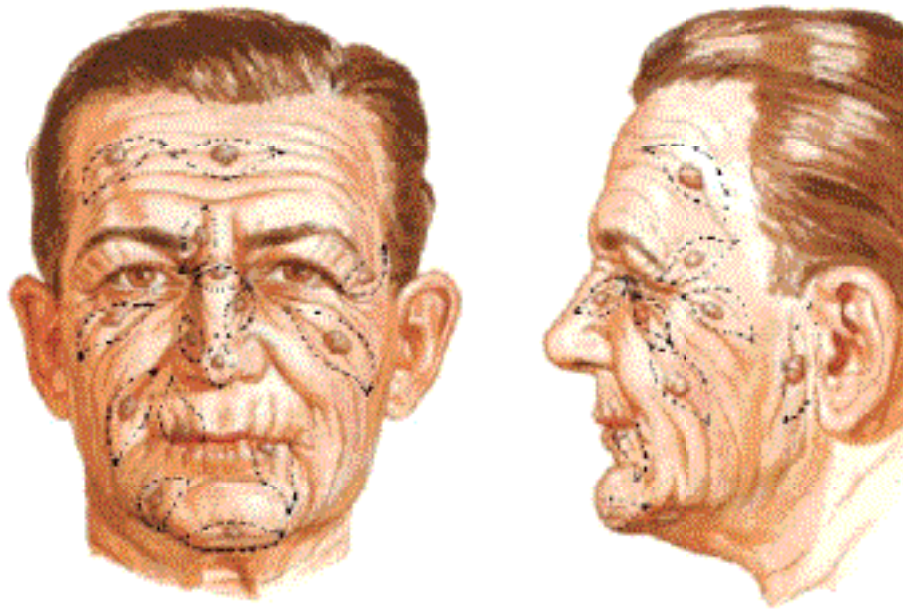
# Muscles of Facial Expression

## Anterior View



## Superficial Face

Course of Wrinkle Lines of Skin

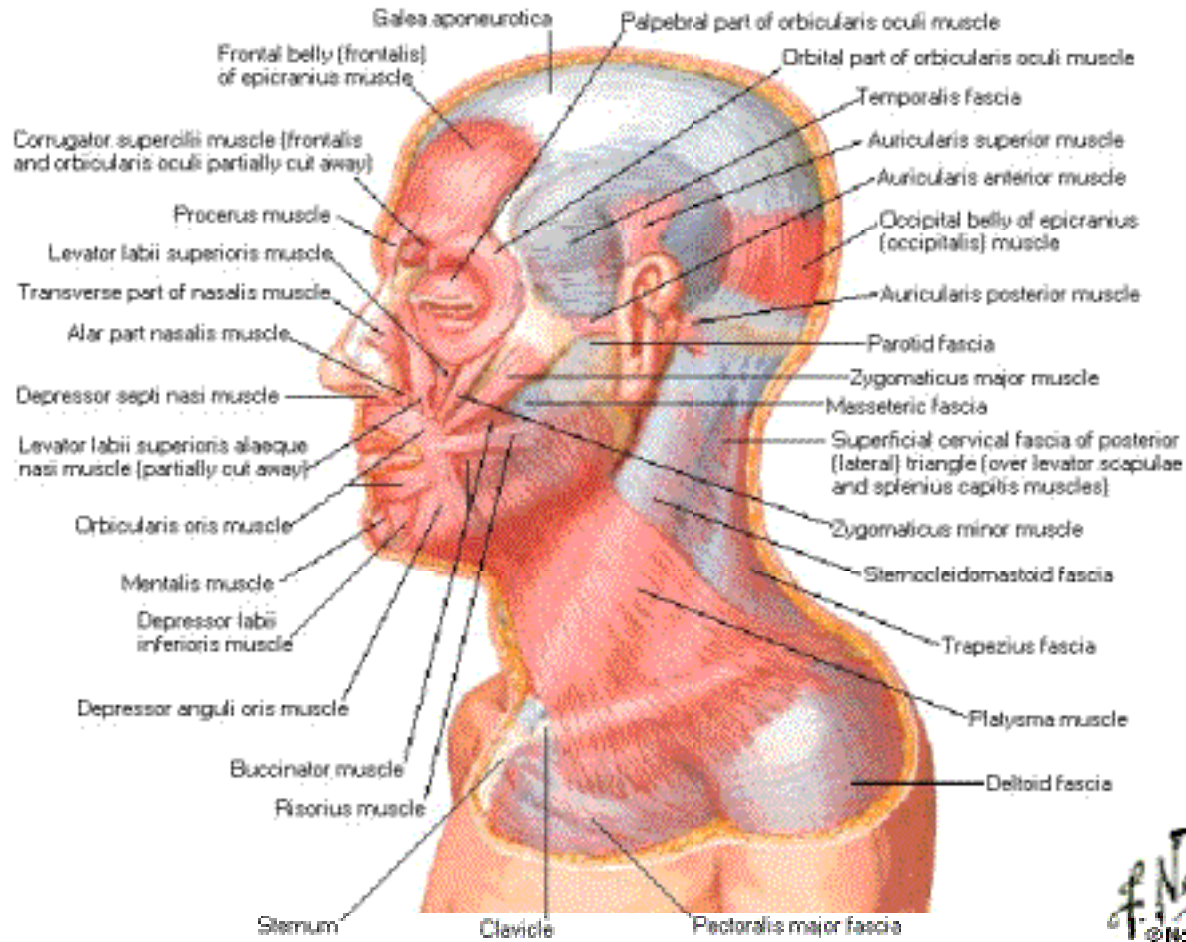


Course of wrinkle lines of skin is transverse to fiber direction of facial muscles. Elliptical incisions for removal of skin tumors conform to direction of wrinkle lines

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# Muscles of Facial Expression

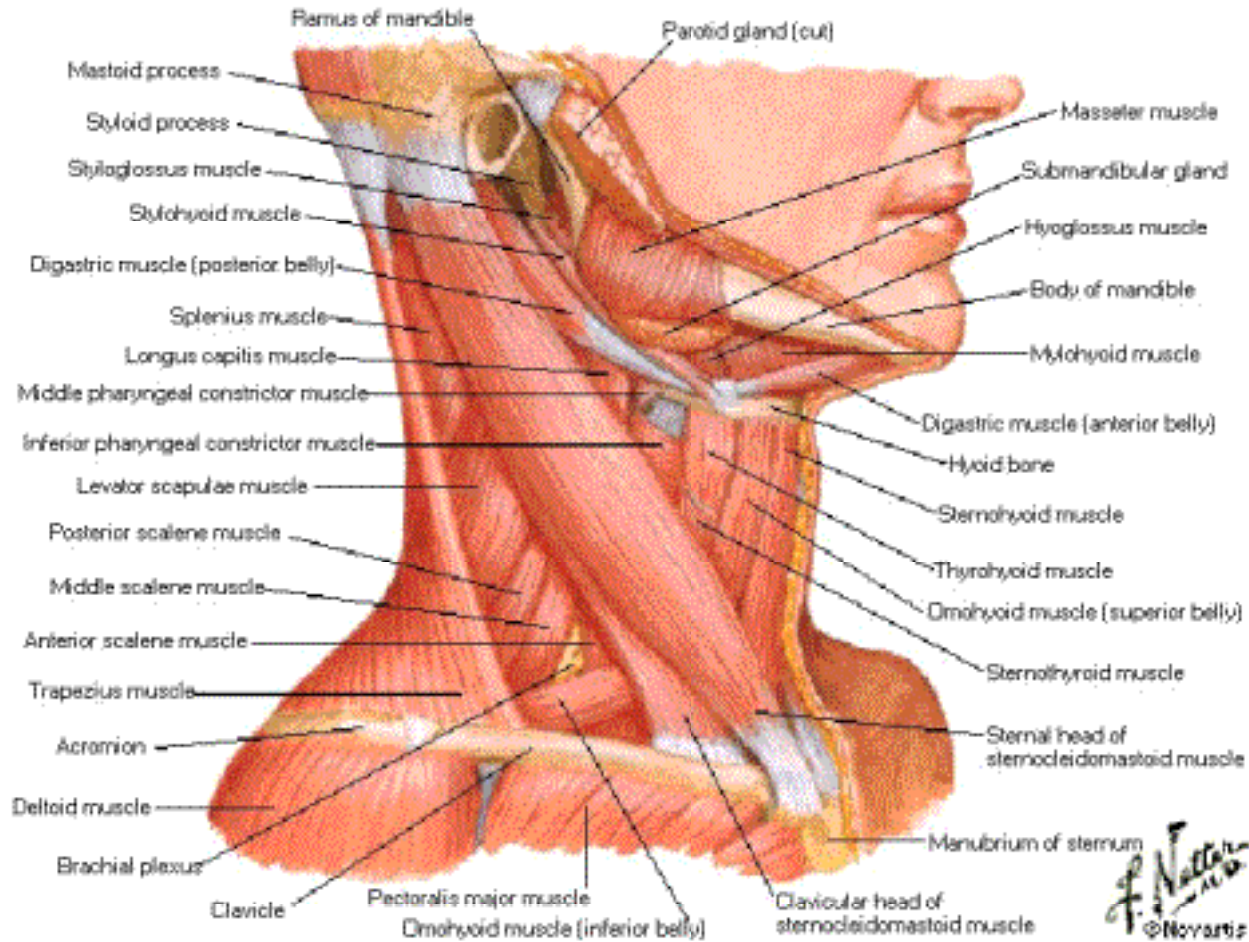
## Lateral View



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# Muscles of Neck

## Lateral View

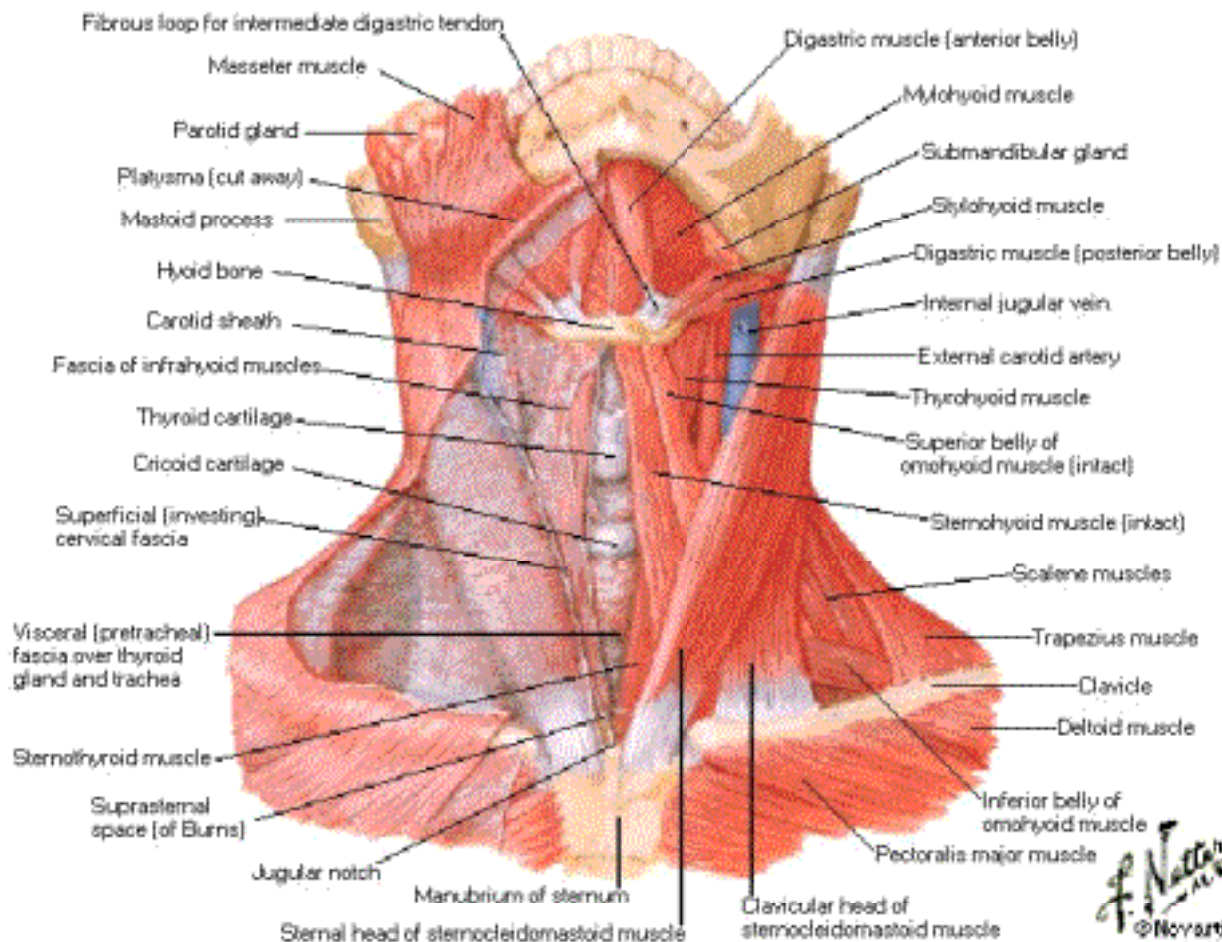


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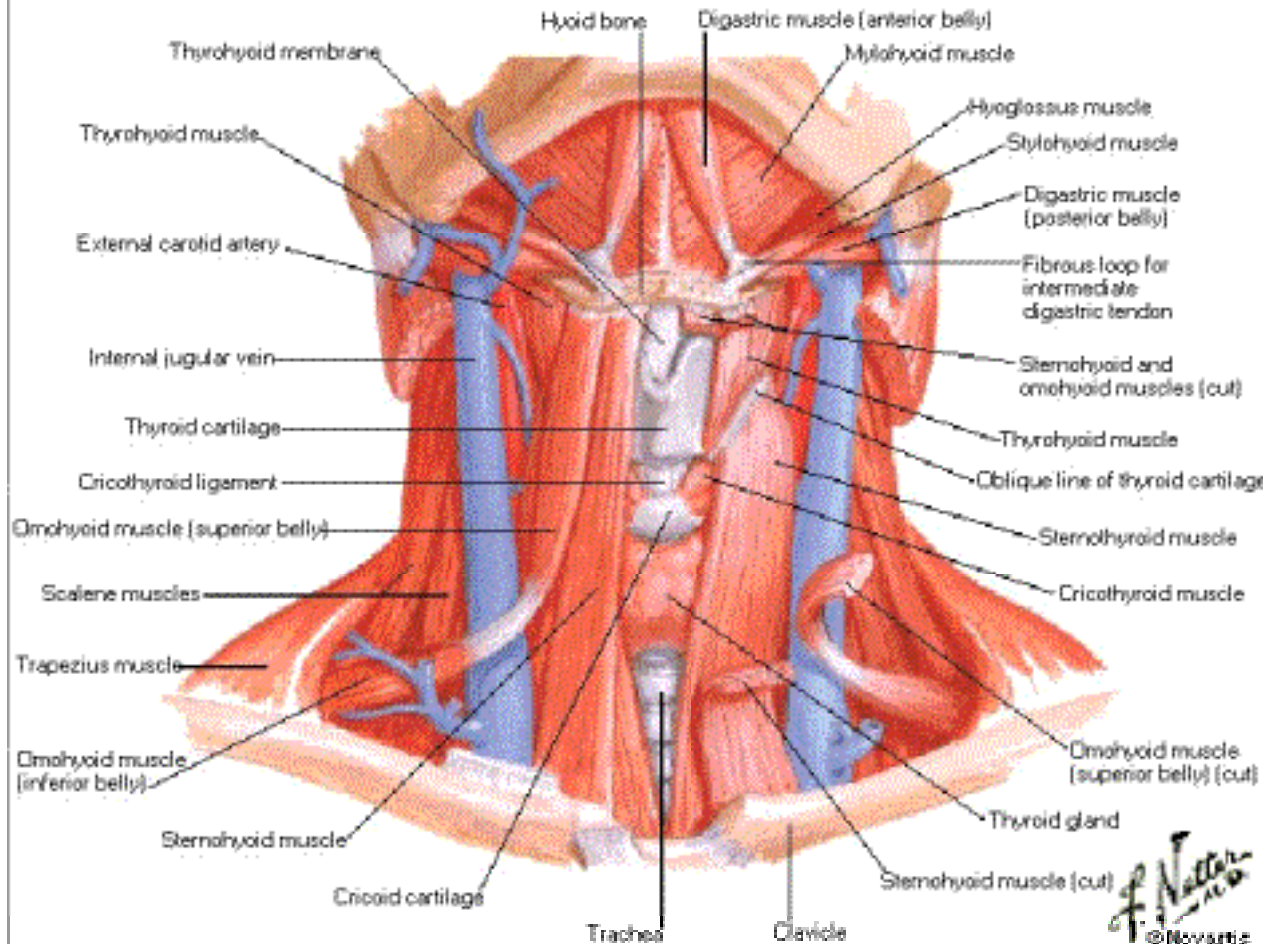
# Muscles of Neck

## Anterior View



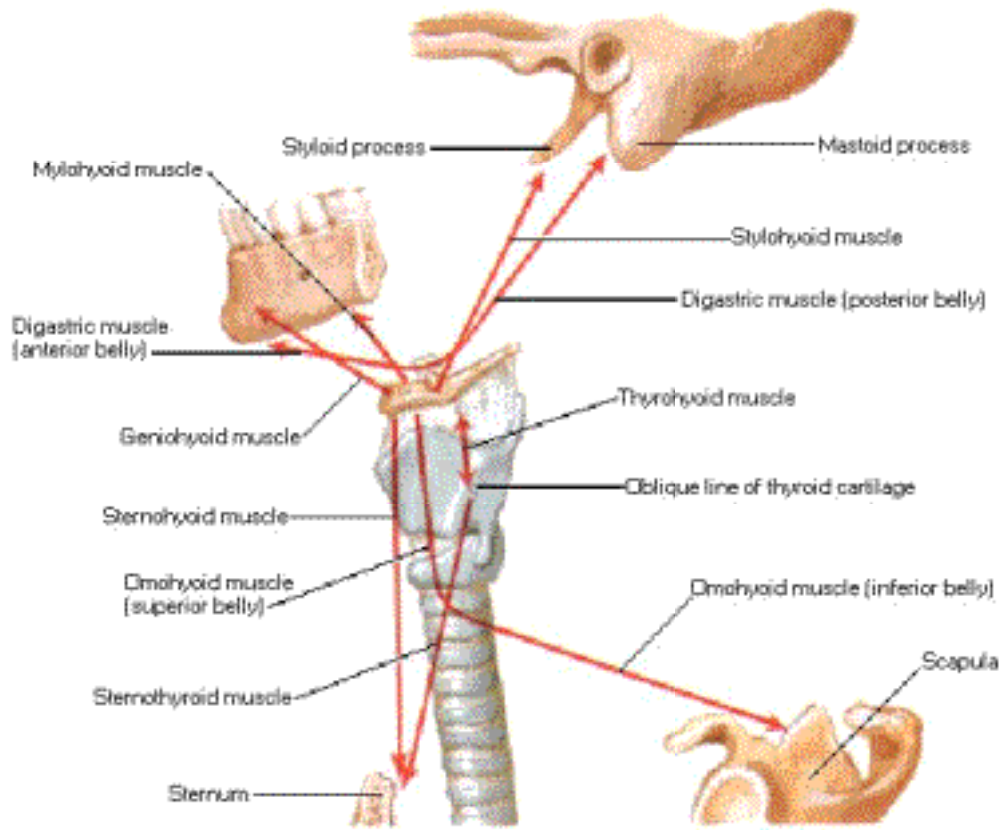
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# Infrahyoid and Suprahyoid Muscles



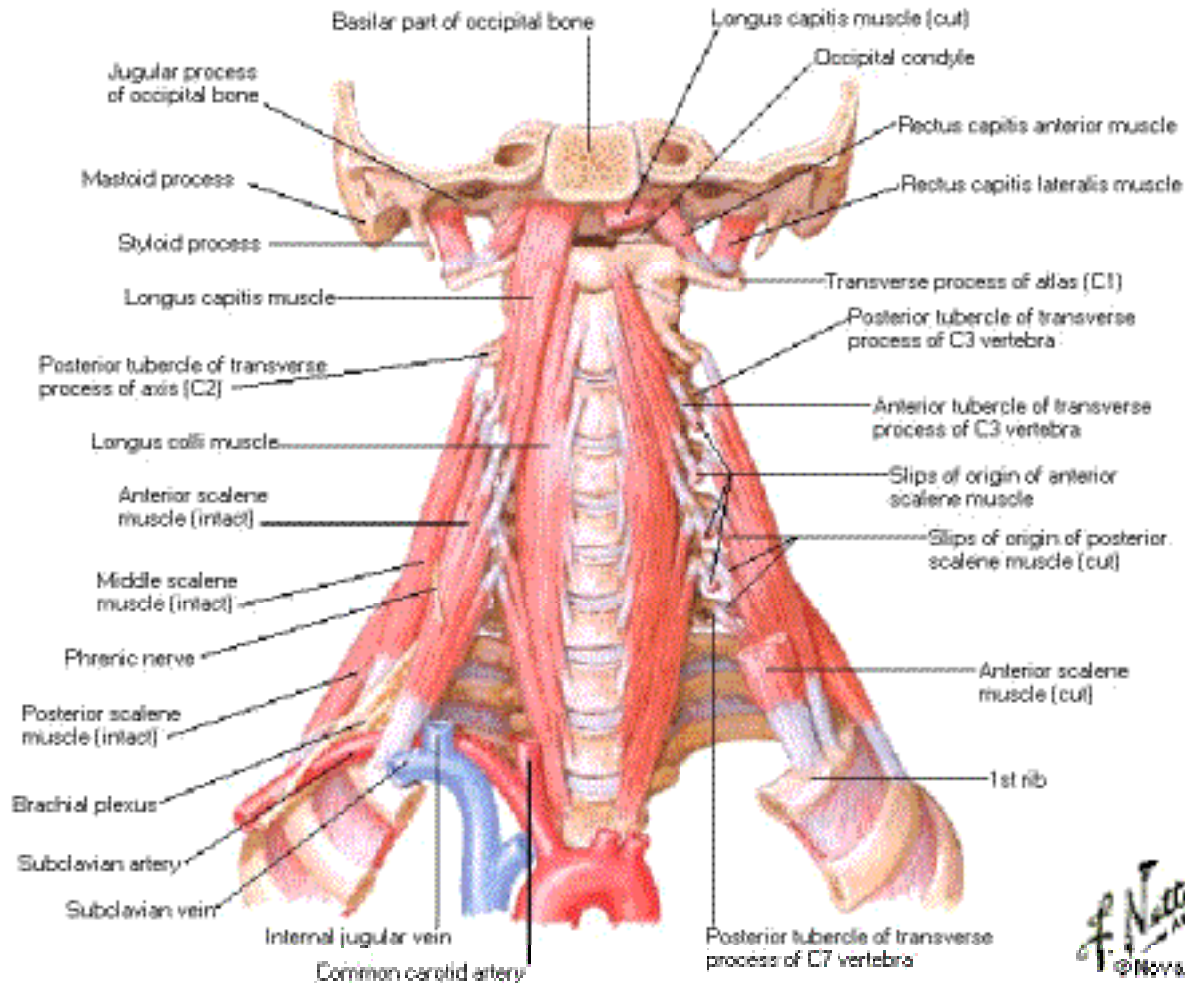
# Infrahyoid and Suprahyoid Muscles and their Action

## Schema



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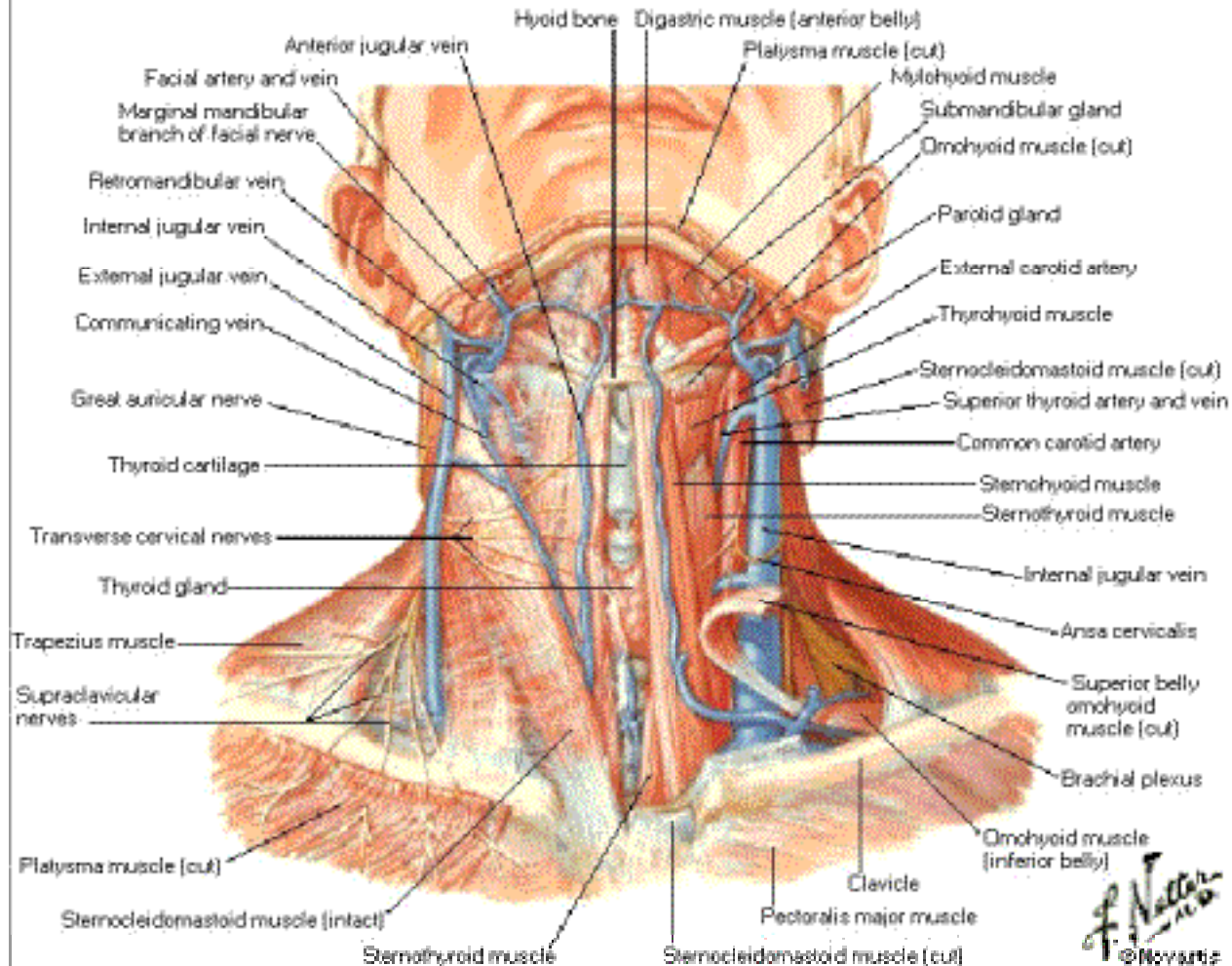
# Scalene and Prevertebral Muscles



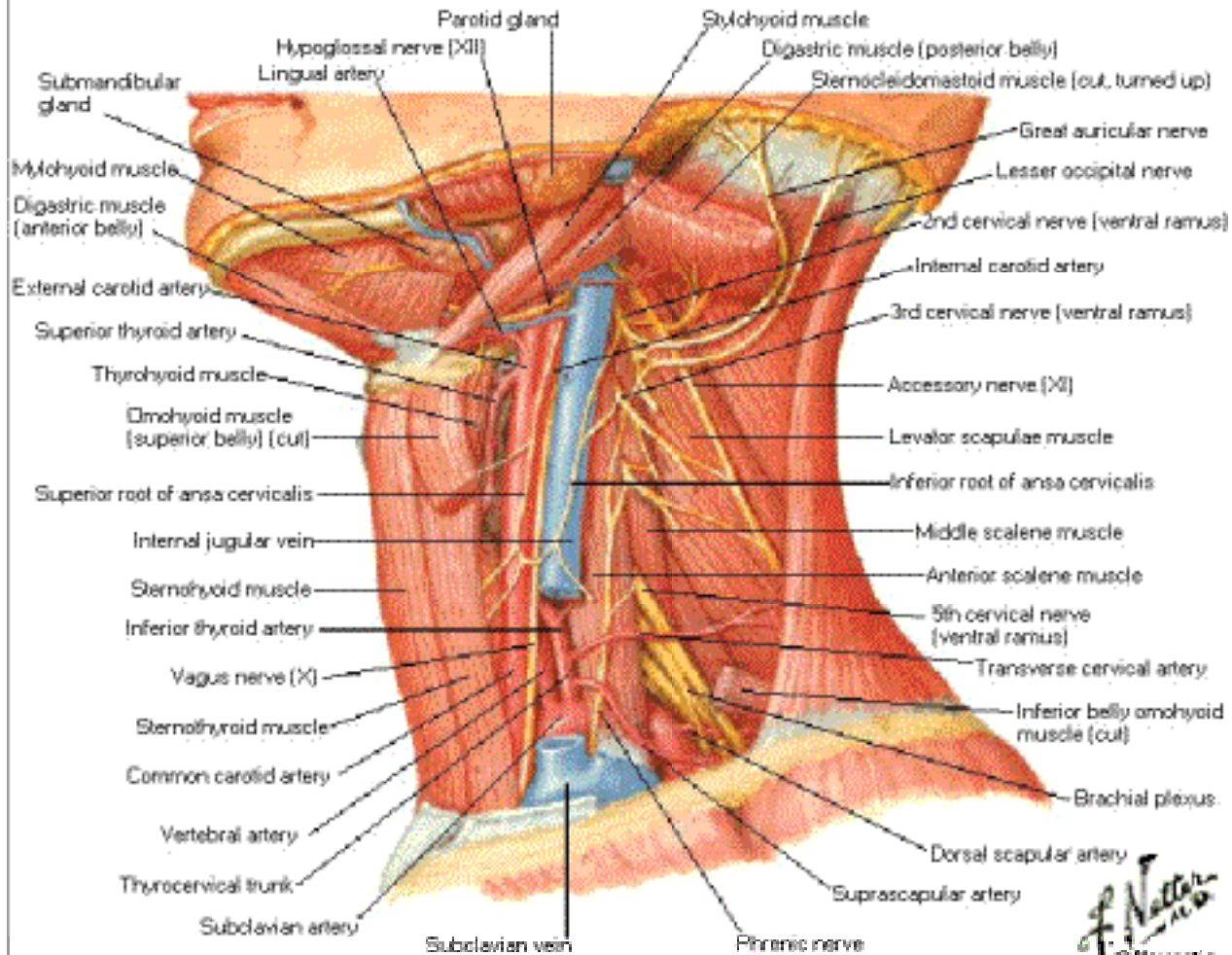
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# Superficial Veins and Cutaneous Nerves of Neck

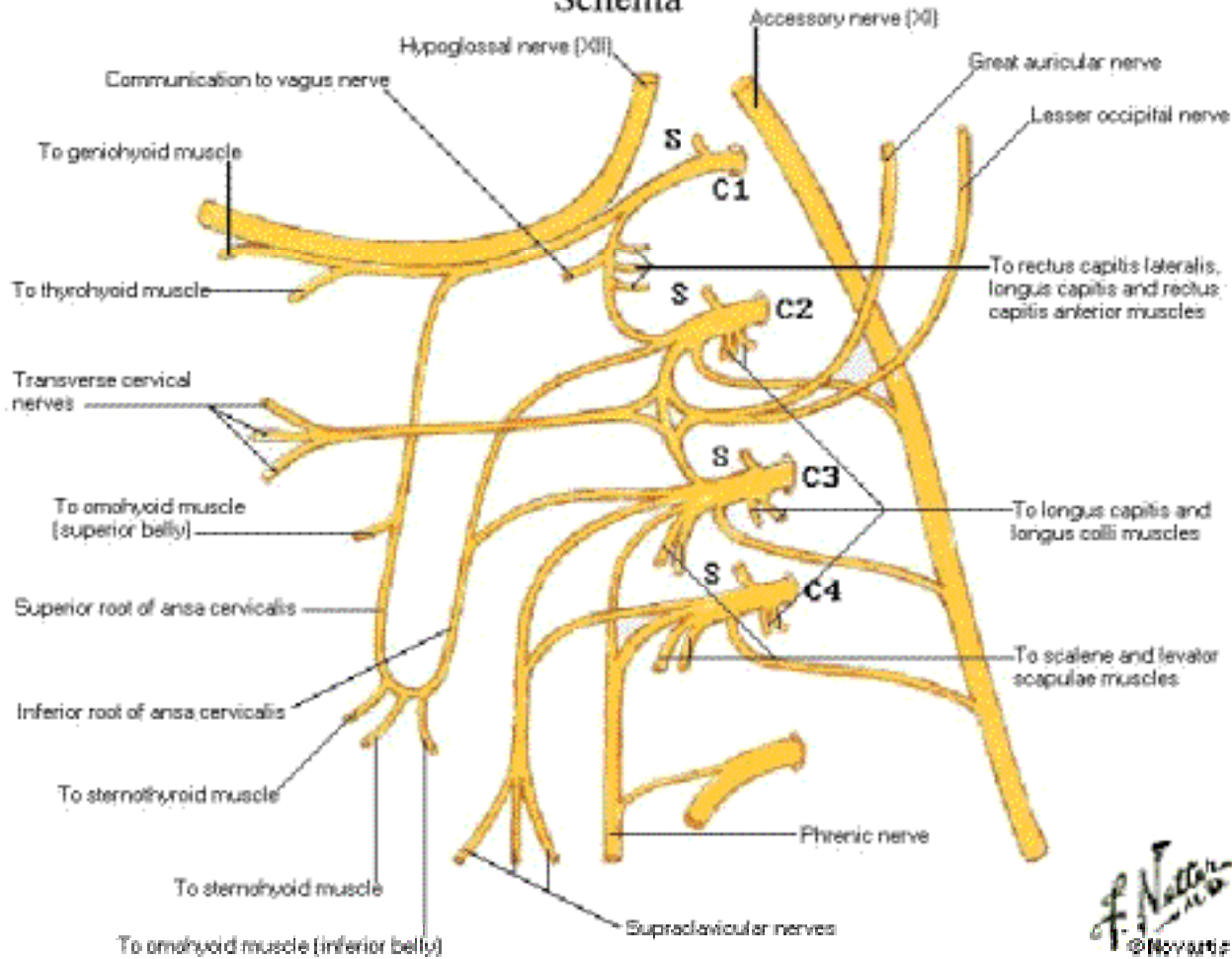


# Cervical Plexus in Situ



S = gray ramus to superior sympathetic ganglion

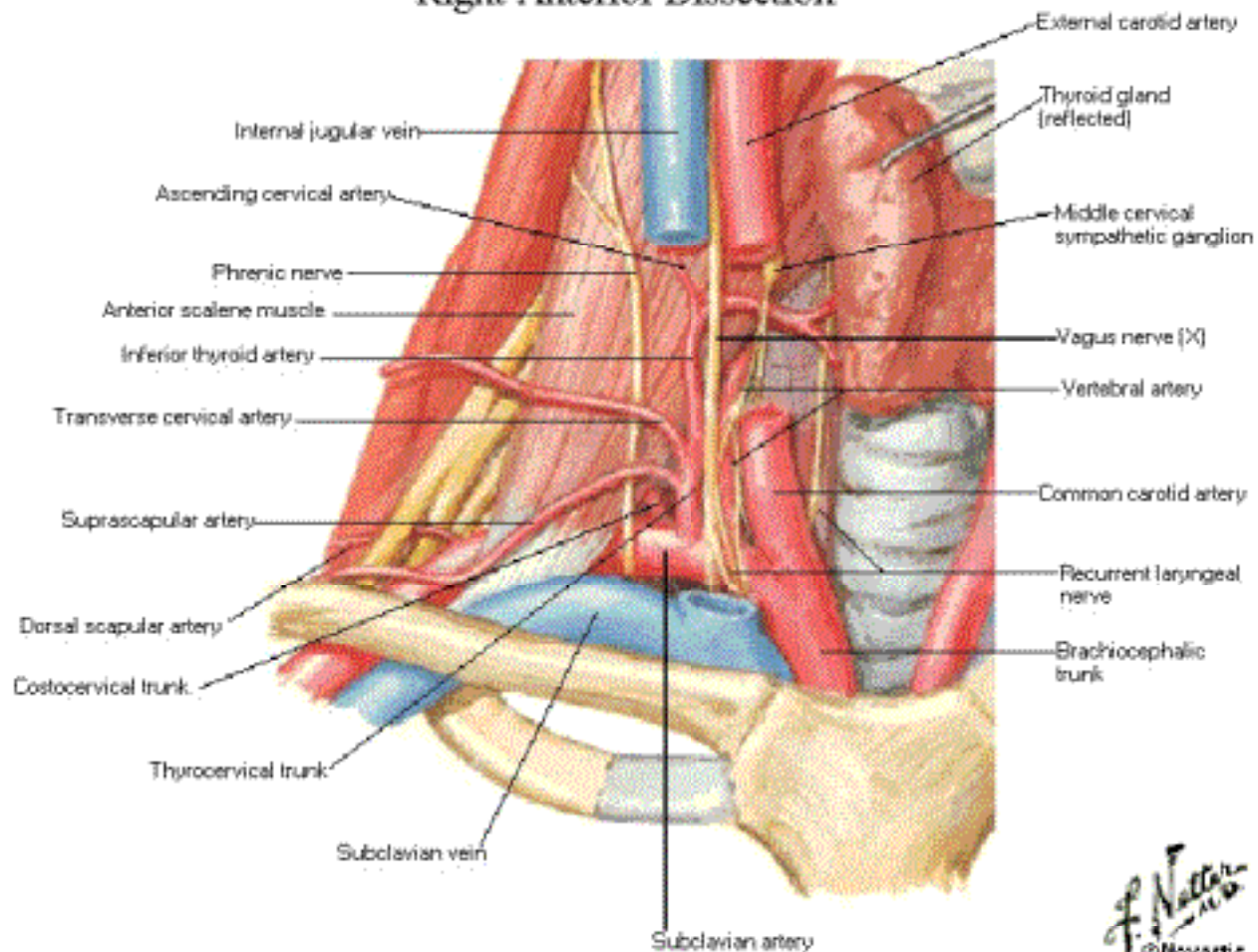
# Cervical Plexus Schema



*F. Netter*  
© 1974

# Subclavian Artery

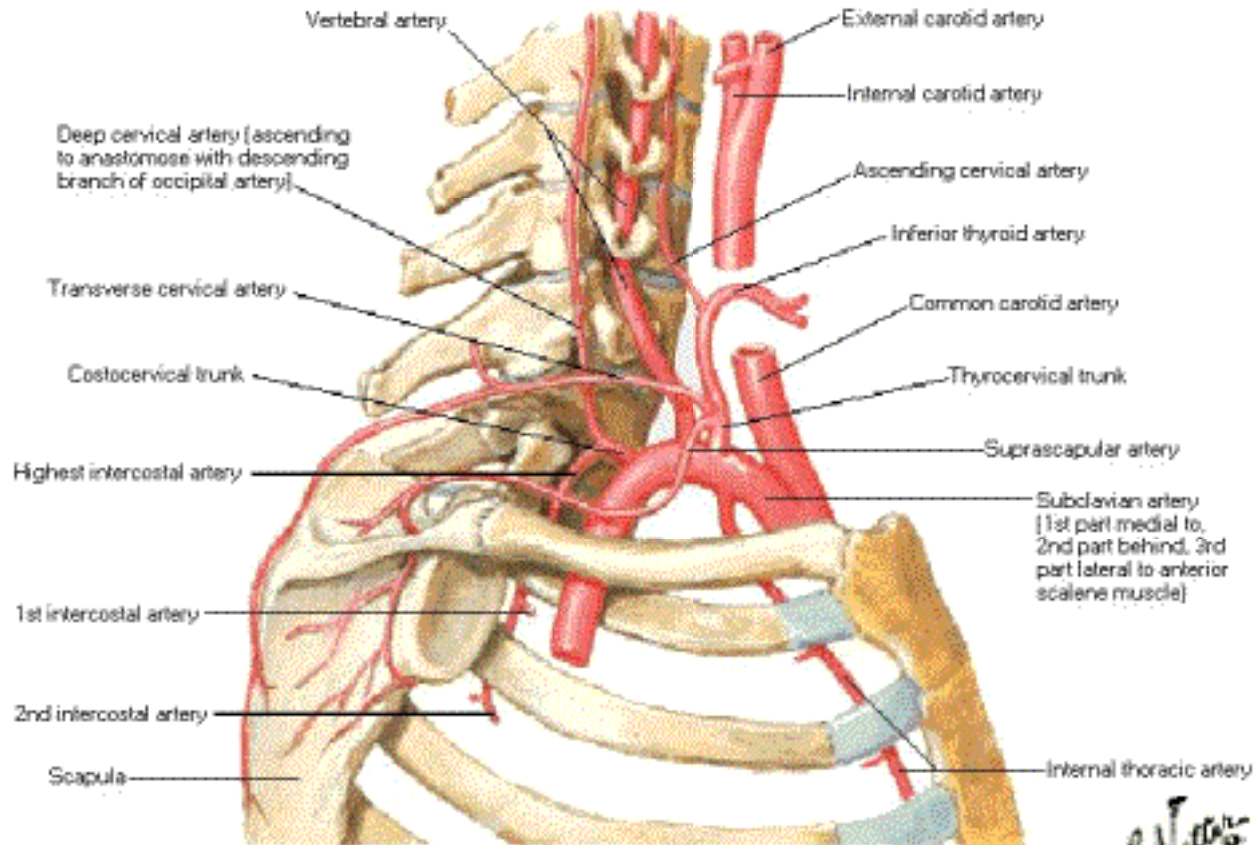
## Right Anterior Dissection





# Subclavian Artery

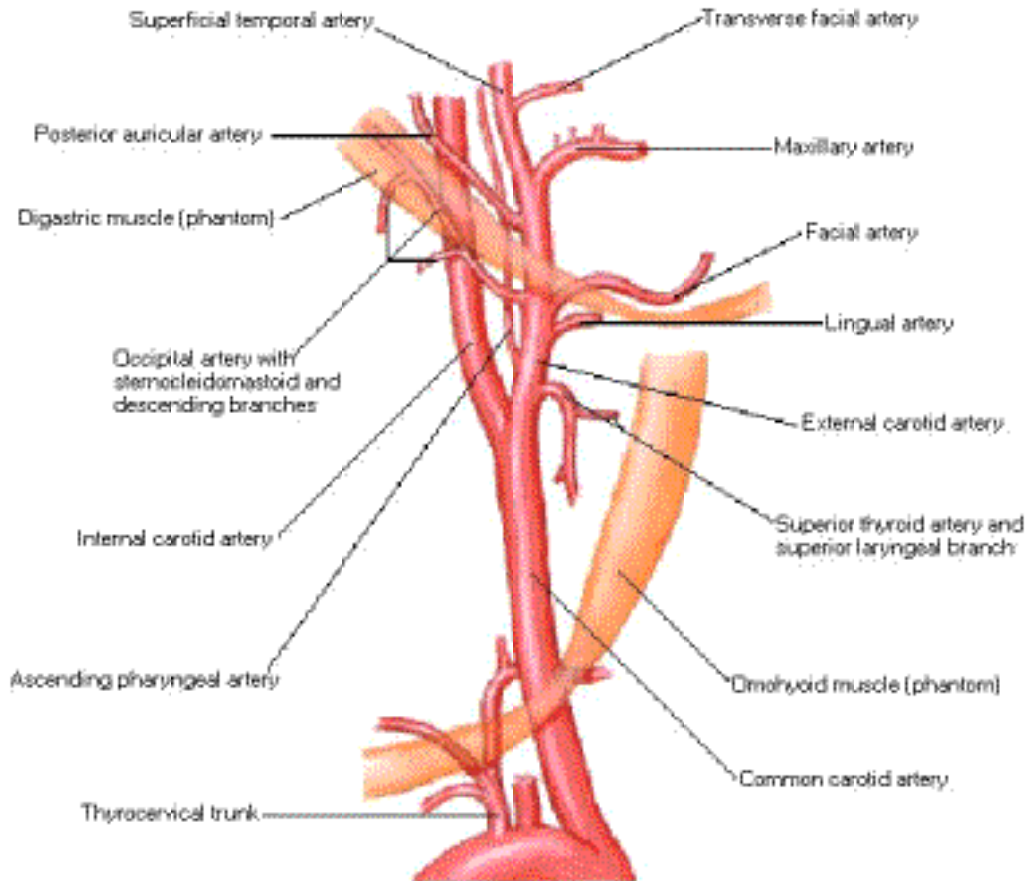
## Right Lateral Schematic View





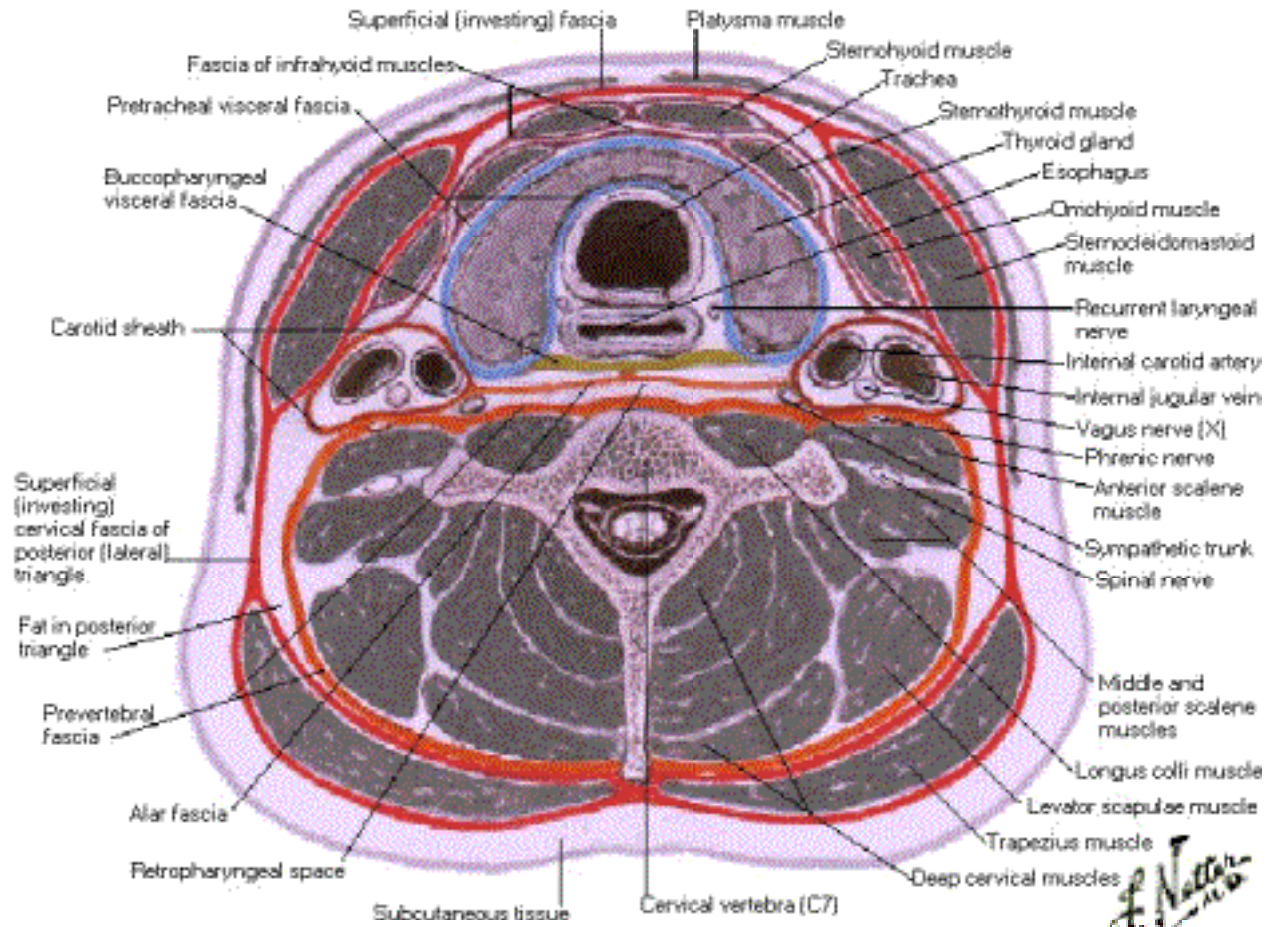
# External Carotid Artery and Branches

## Schema



# Fascial Layers of Neck

## Cross Section

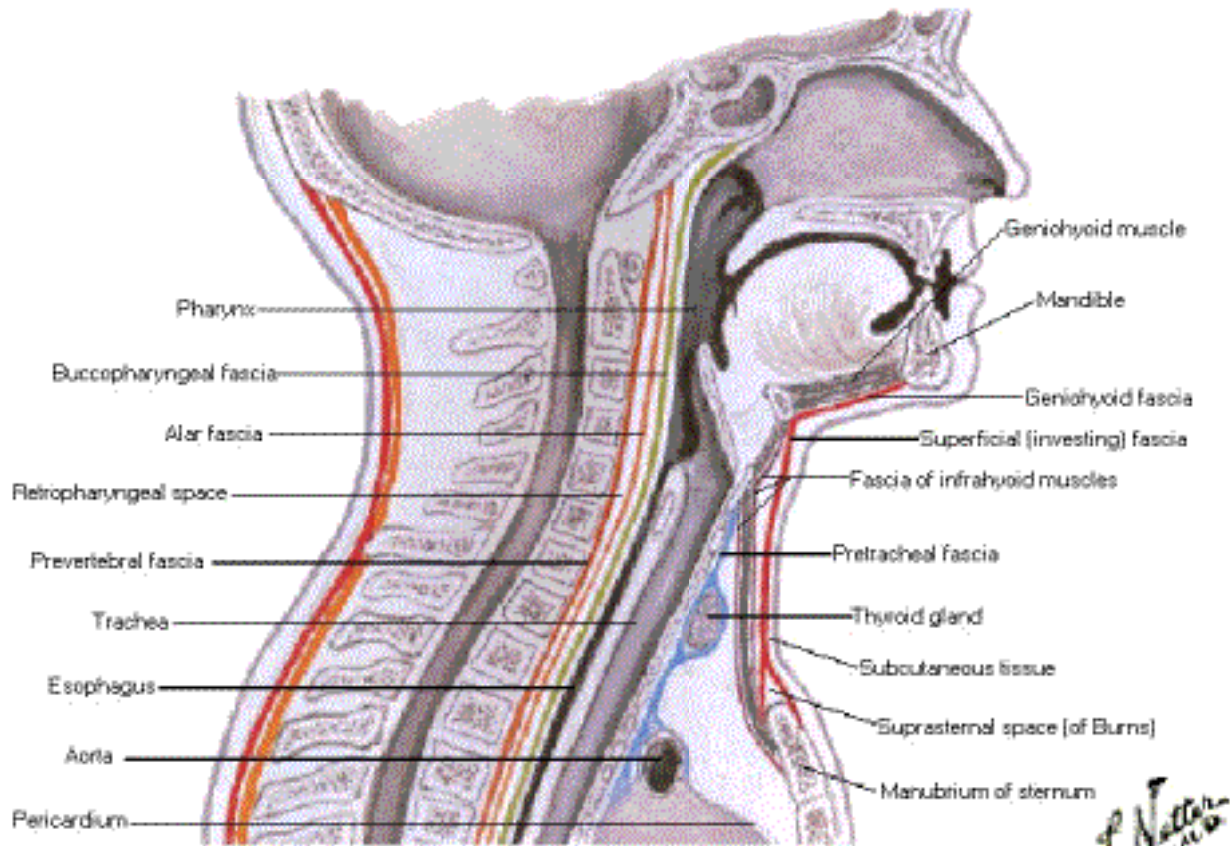


*F. Netter M.D.*  
© Novartis



# Fascial Layers of Neck

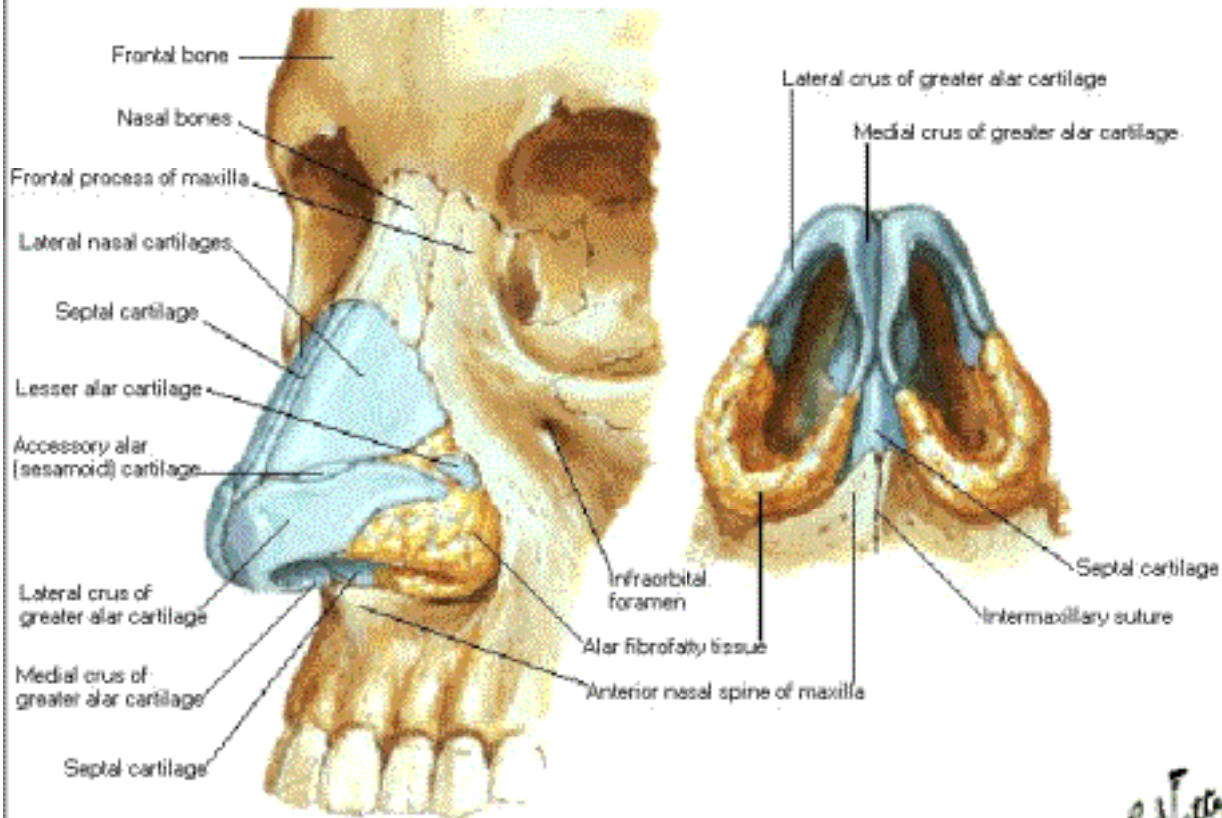
## Sagittal Section



*F. Netter*  
© Novartis

# External Nose [Skeleton]

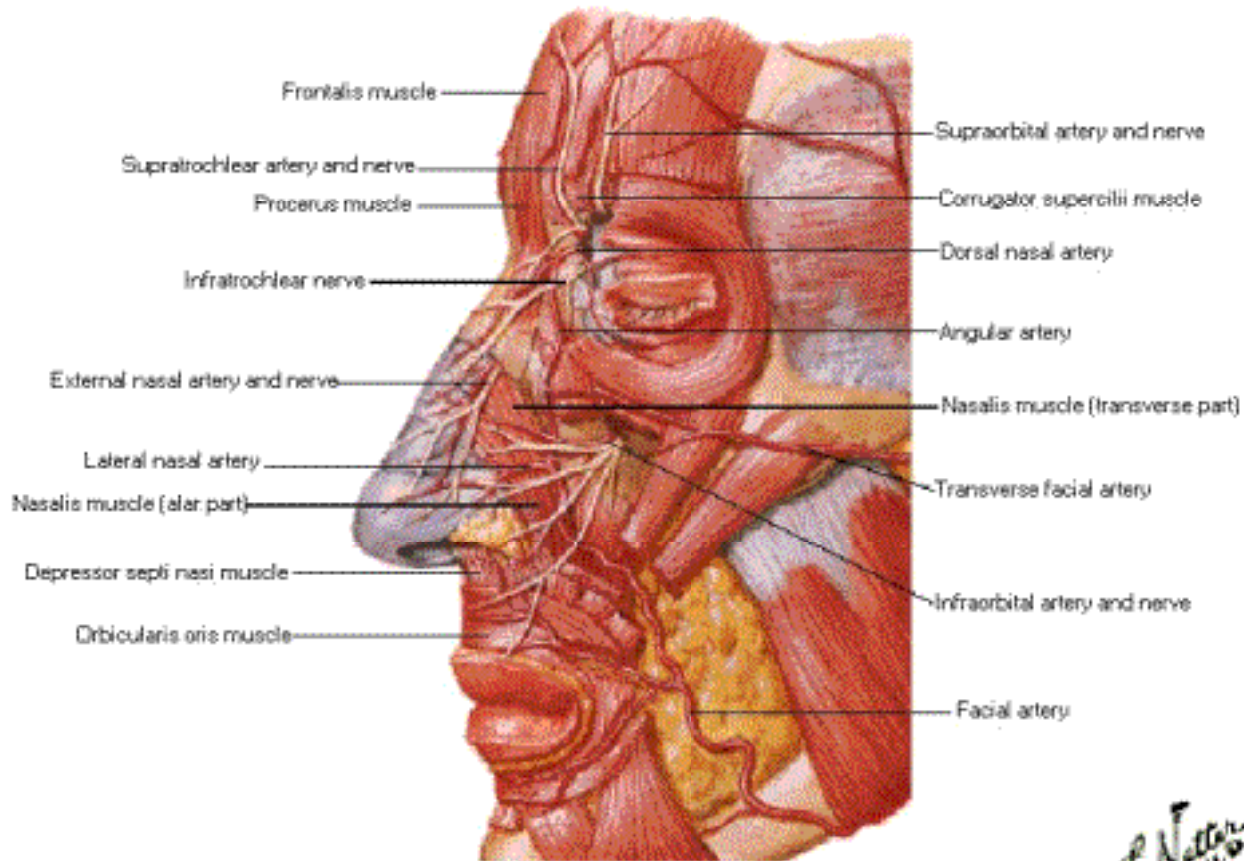
## Anterolateral and Inferior Views



*F. Netter*  
© 2010

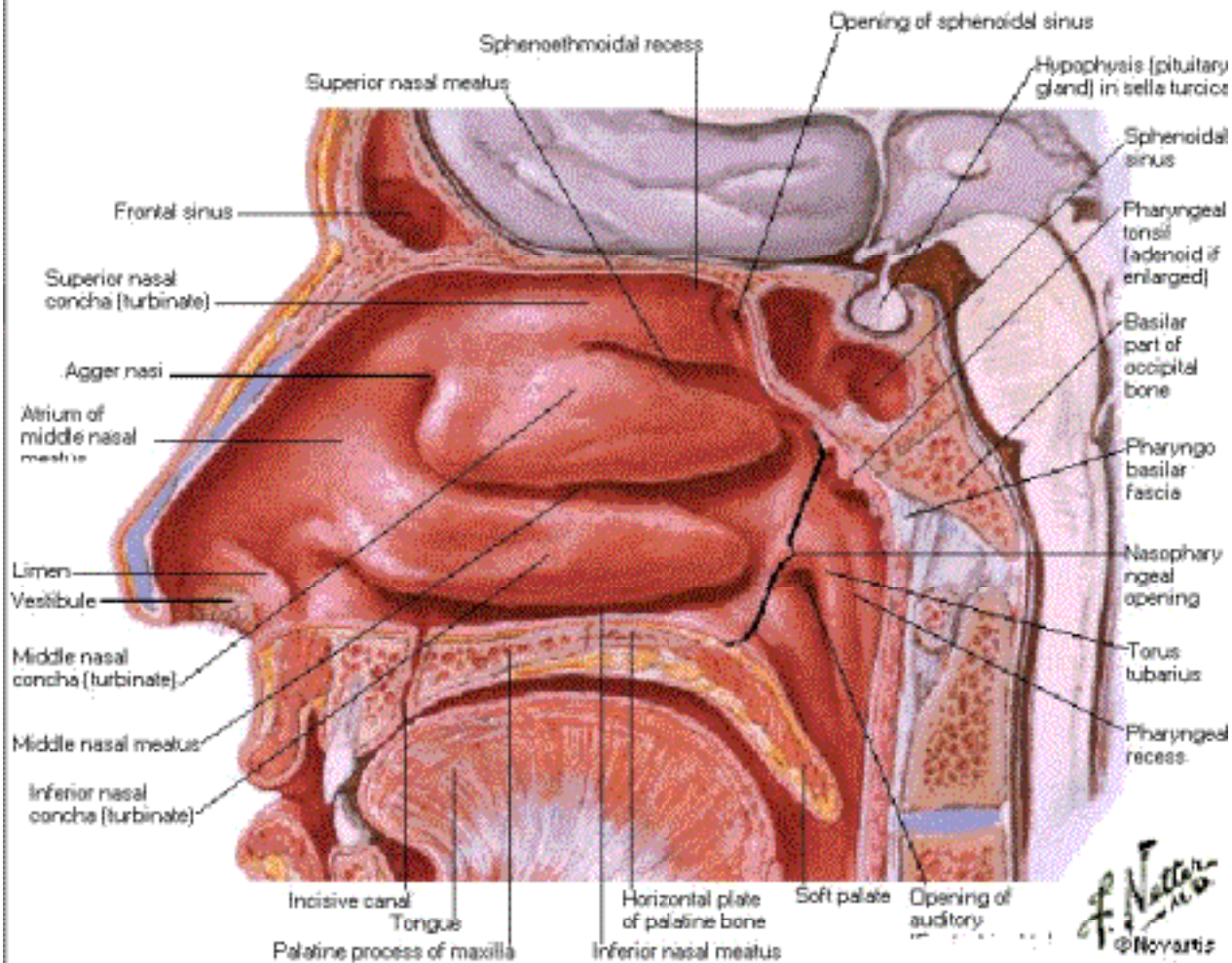
# External Nose [Skeleton] in Situ

## Lateral View



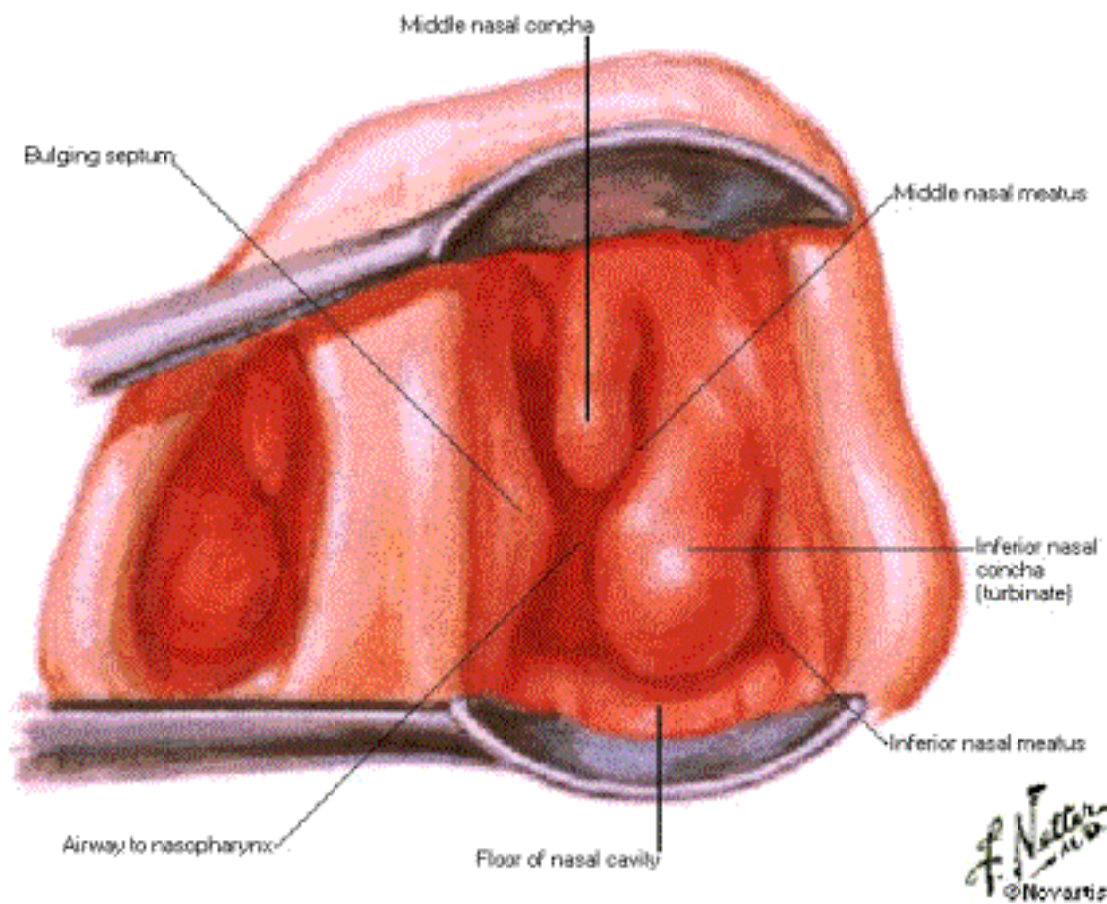
*F. Netter*  
© Novartis

# Lateral Nasal Wall

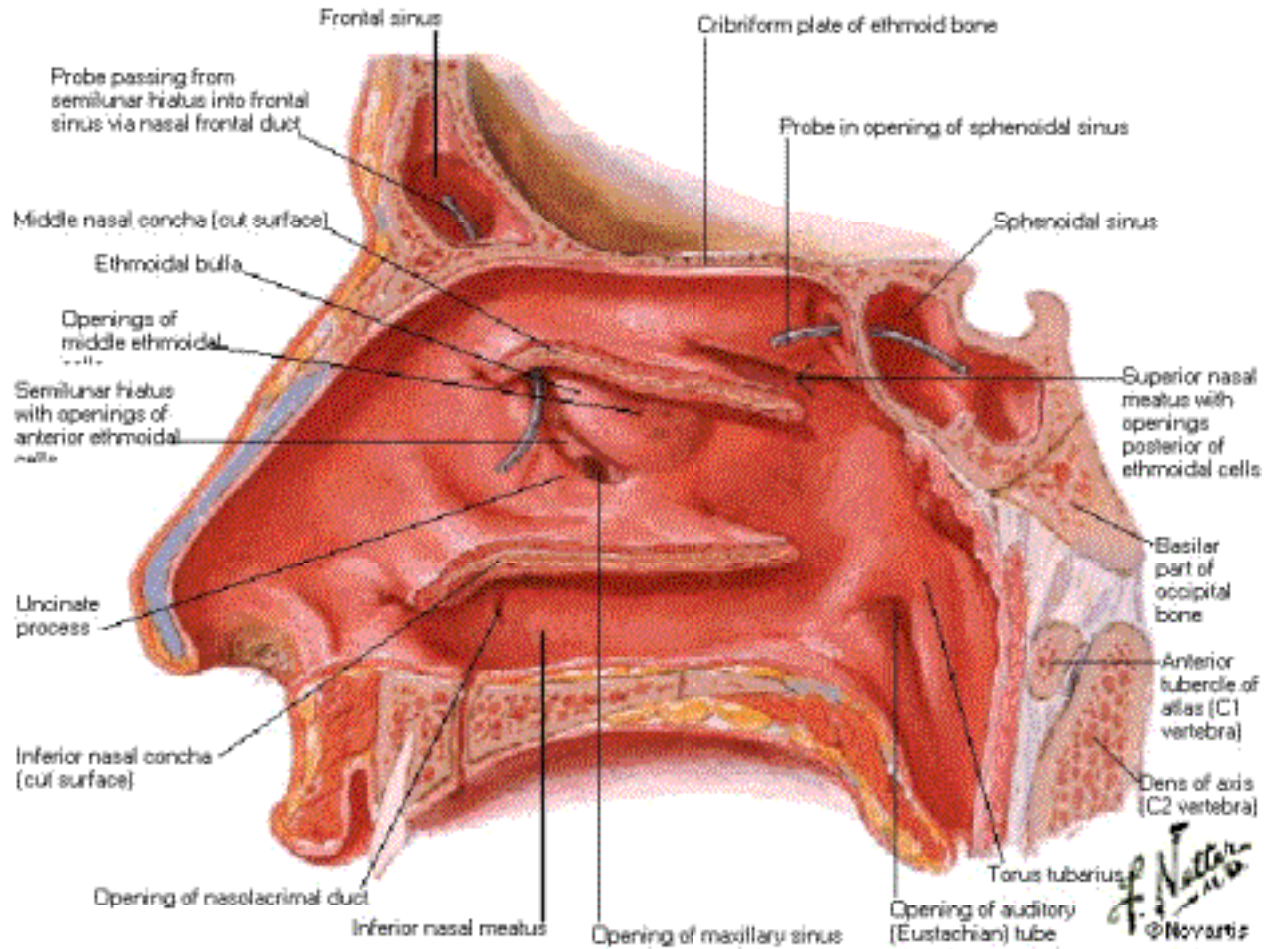




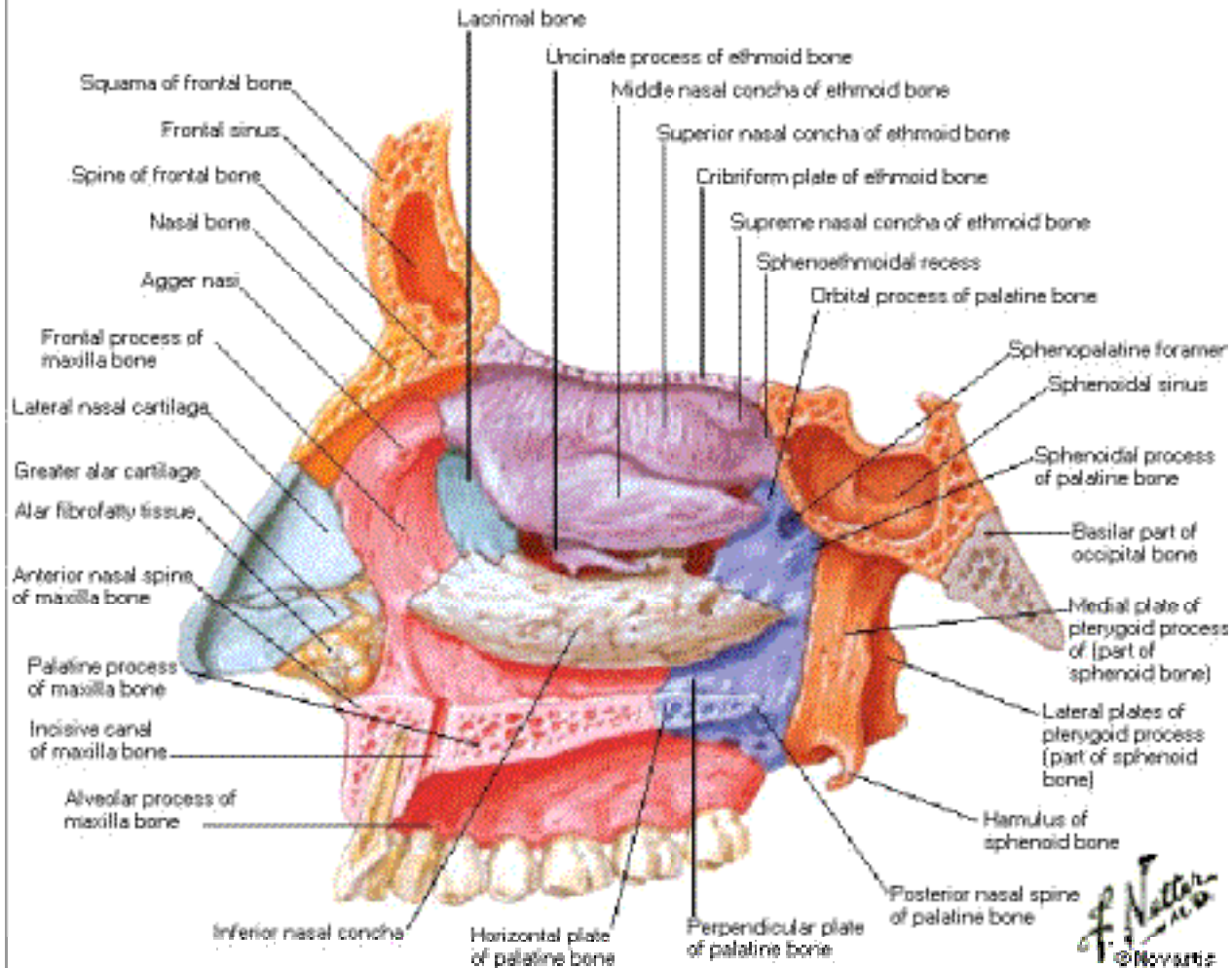
# Nasal Cavity Speculum View



# Lateral Nasal Wall - Nasal Conchae Removed

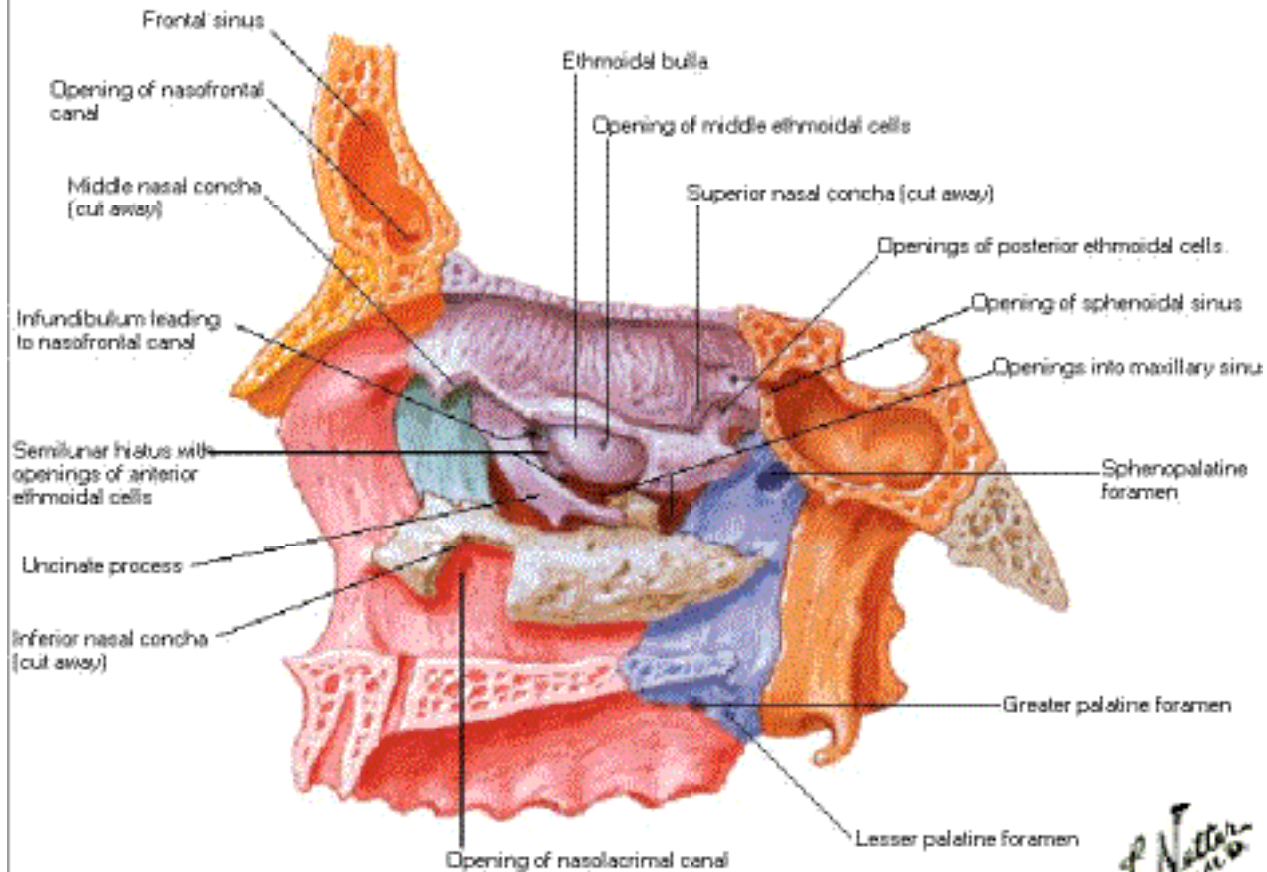


# Lateral Nasal Wall - Bony Structure



# Lateral Nasal Wall - Bony Structure

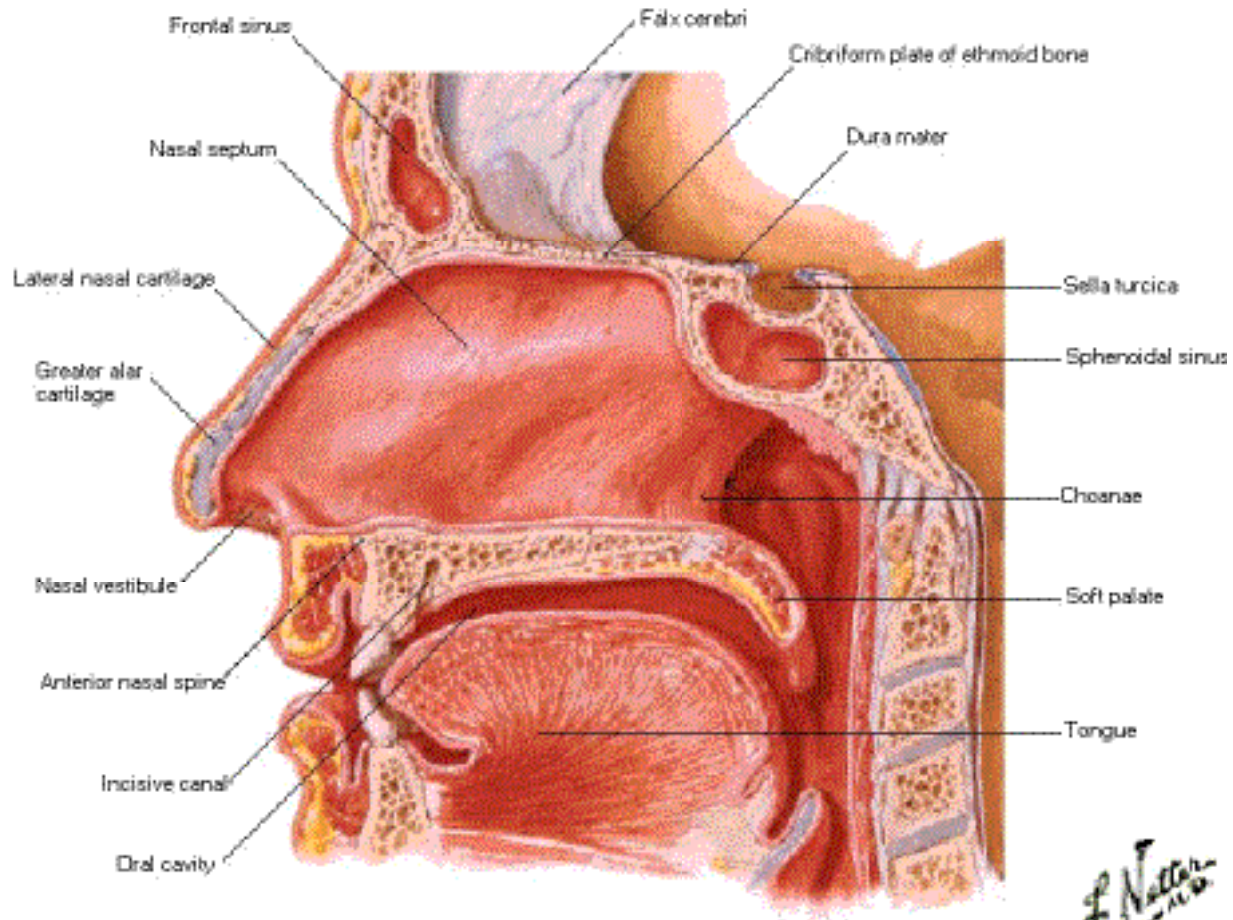
## Nasal Conchae Partly Removed



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© 1989



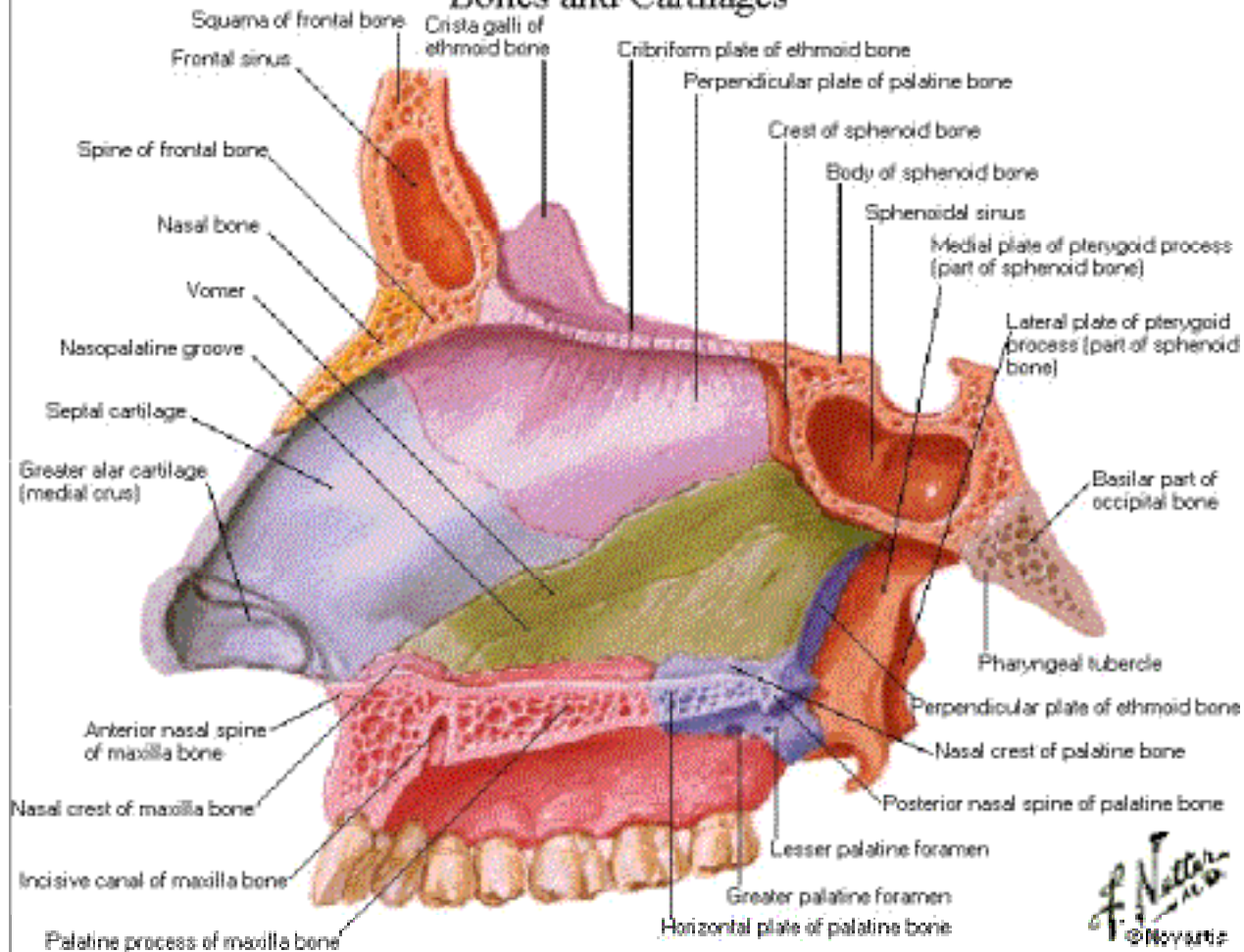
## Medial Nasal Wall [Septum]



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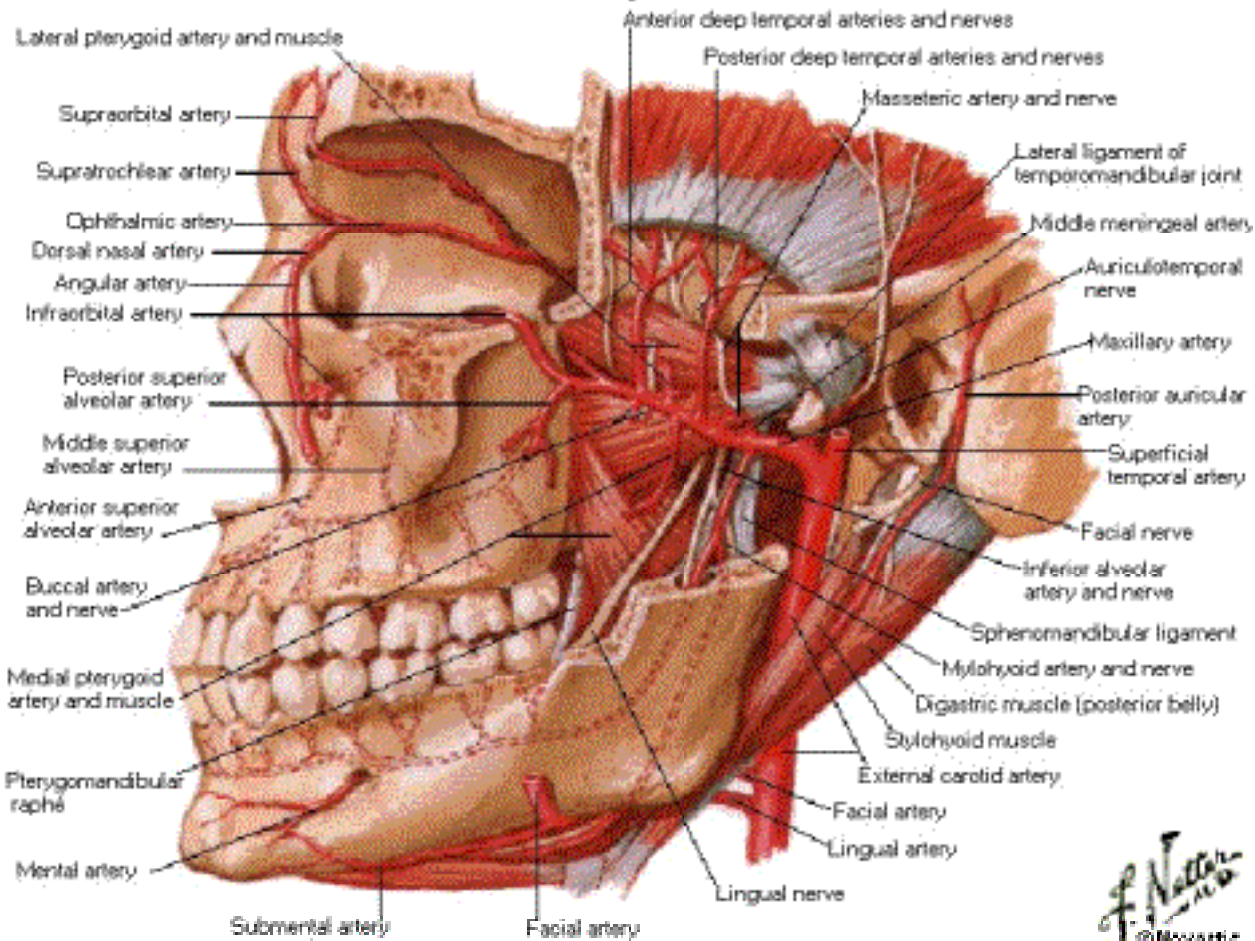
# Medial Nasal Wall [Septum]

## Bones and Cartilages



# Maxillary Artery

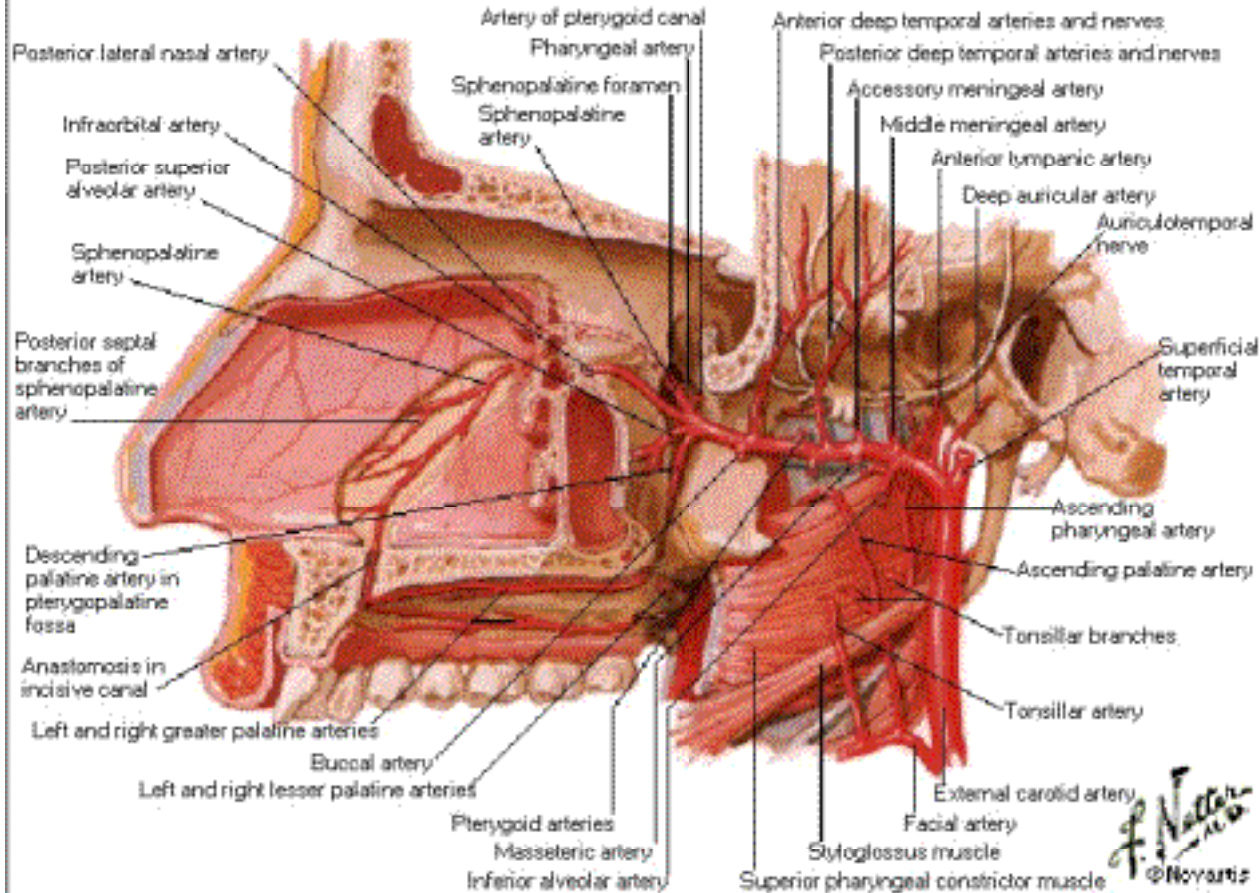
## Orbitomaxillary Distribution





# Maxillary Artery

## Nasopalatine Distribution

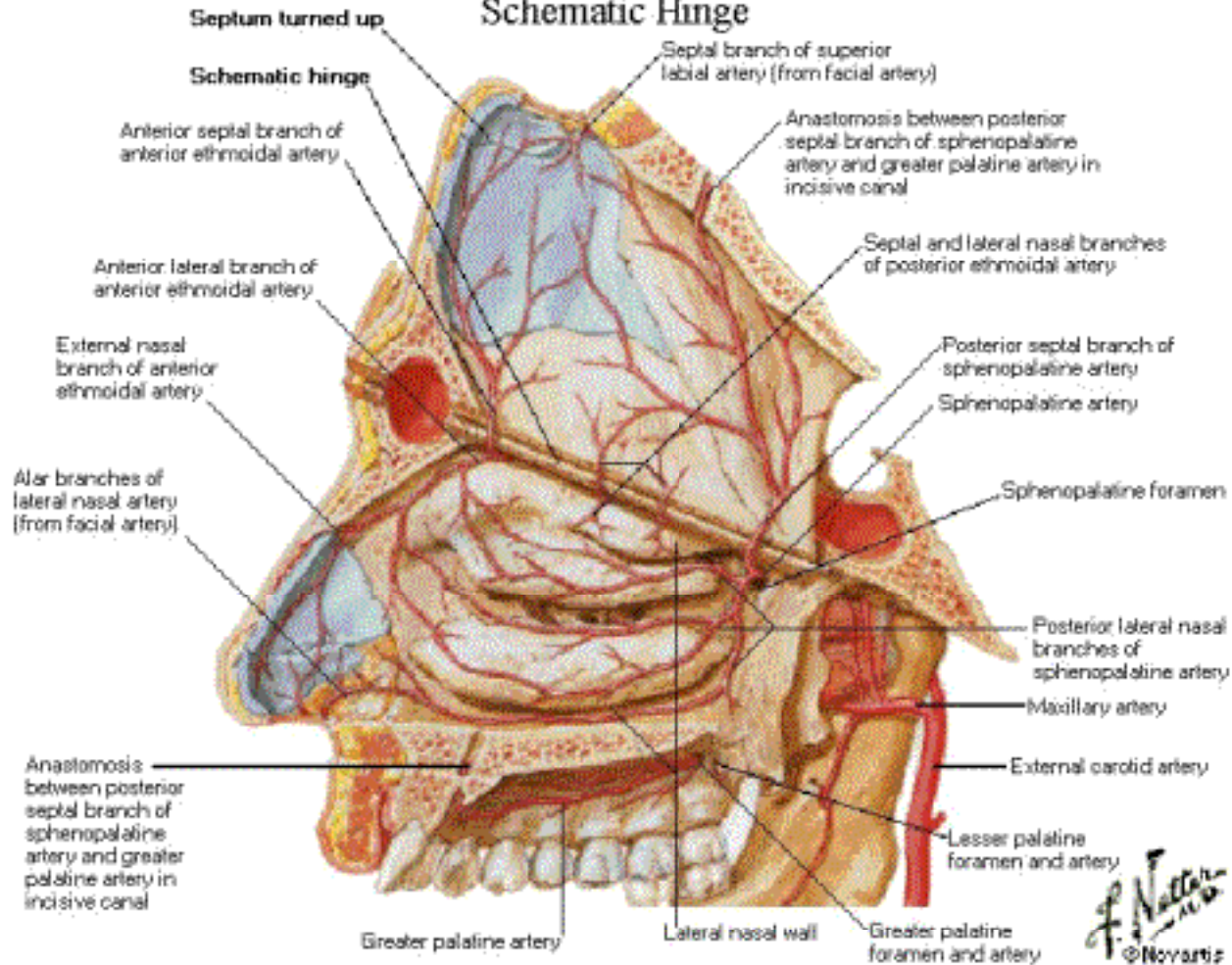


*F. Netter M.D.*  
© Netter



# Arteries of Nasal Cavity

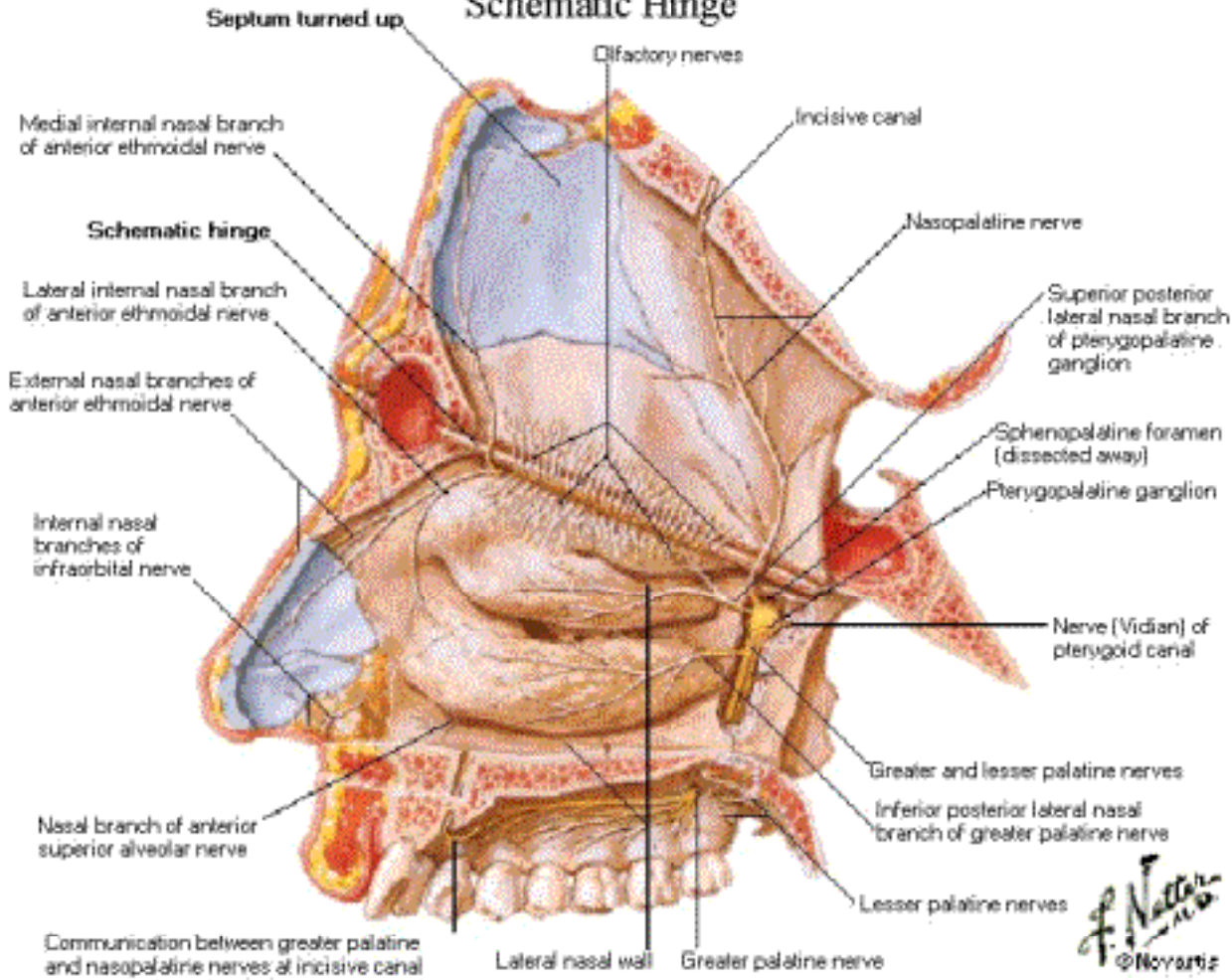
## Schematic Hinge



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# Nerves of Nasal Cavity

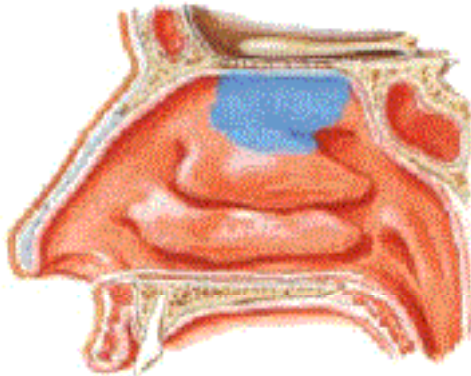
## Schematic Hinge



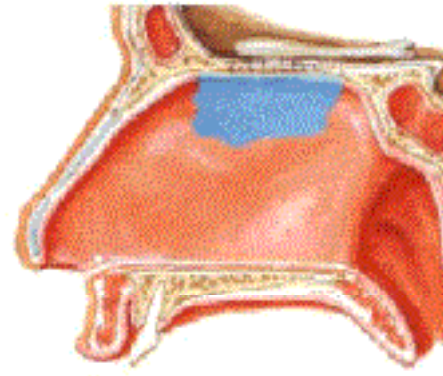
*F. Netter M.D.*  
© Novartis

## Nerves of Nasal Cavity

### Distribution of Olfactory Mucosa



Lateral nasal wall

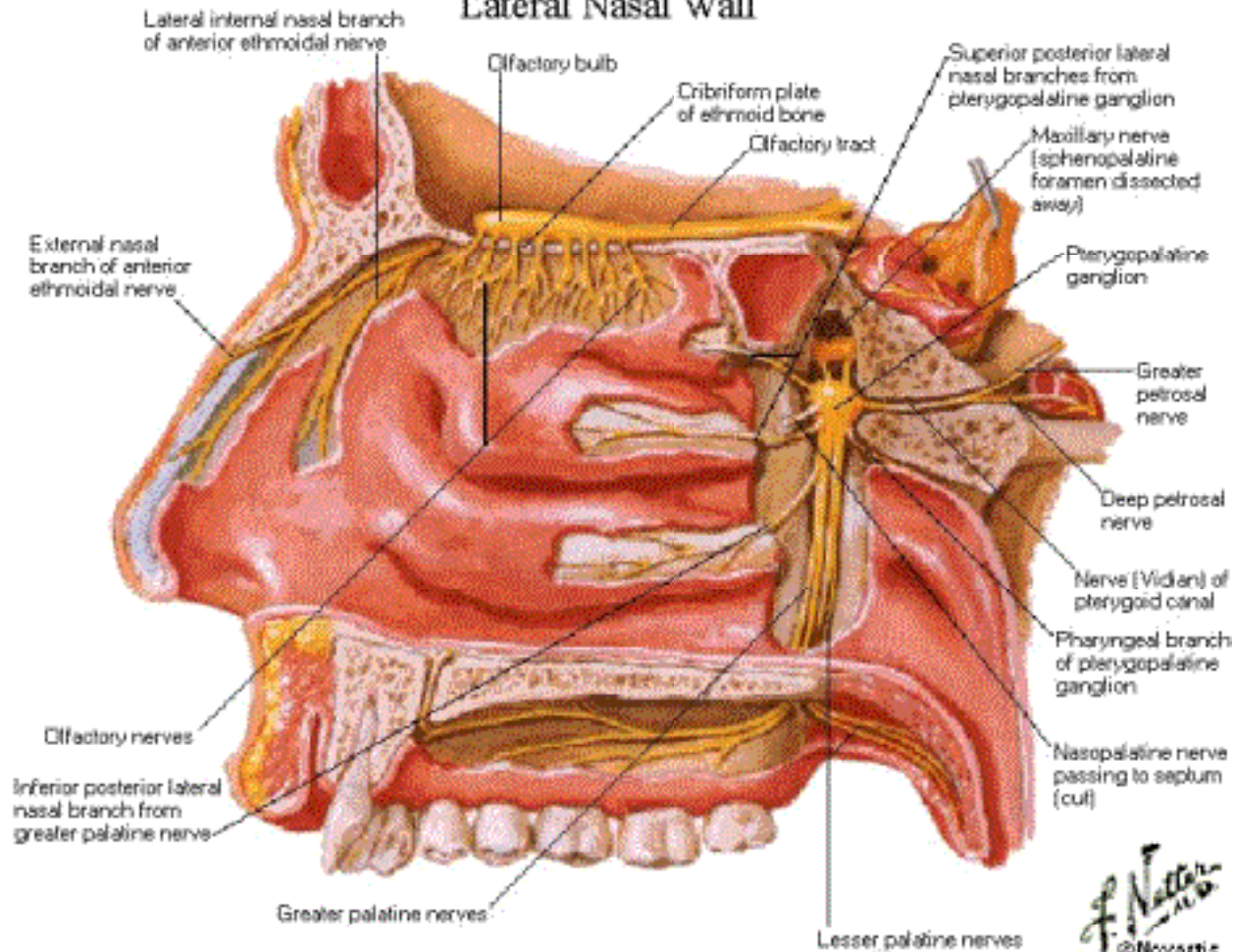


Nasal septum

Note: Distribution of olfactory mucosa is shaded blue.

# Nerves of Nasal Cavity

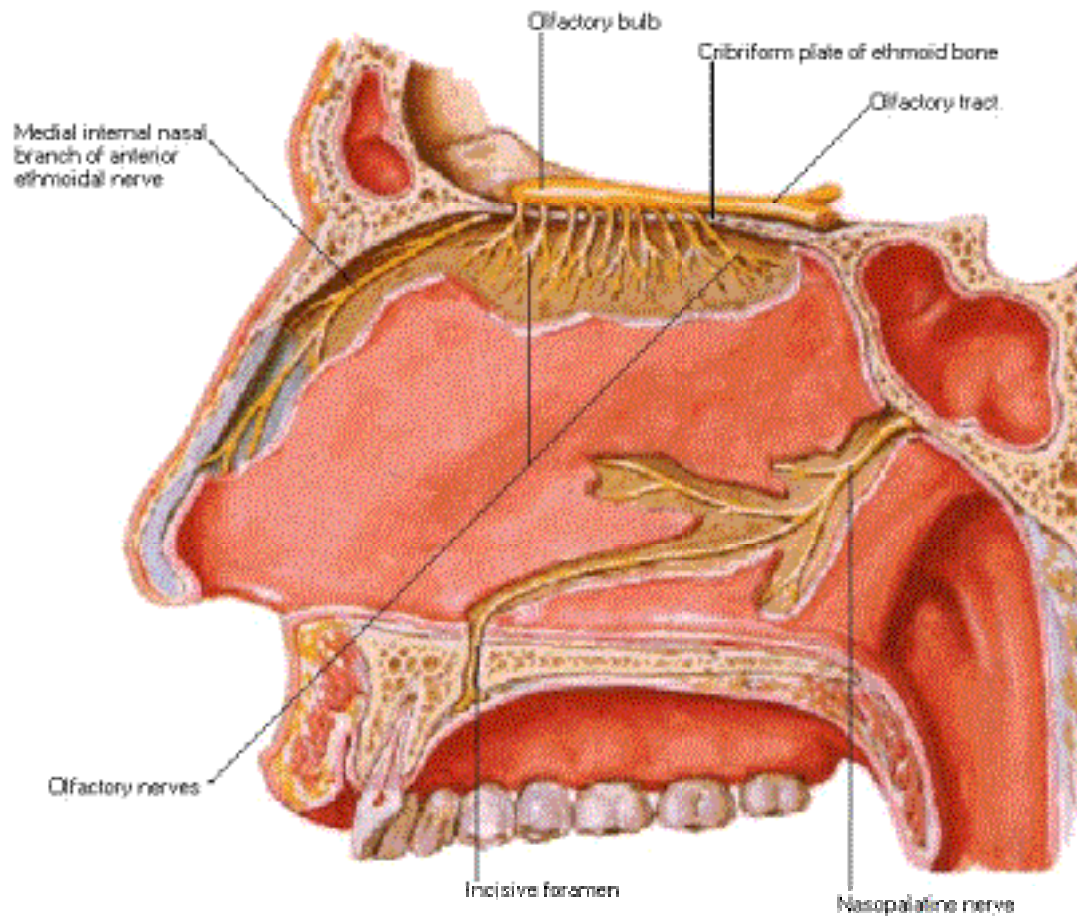
## Lateral Nasal Wall





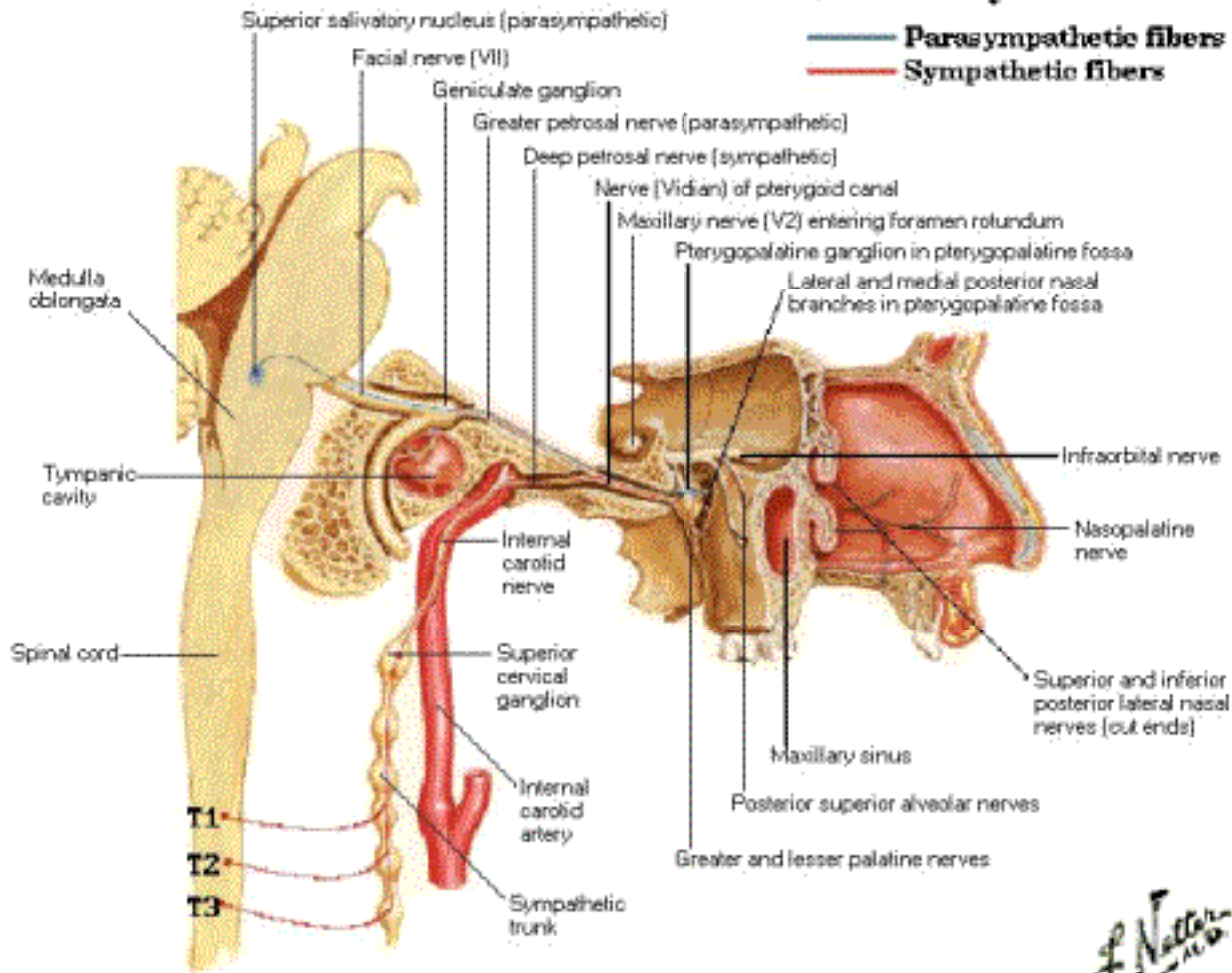
# Nerves of Nasal Cavity

## Nasal Septum



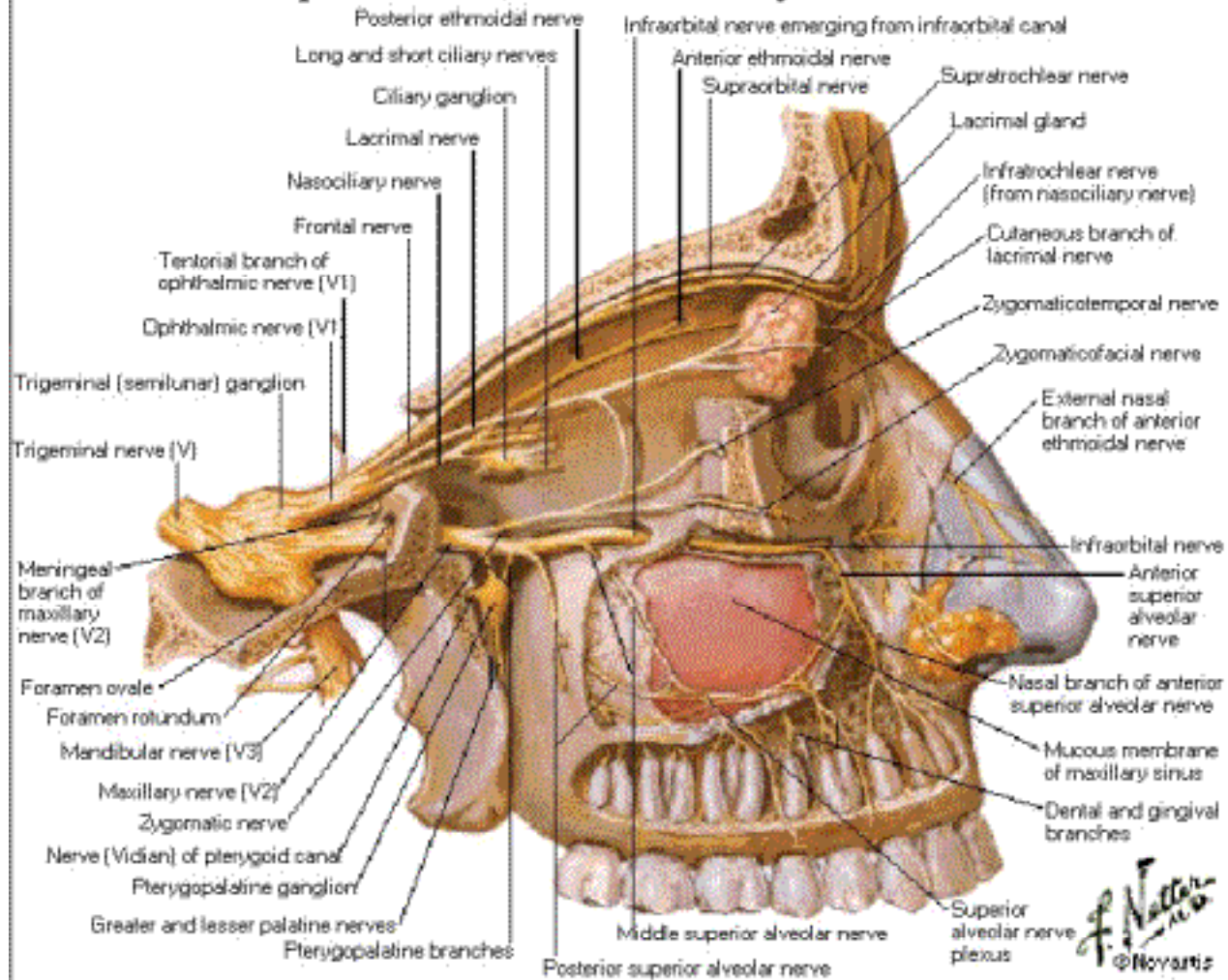
F. Netter  
M.D.  
© Novartis

# Autonomic Innervation of Nasal Cavity



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 © Novartis

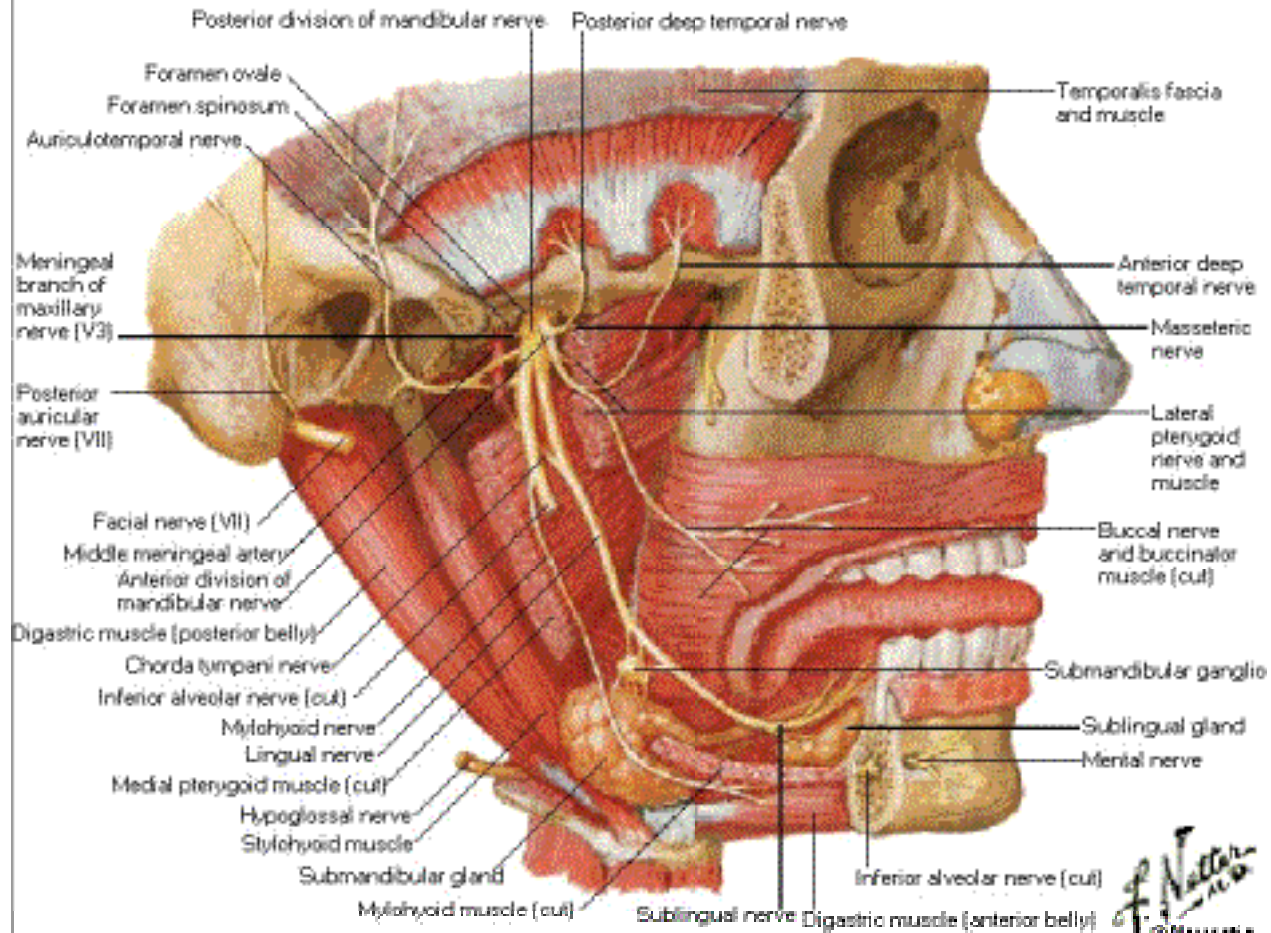
# Ophthalmic and Maxillary Nerves



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© 1997

# Mandibular Nerve [V3]

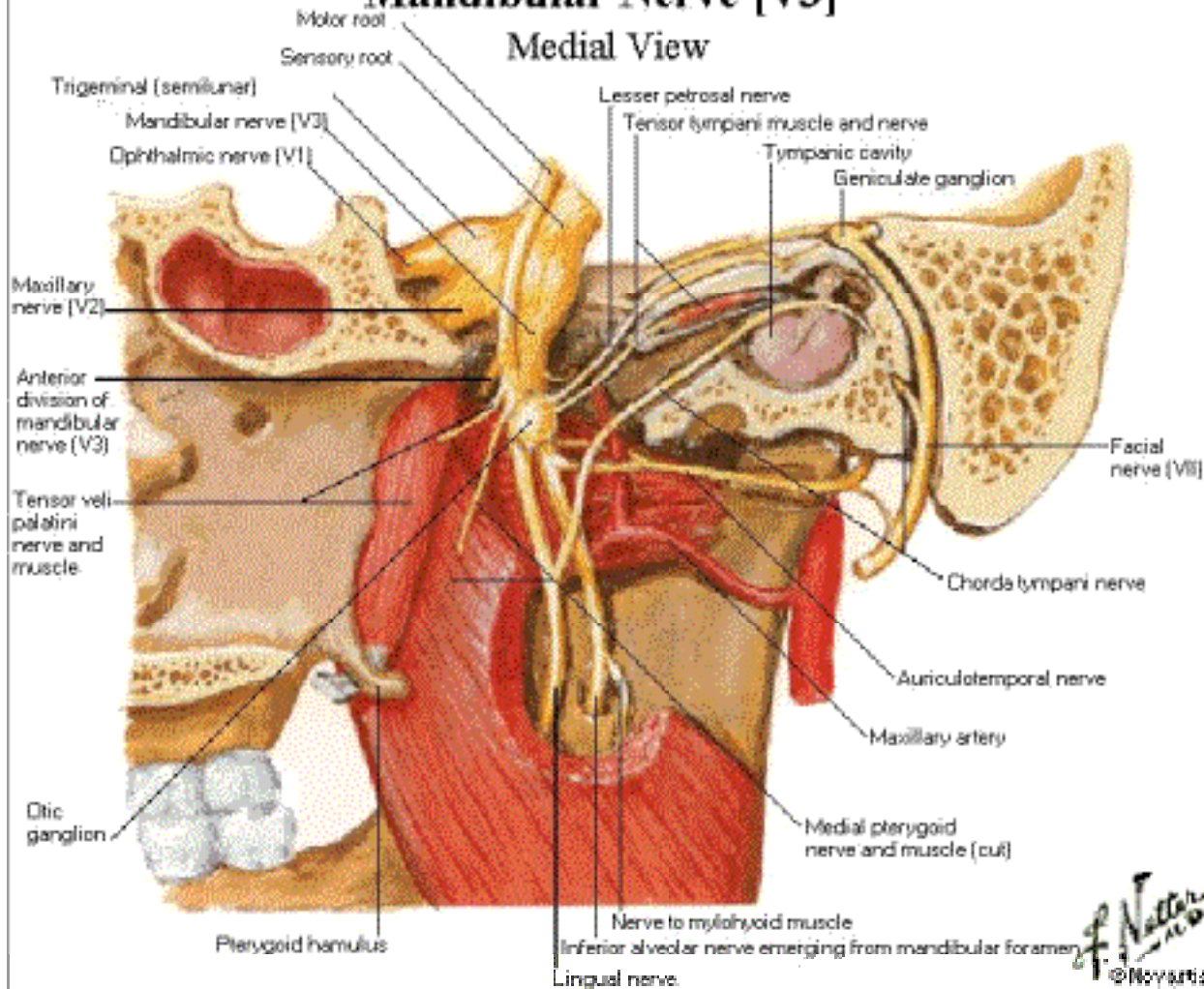
## Lateral View





# Mandibular Nerve [V3]

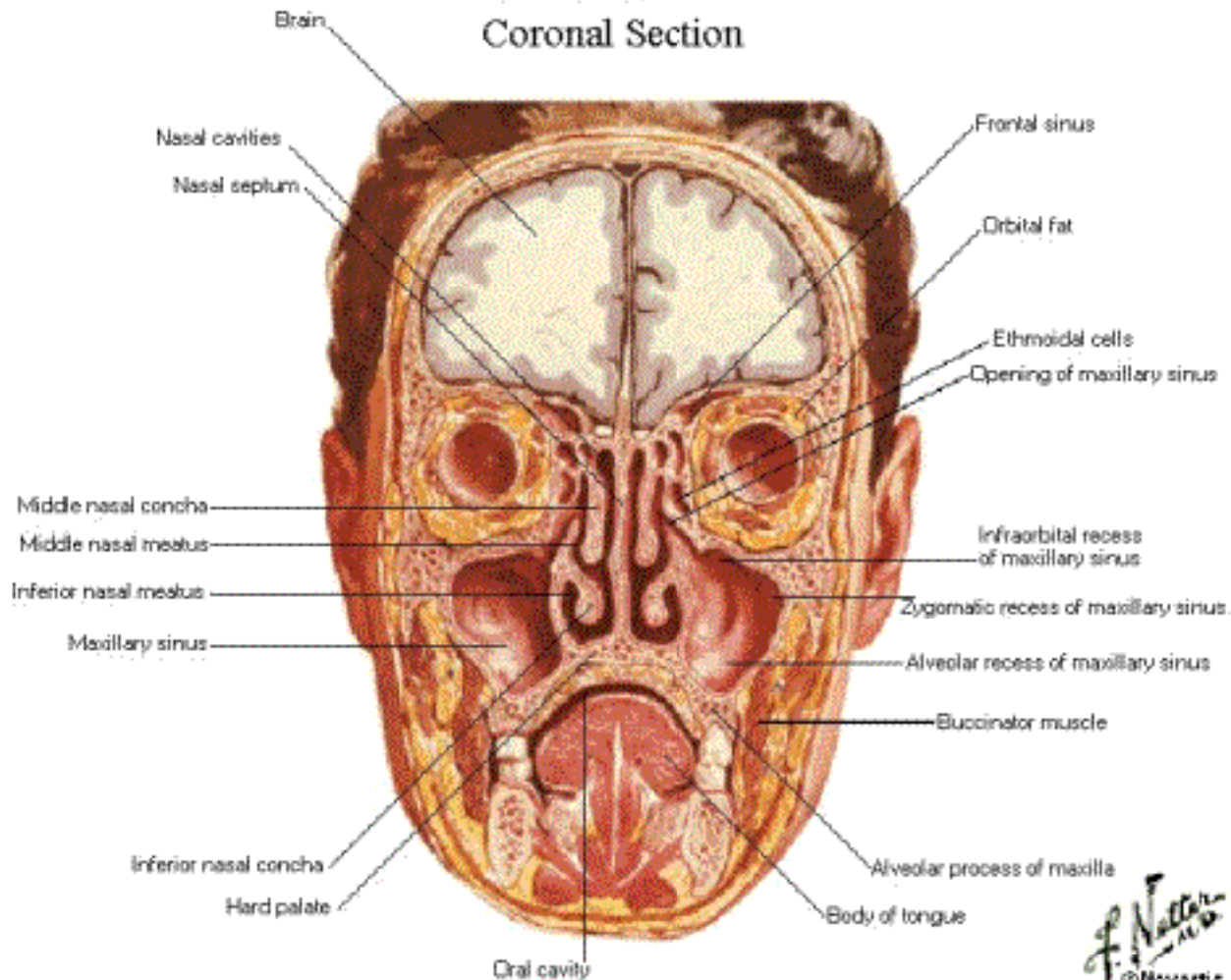
## Medial View



*f. Natter*  
© 2014

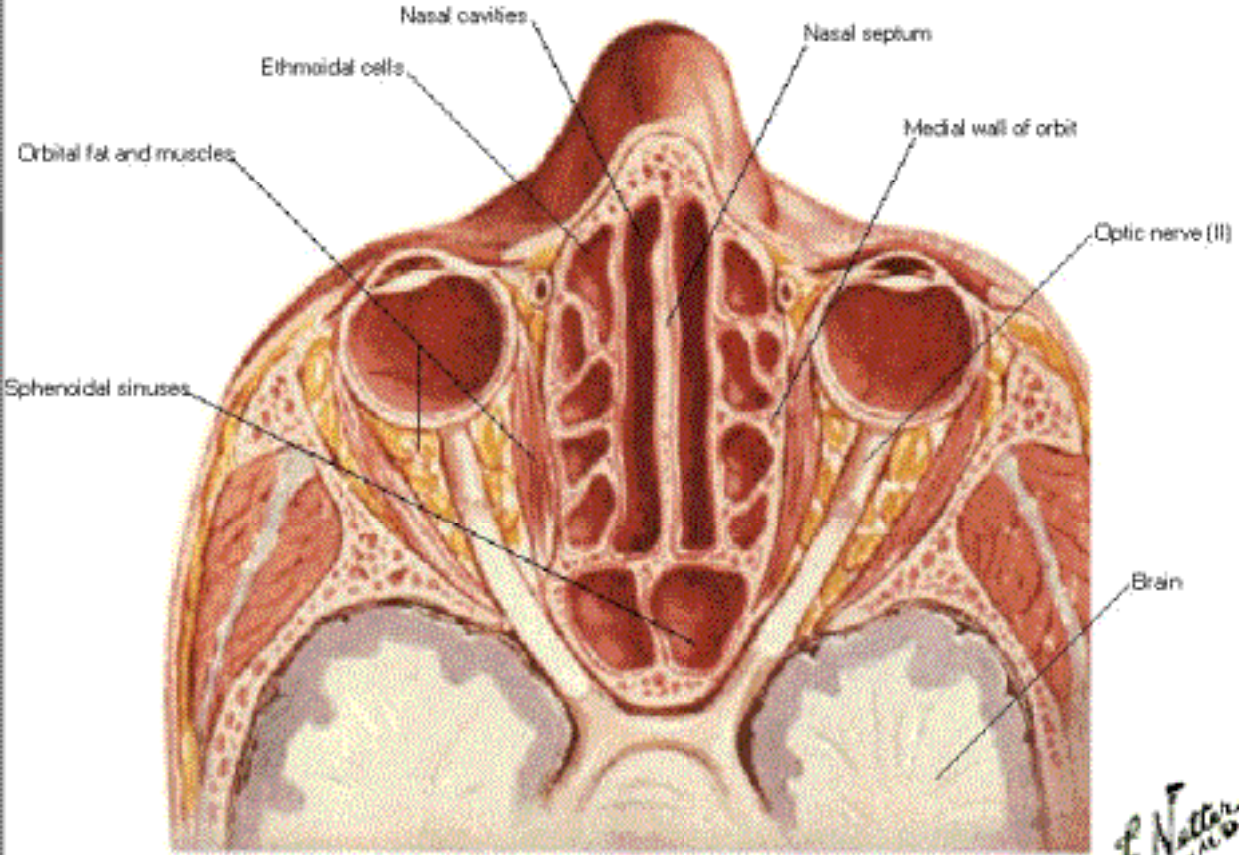
# Paranasal Sinuses

## Coronal Section



# Paranasal Sinuses

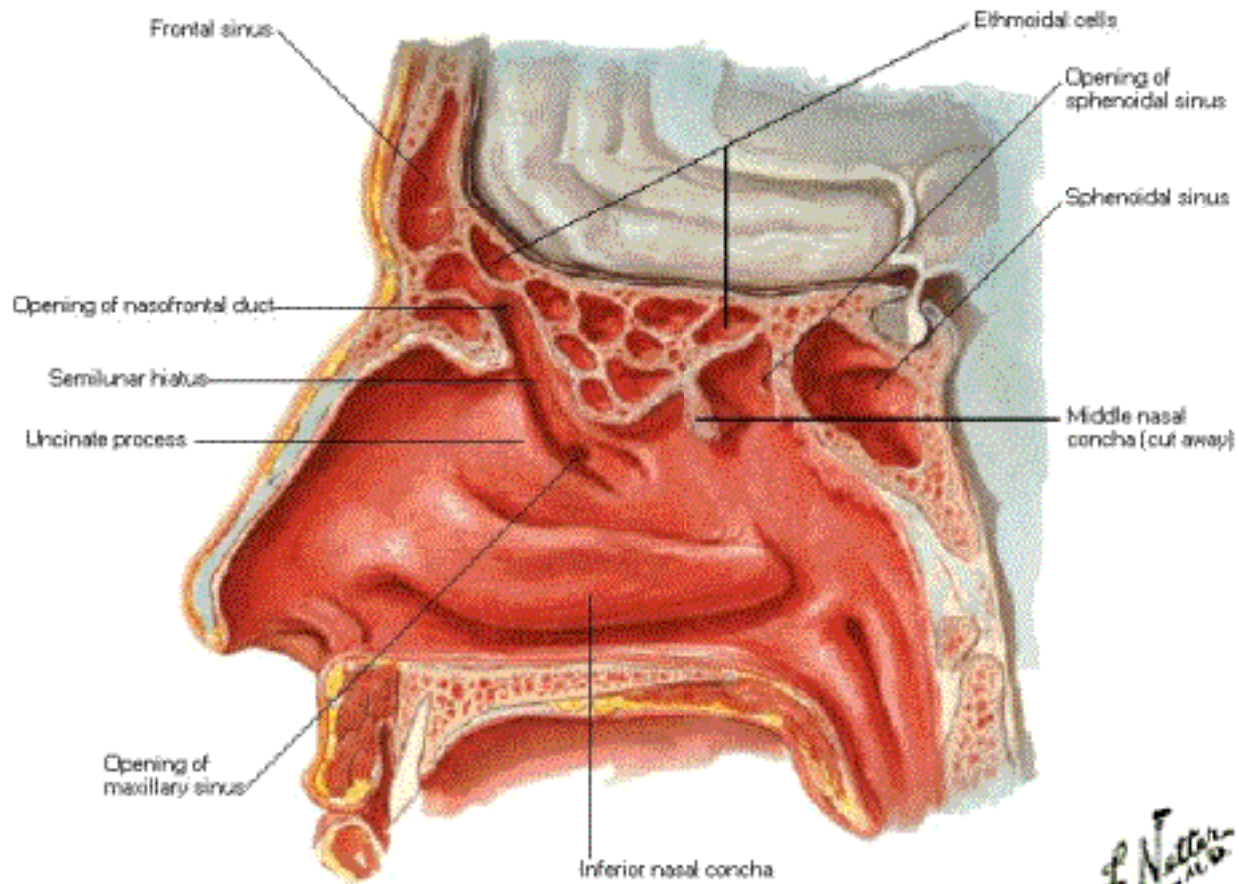
## Horizontal Section



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# Paranasal Sinuses

## Sagittal Section

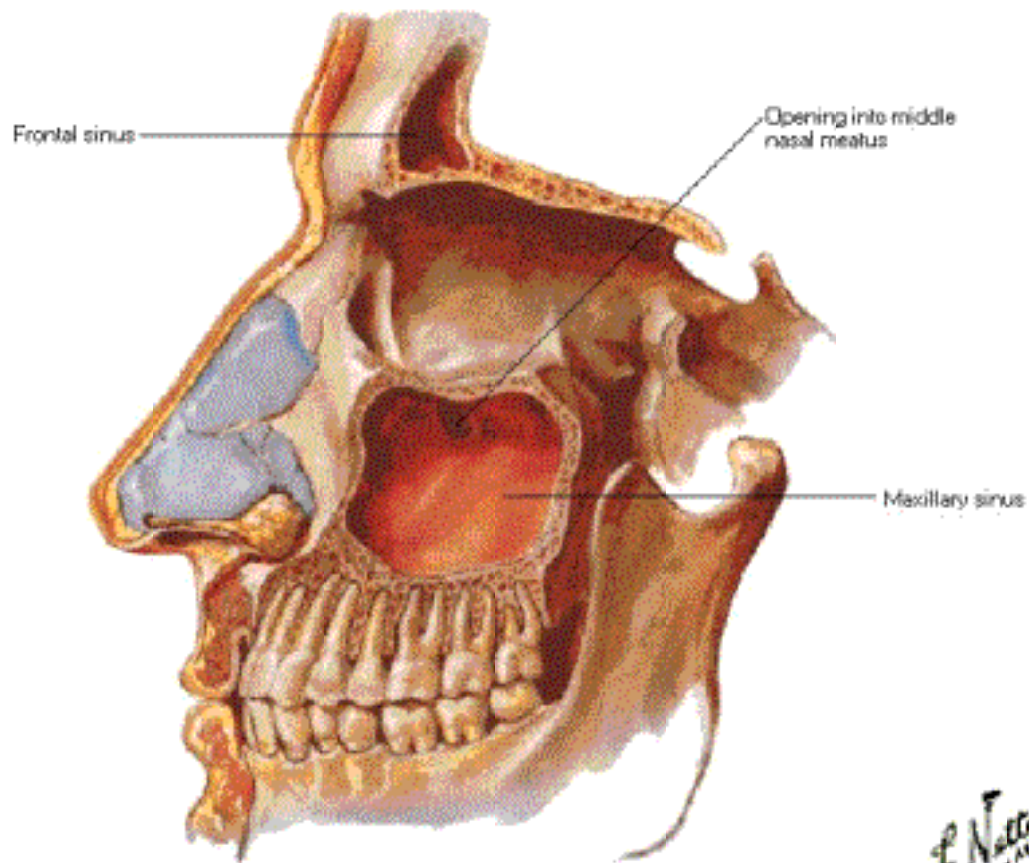


*F. Netter M.D.*  
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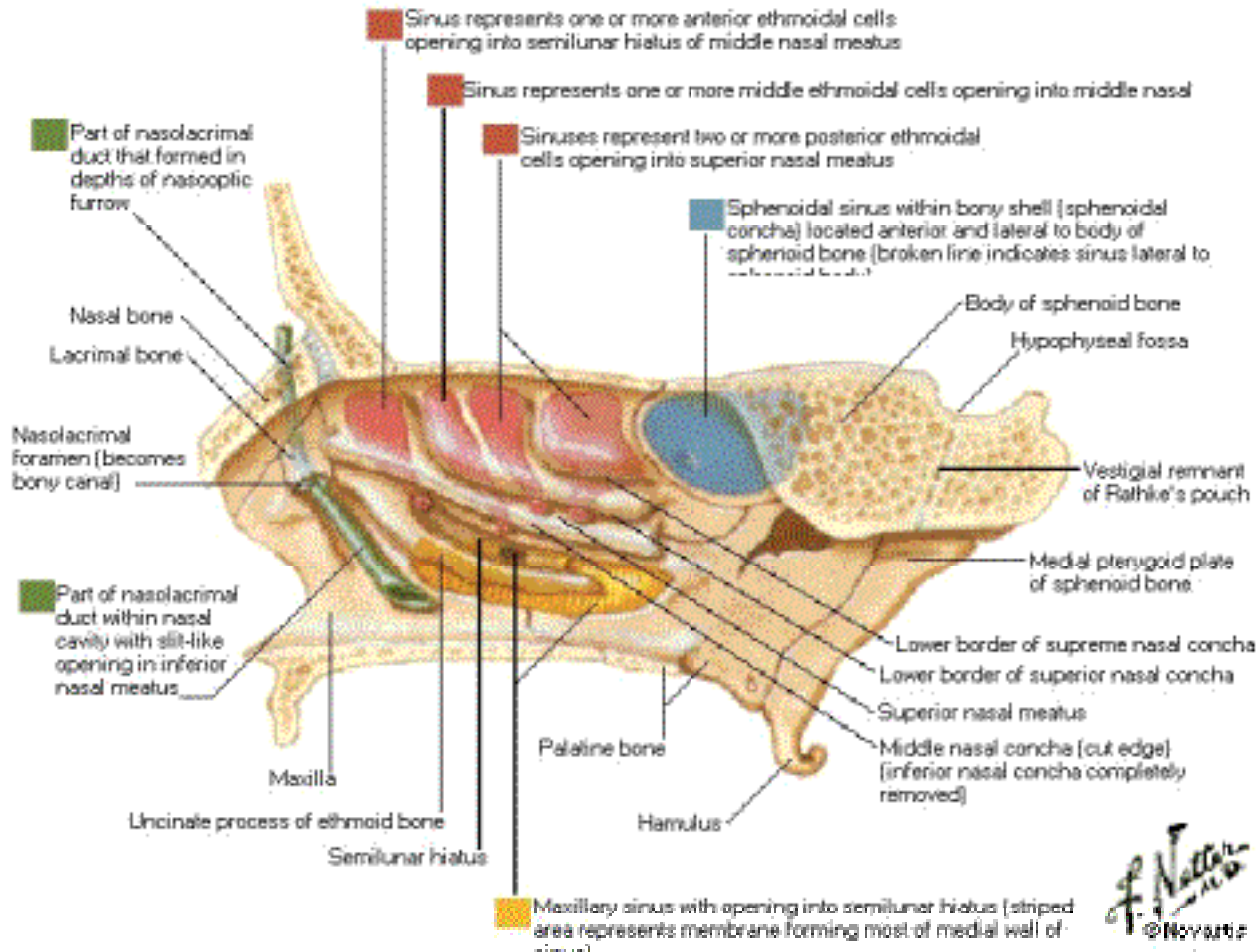
# Paranasal Sinuses

## Lateral Dissection



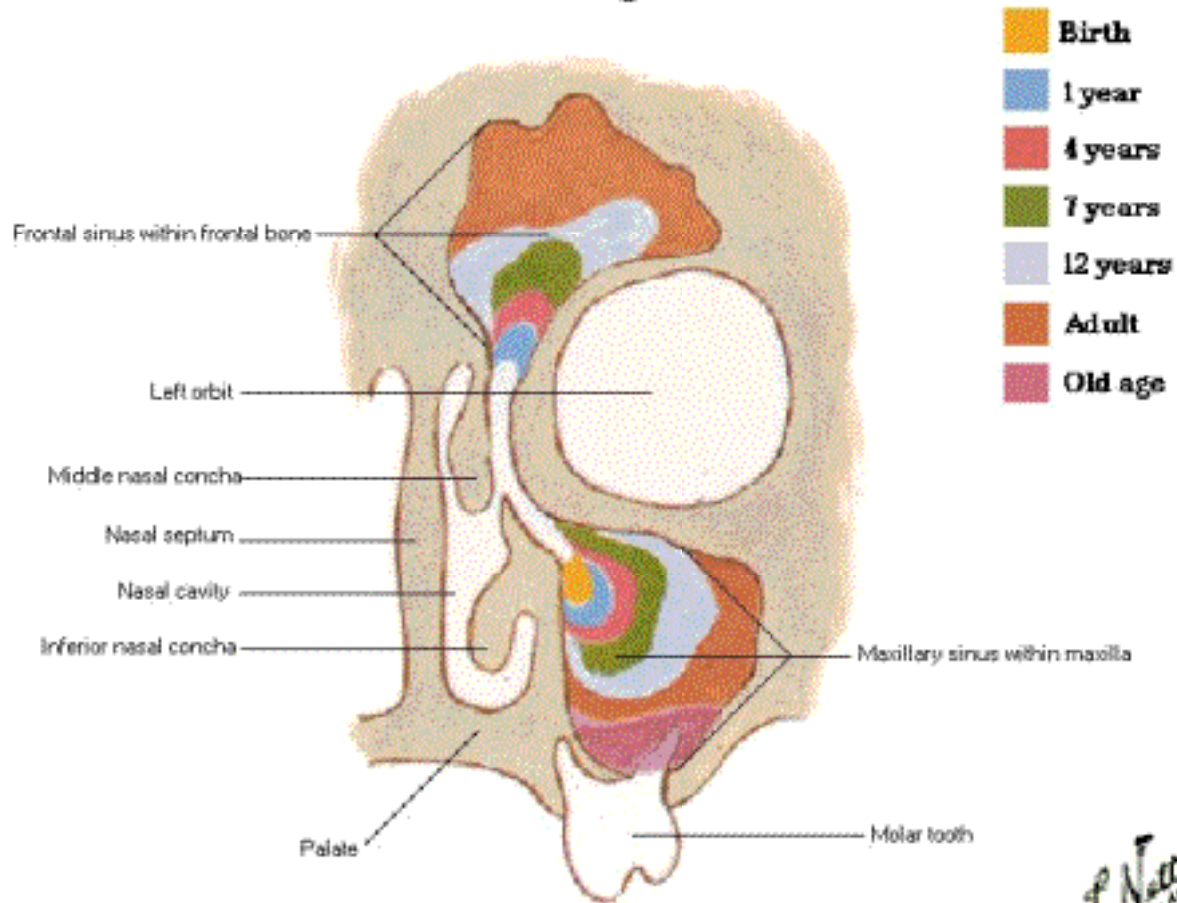
# Paranasal Sinuses

## At Birth



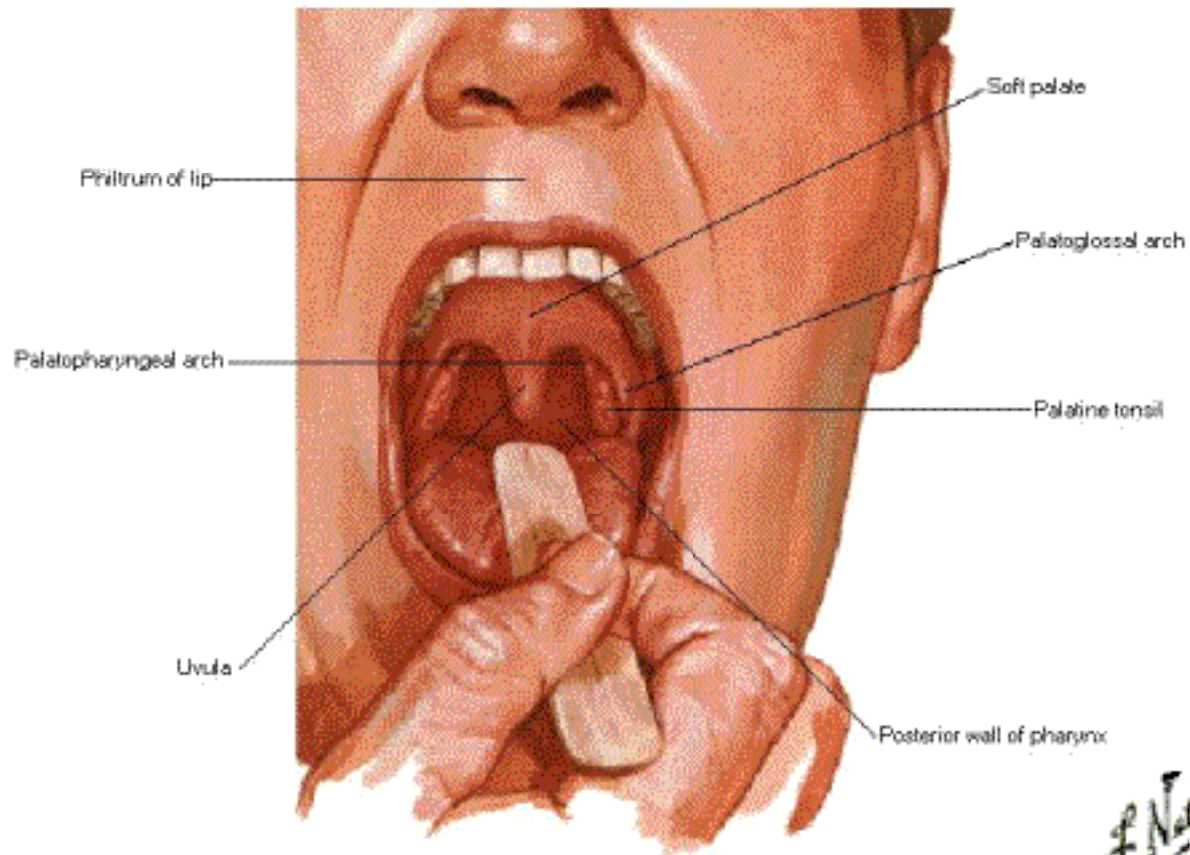
# Paranasal Sinuses

## Growth throughout Life



# Inspection of Oral Cavity

## Dorsum of Tongue and Palate

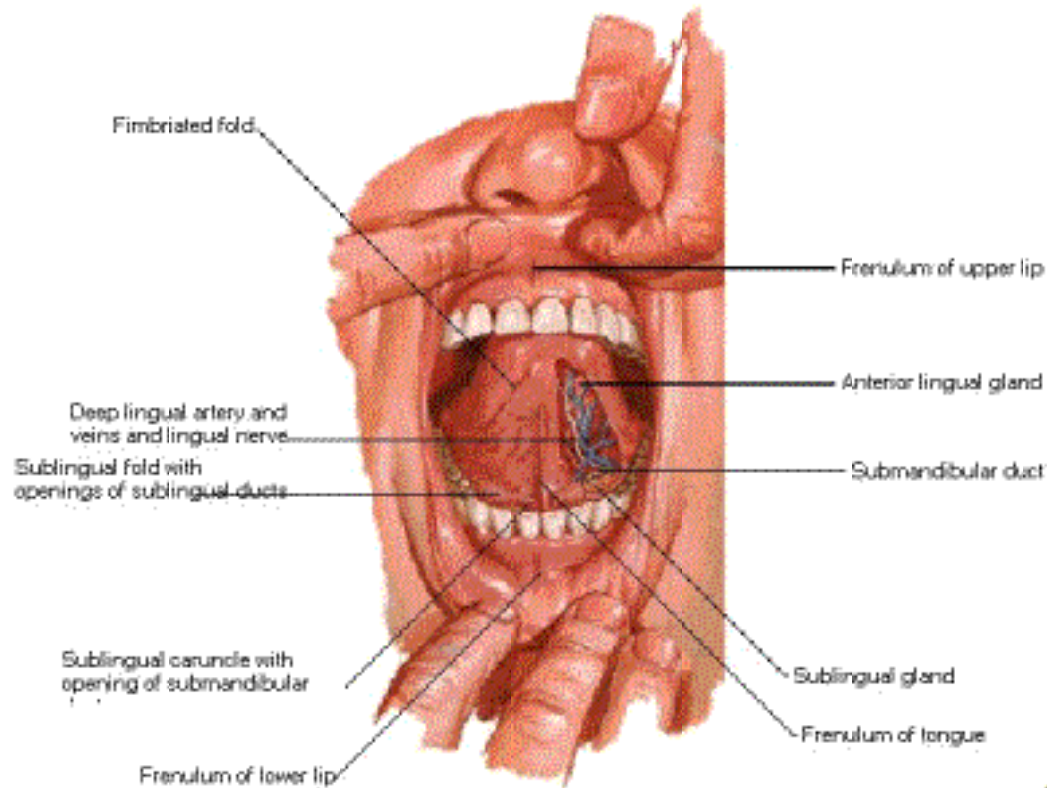


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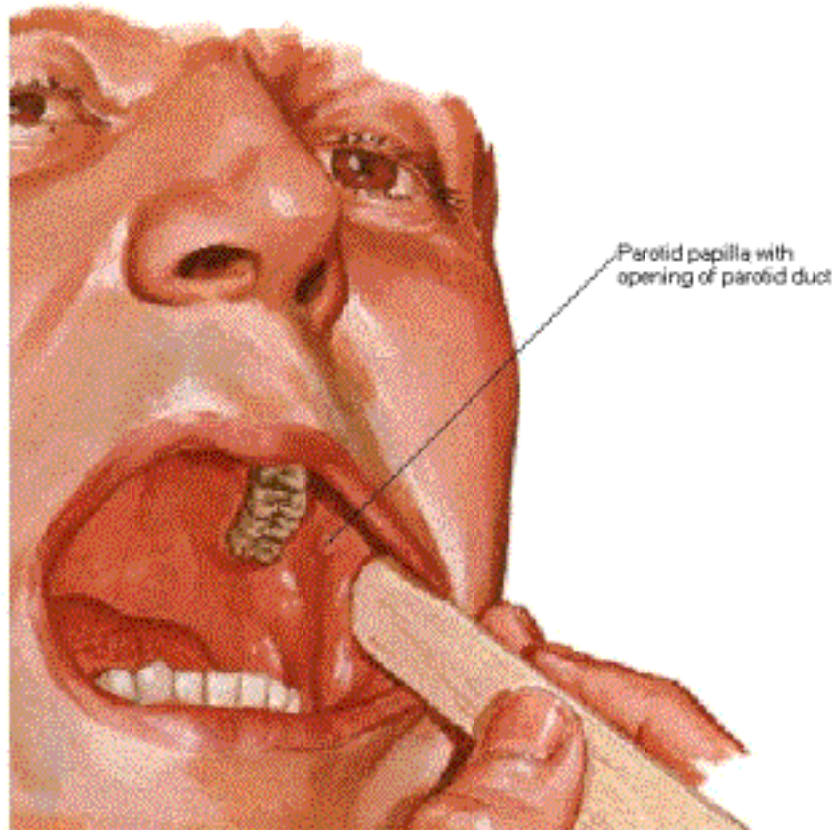
# Inspection of Oral Cavity

## Sublingual Region - Anterior Vestibule



# Inspection of Oral Cavity

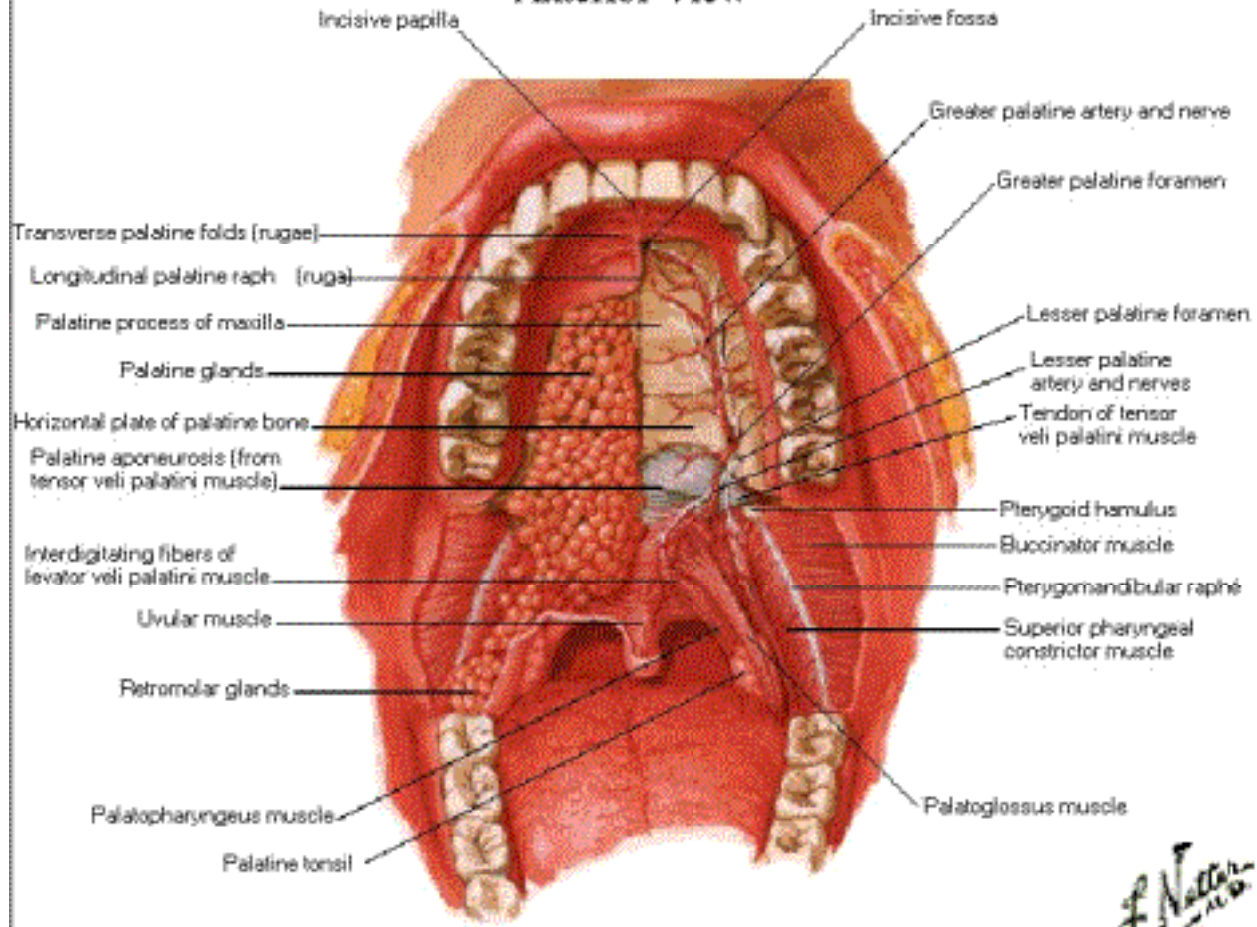
## Lateral Oral Vestibule



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# Roof of Mouth - Hard and Soft Palates

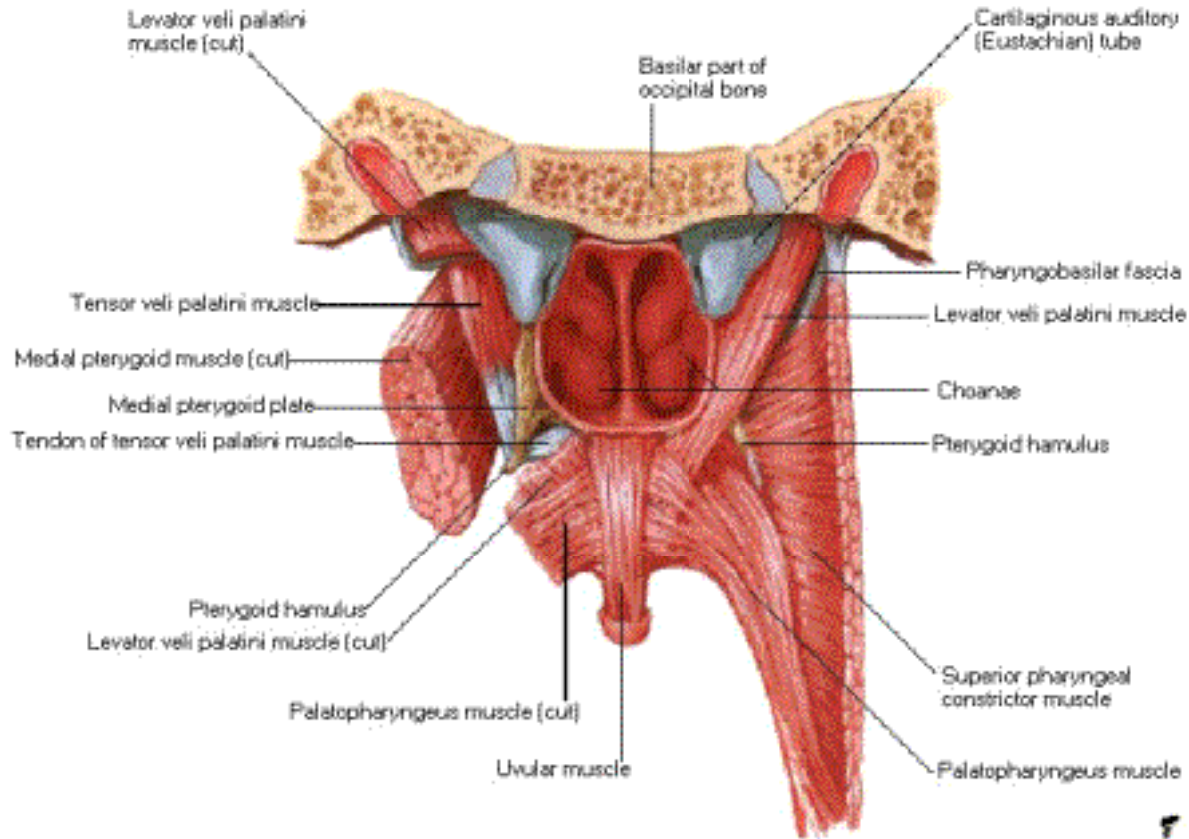
## Anterior View



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© 1996

# Roof of Mouth - Soft Palate

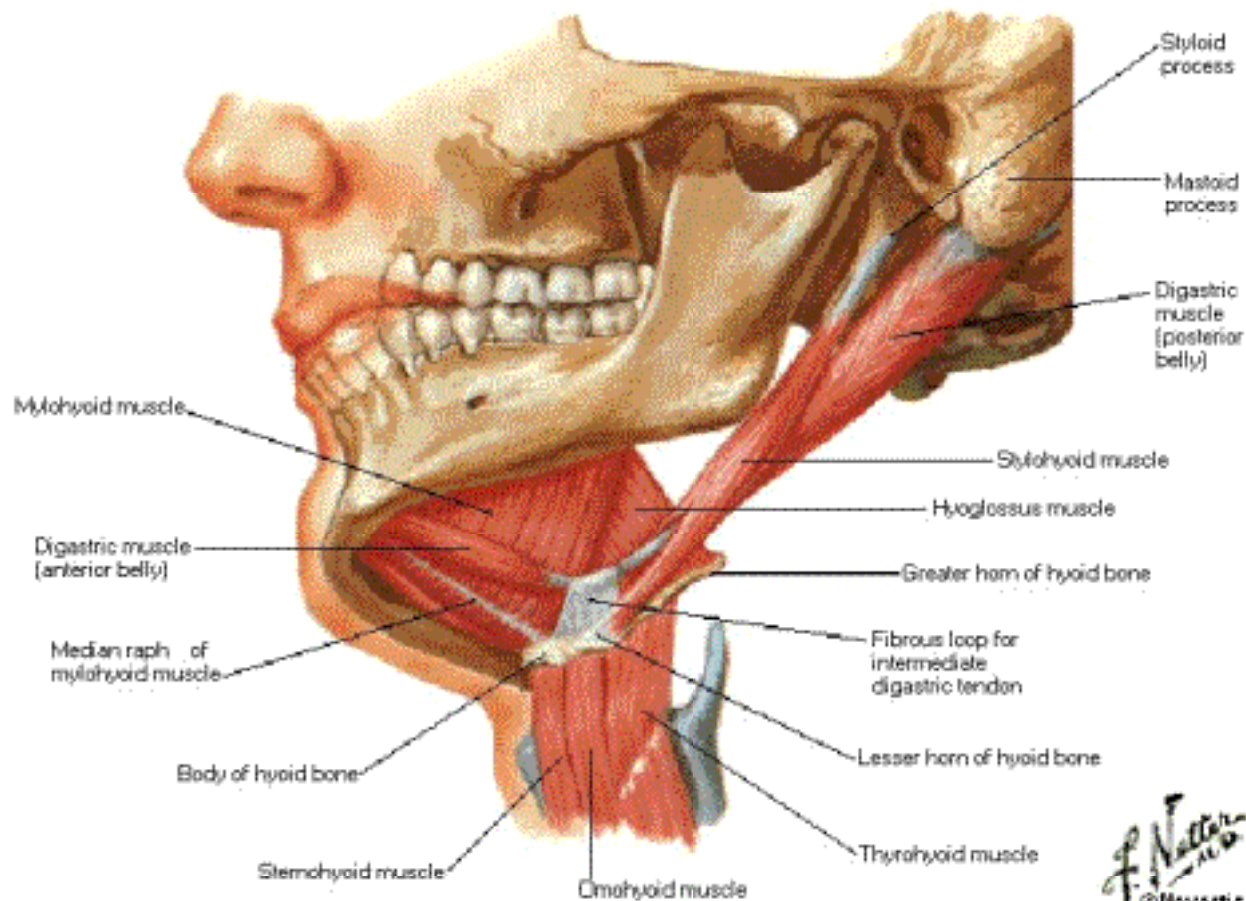
## Posterior View





# Floor of Mouth - Musculature

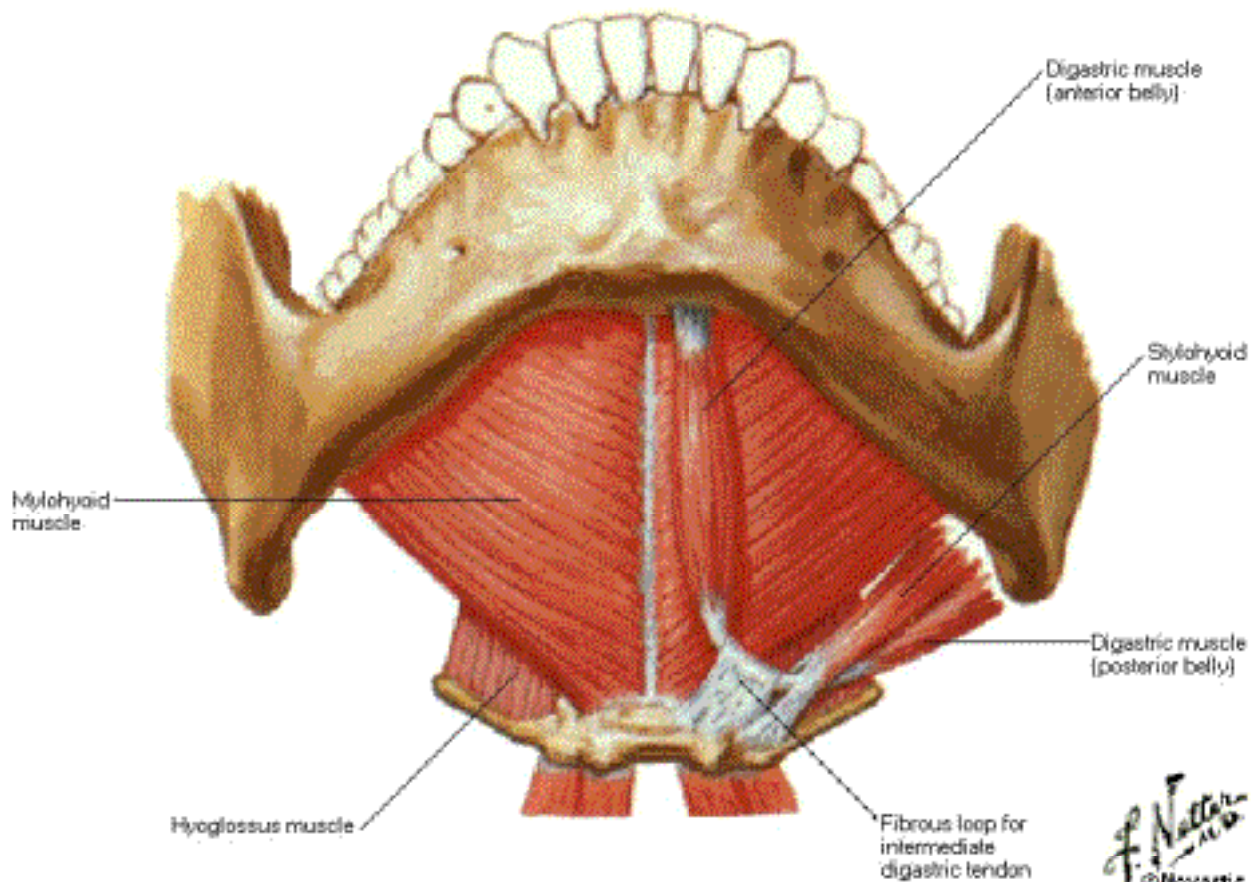
Lateral, Slightly Inferior View



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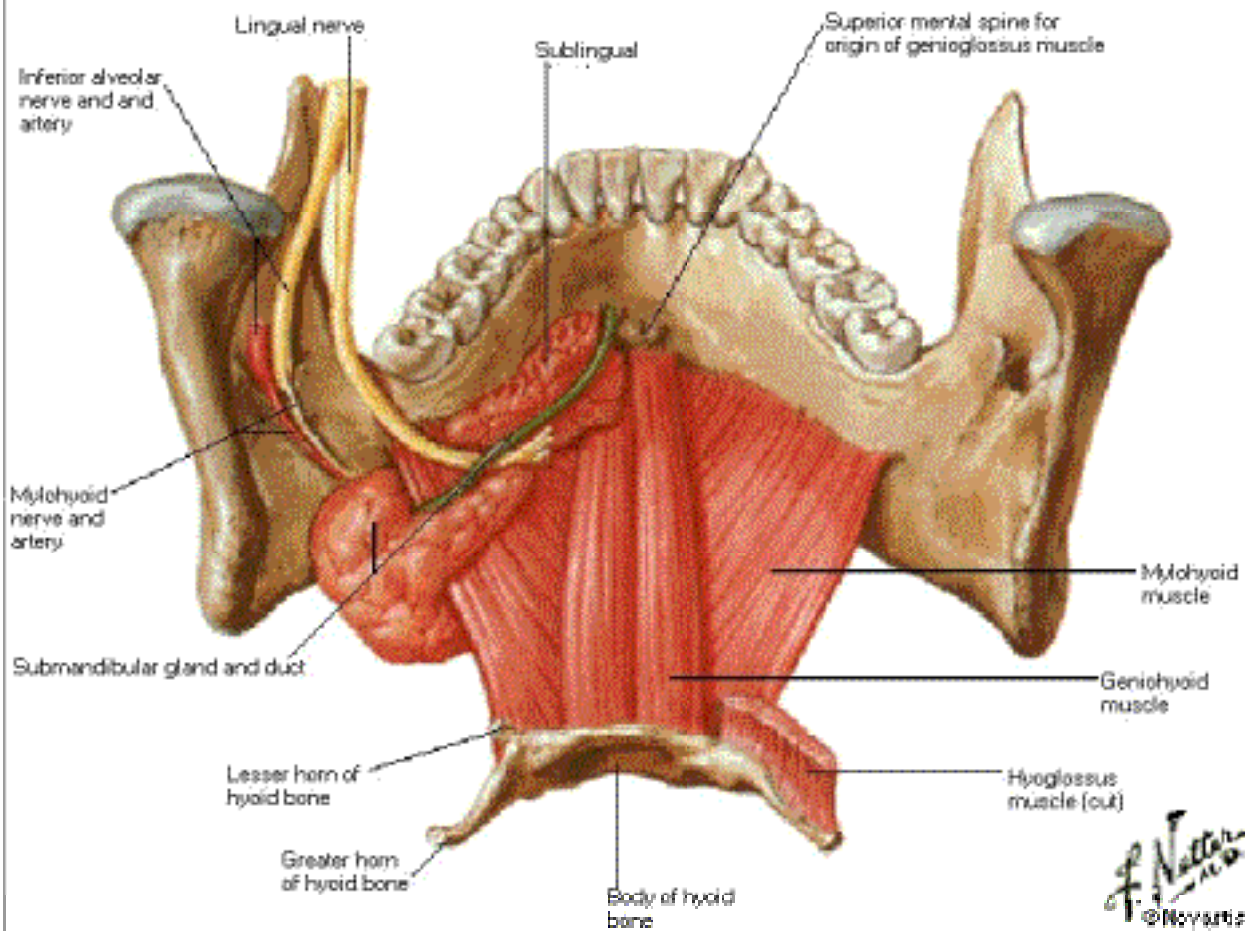
# Floor of Mouth - Musculature

## Anteroinferior View



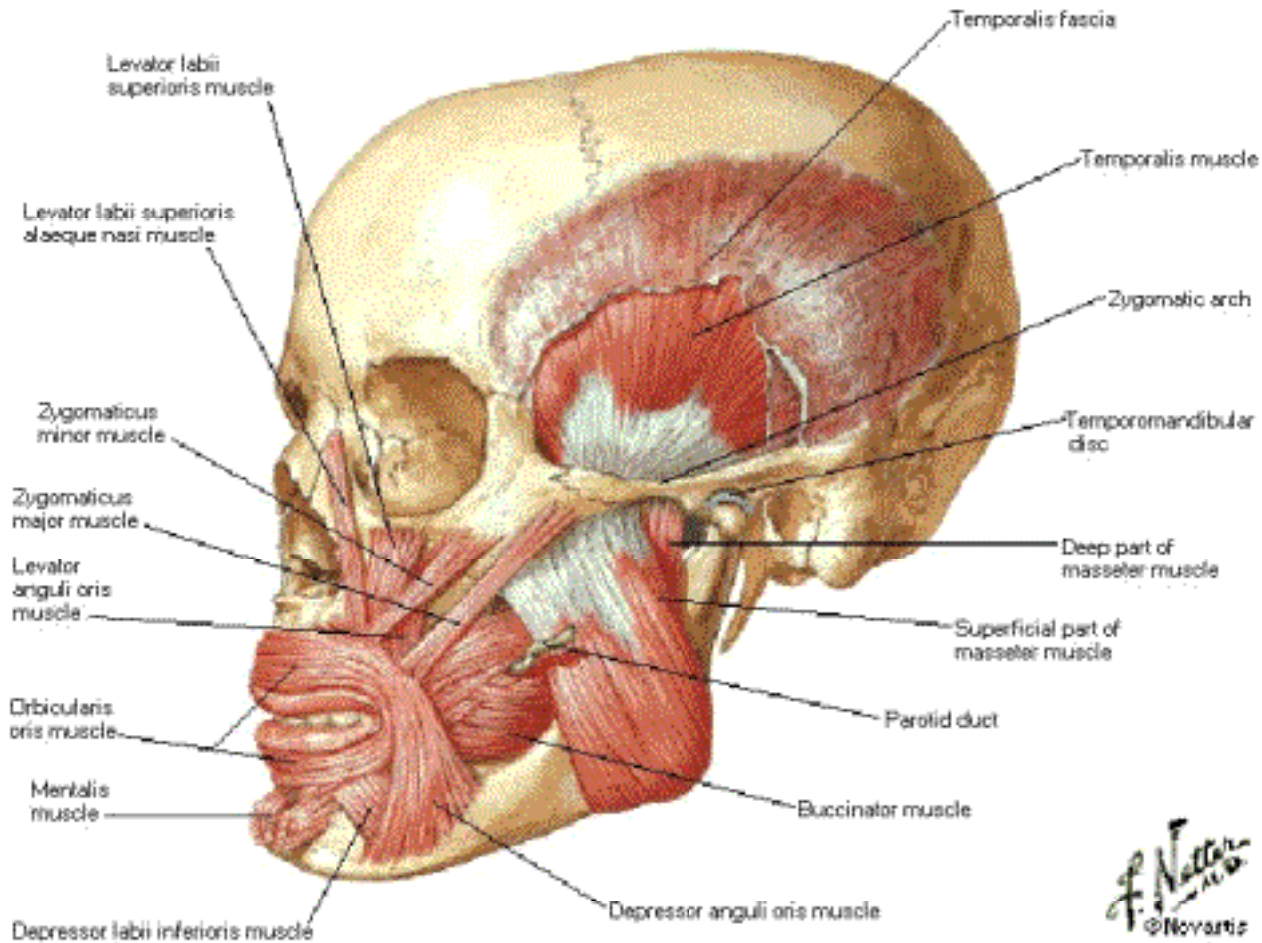
# Floor of Mouth - Musculature

## Posterosuperior View



# Muscles Involved in Mastication

## Lateral View

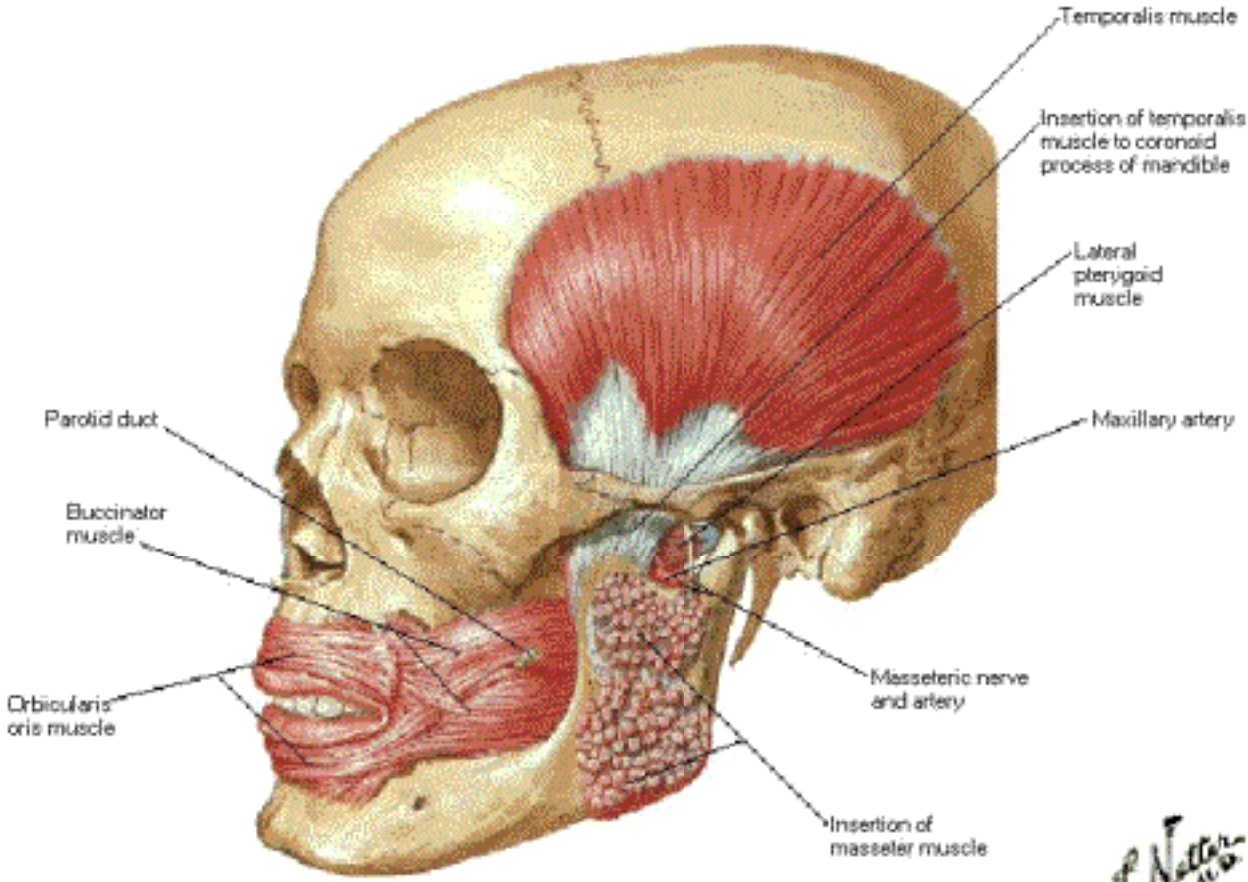


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# Muscles Involved in Mastication - Masseter Removed

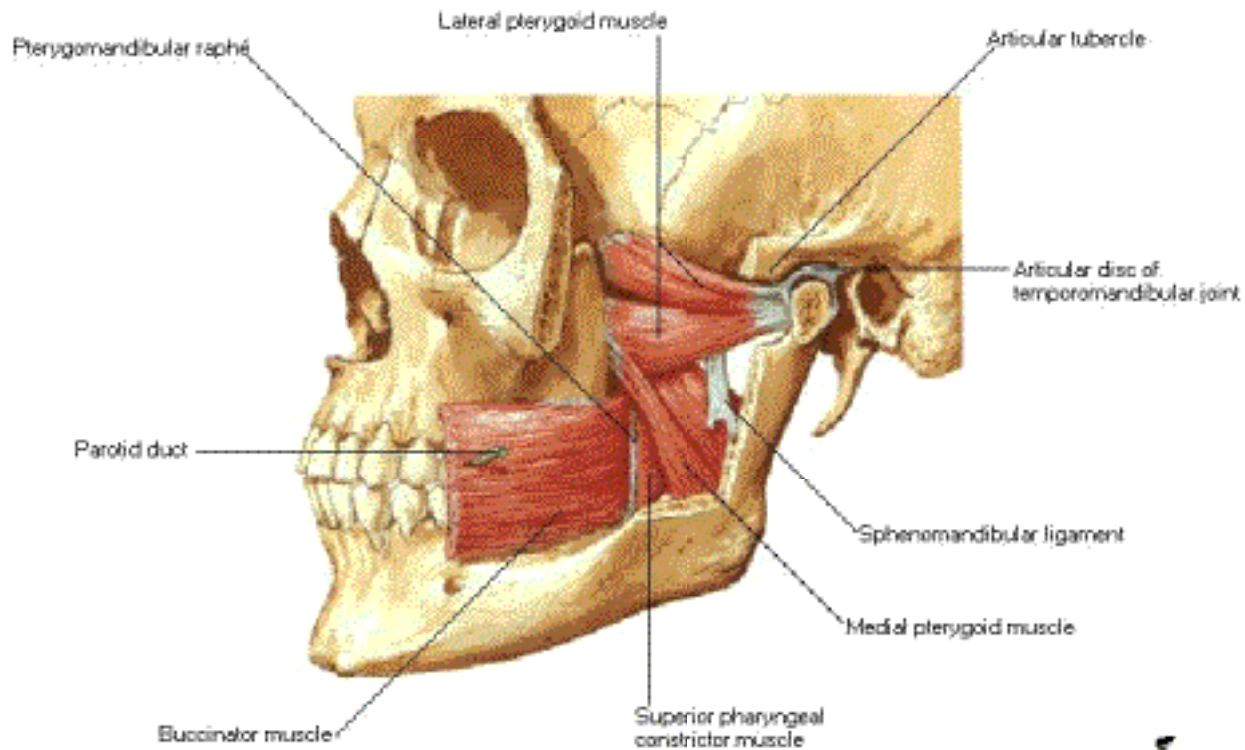
## Lateral View



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# Muscles Involved in Mastication [Deep]

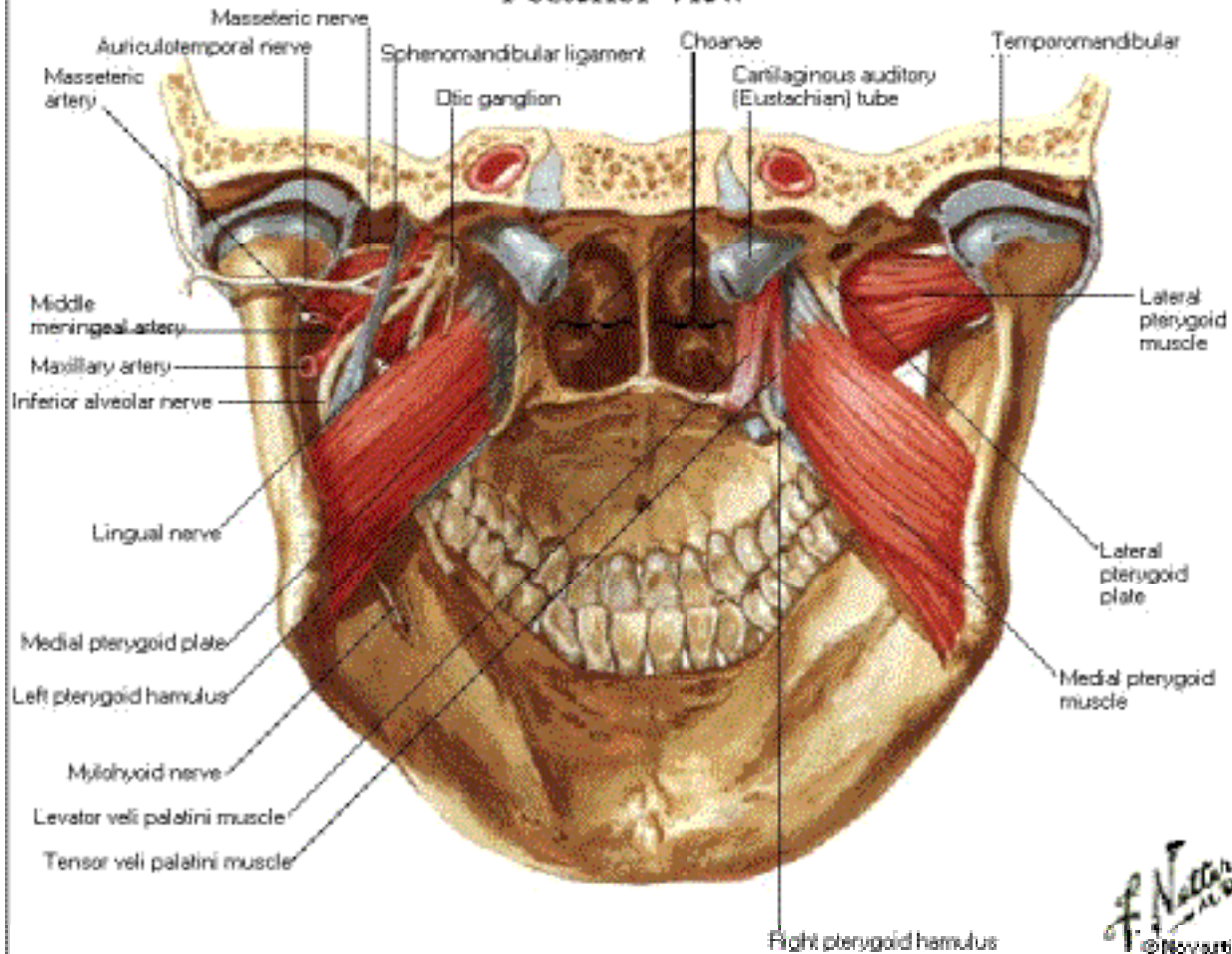
## Lateral View



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# Muscles Involved in Mastication [Deep]

## Posterior View

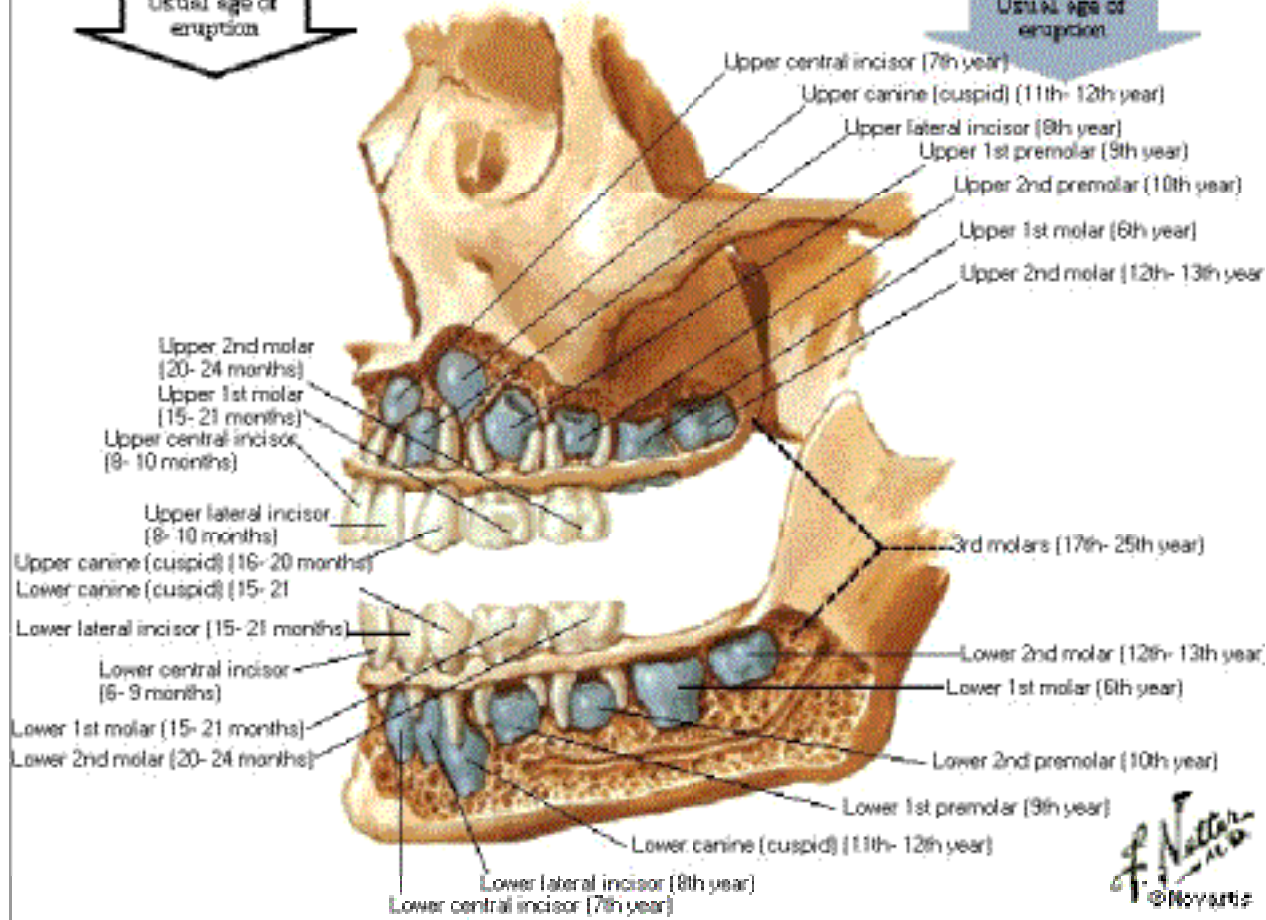


# Teeth - Deciduous and Permanent

## Age of Eruptions

Deciduous  
(primary)  
Usual age of  
eruption

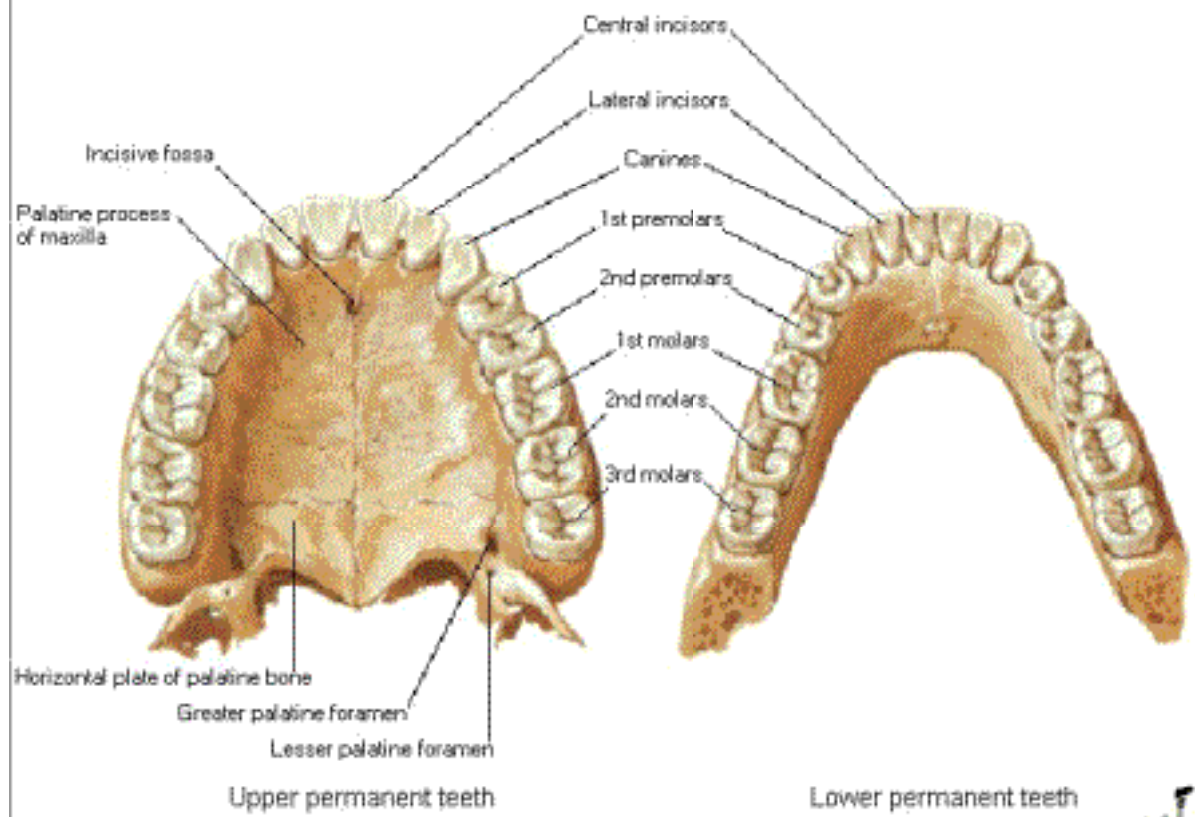
Permanent  
(colored blue)  
Usual age of  
eruption



F. Netter  
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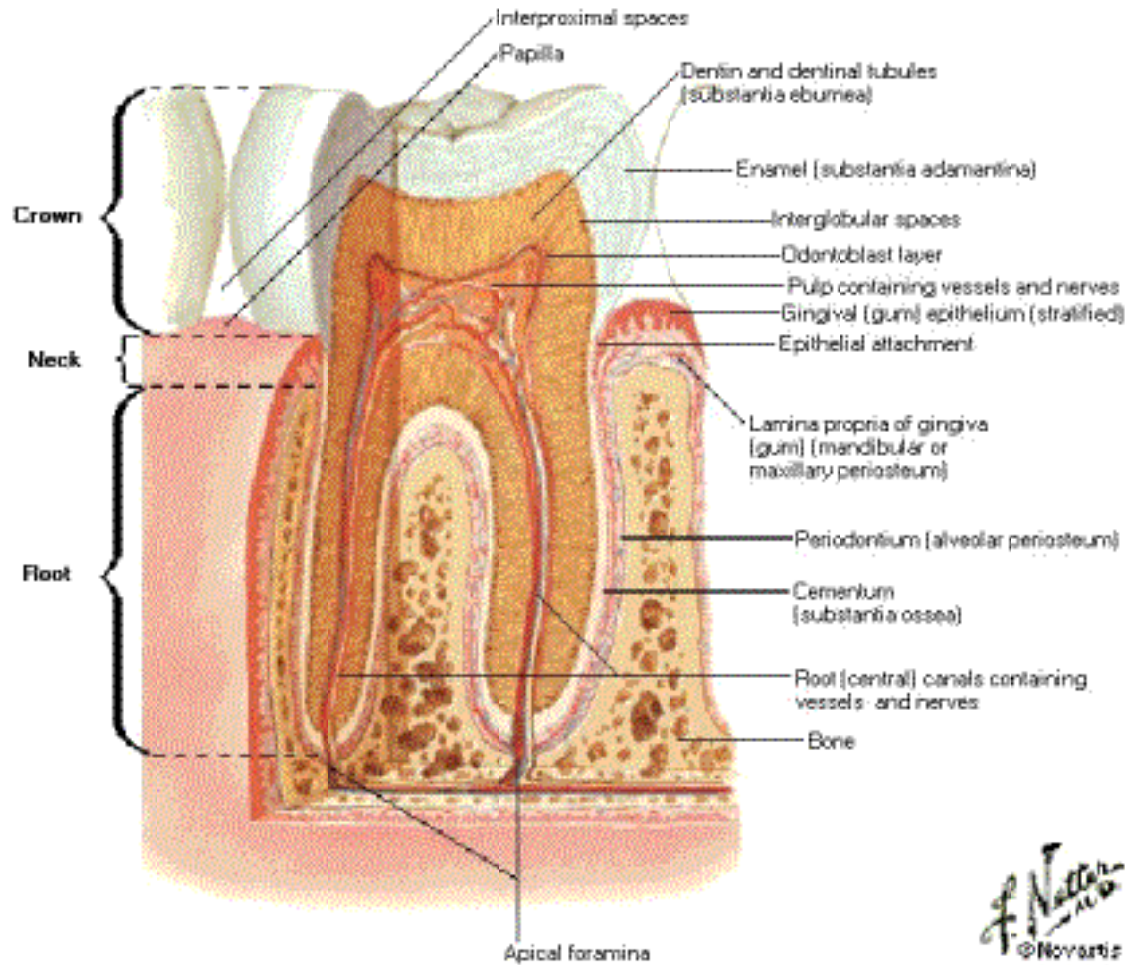


# Teeth - Upper and Lower Permanent



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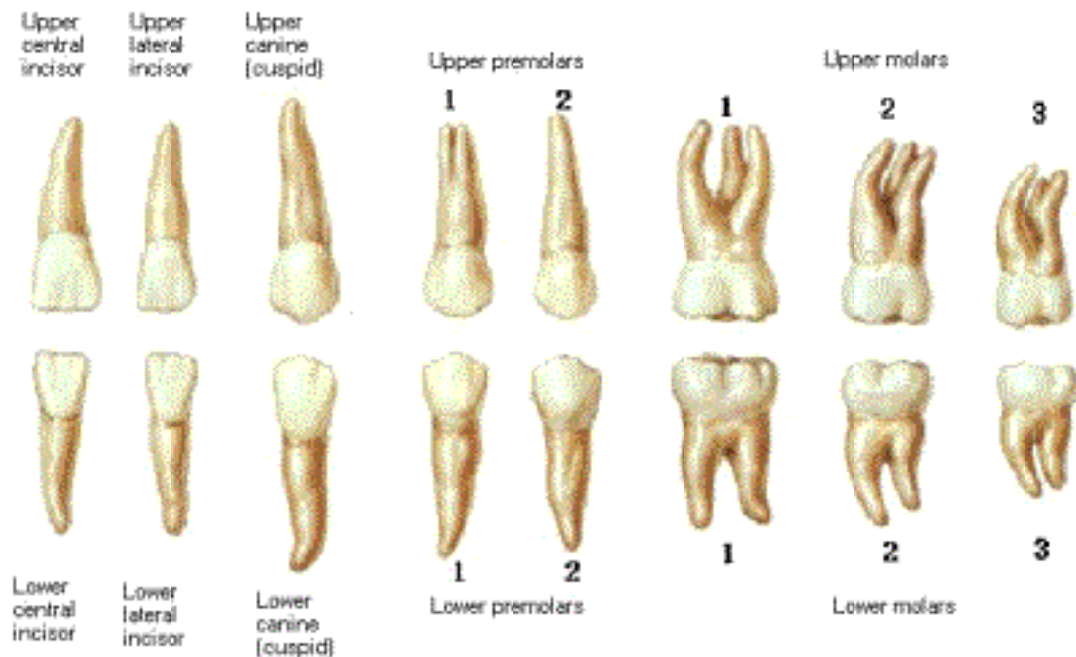
# Anatomy of a Tooth



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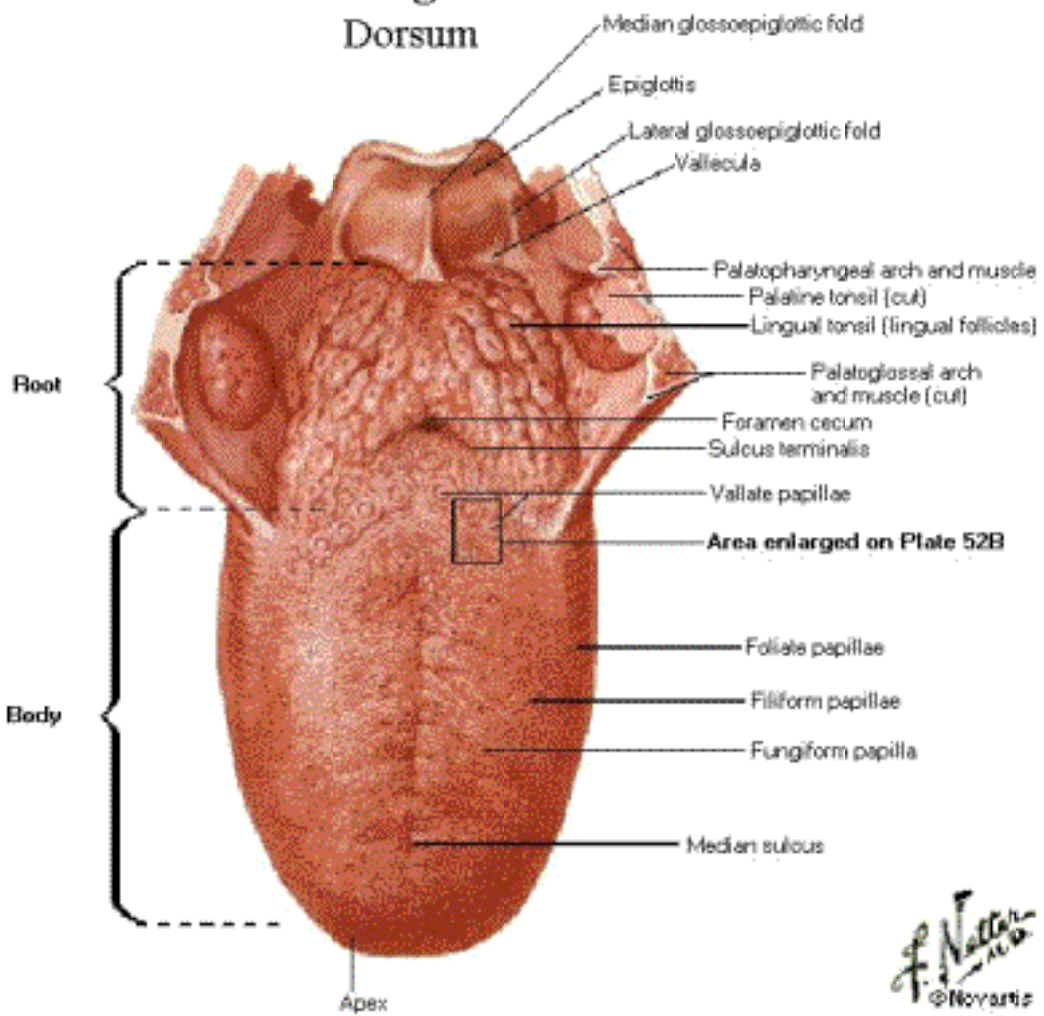
# Teeth - Left Upper and Left Lower Permanent

## Labiobuccal View



# Tongue

## Dorsum

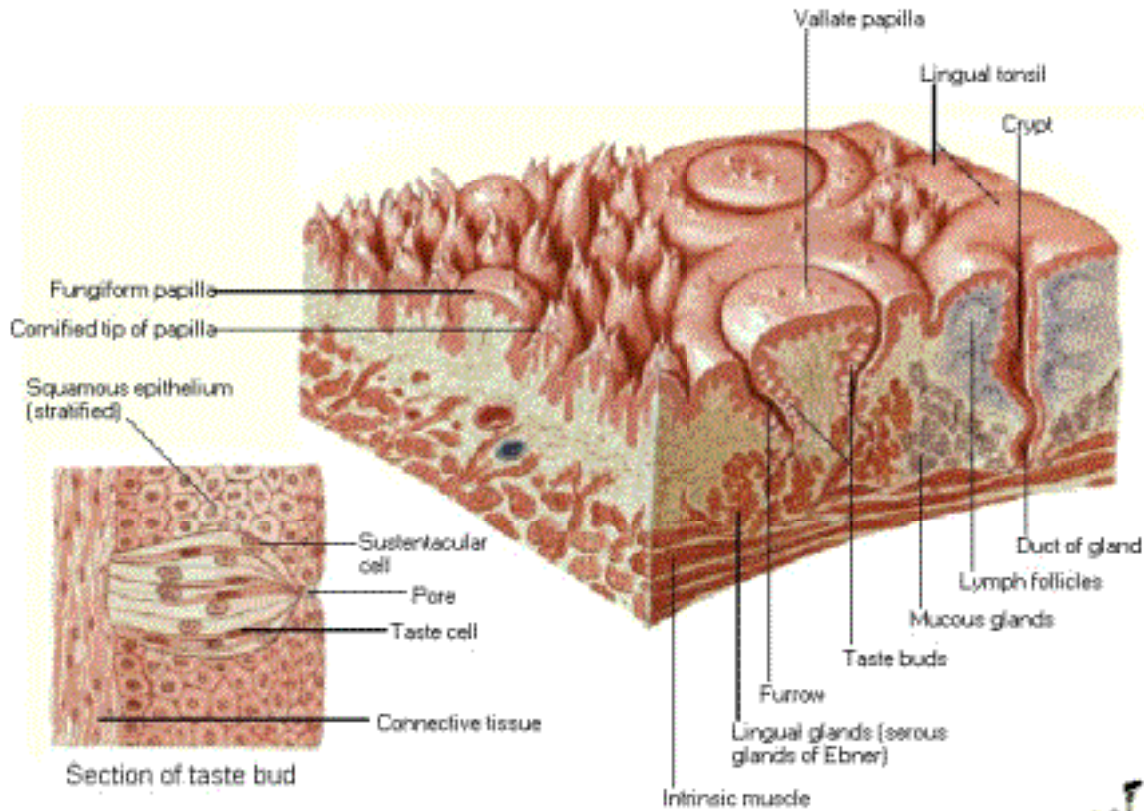


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# Tongue - Schematic Stereogram

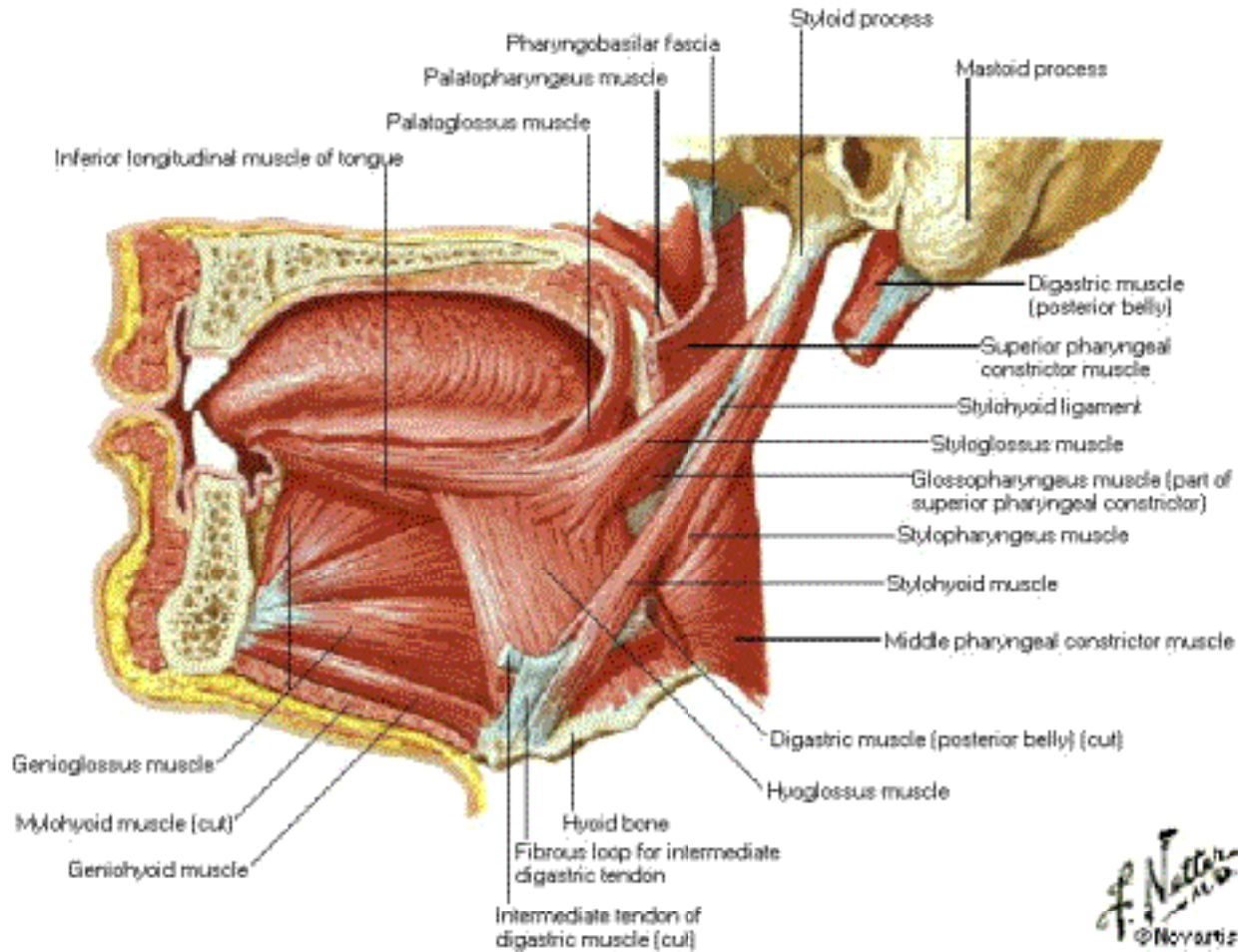
Area Indicated on Plate 52A



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# Muscles of Tongue

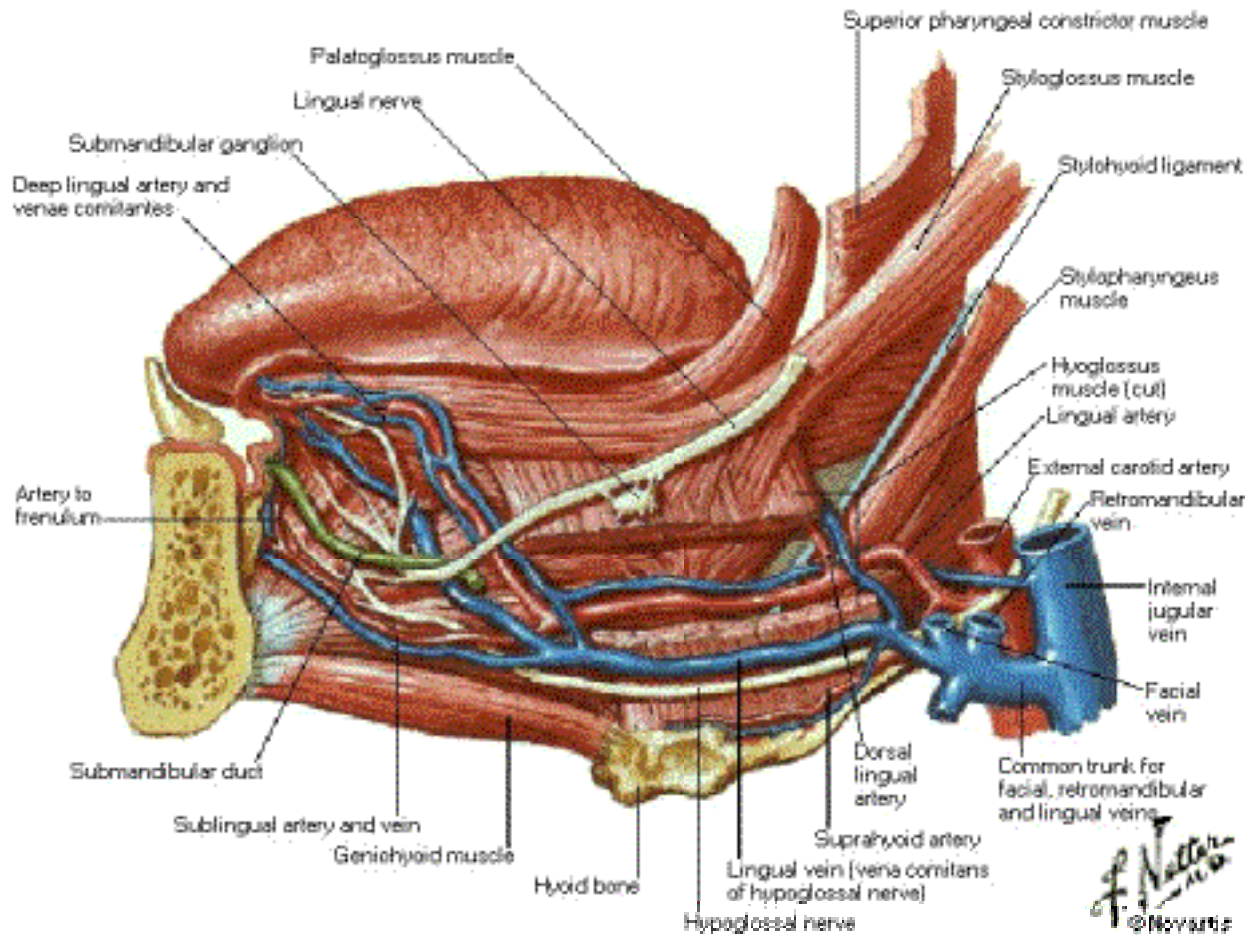
## Sagittal Section



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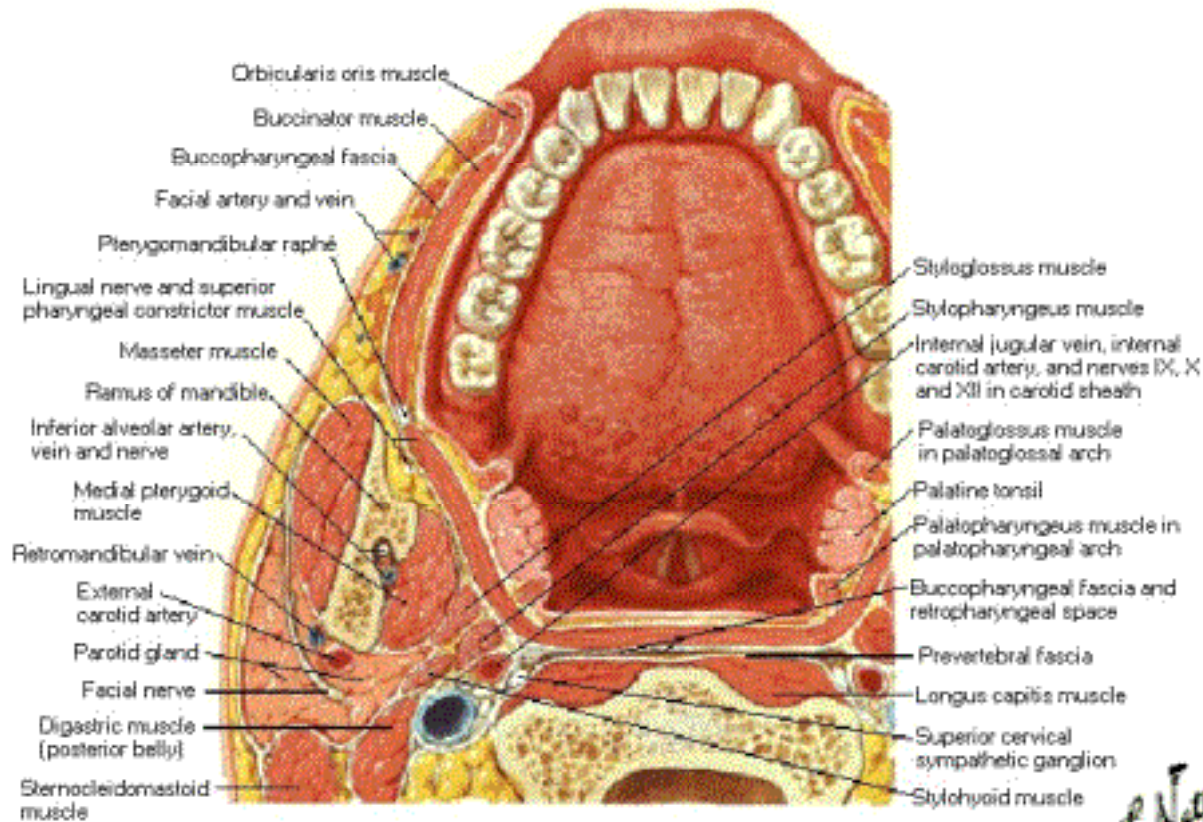
# Tongue and Related Structures

## Sagittal Section



# Tongue and Mouth

## Horizontal Section - Superior View



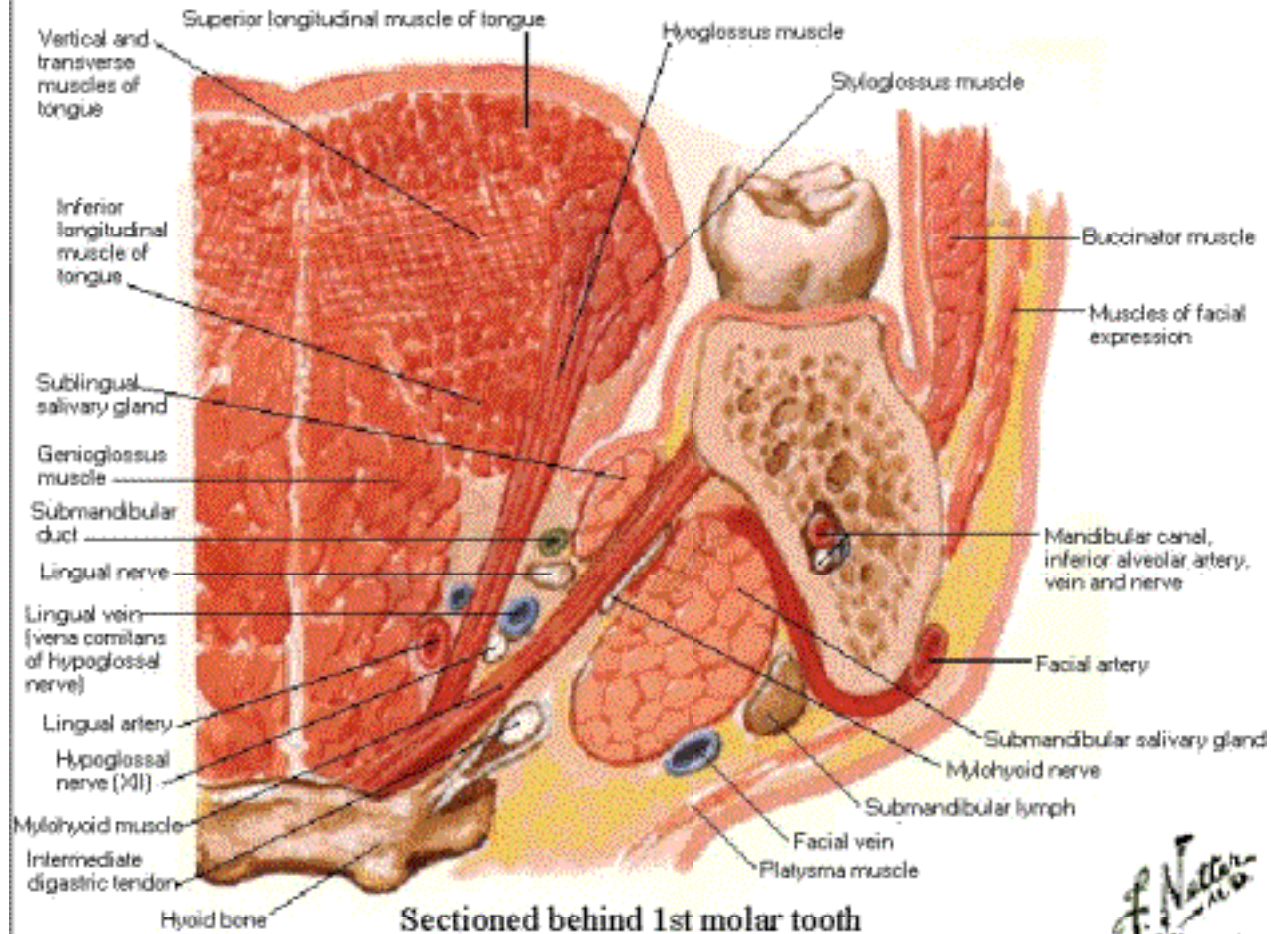
Sectioned below lingula of mandible

*F. Netter*  
© Novartis



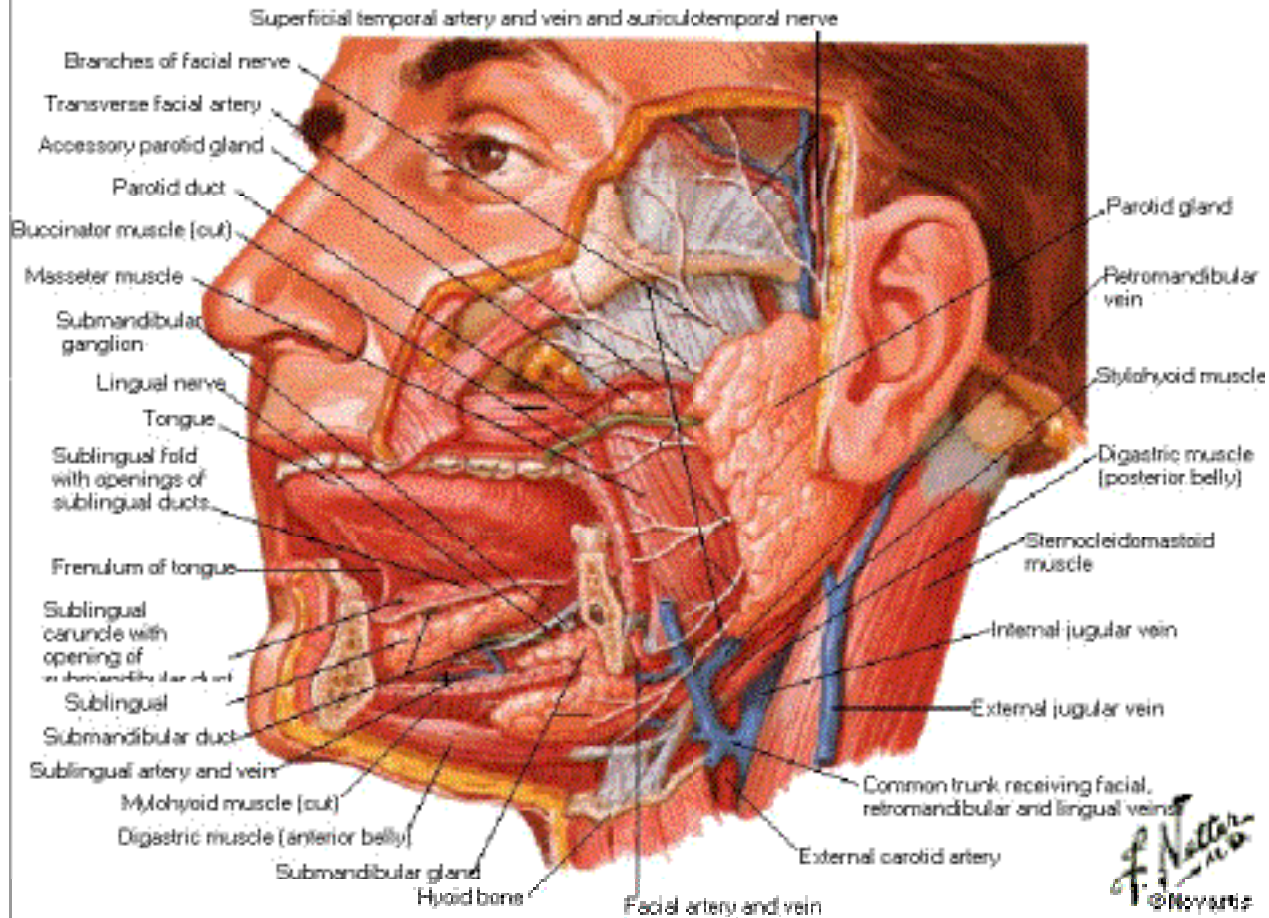
# Tongue and Mouth

## Frontal Section - Anterior View



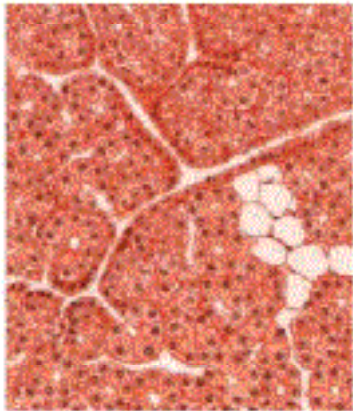
*F. Netter M.D.*  
© 1996

# Salivary Glands Dissection

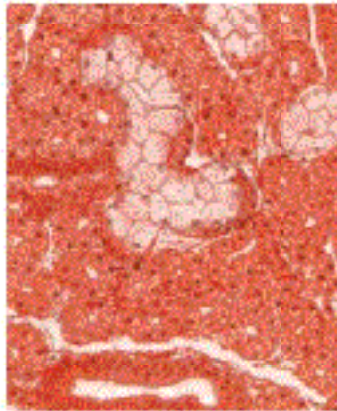


# Salivary Glands

## Histology



Parotid gland: totally serous



Submandibular gland: mostly serous, partially mucous

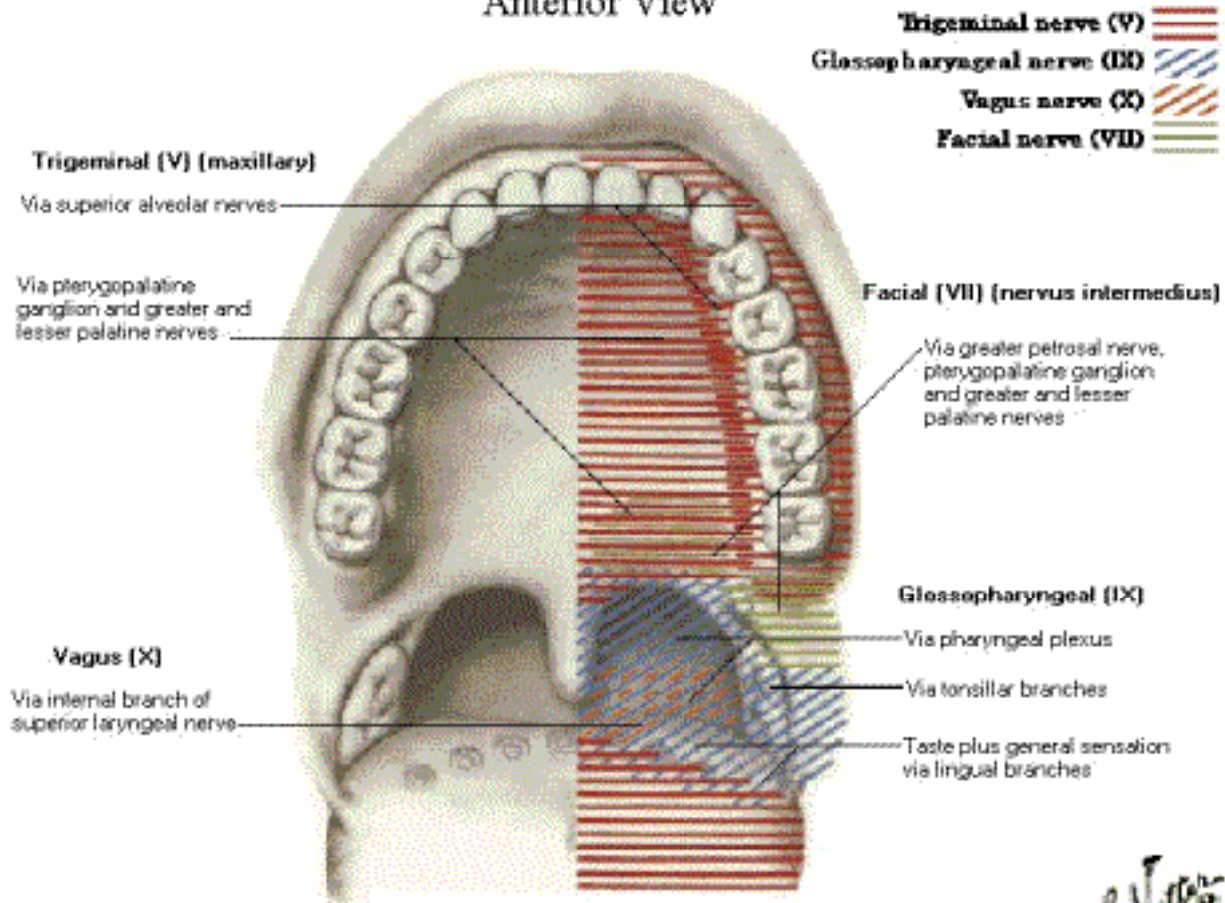


Sublingual gland: almost completely mucous



# Afferent Innervation of Mouth and Pharynx

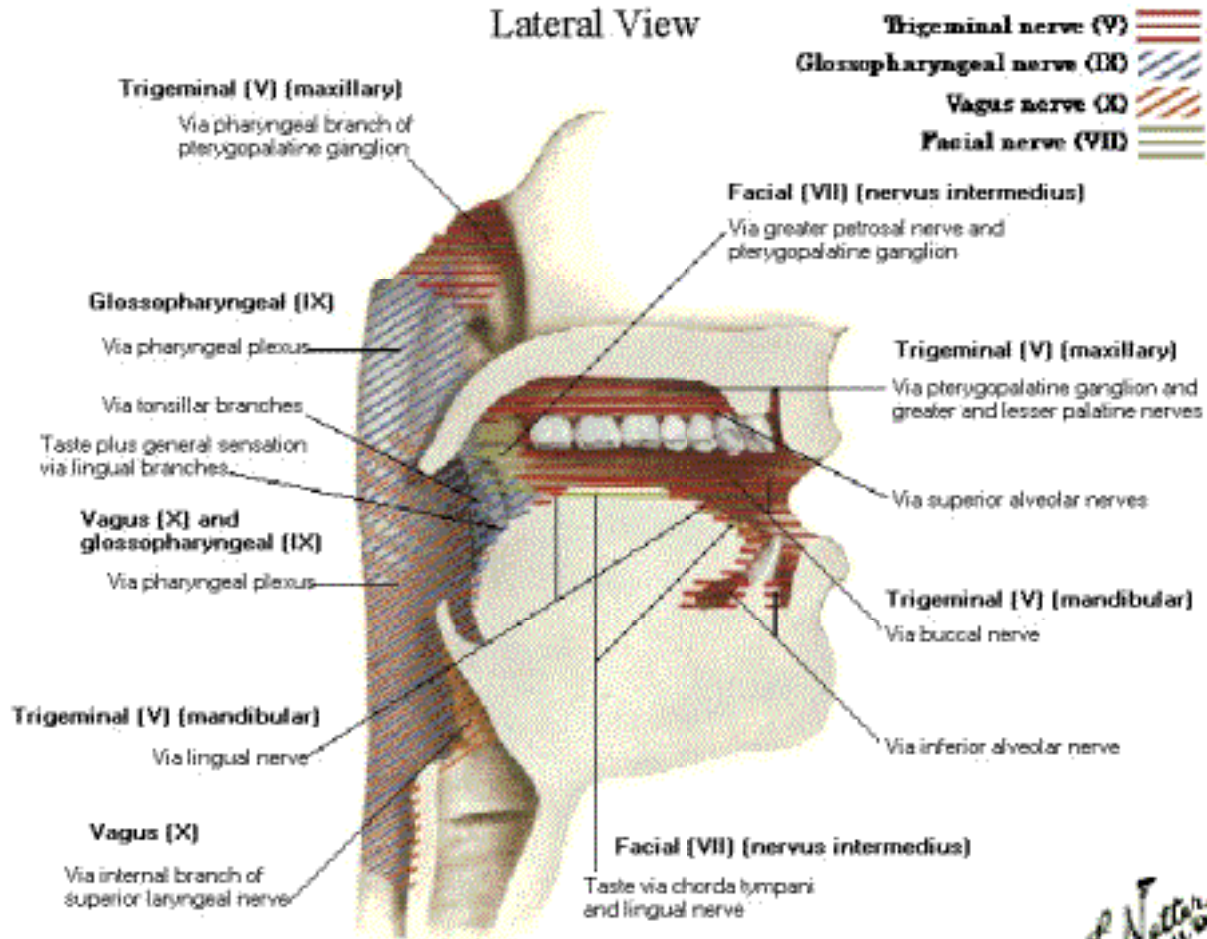
## Anterior View





# Afferent Innervation of Mouth and Pharynx

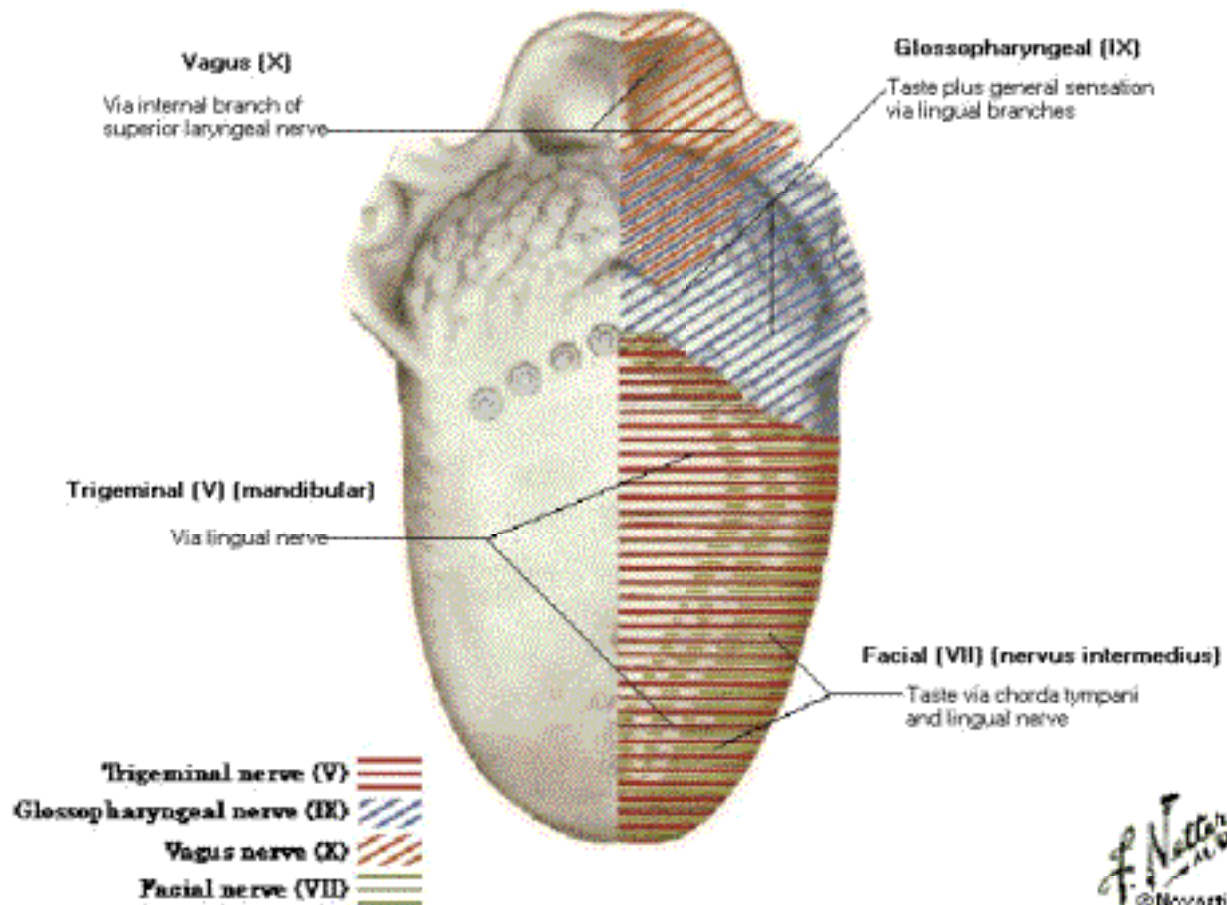
Lateral View



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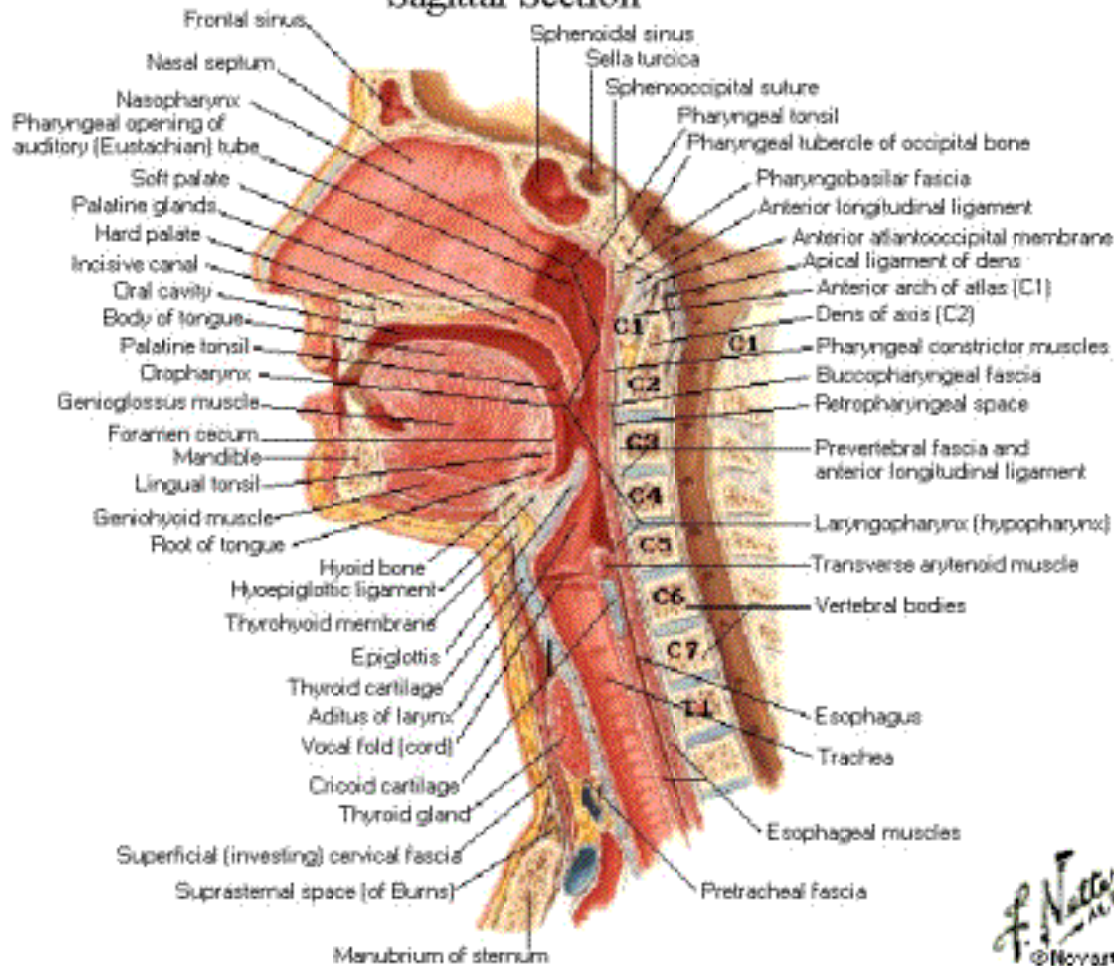
# Afferent Innervation of Mouth and Pharynx

## Dorsum of Tongue



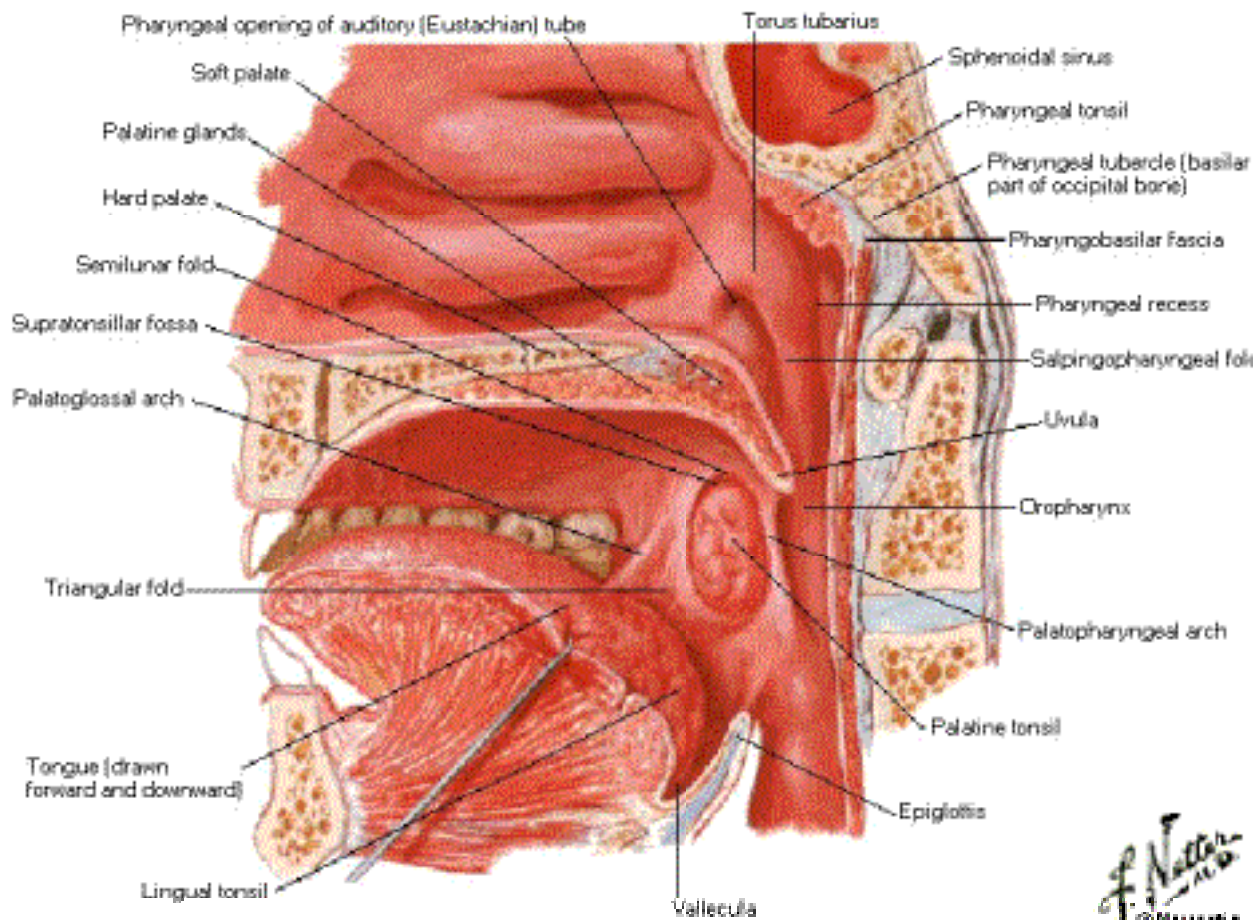
# Pharynx

## Sagittal Section



# Fauces

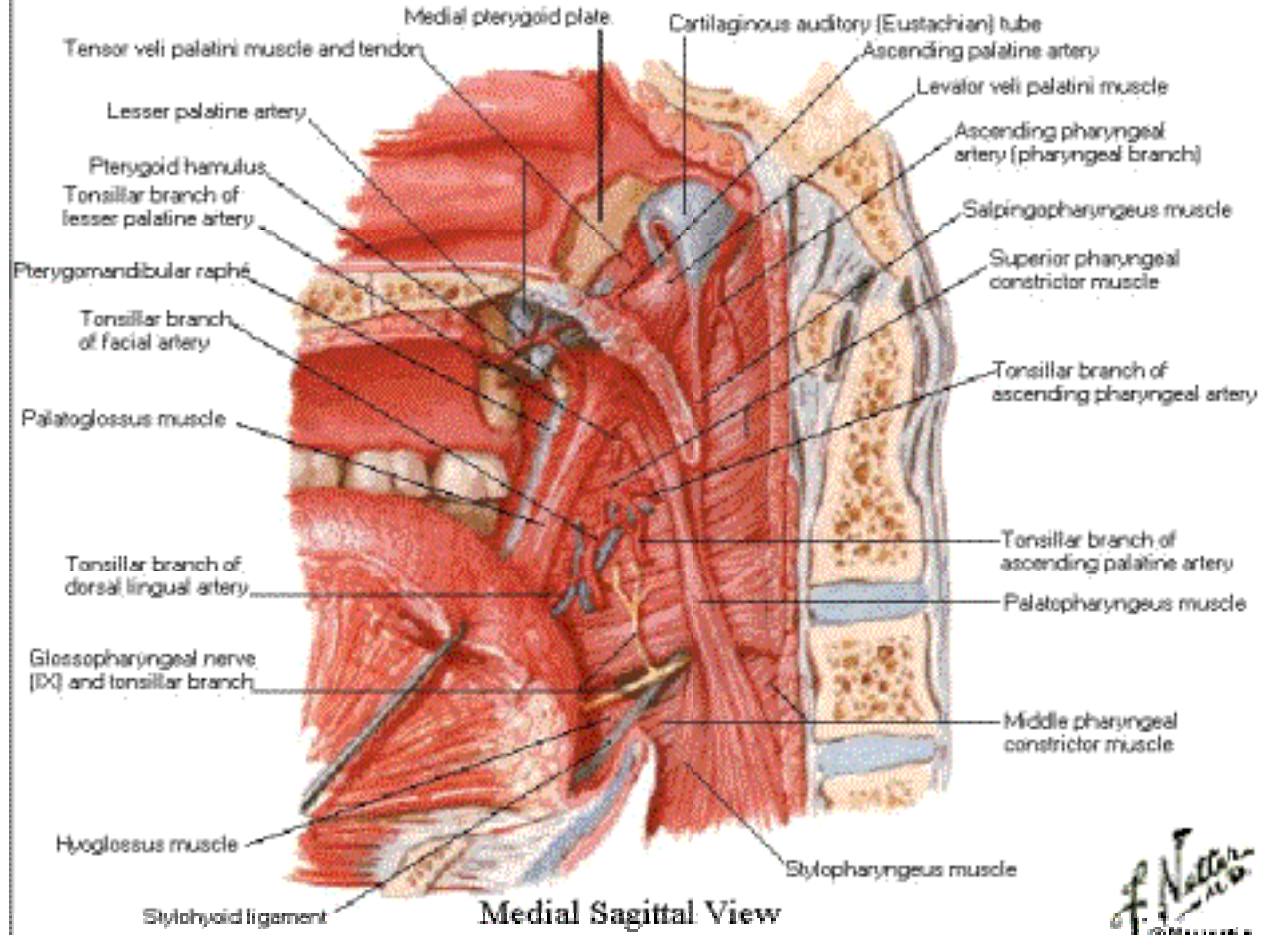
## Medial Sagittal View





# Fauces

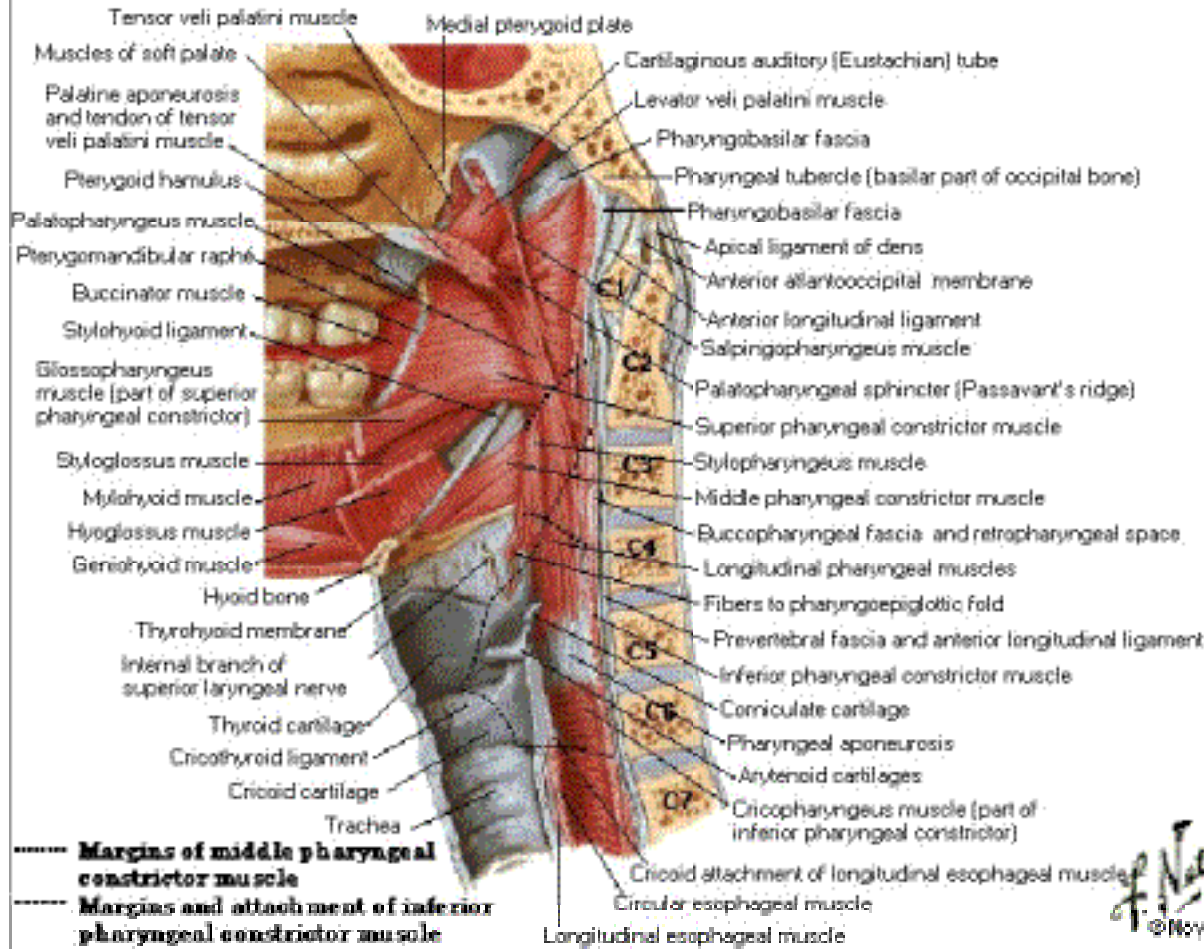
## Pharyngeal Mucosa Removed



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# Muscles of Pharynx

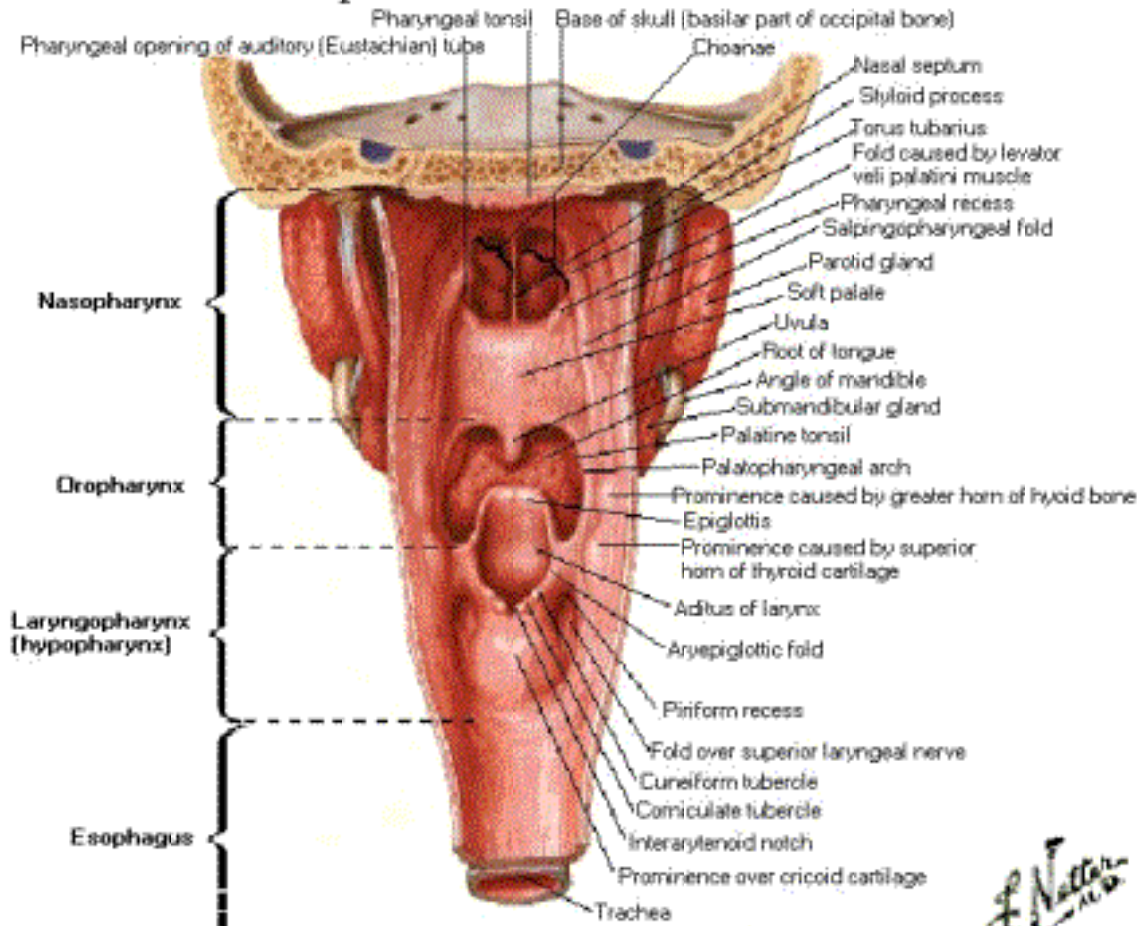
## Sagittal Section



*F. Natter*  
 ©NOVARTIS

# Pharynx

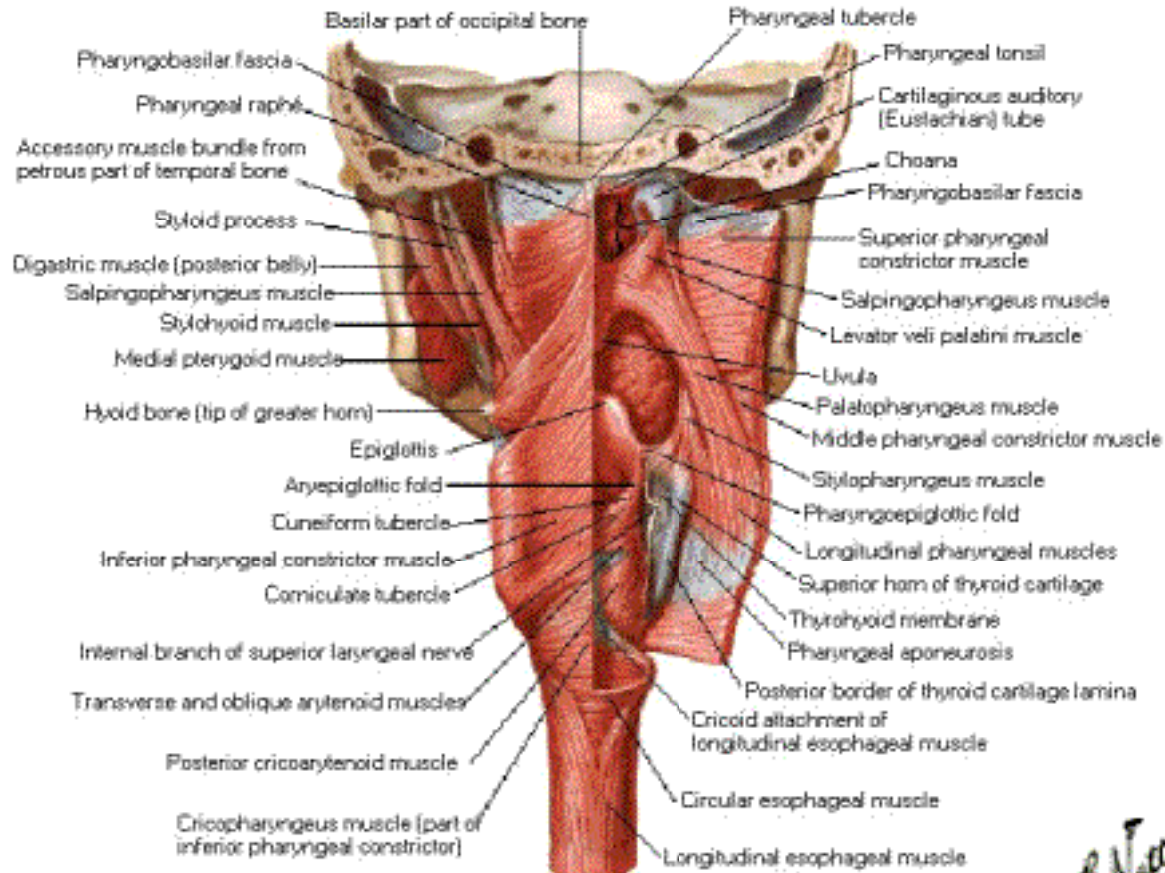
## Opened Posterior View



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# Muscles of Pharynx

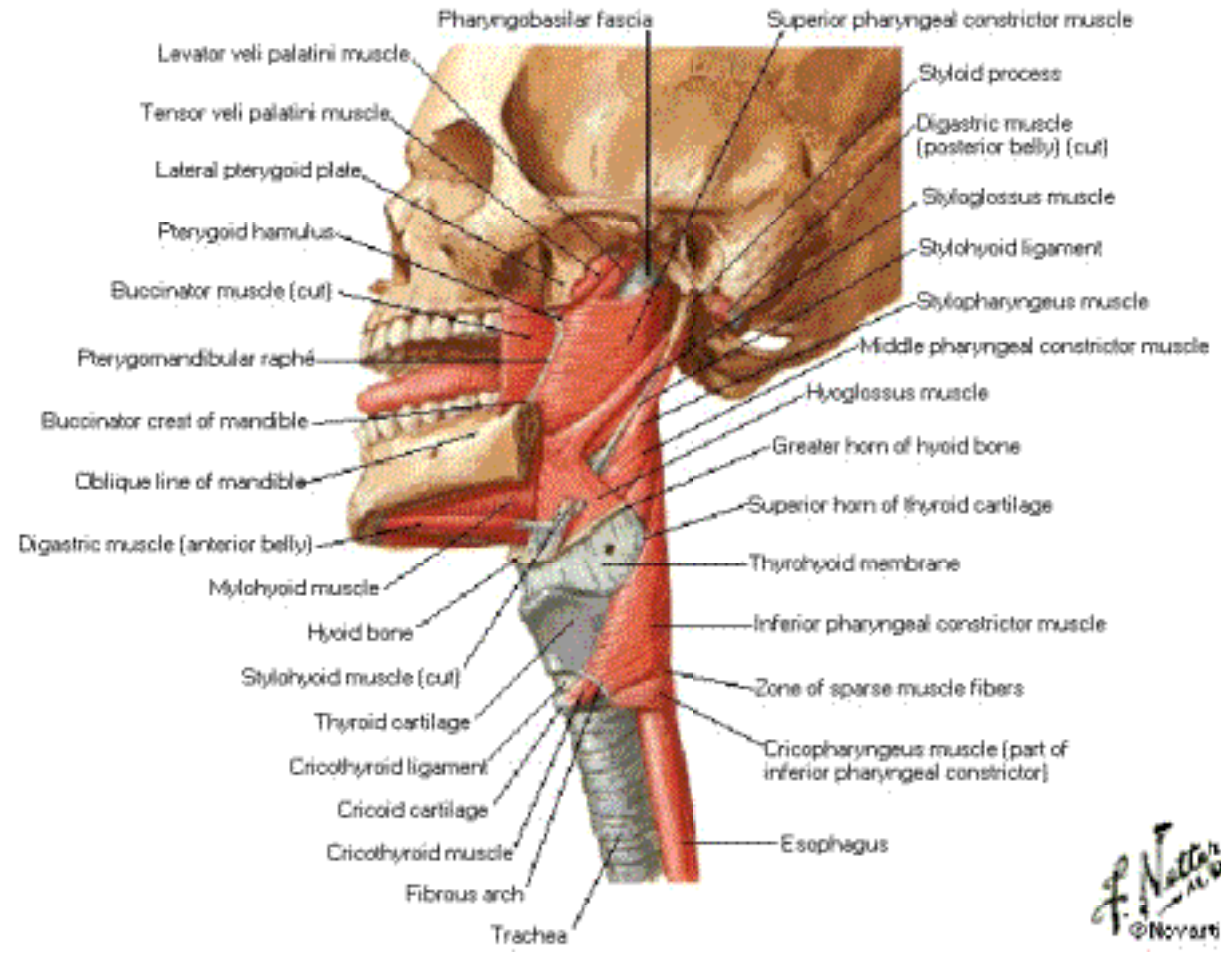
## Partially Opened Posterior View





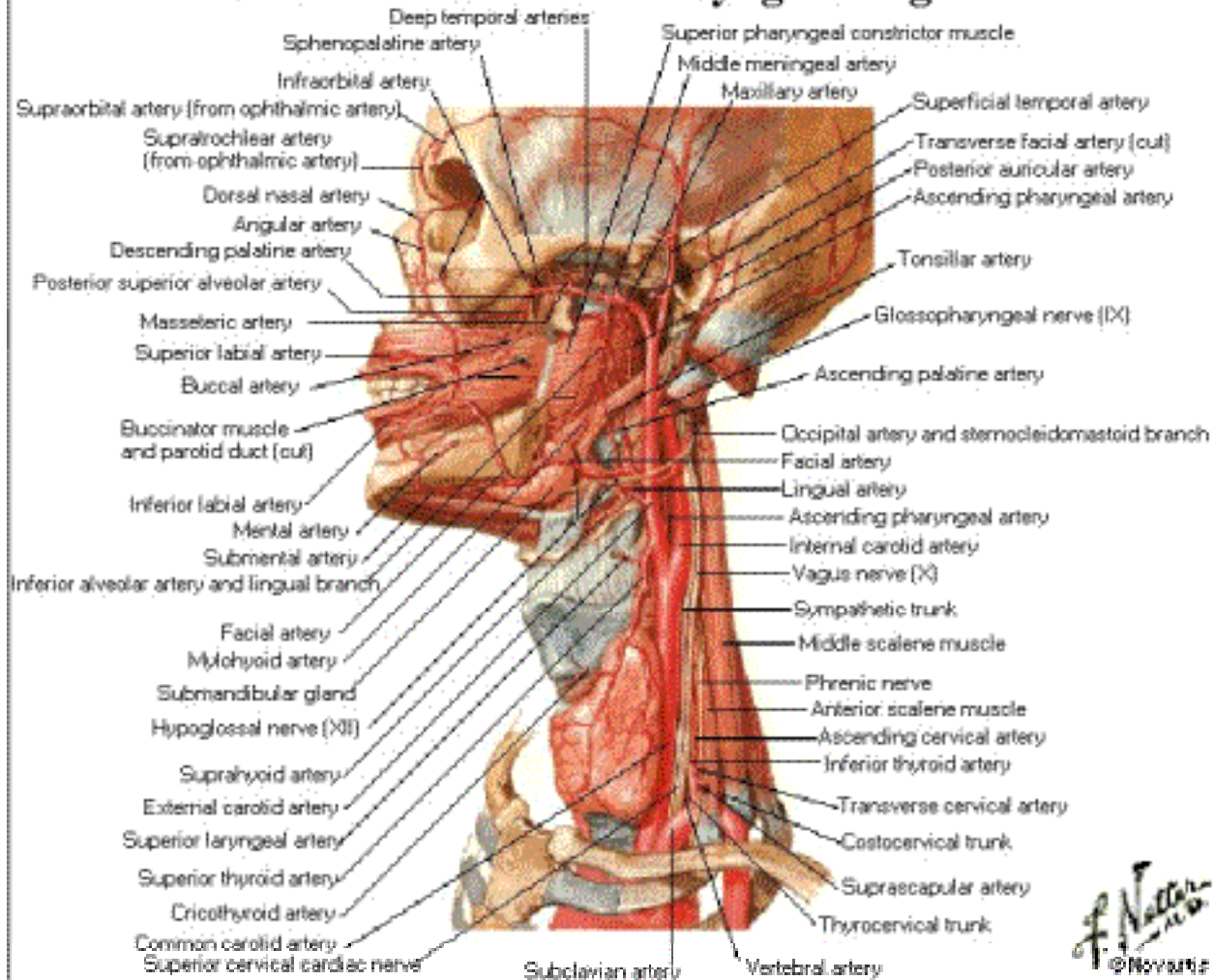
# Muscles of Pharynx

## Lateral View



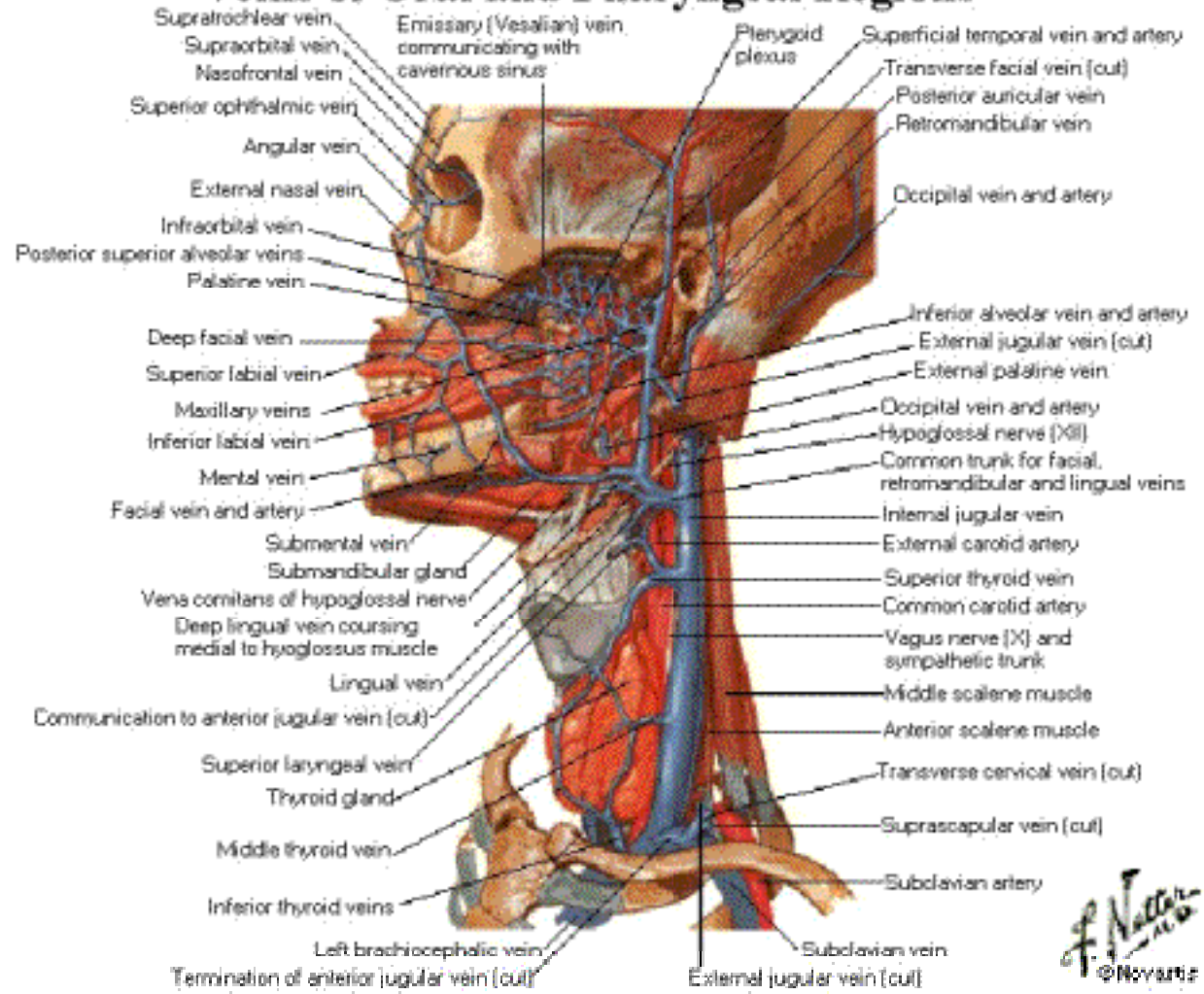
F. Netter  
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# Arteries of Oral and Pharyngeal Regions



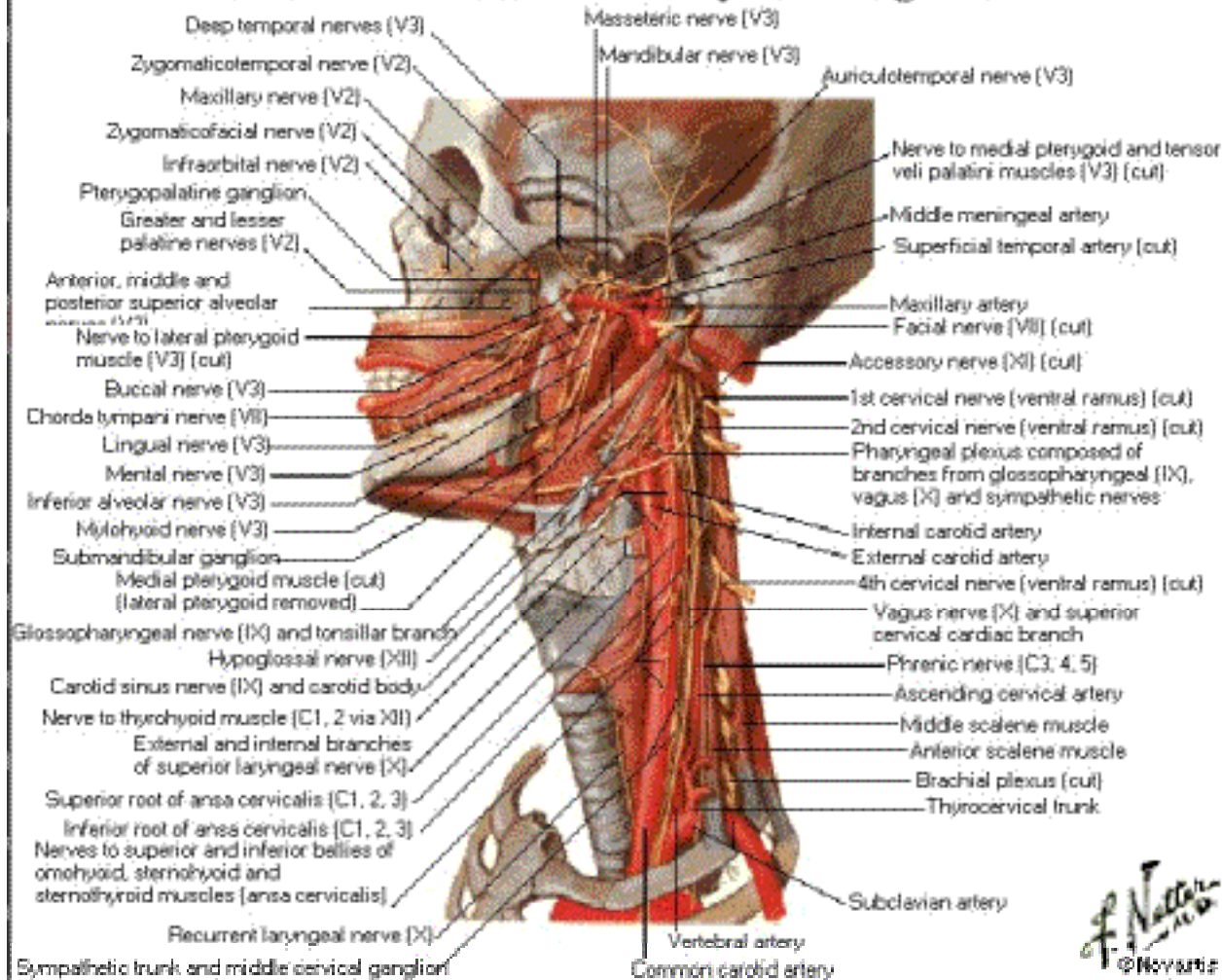
*F. Netter*  
© 1996

# Veins of Oral and Pharyngeal Regions



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© 1989

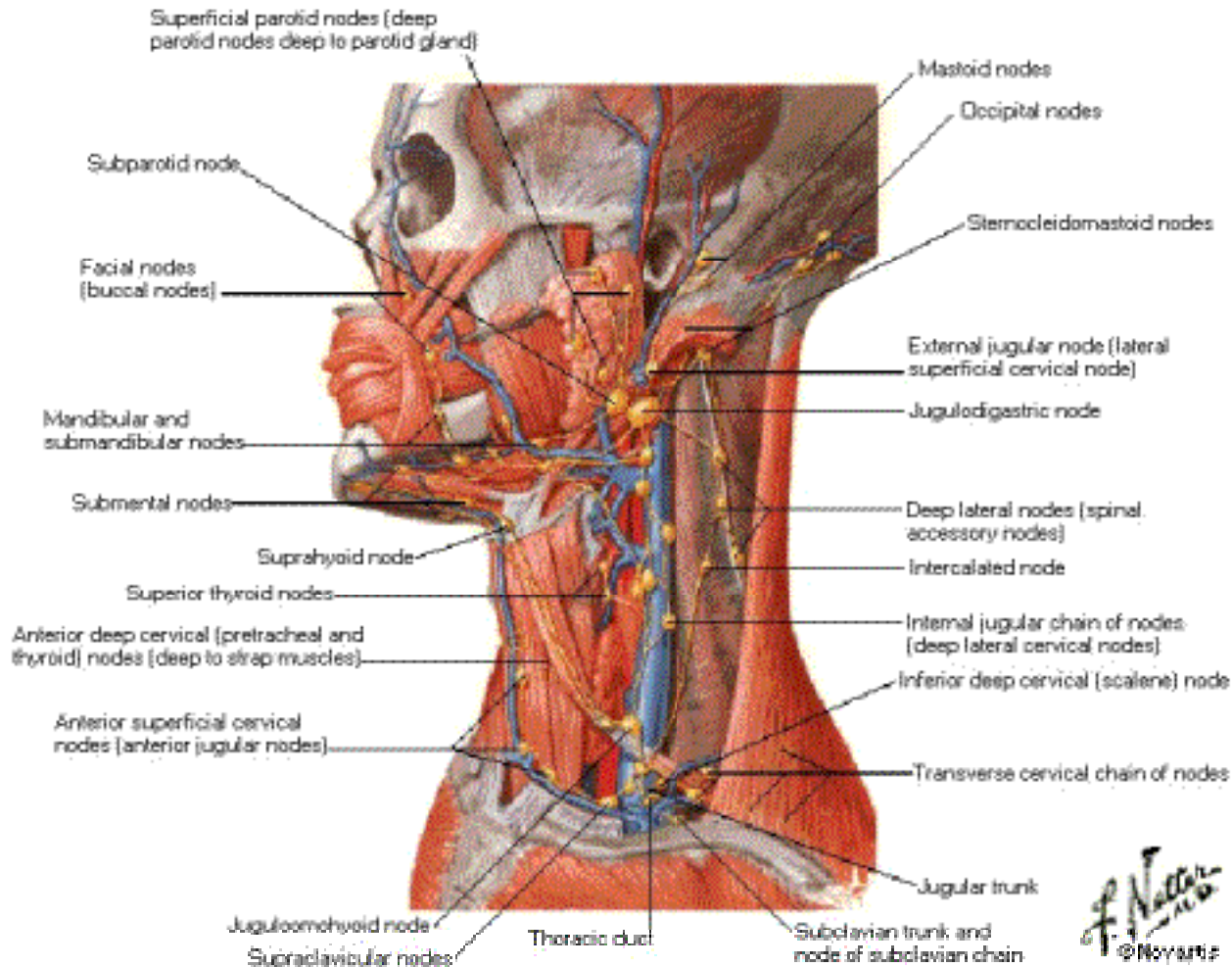
# Nerves of Oral and Pharyngeal Regions



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 M.D.  
 © H&W 1972

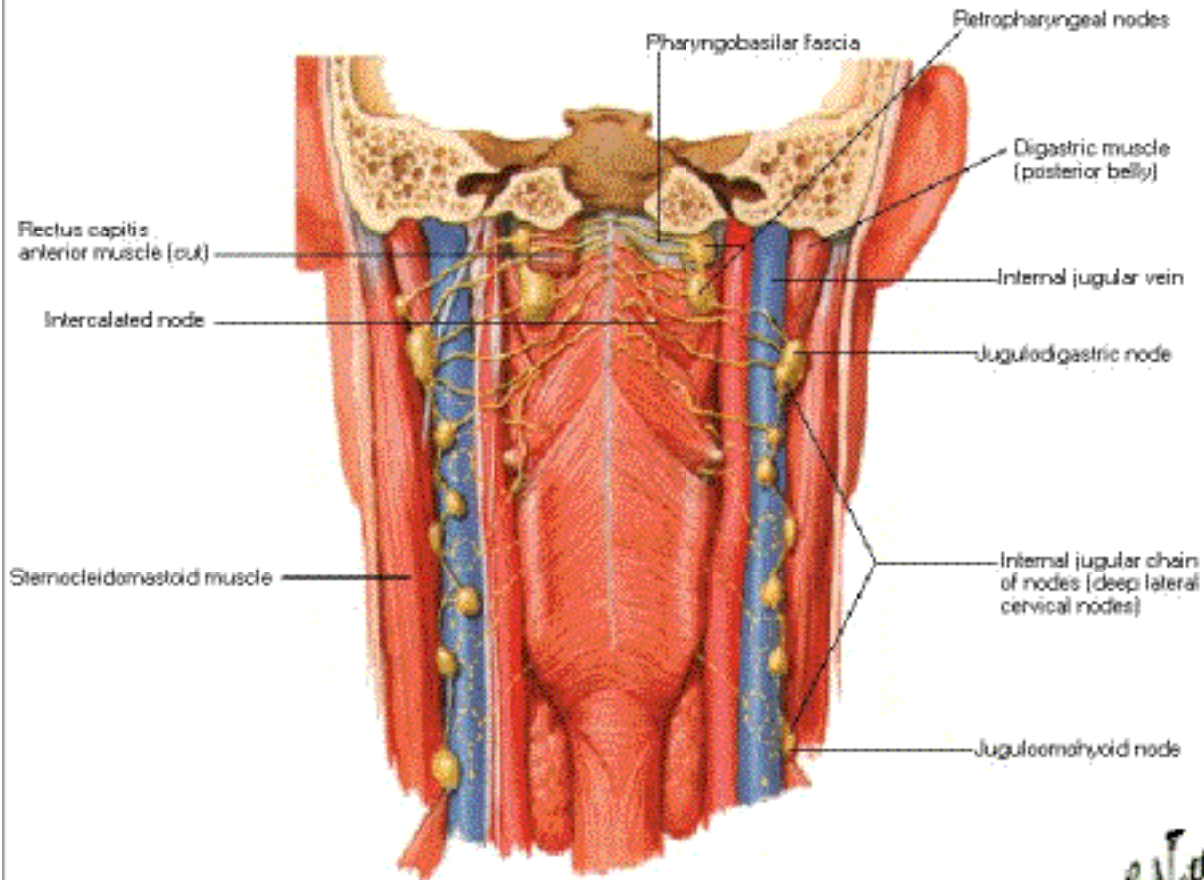


# Lymph Vessels and Nodes of Oral and Pharyngeal



# Lymphatic Drainage of Pharynx

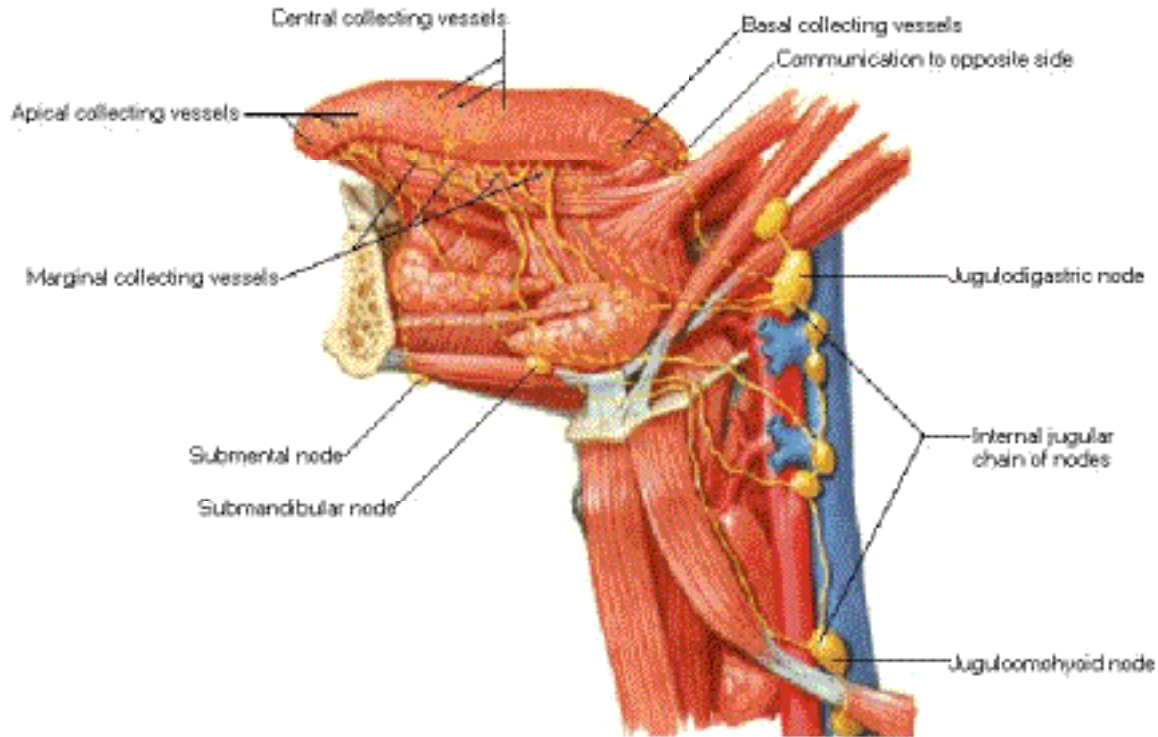
## Posterior View



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M.D.  
© 2004

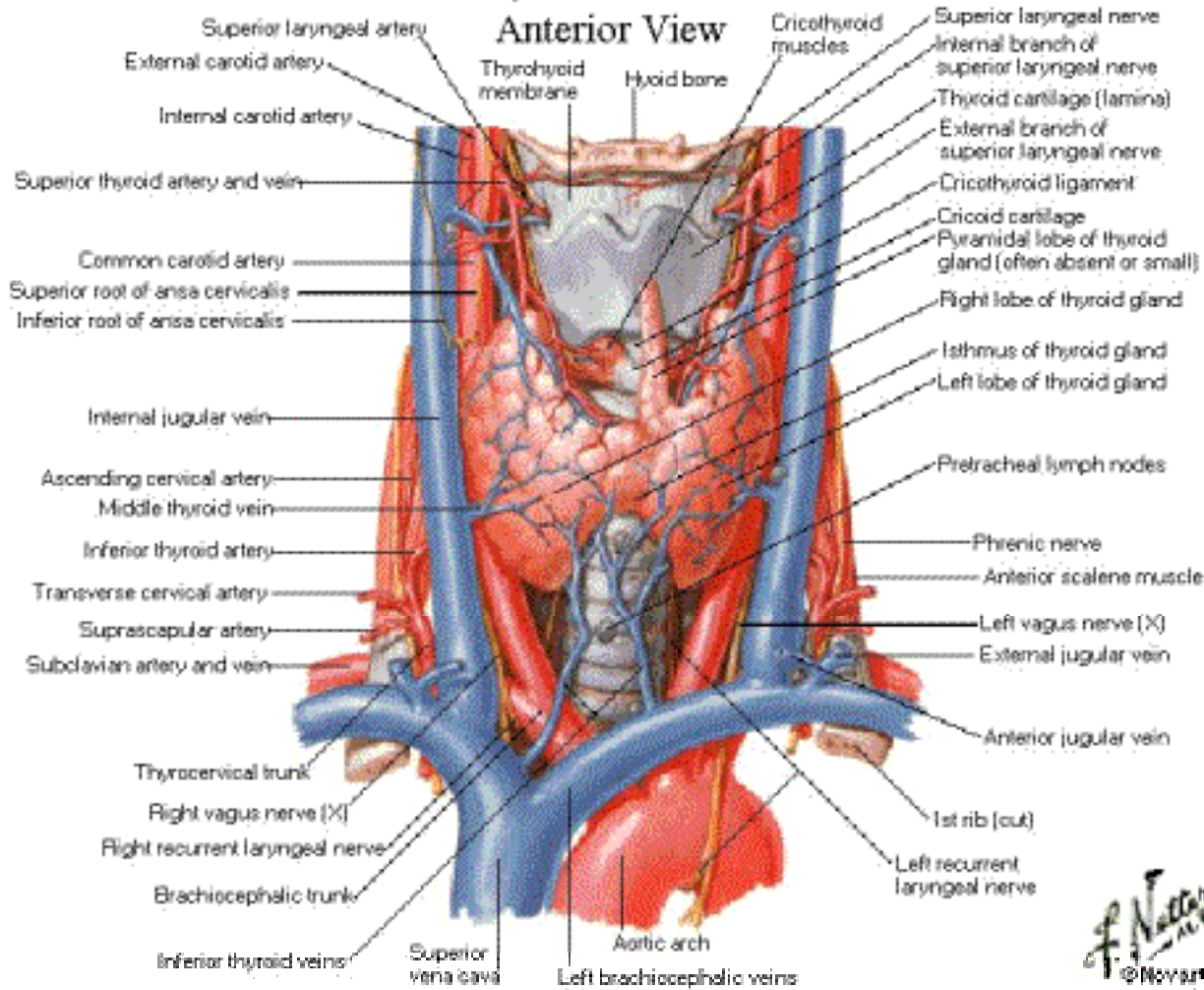
# Lymphatic Drainage of Tongue

## Lateral View



# Thyroid Gland

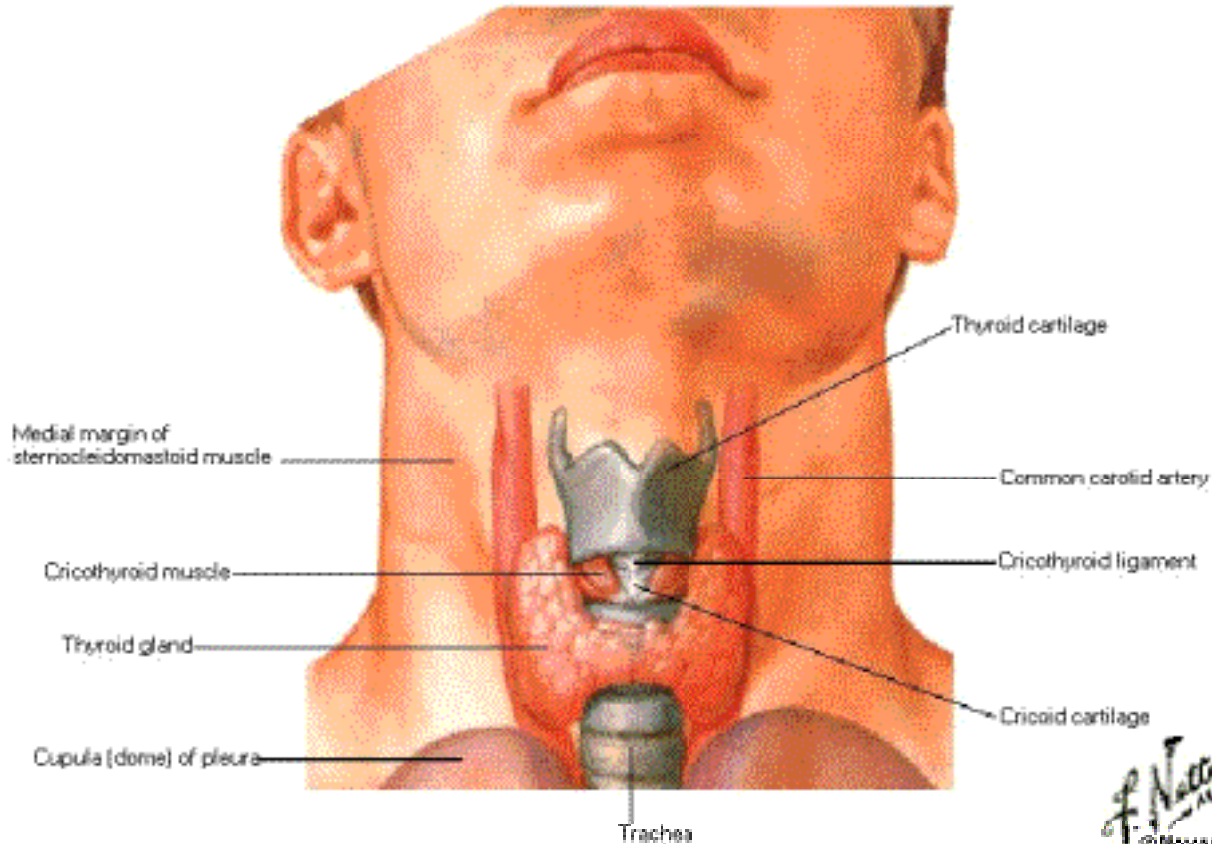
## Anterior View





# Thyroid Gland in Situ

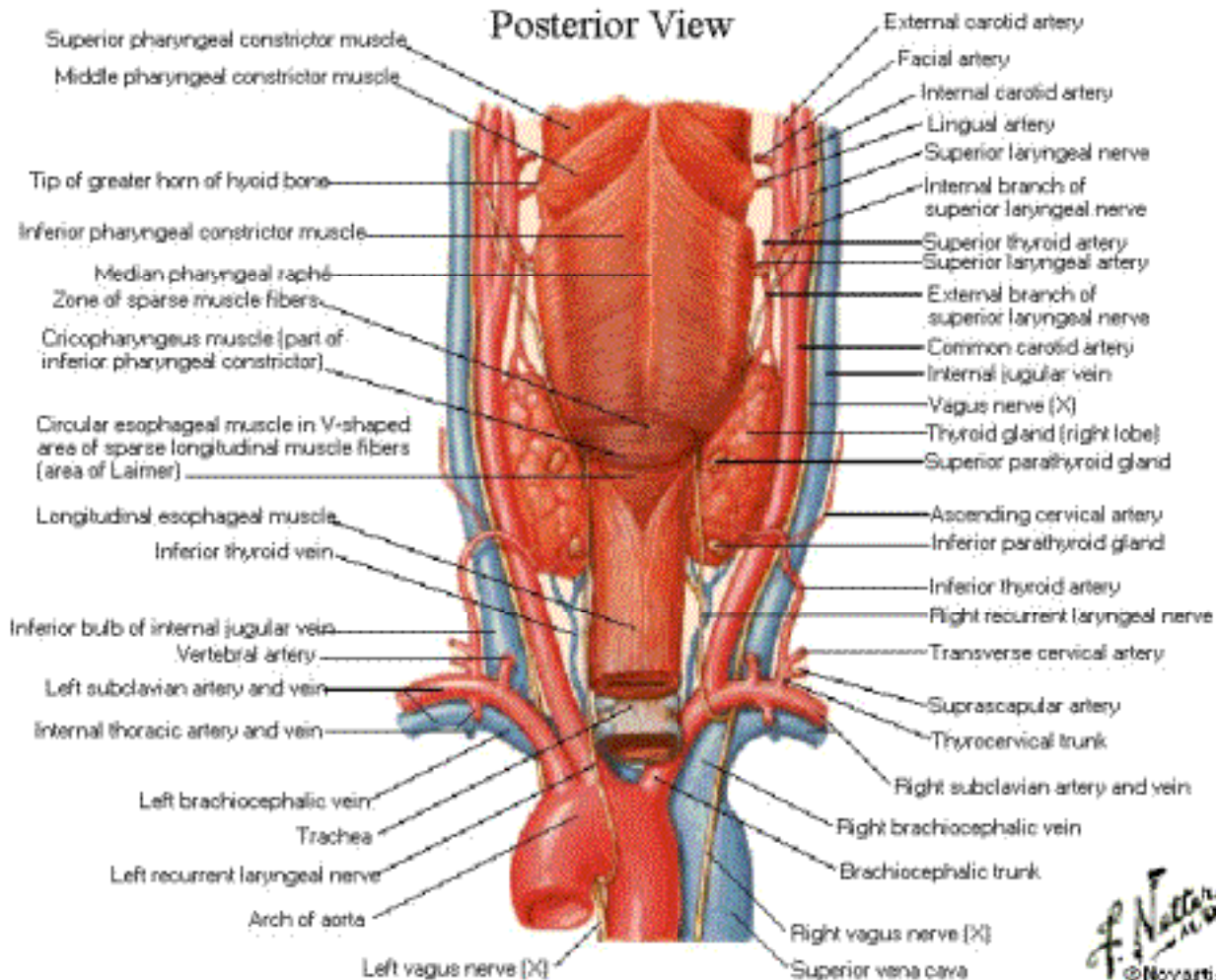
## Anterior View



*F. Netter M.D.*  
© Novartis

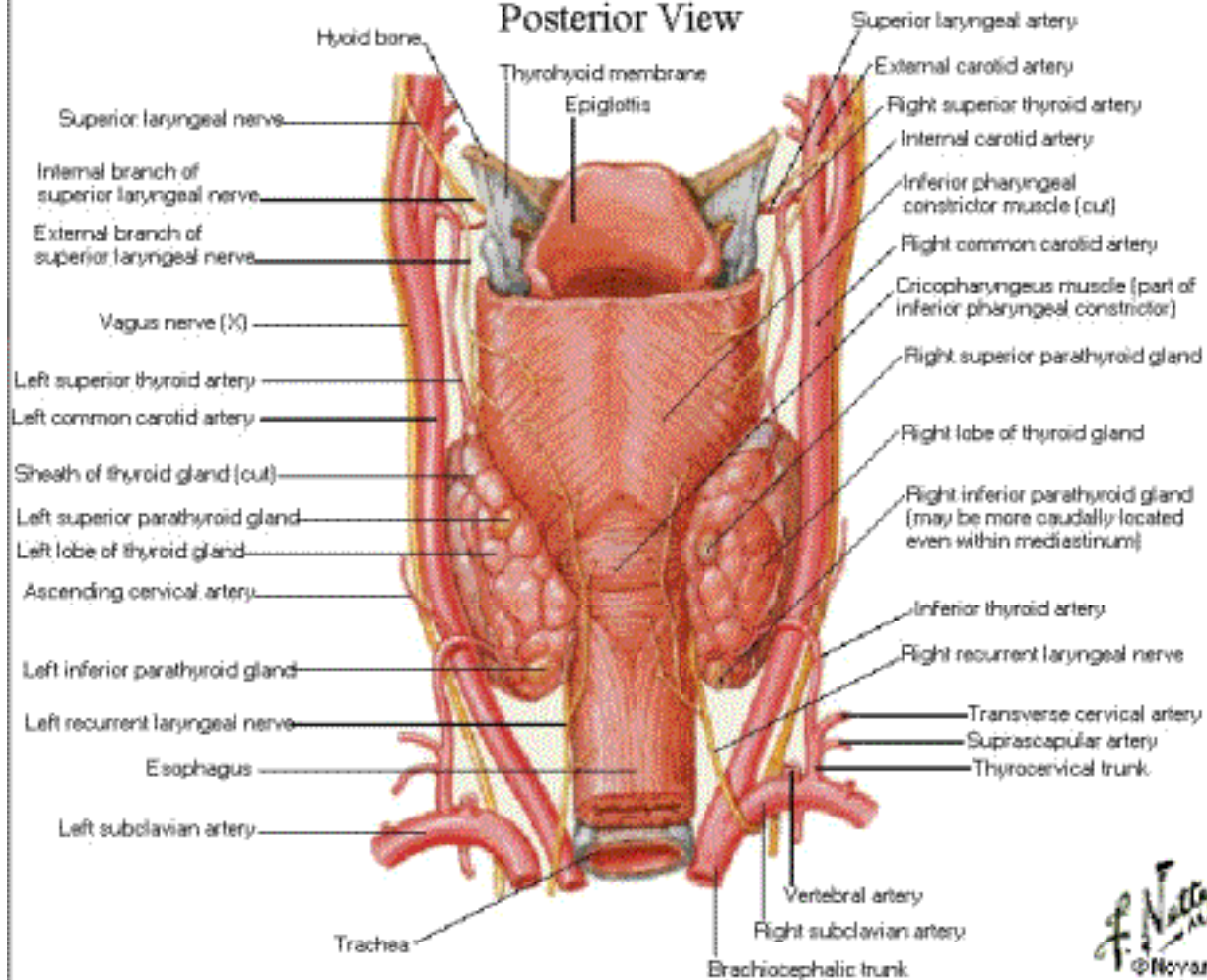
# Thyroid Gland and Pharynx

## Posterior View



# Parathyroid Glands

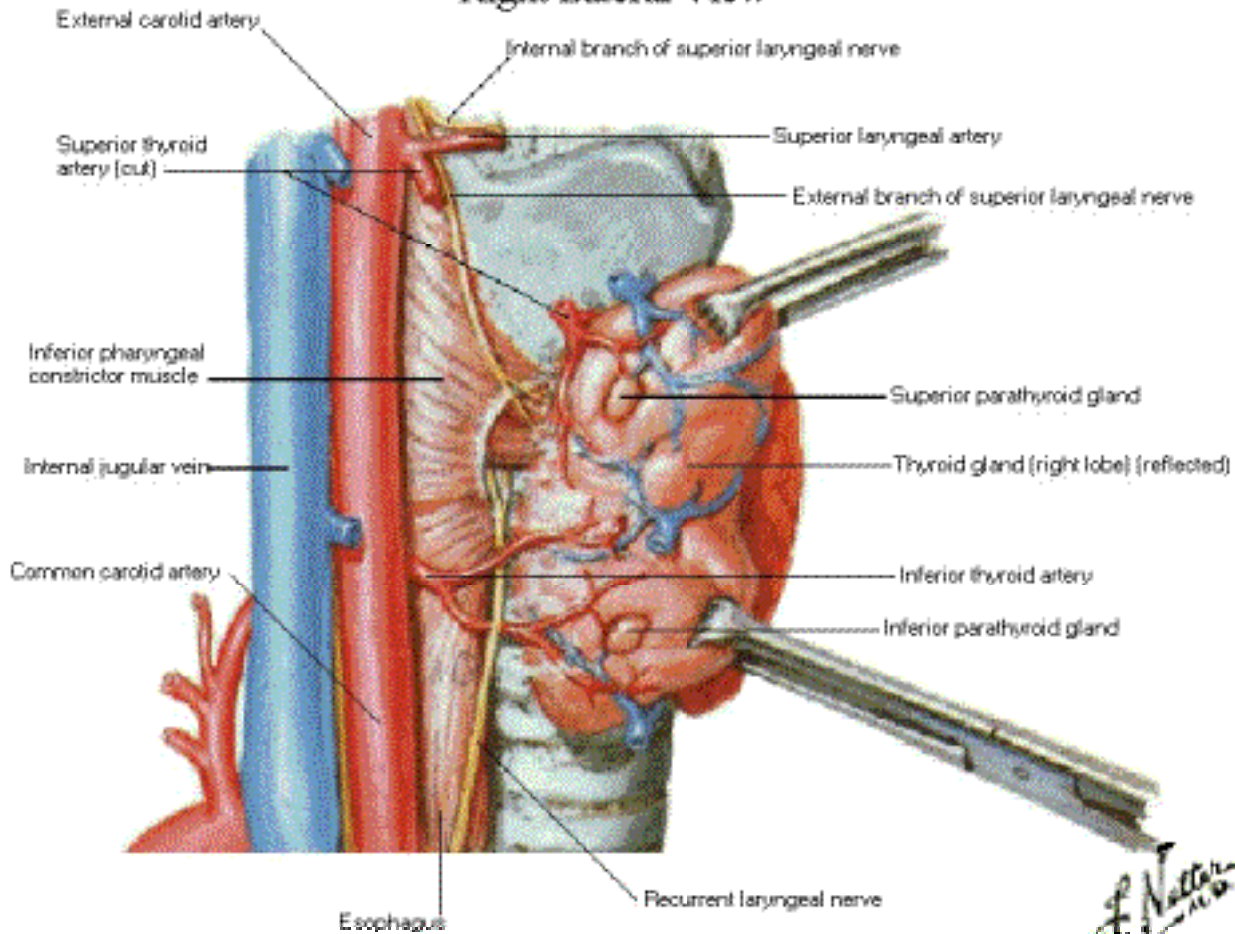
## Posterior View



*F. Netter*  
© 2015

# Parathyroid Glands

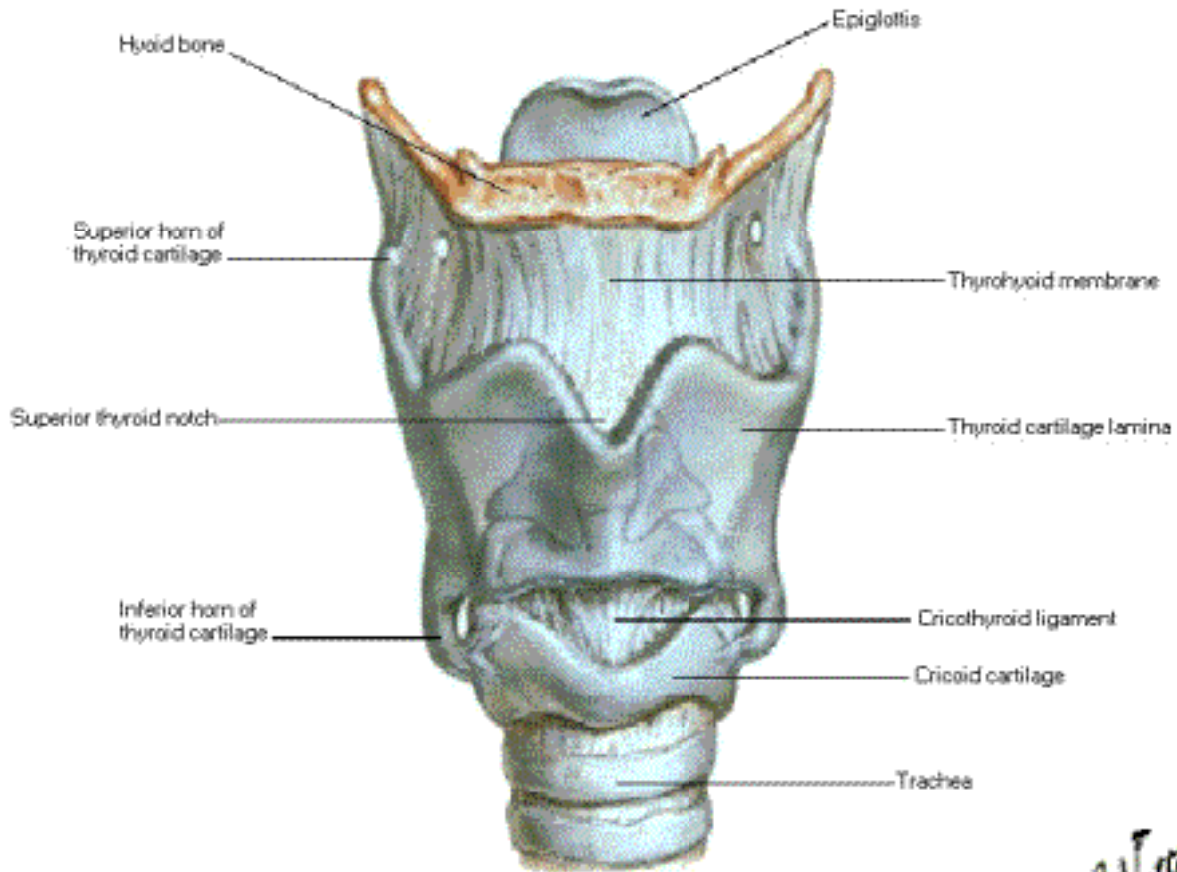
## Right Lateral View





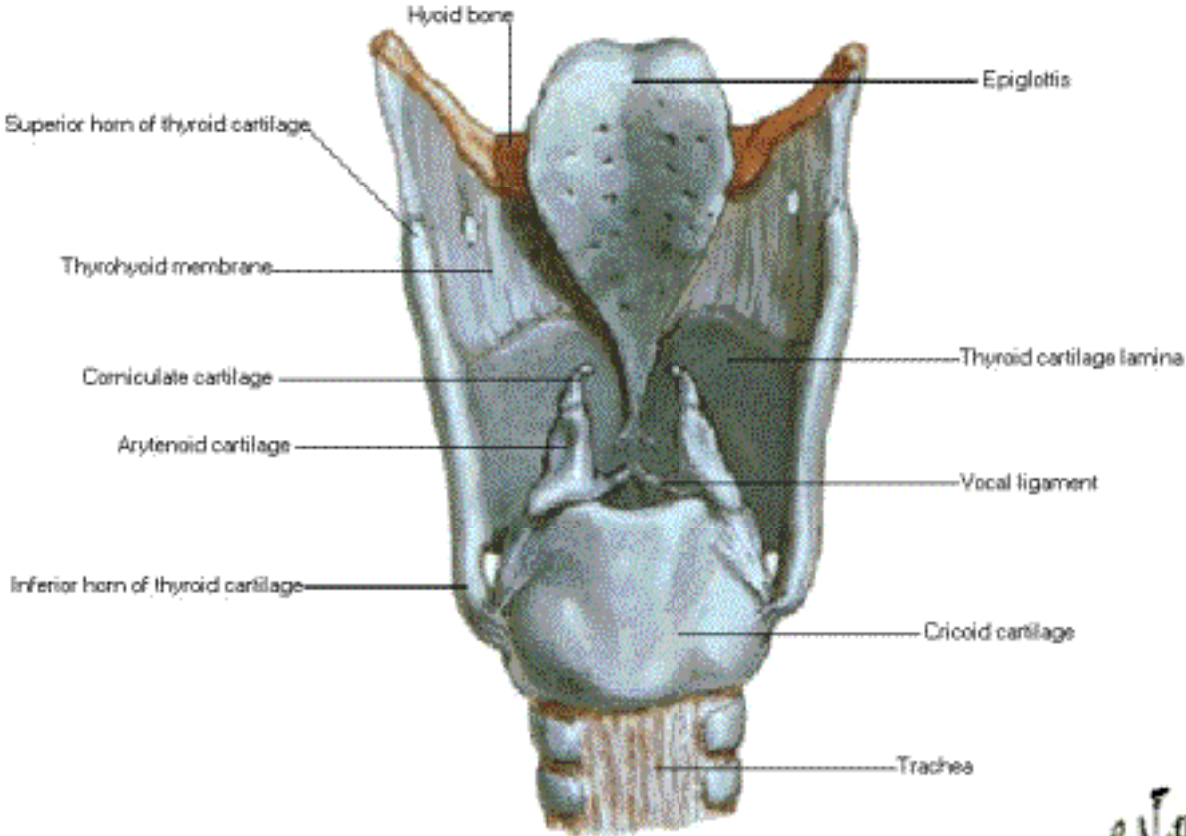
# Cartilages of Larynx

## Anterior View



# Cartilages of Larynx

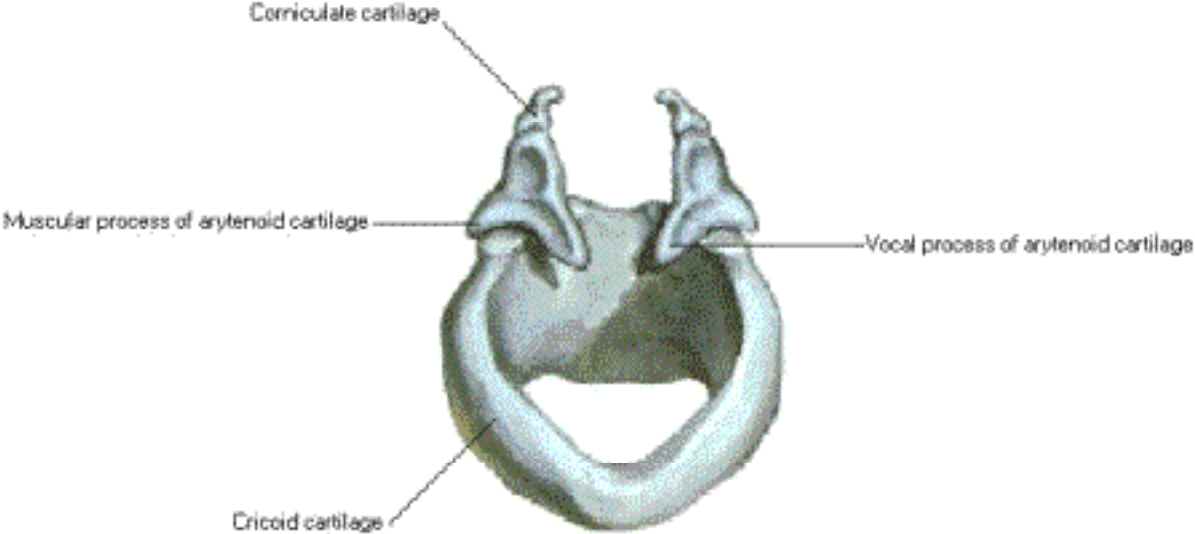
## Posterior View



*F. Netter M.D.*  
© Novartis

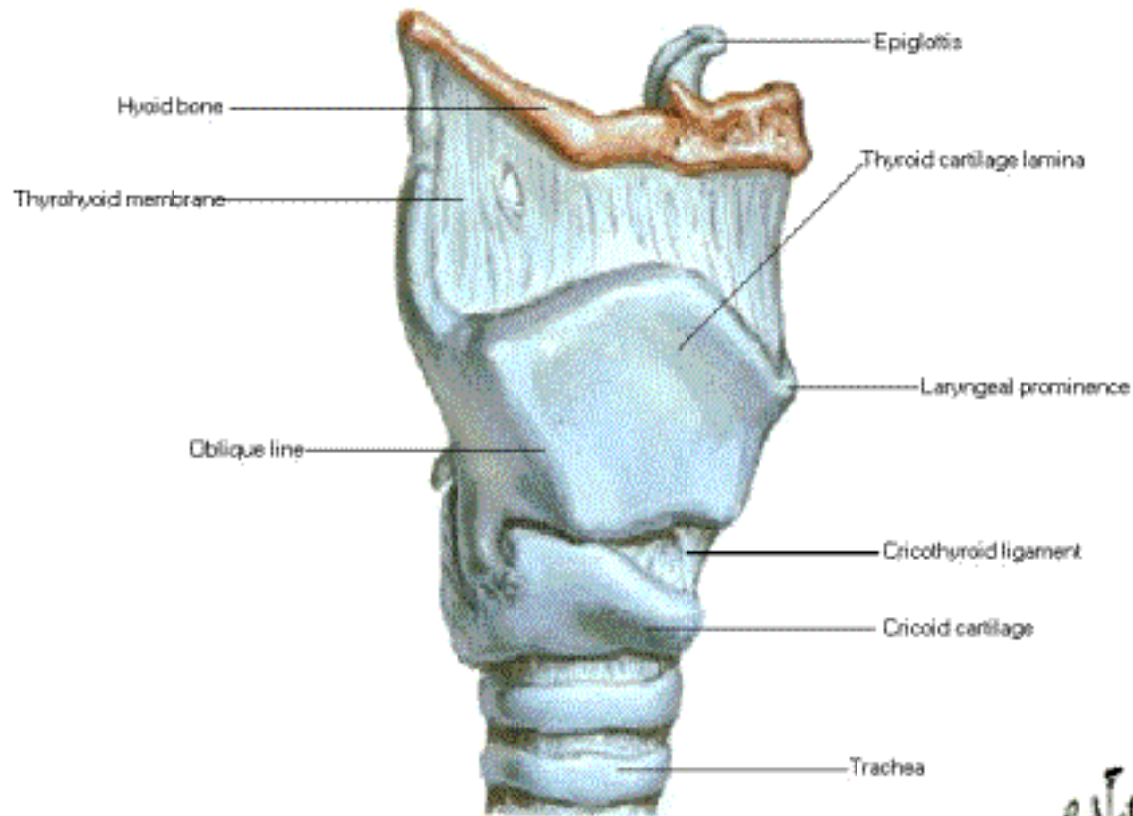
# Cartilages of Larynx

## Anterosuperior View



# Cartilages of Larynx

## Right Lateral View

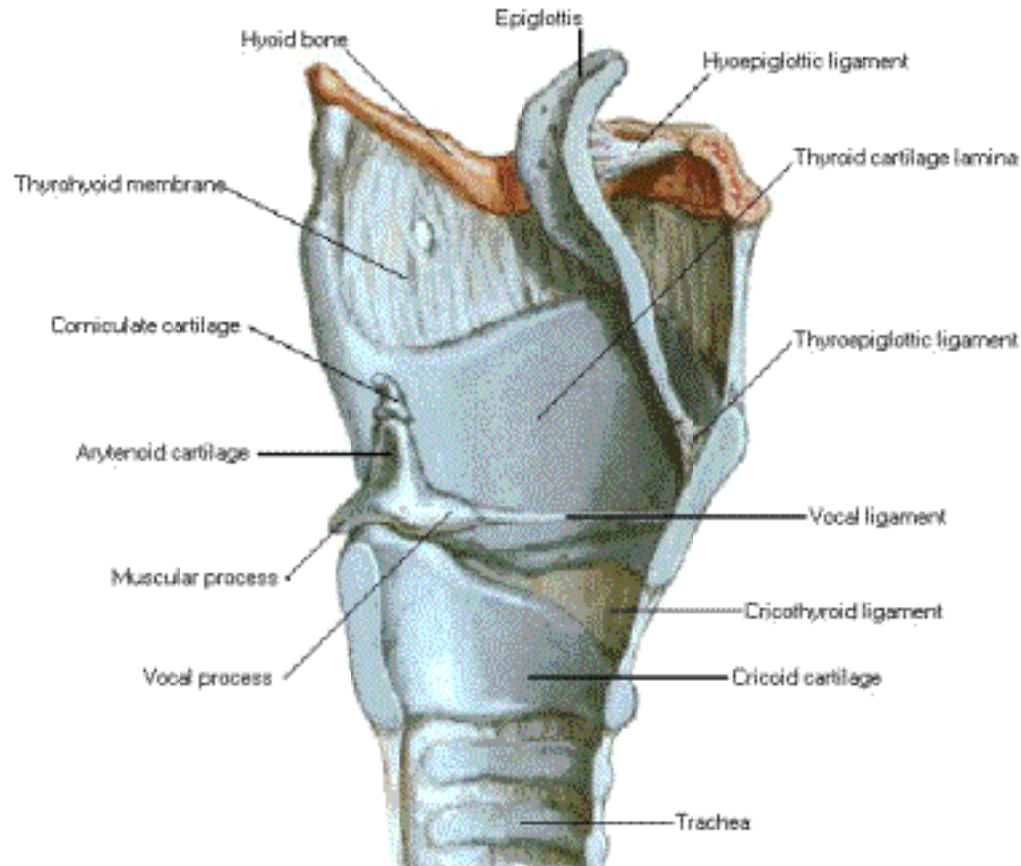


*F. Netter*  
© Novartis



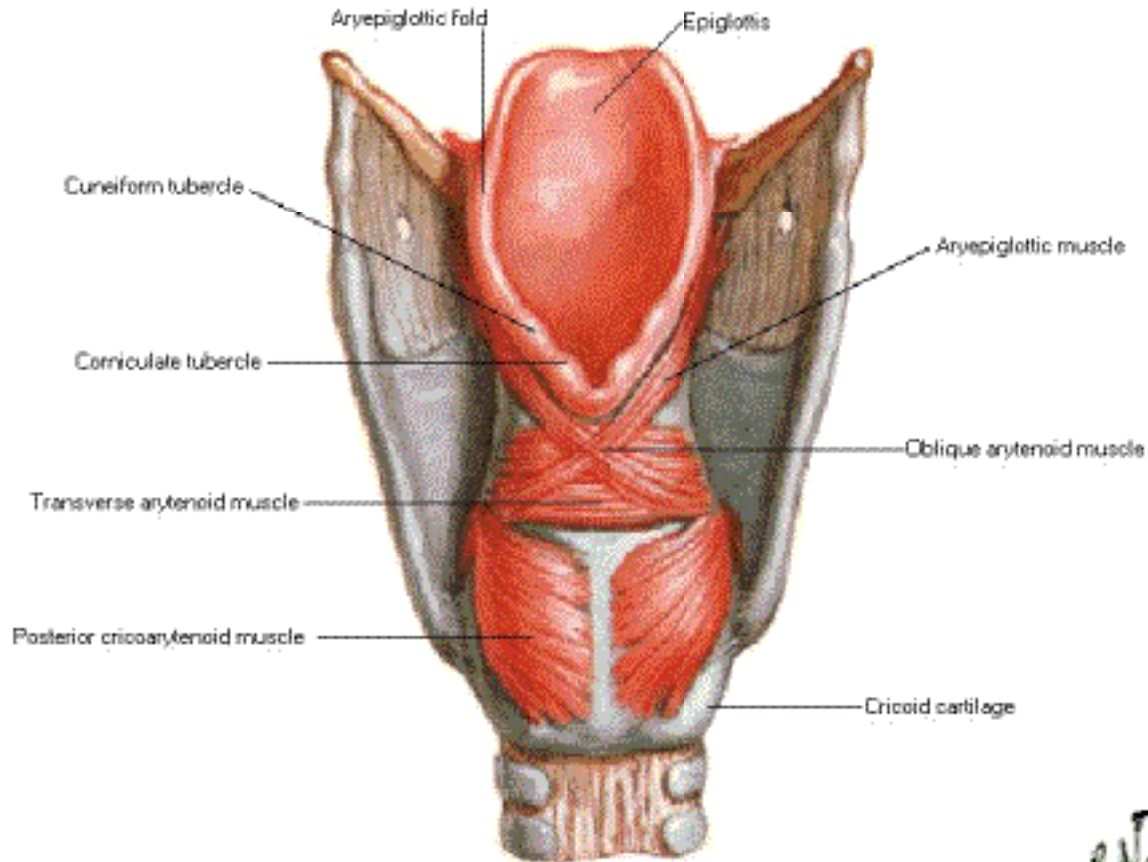
# Cartilages of Larynx

## Sagittal Section



# Intrinsic Muscles of Larynx

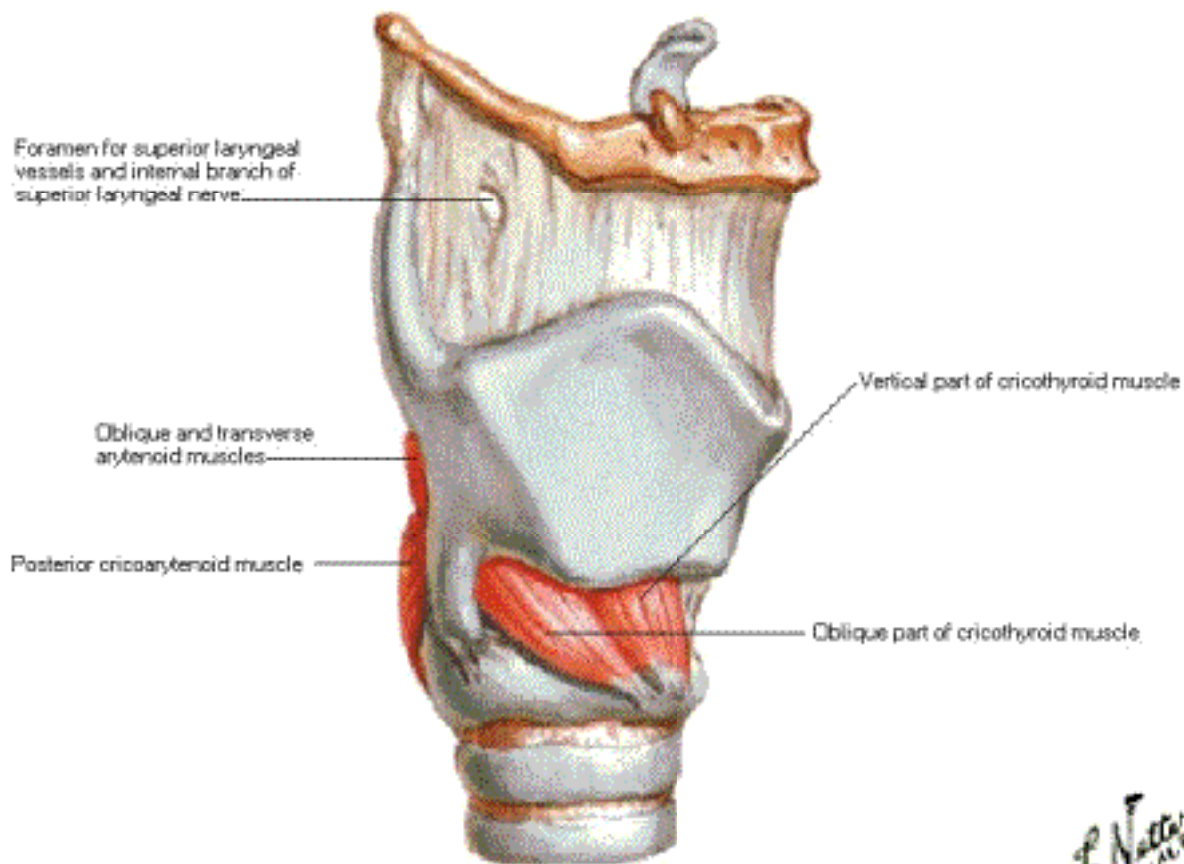
## Posterior View



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M.D.  
© 1996

# Intrinsic Muscles of Larynx

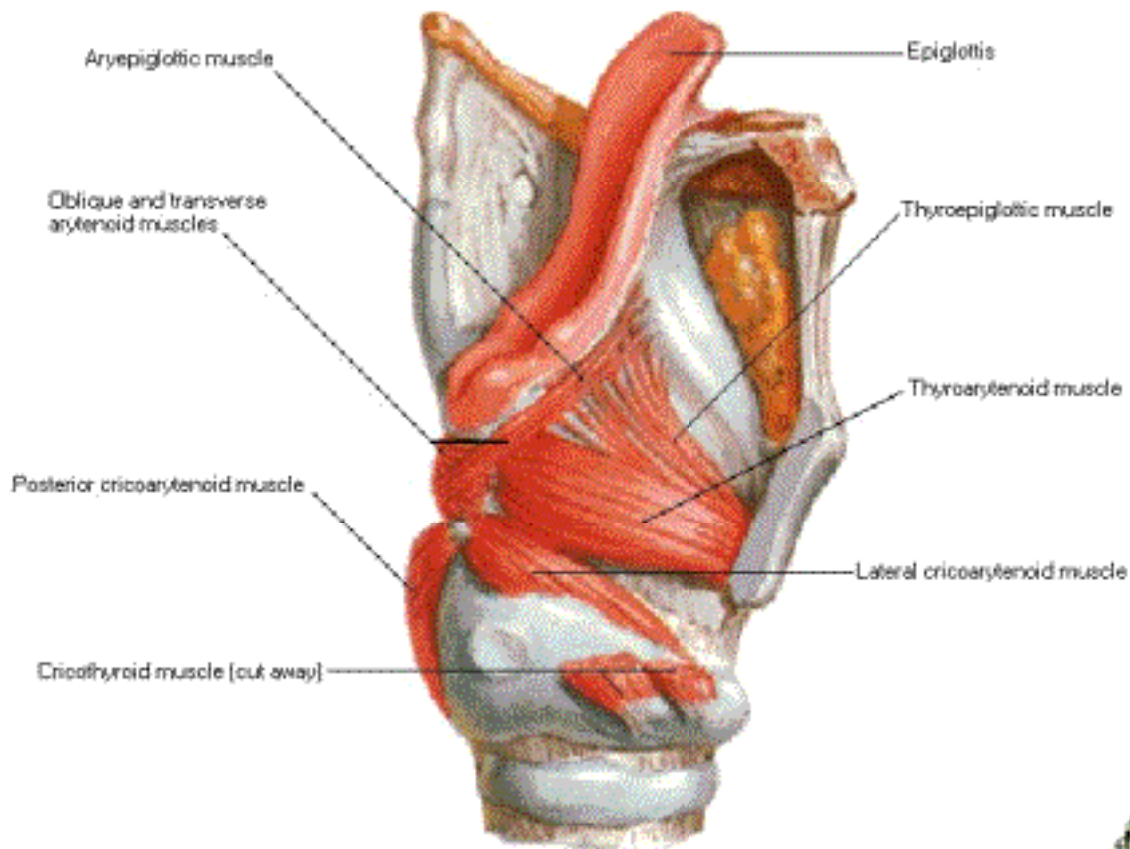
## Right Lateral View



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# Intrinsic Muscles of Larynx

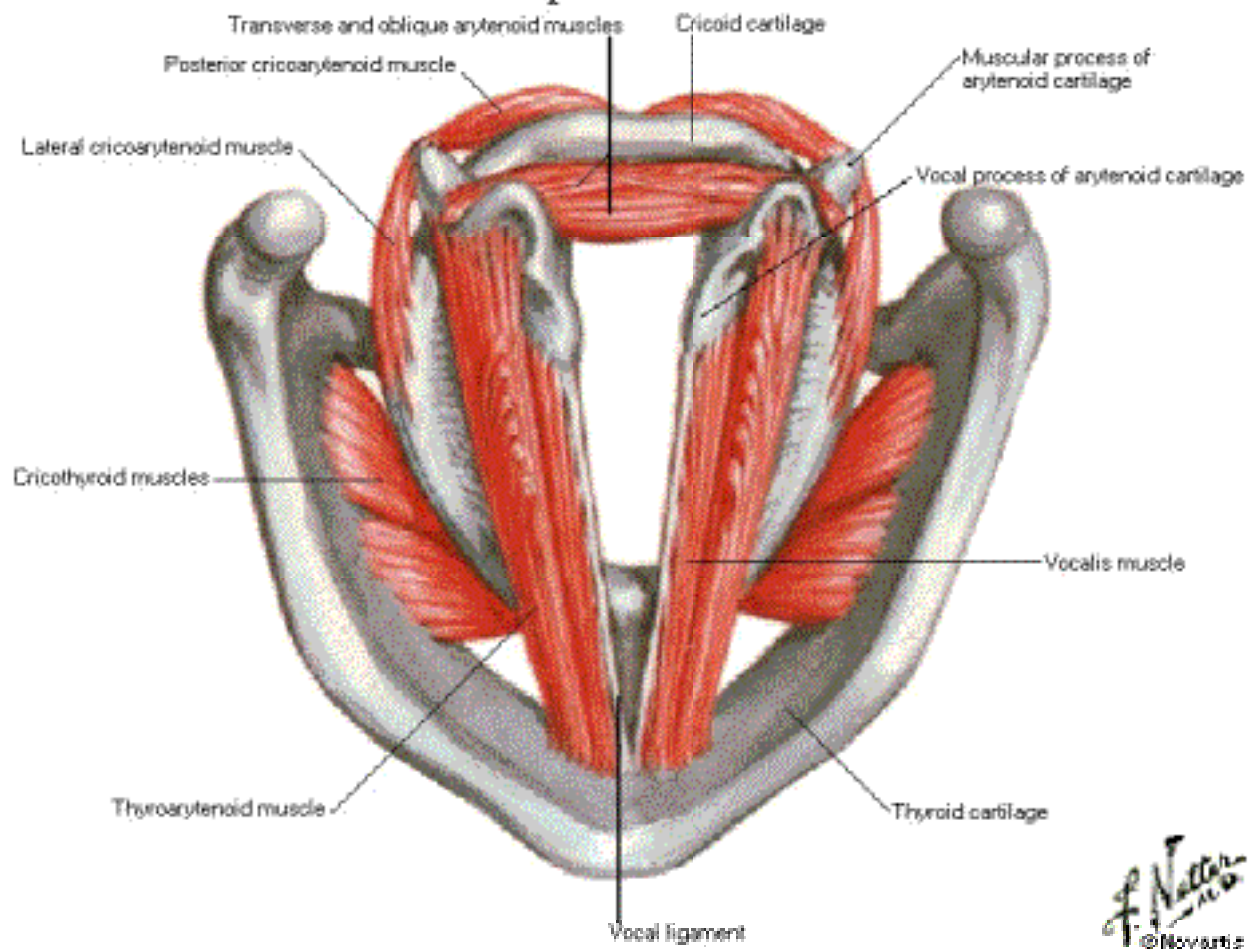
## Lateral Dissection





# Intrinsic Muscles of Larynx

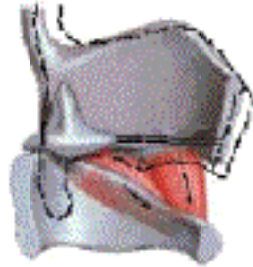
## Superior View



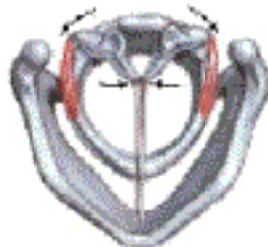
*F. Netter M.D.*  
© Novartis

# Action of Intrinsic Muscles of Larynx

Action of cricothyroid muscles:  
Lengthening (tension) of vocal folds



Action of posterior cricoarytenoid muscles:  
Abduction of vocal folds



Action of lateral cricoarytenoid muscles:  
Adduction of vocal folds



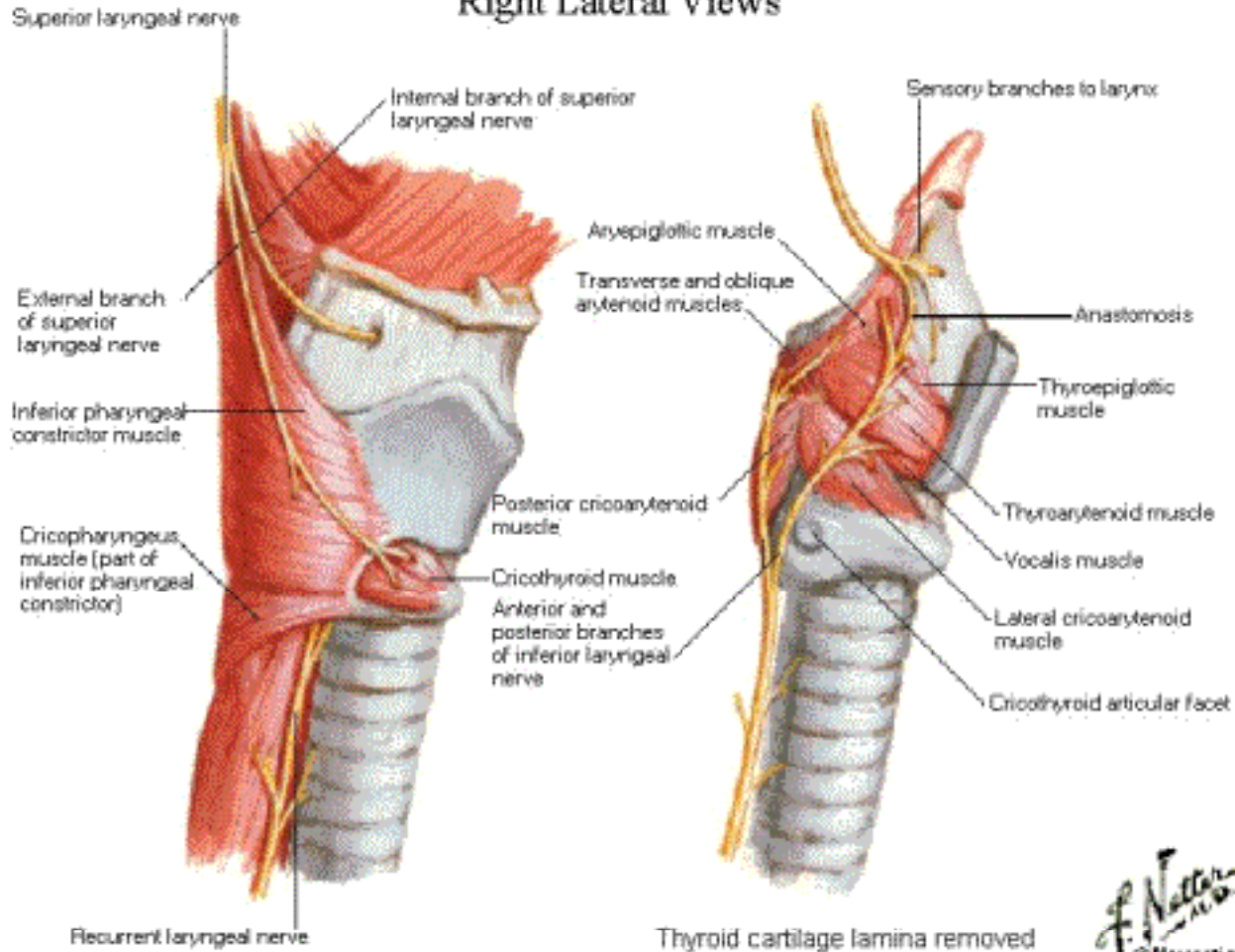
Action of arytenoid muscle:  
Adduction of vocal folds



Action of vocalis and thyroarytenoid muscles:  
Shortening (relaxation) of vocal folds

# Nerves of Larynx

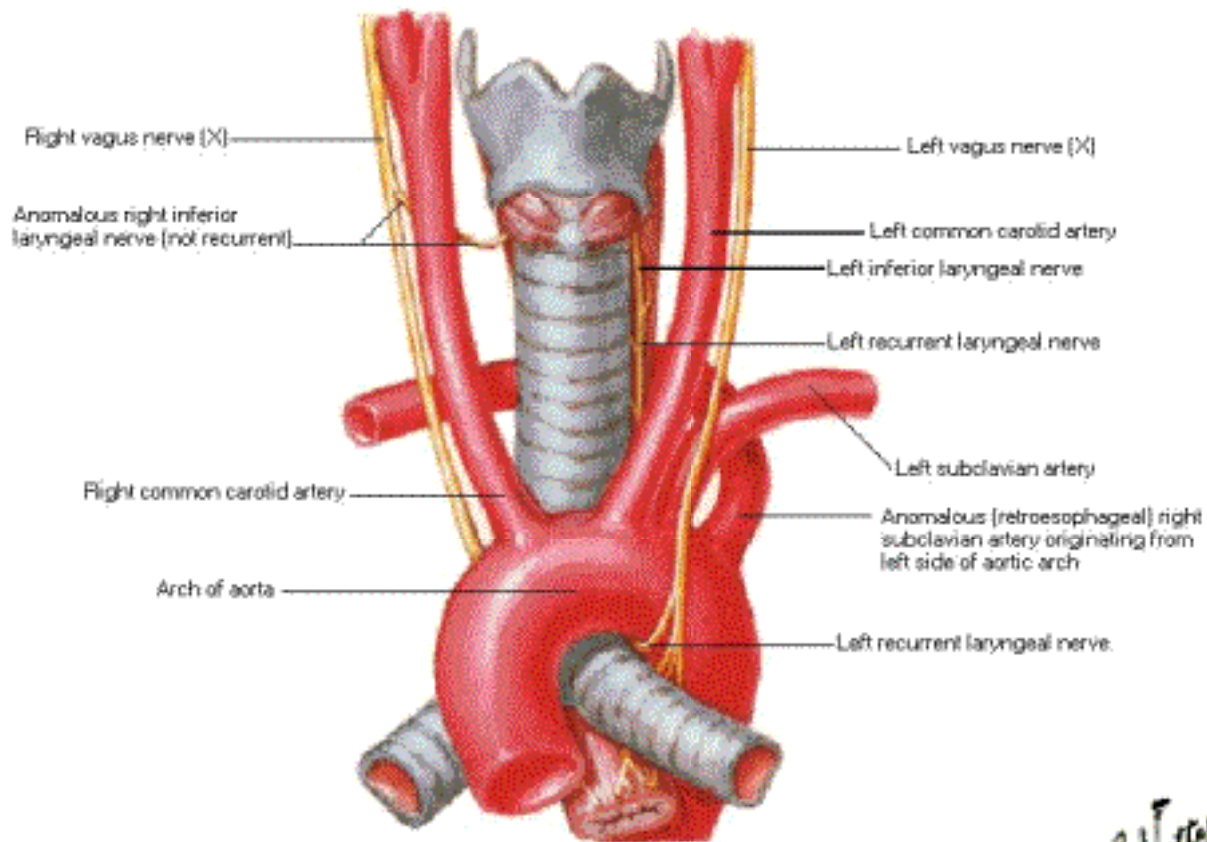
## Right Lateral Views



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# Nerves of Larynx

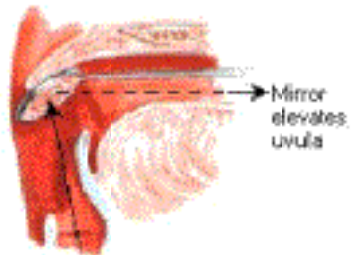
## Anterior View





# Inspection of Larynx

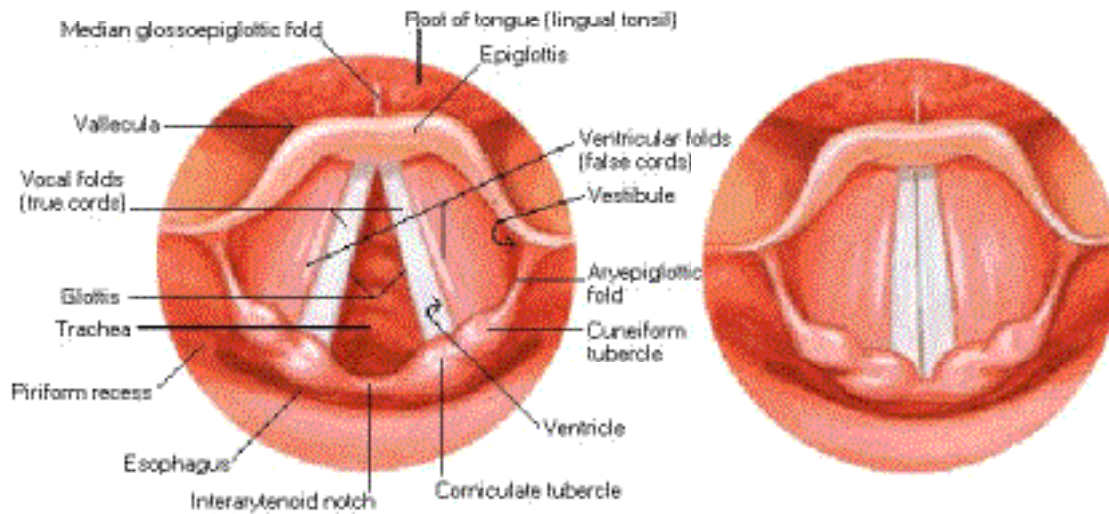
## Technique



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# Inspection of Larynx

## Views during Inspiration and Phonation

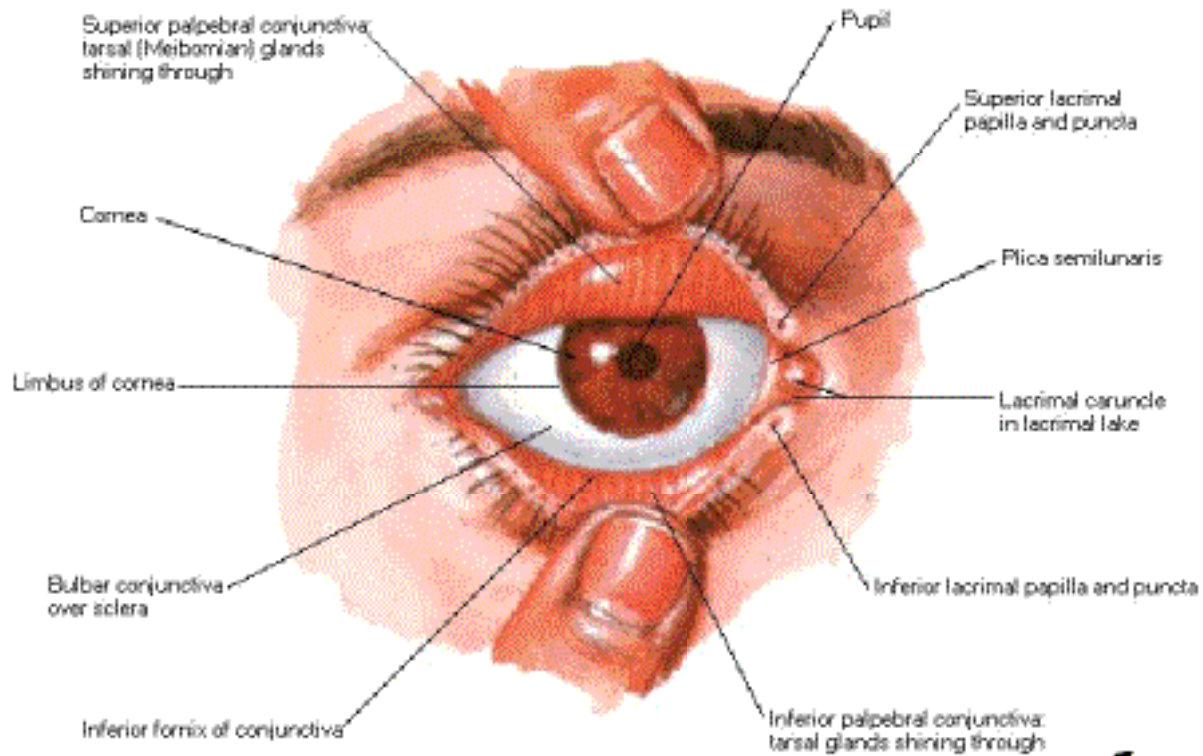


Normal larynx: inspiration

Normal larynx: phonation

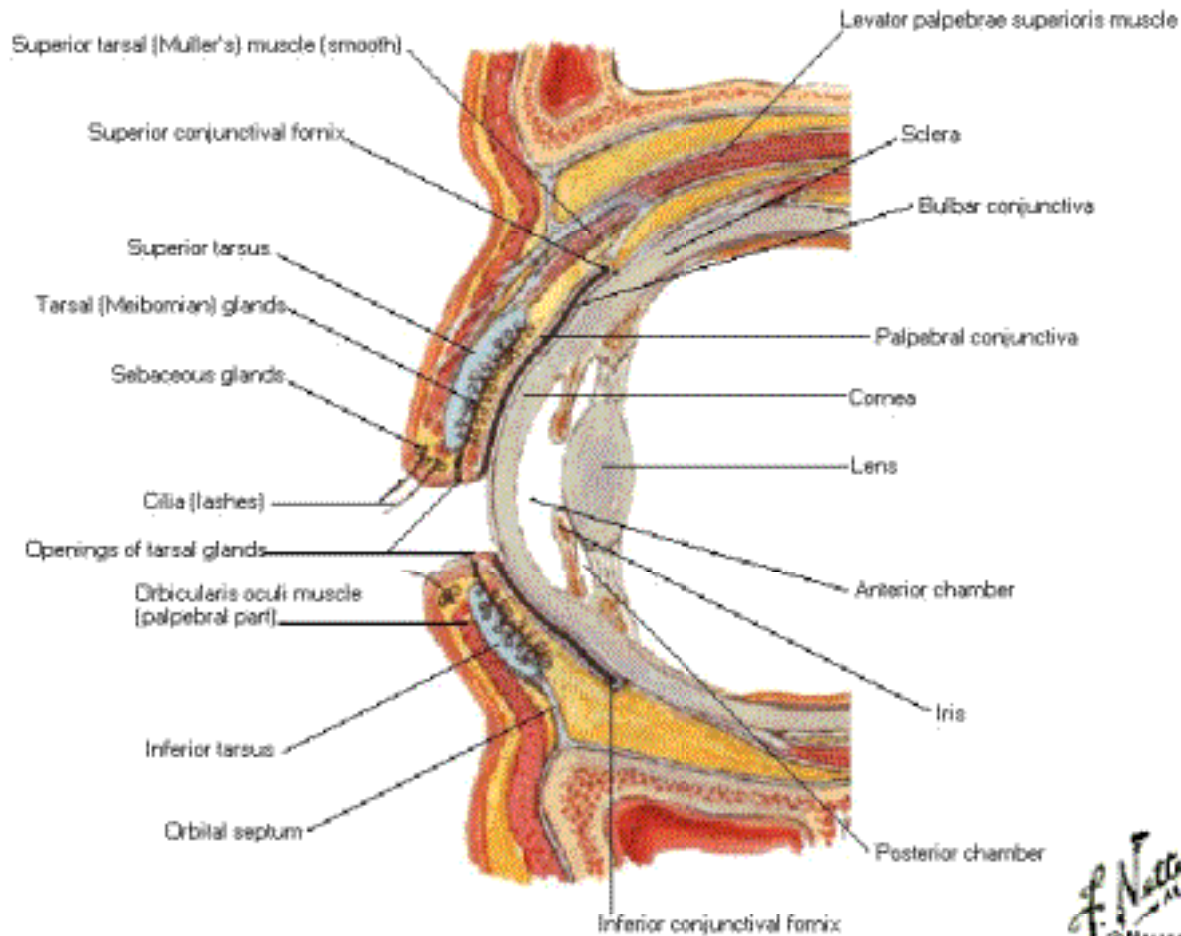
# Eyelids

## Anterior View



# Eyelids and Anterior Orbital Structures

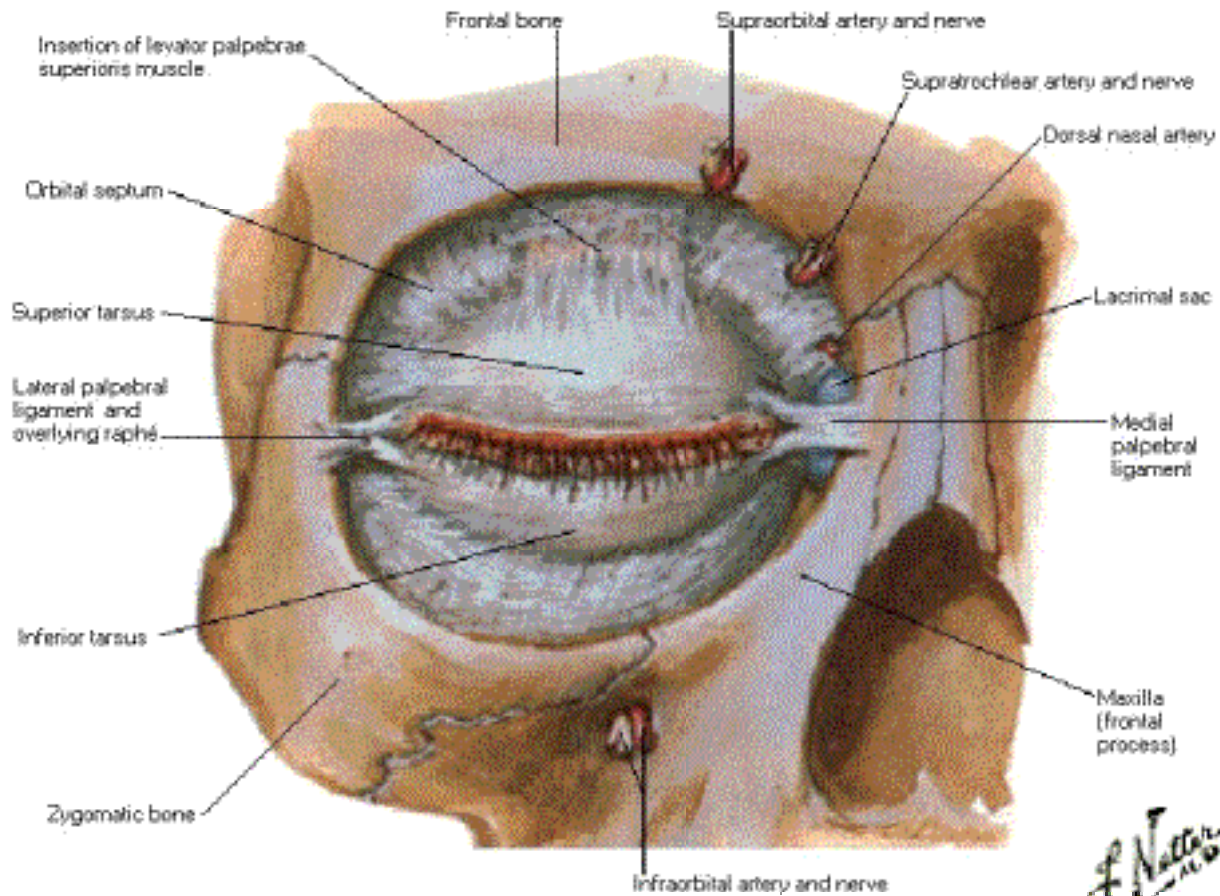
## Sagittal Section





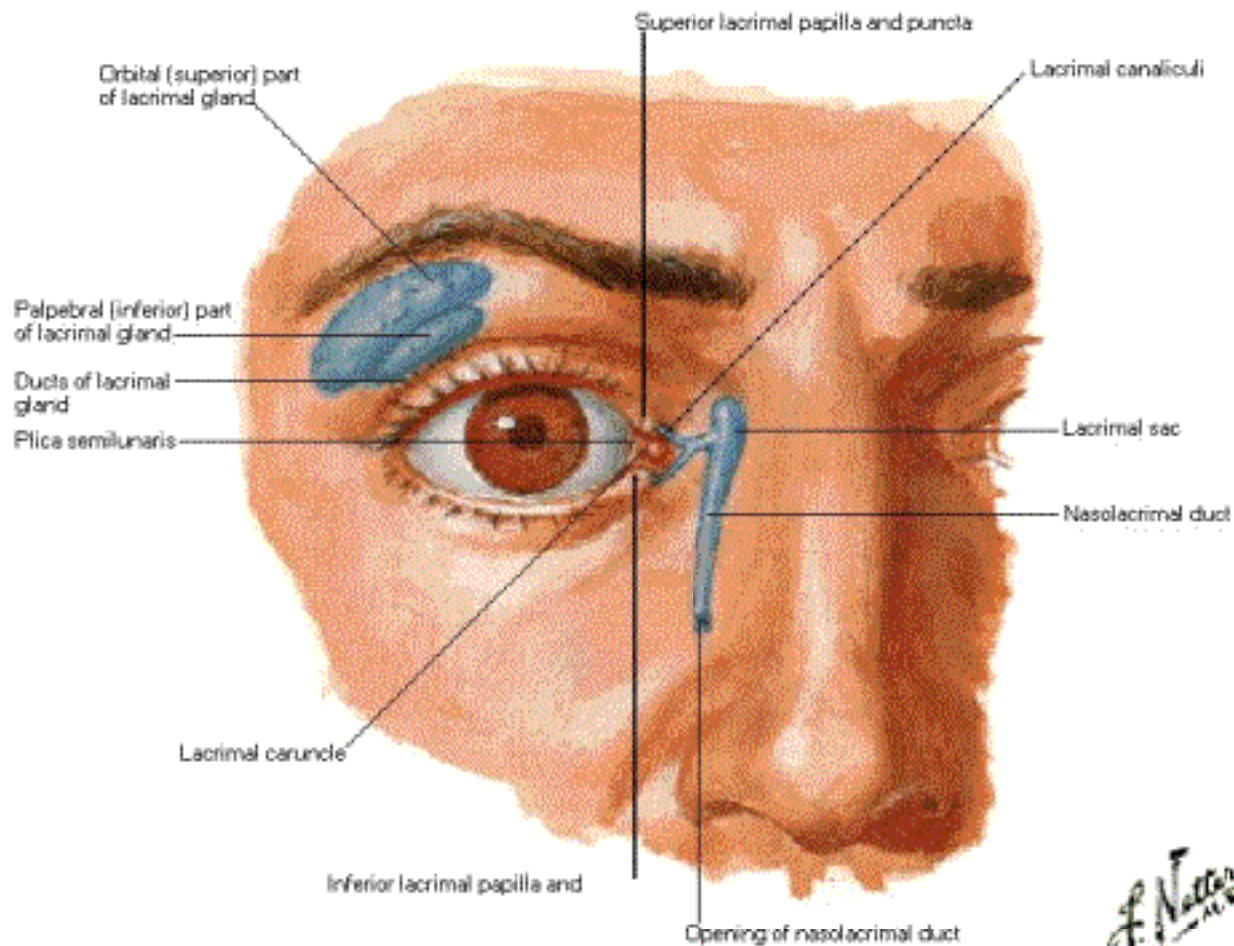
# Eyelids - Dissection

## Anterior View



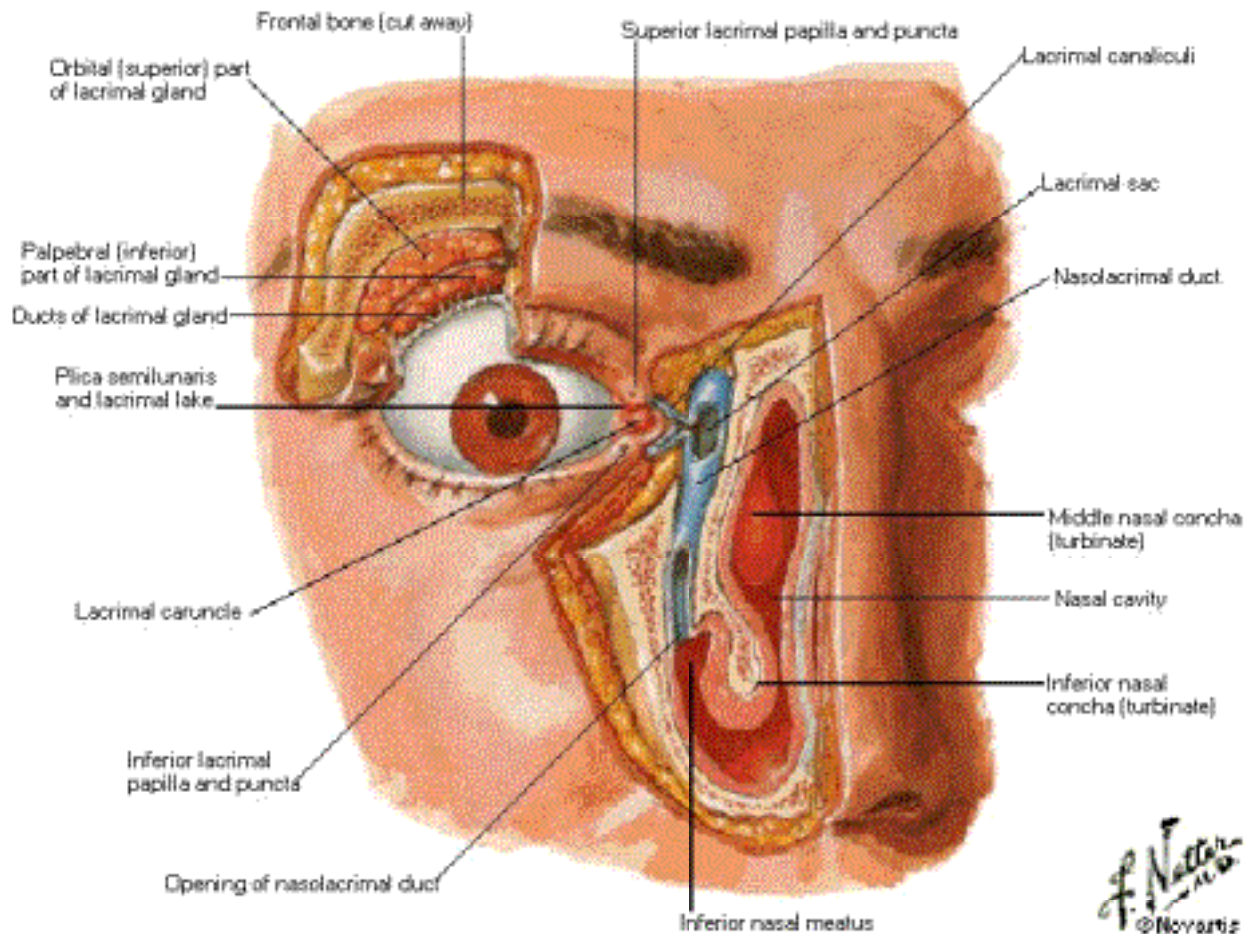
*F. Netter M.D.*  
© Novartis

# Lacrimal Apparatus in Situ



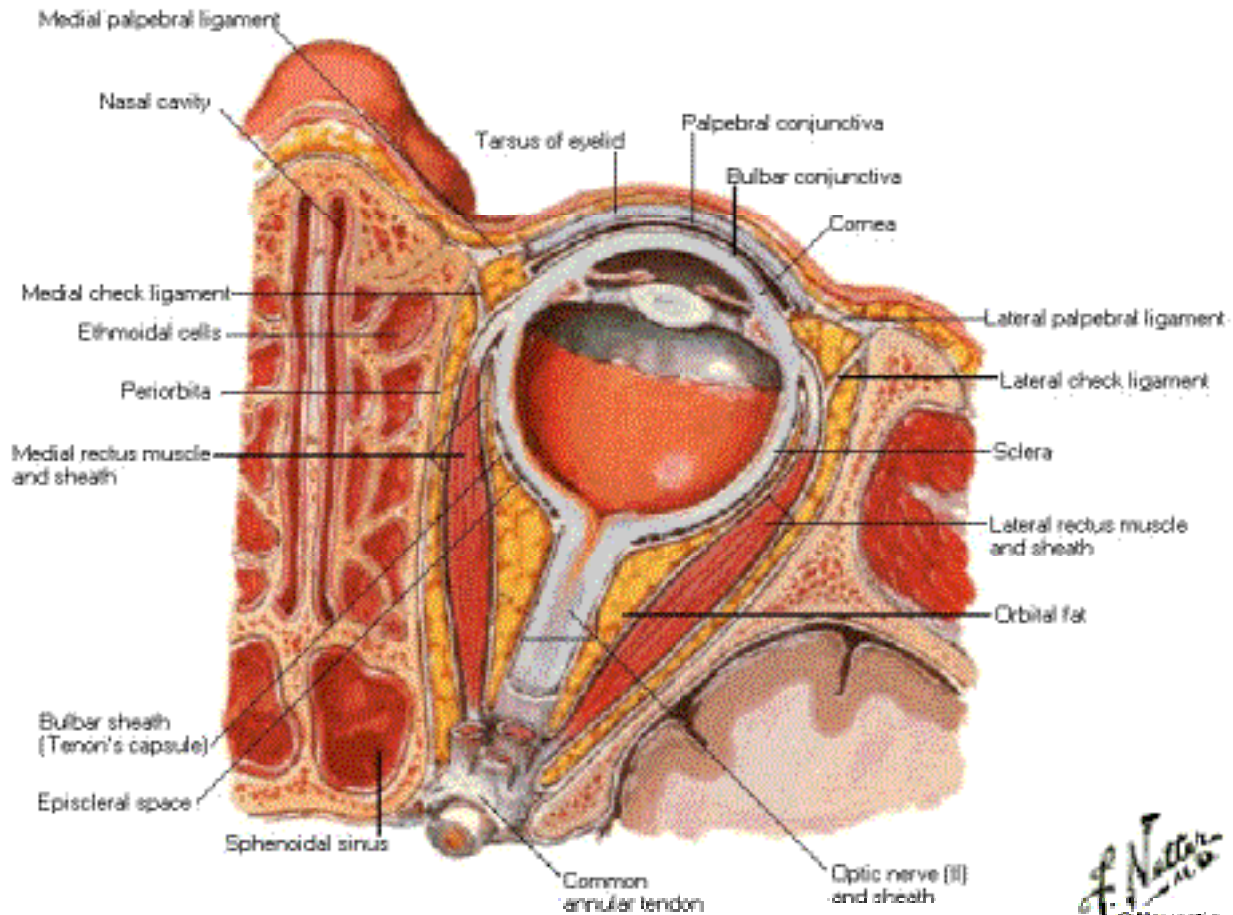
F. Netter  
M.D.  
© Novartis

# Lacrimal Apparatus Dissection



# Fascia of Orbit and Eyeball

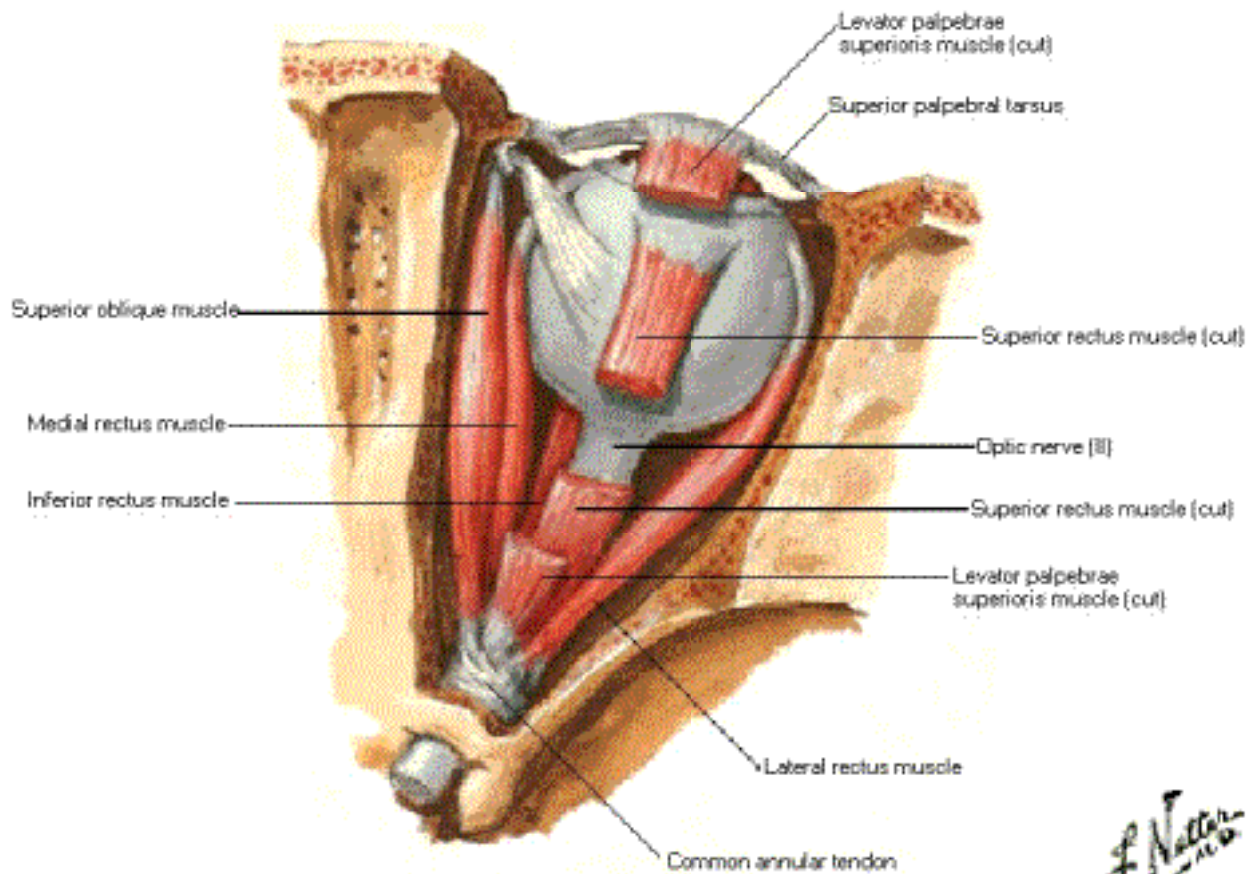
## Horizontal Section





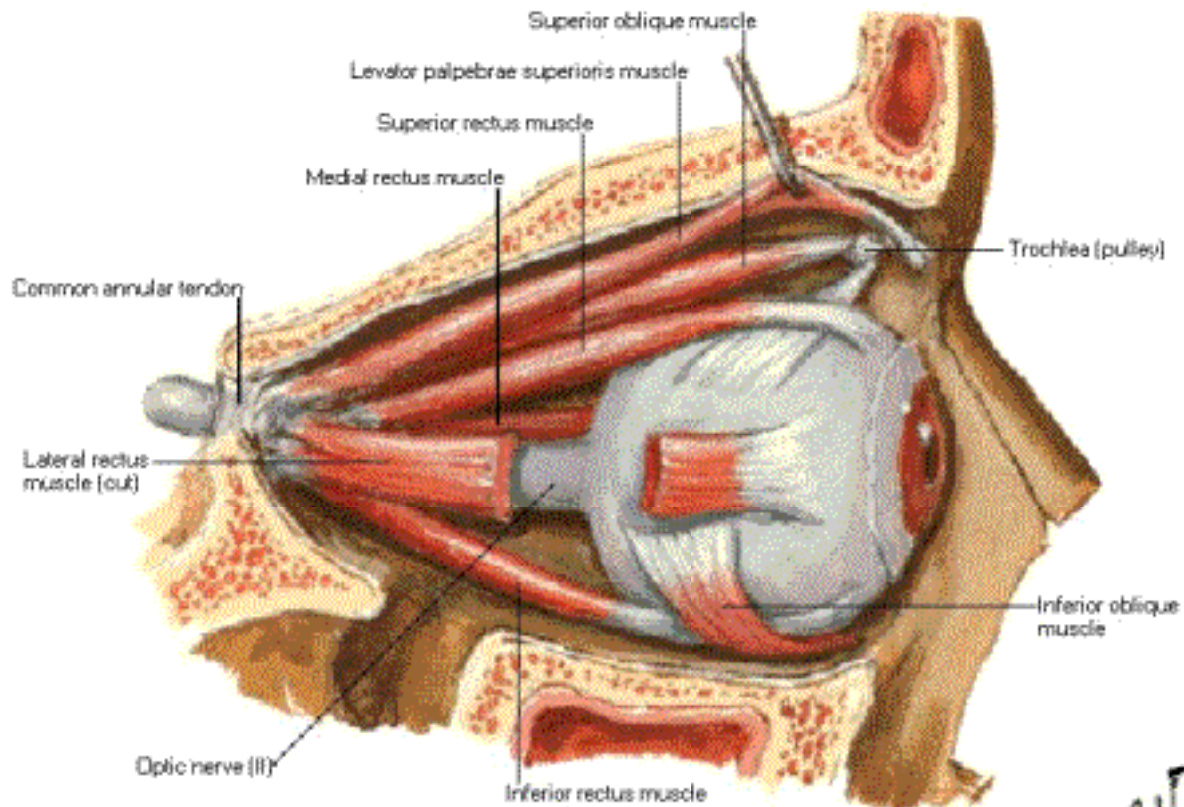
# Extrinsic Eye Muscles

## Superior View



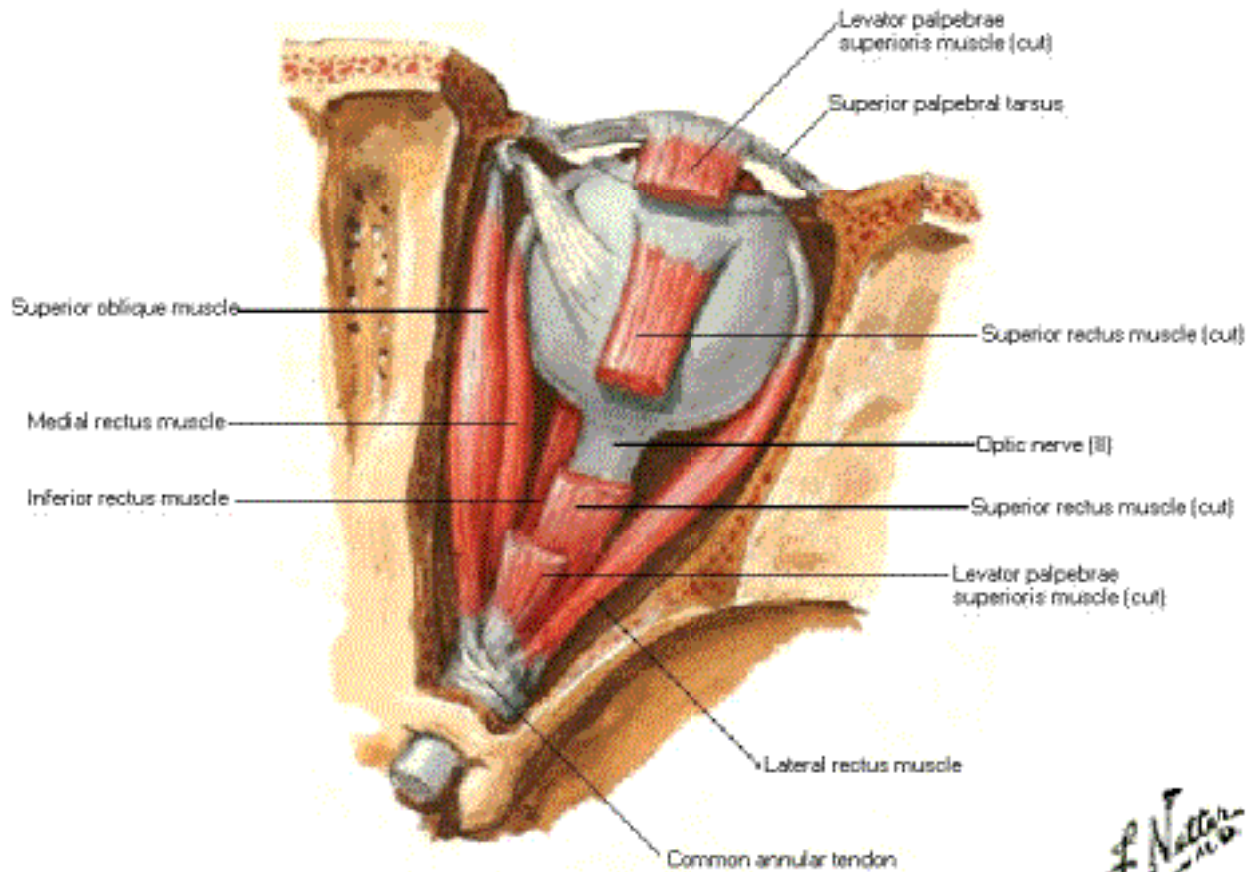
# Extrinsic Eye Muscles

## Right Lateral View



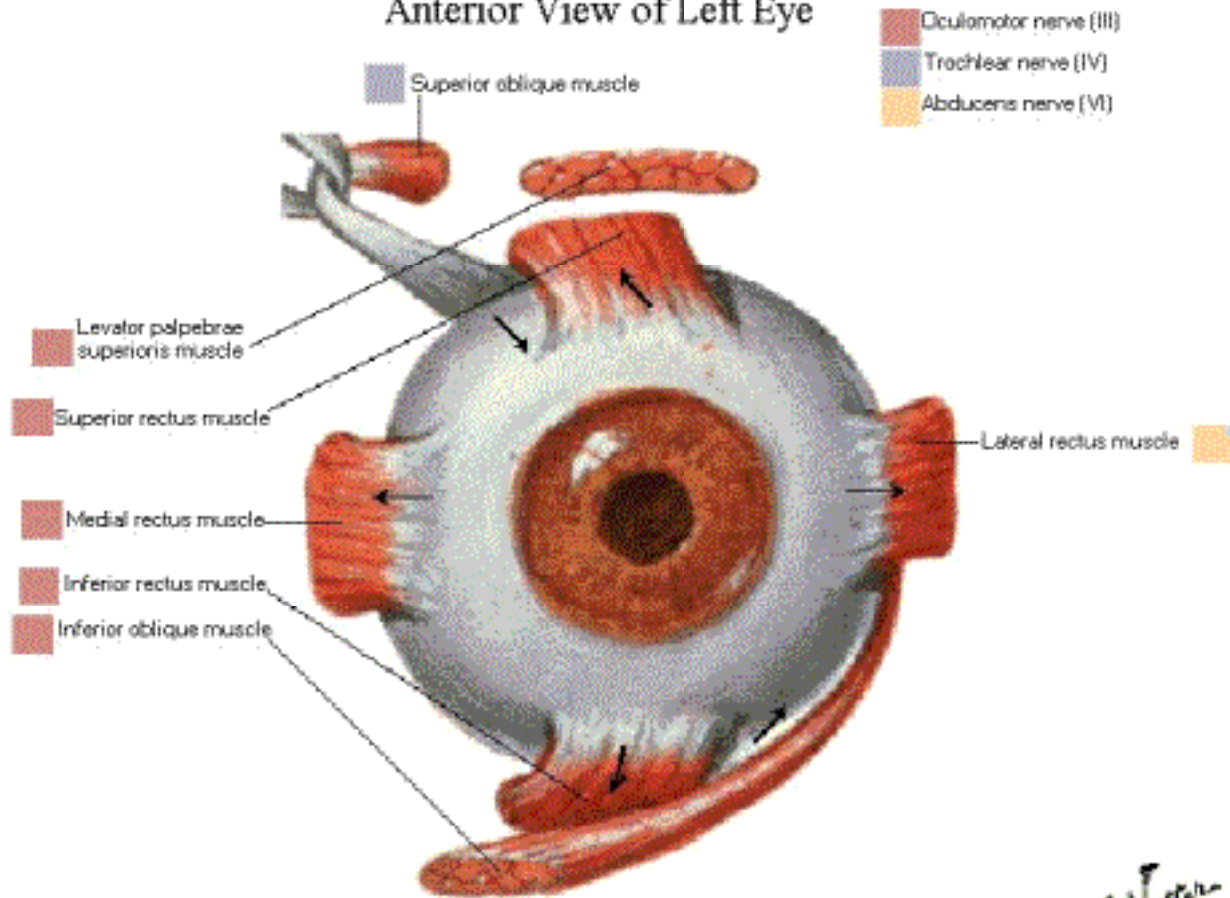
# Extrinsic Eye Muscles

## Superior View



# Extrinsic Eye Muscles - Innervation and Action

## Anterior View of Left Eye



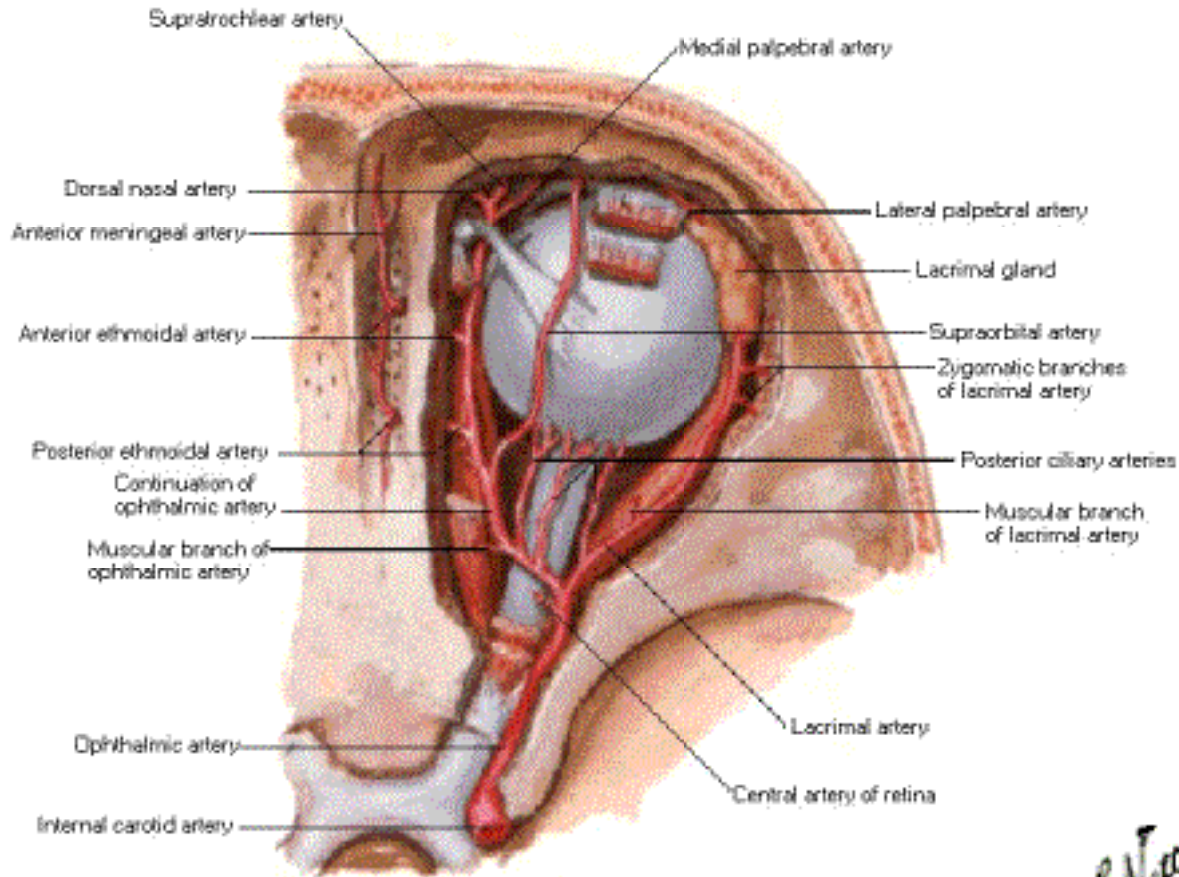
Note: arrows indicate direction of eye movement produced by each muscle

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© 1996



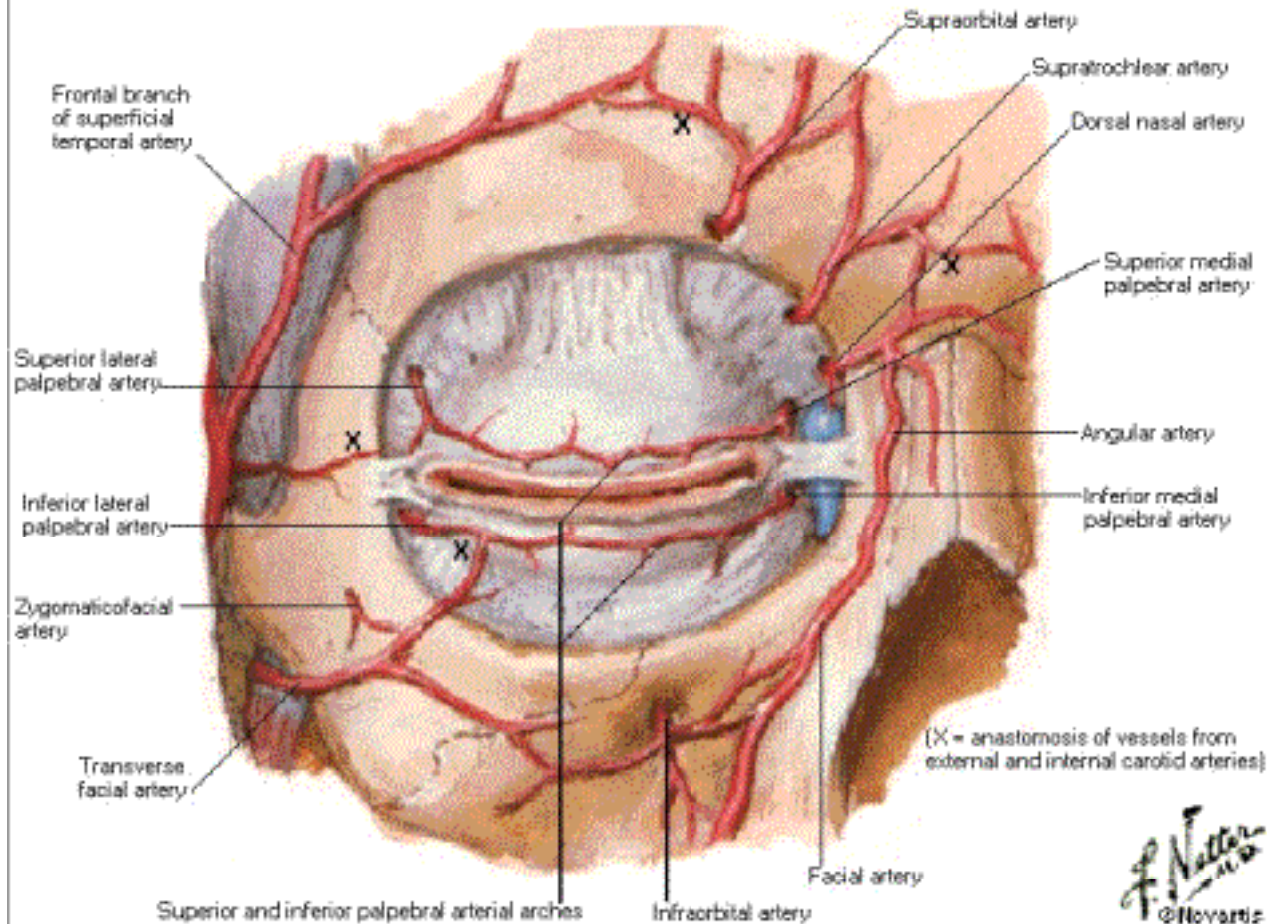
# Arteries and Veins of Orbit and Eyelids

## Superior View



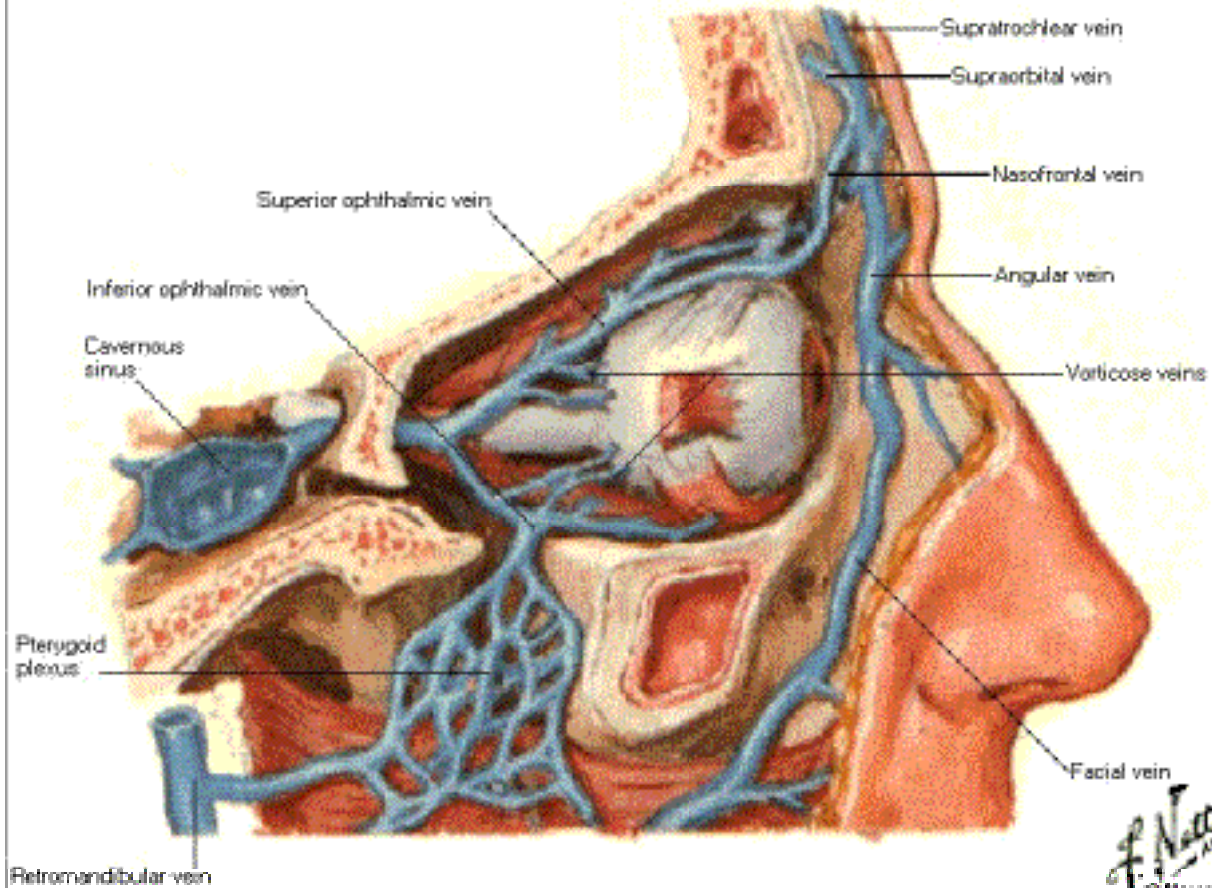
# Arteries and Veins of Orbit and Eyelids

## Anterior View



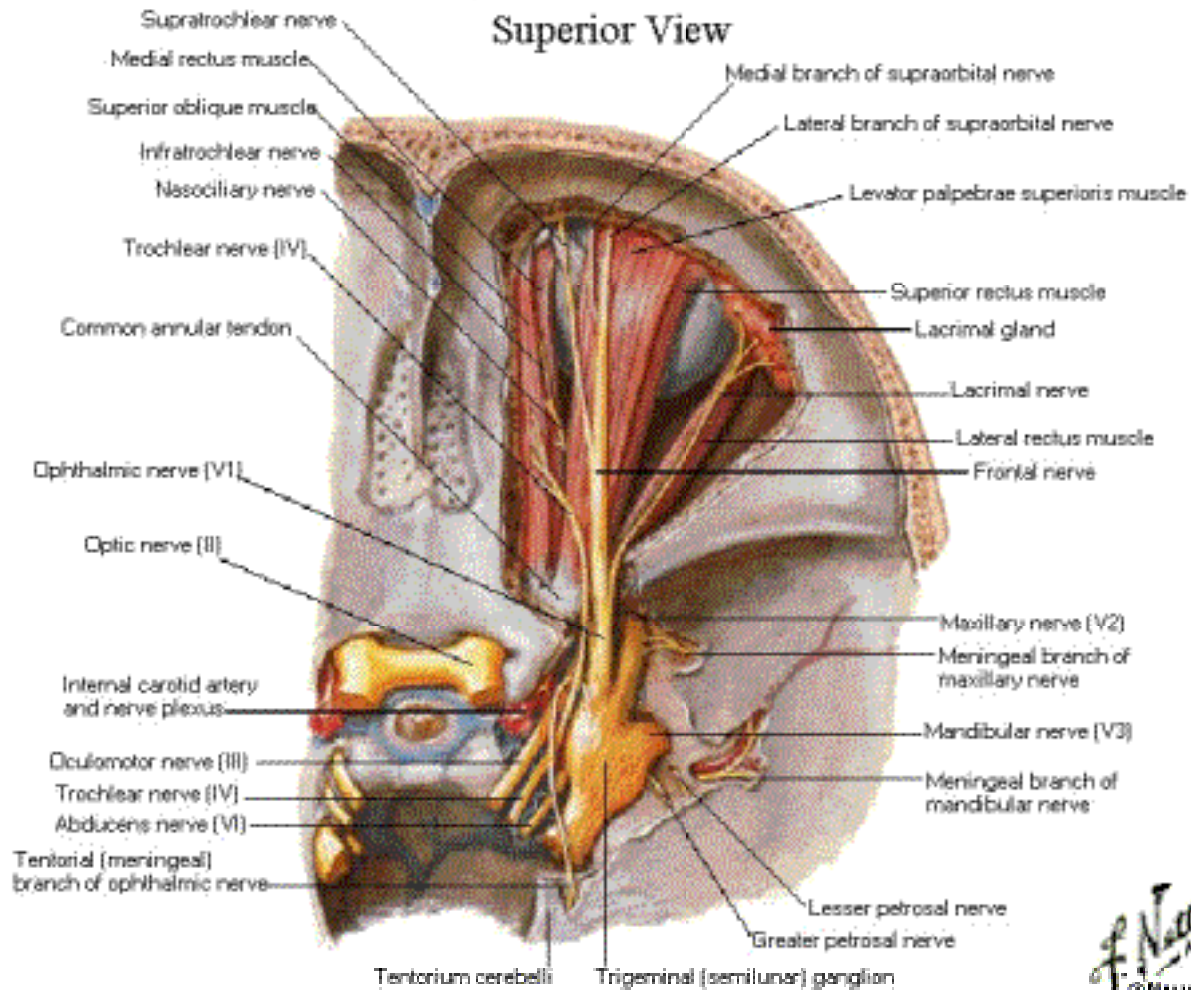
# Arteries and Veins of Orbit and Eyelids

## Lateral View



# Nerves of Orbit

## Superior View

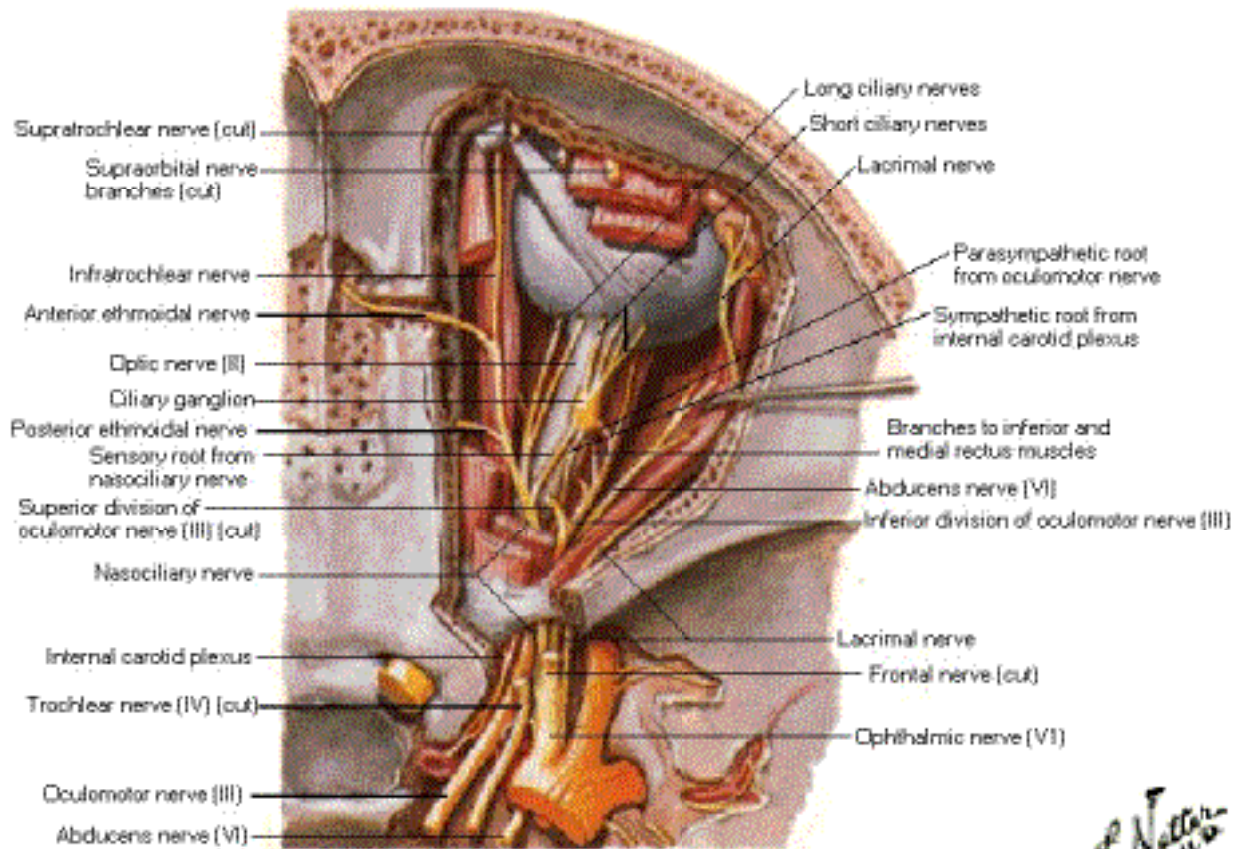


*F. Netter M.D.*  
© Hovavitz



# Nerves of Orbit - Muscles Partially Cut Away

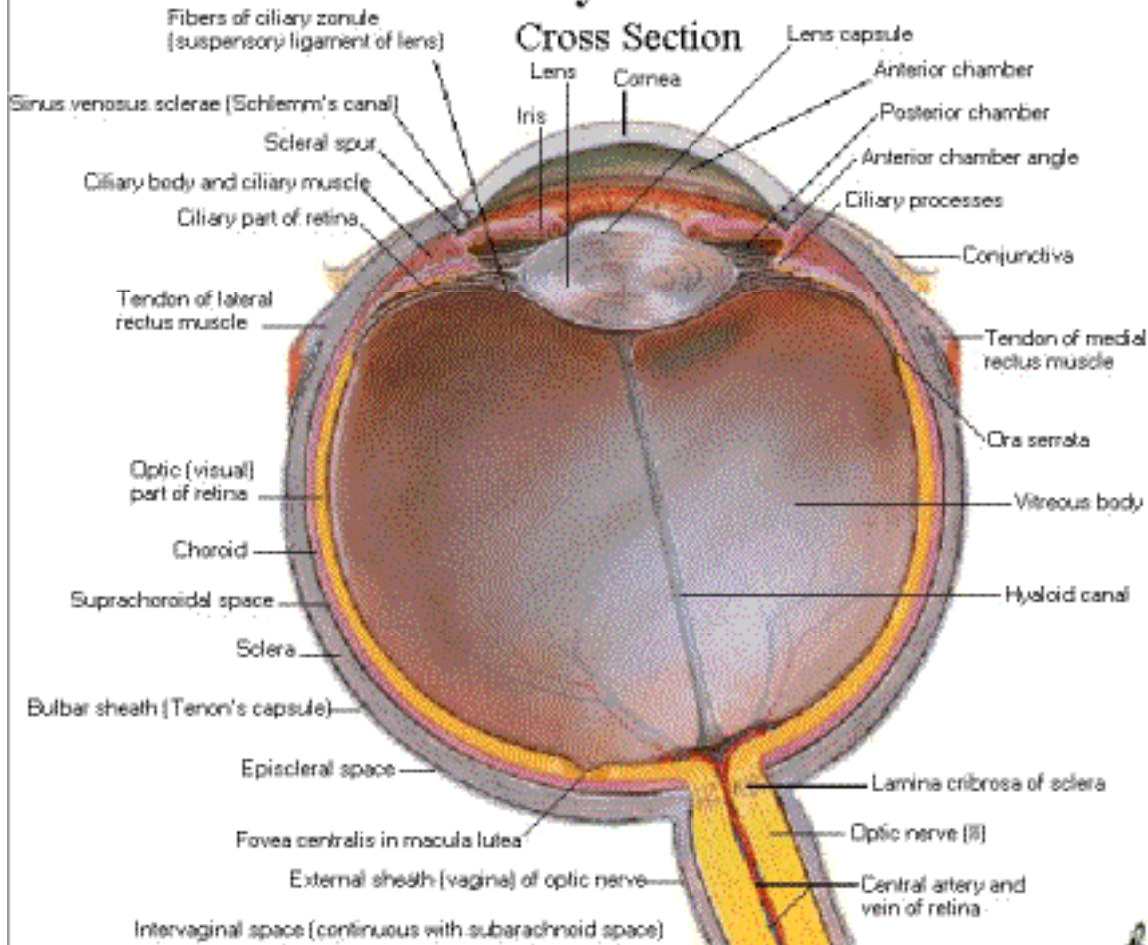
## Superior View



*F. Netter M.D.*  
© 1956

# Eyeball

## Cross Section

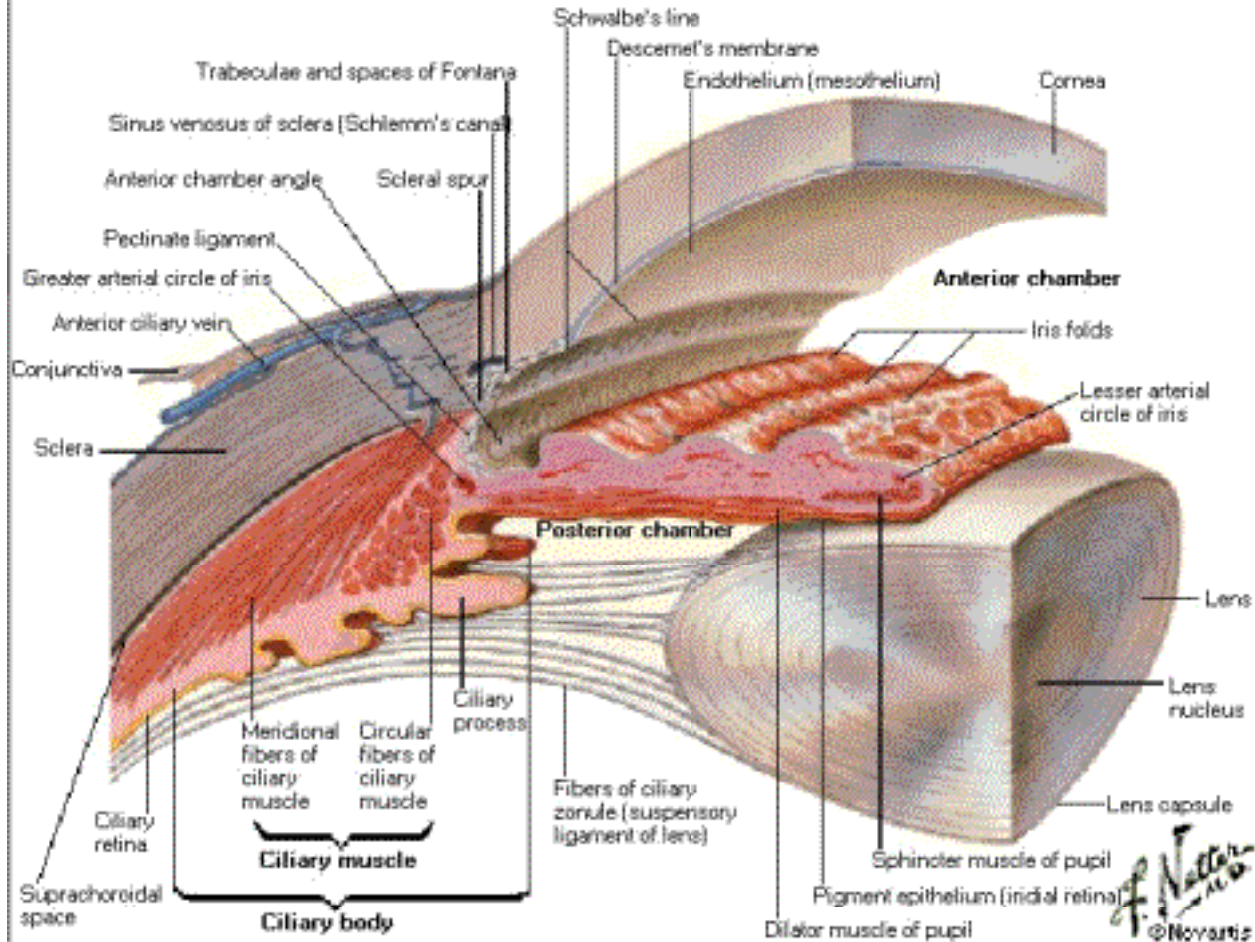


## Horizontal section

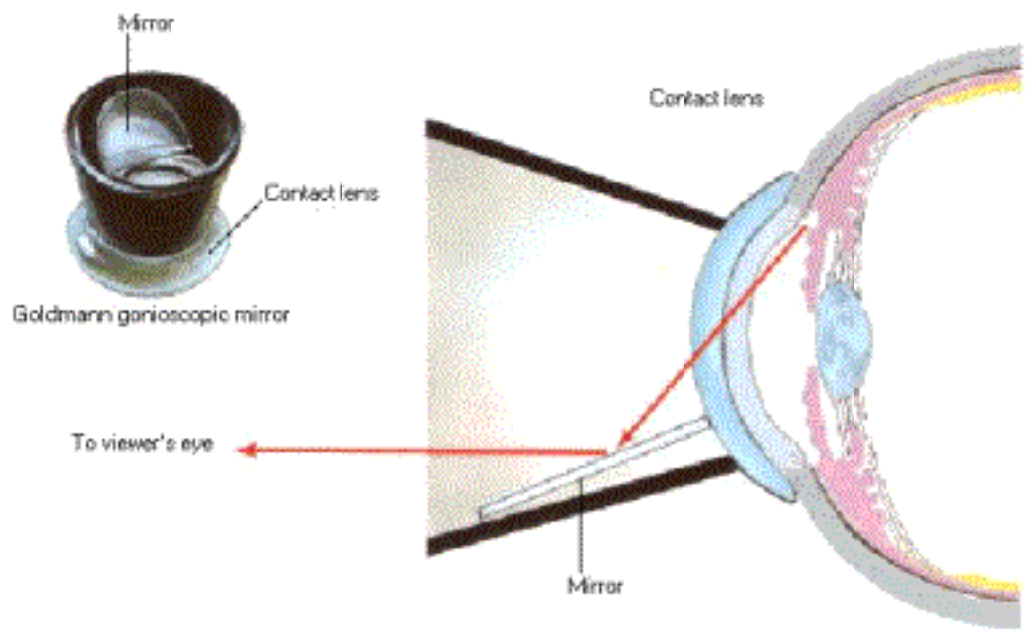
*F. Netter M.D.*  
© 1996

# Anterior and Posterior Chambers of Eye

Note: for clarity only single plane of zonular fibers shown; actually fibers surround entire circumference of lens



# Anterior Chamber Angle of Eye

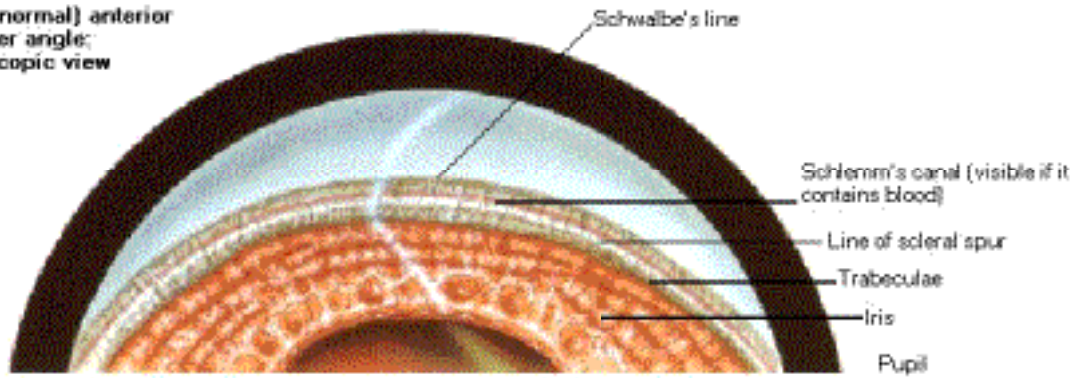




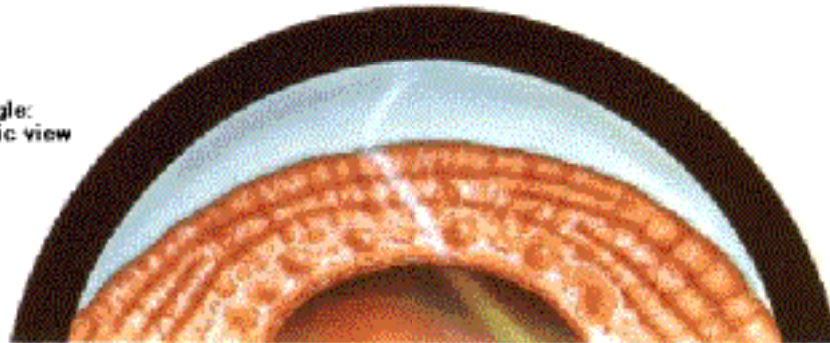
# Anterior Chamber Angle of Eye

## Gonioscopic Views

Open (normal) anterior chamber angle; gonioscopic view



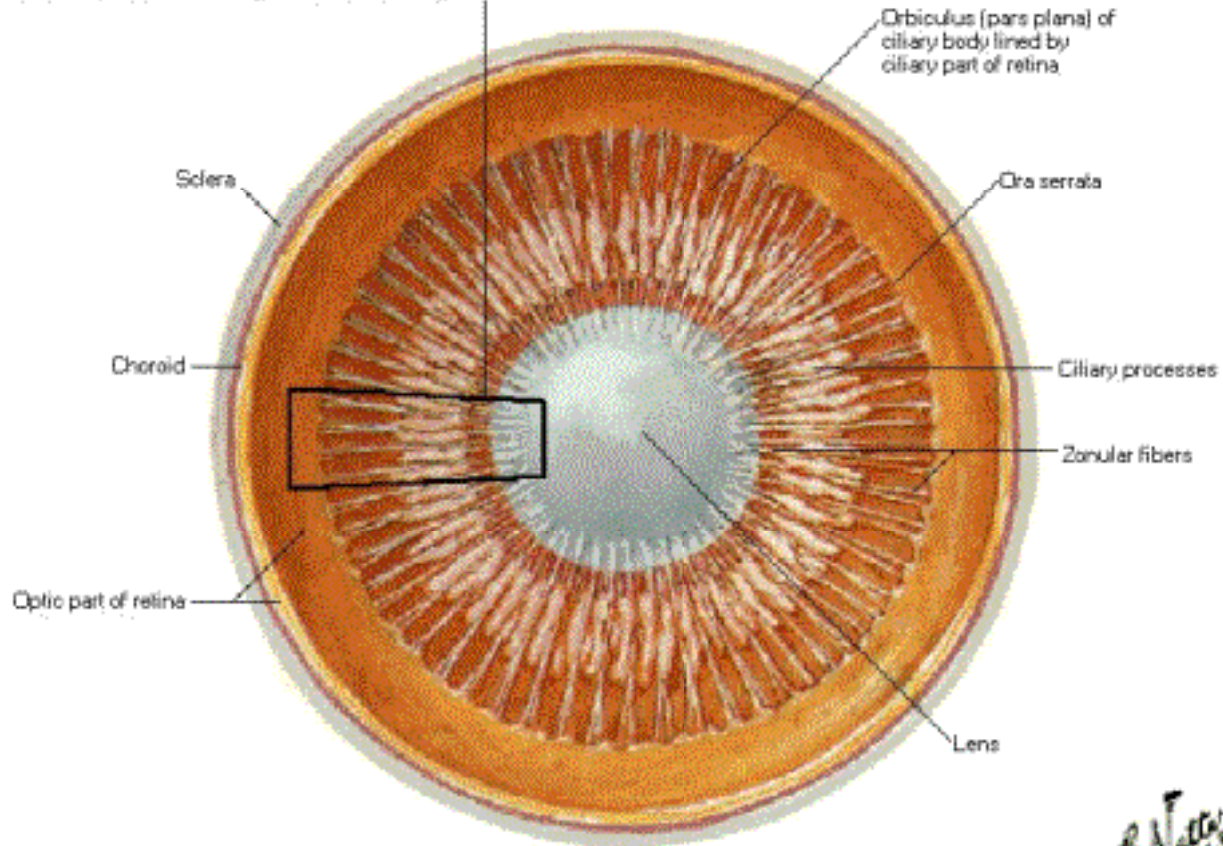
Closed angle; gonioscopic view



# Lens and Supporting Structures

## Section in Frontal Plane

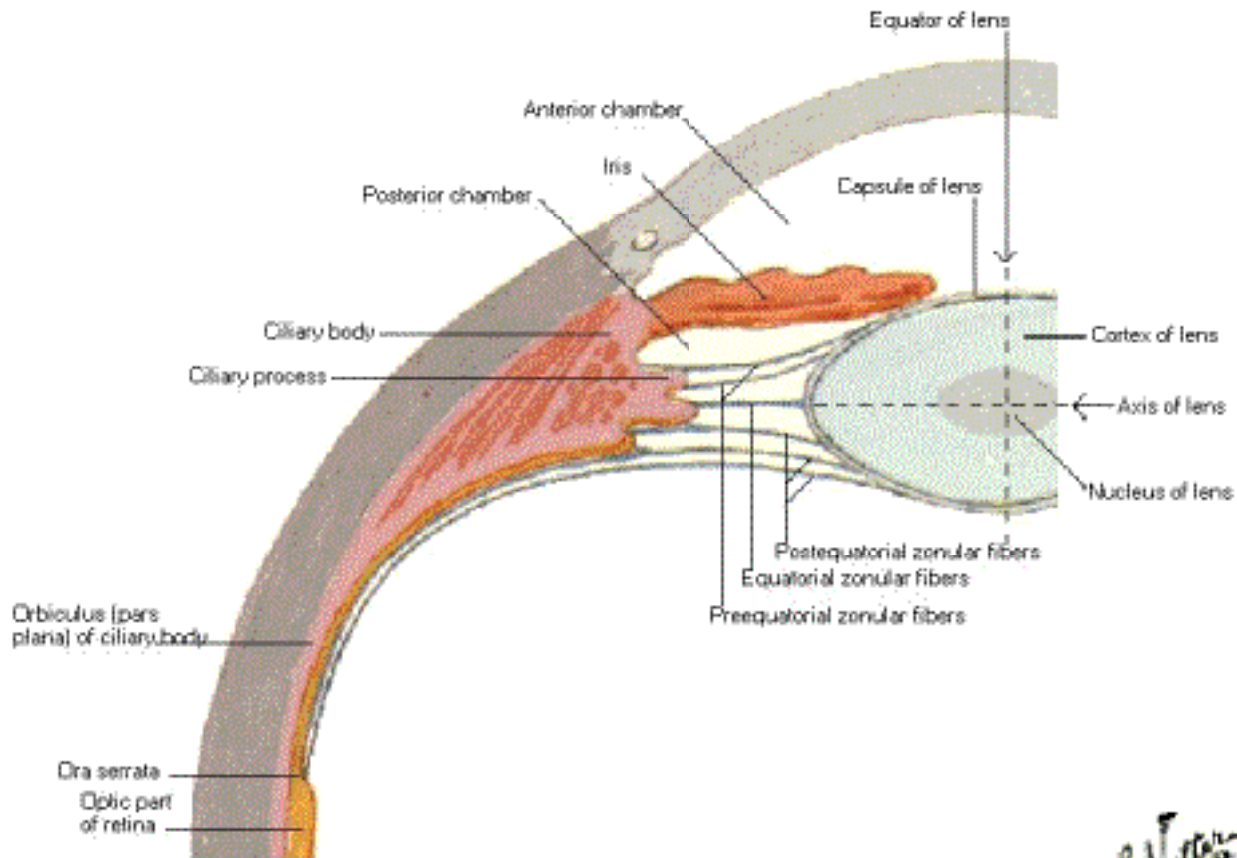
Note: See plate B5C for magnification of this segment.



Bulb of eye: anterior segment viewed from behind

# Lens and Supporting Structures

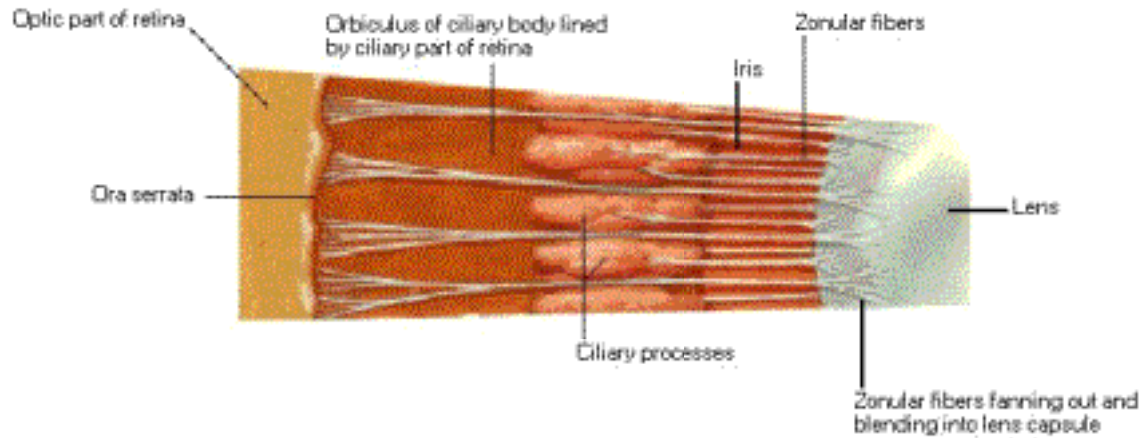
## Horizontal Section



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# Lens and Supporting Structures

Segment Outlined in Plate 85A



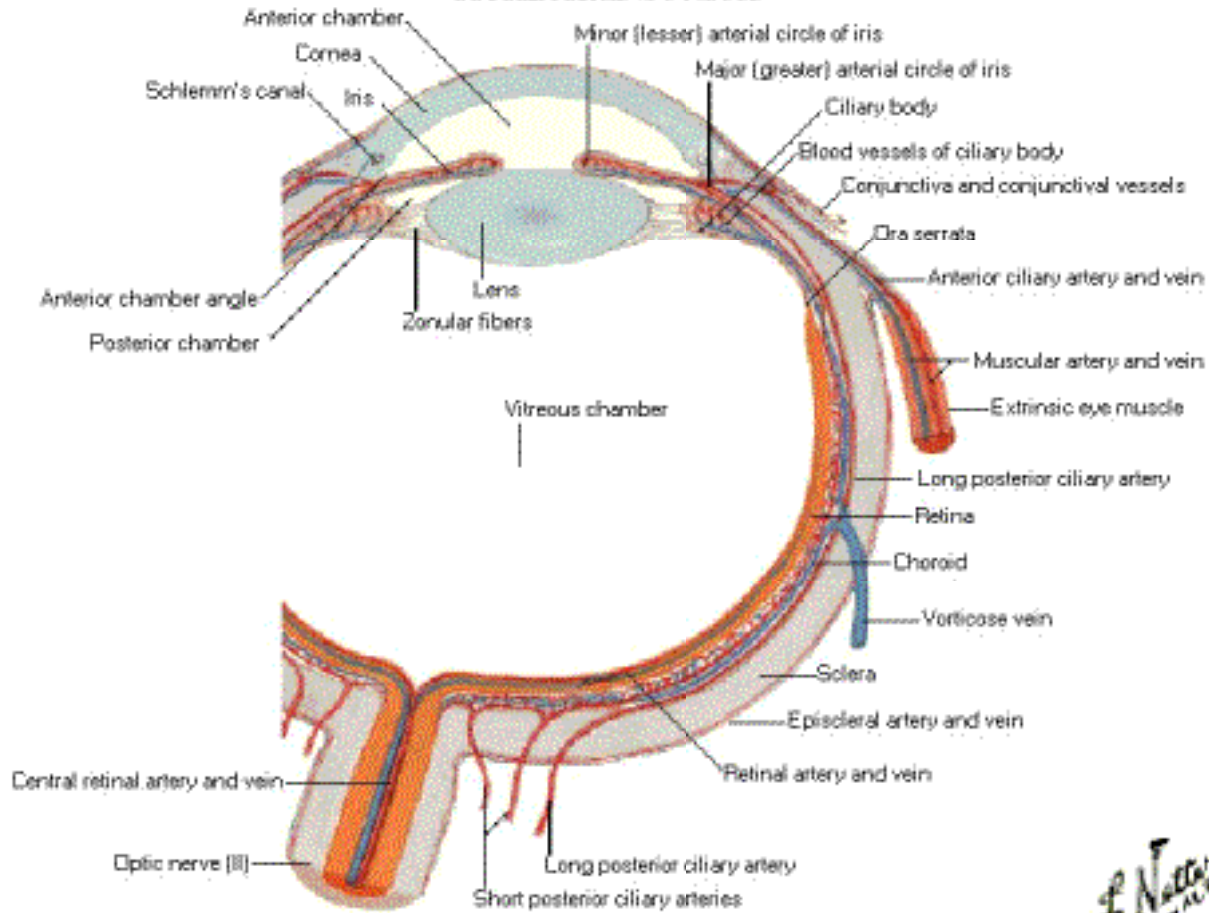
Magnified to ultramicroscopic scale (semischematic)

*F. Natter*  
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# Intrinsic Arteries and Veins of Eye

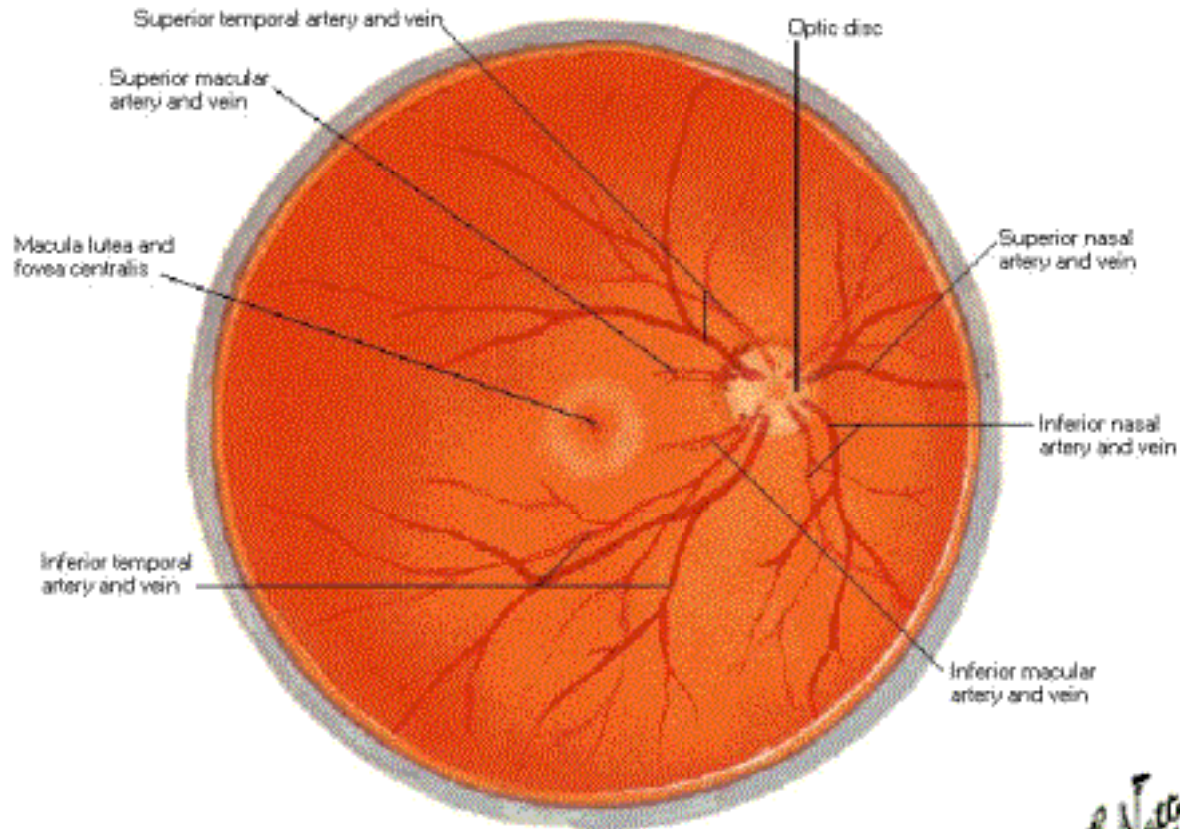
## Horizontal Section



*F. Nattan*  
© NOV 2012

# Intrinsic Arteries and Veins of Eye

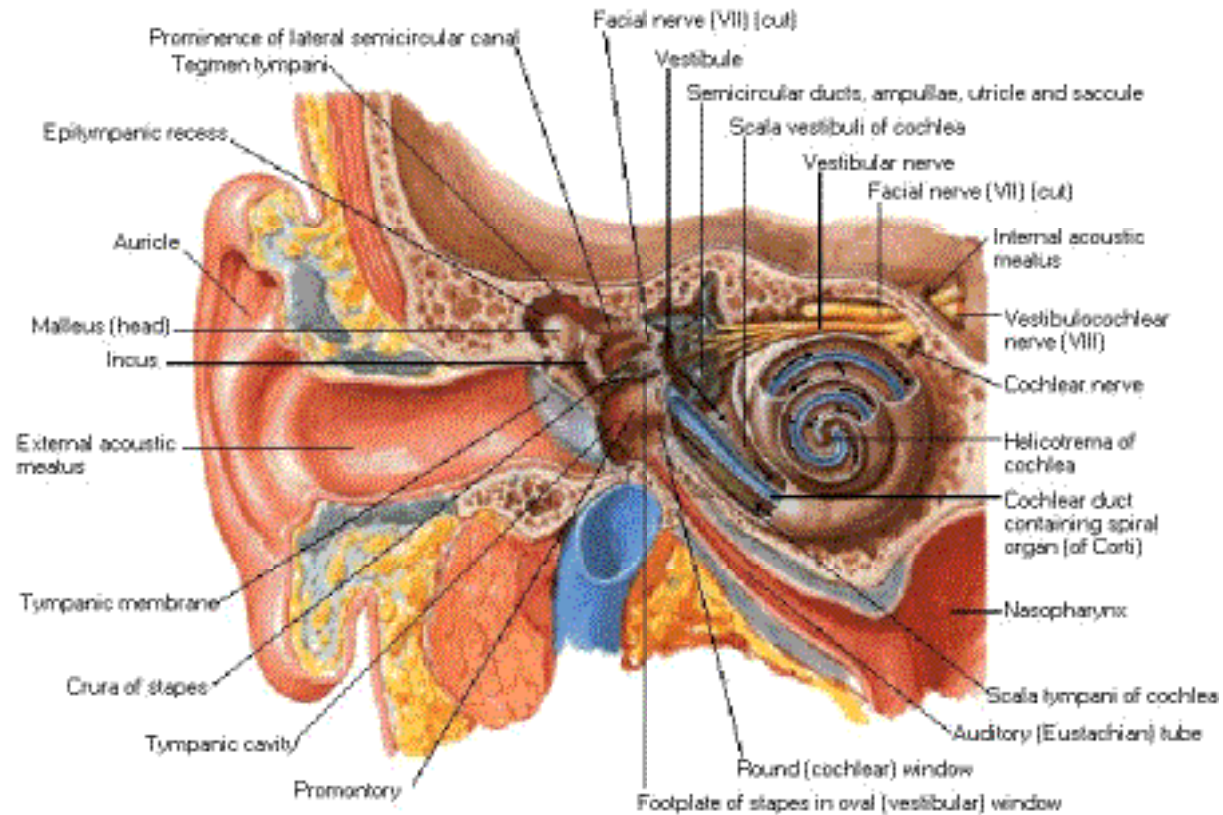
## Ophthalmoscopic View



Right retinal vessels

*F. Netter*  
© Novartis

# Pathway of Sound Reception



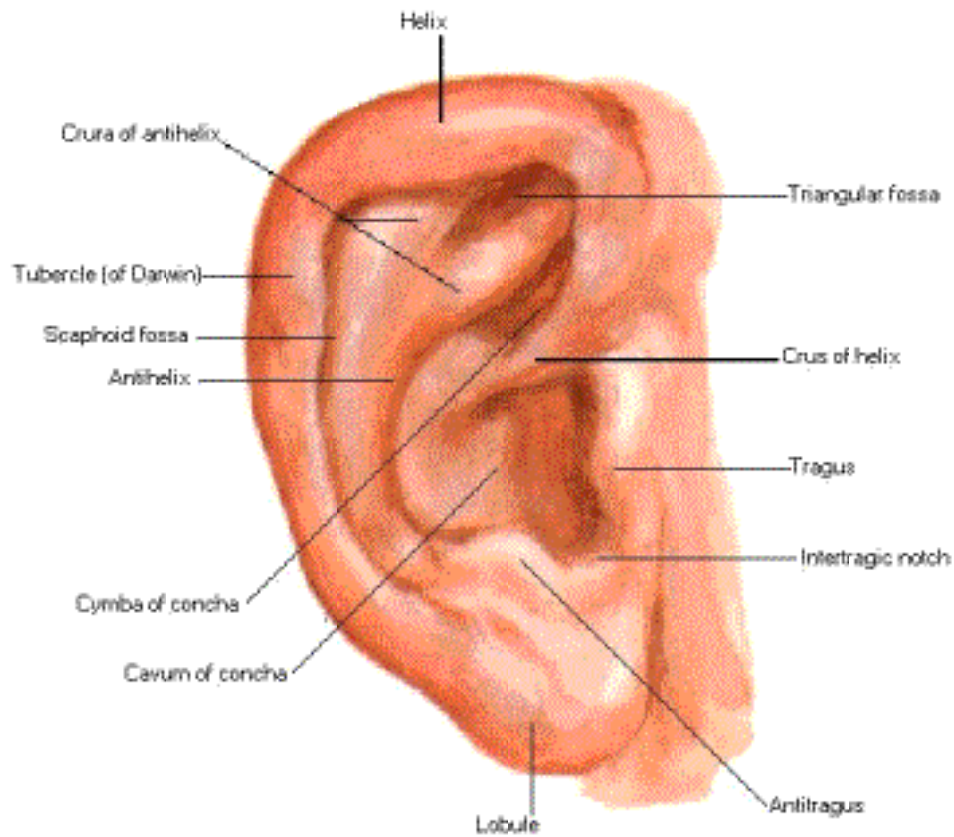
Note: arrows indicate course of sound waves

Schematic frontal section

*F. Netter*  
© 1996

# External Ear

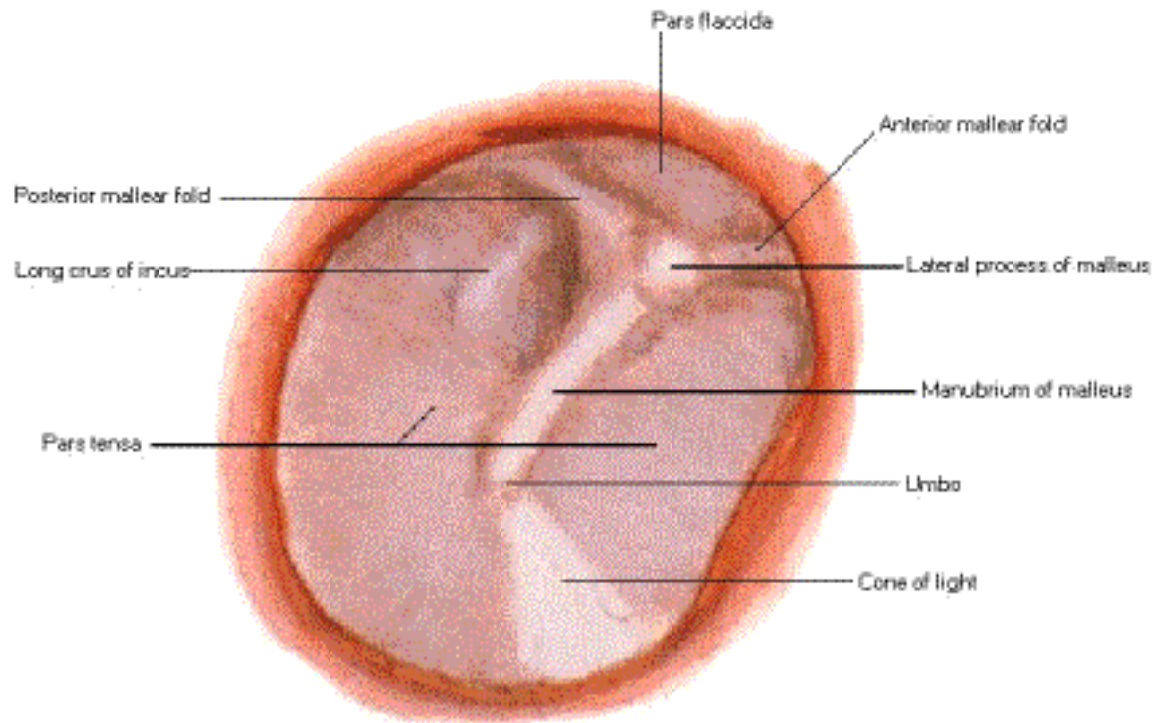
## Right Auricle





# External Ear

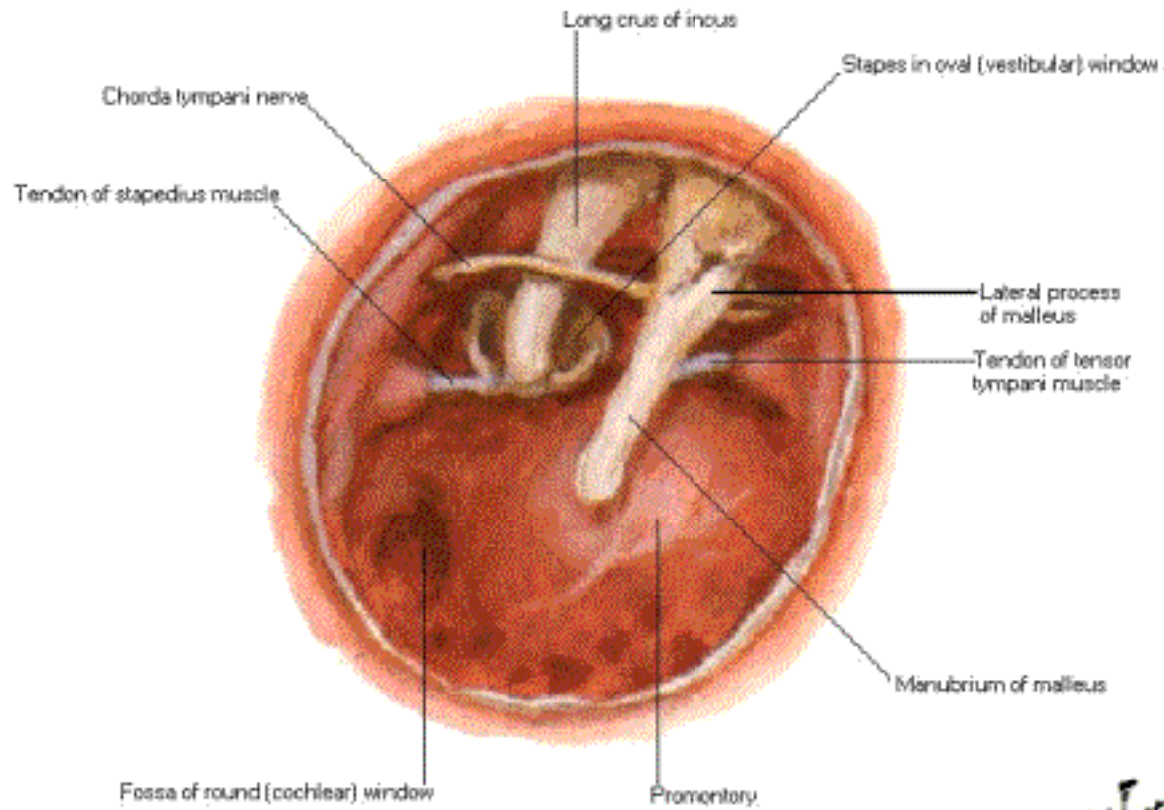
## Right Tympanic Membrane



Viewed through speculum

# Tympanic Cavity

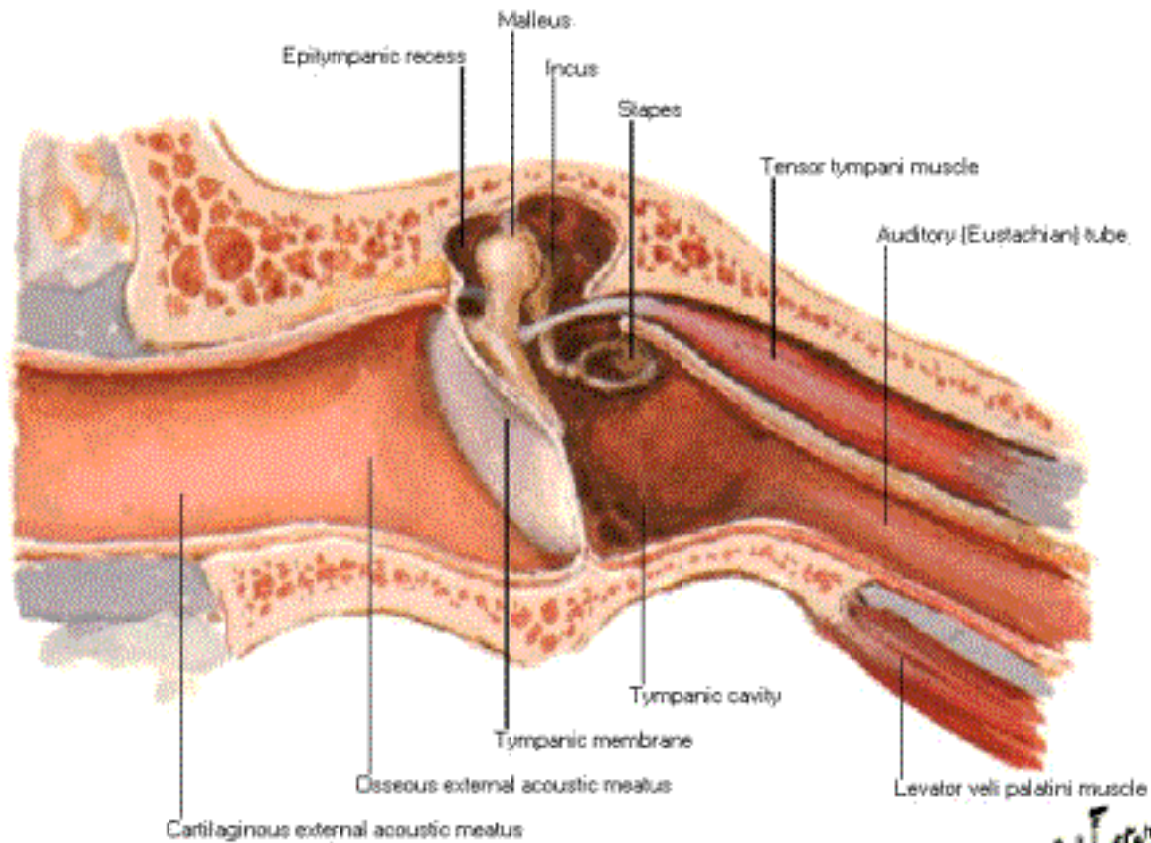
Viewed from External Acoustic Meatus



Tympanic Membrane Removed

# External Ear and Tympanic Cavity

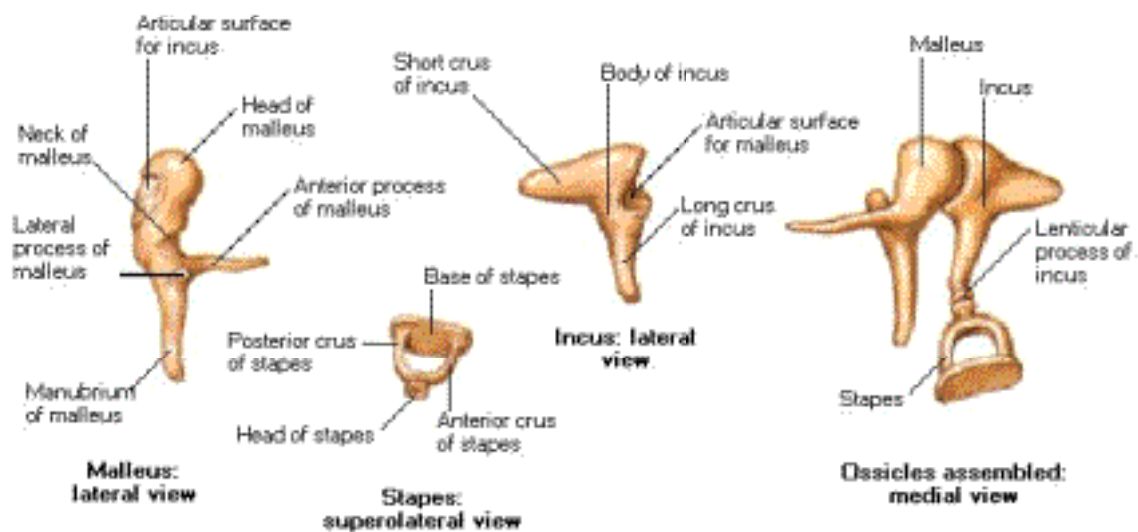
## Coronal Oblique Section



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# Tympanic Cavity

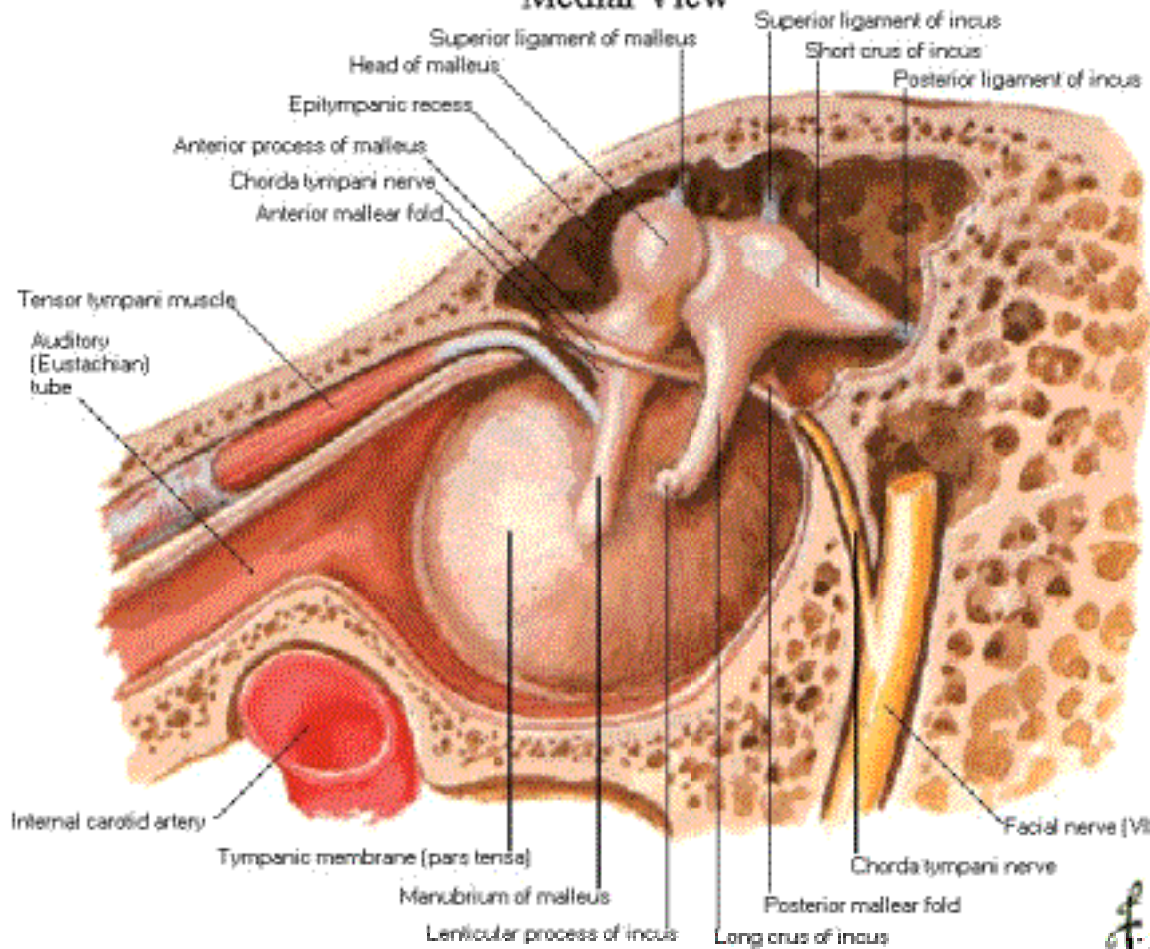
## Auditory Ossicles





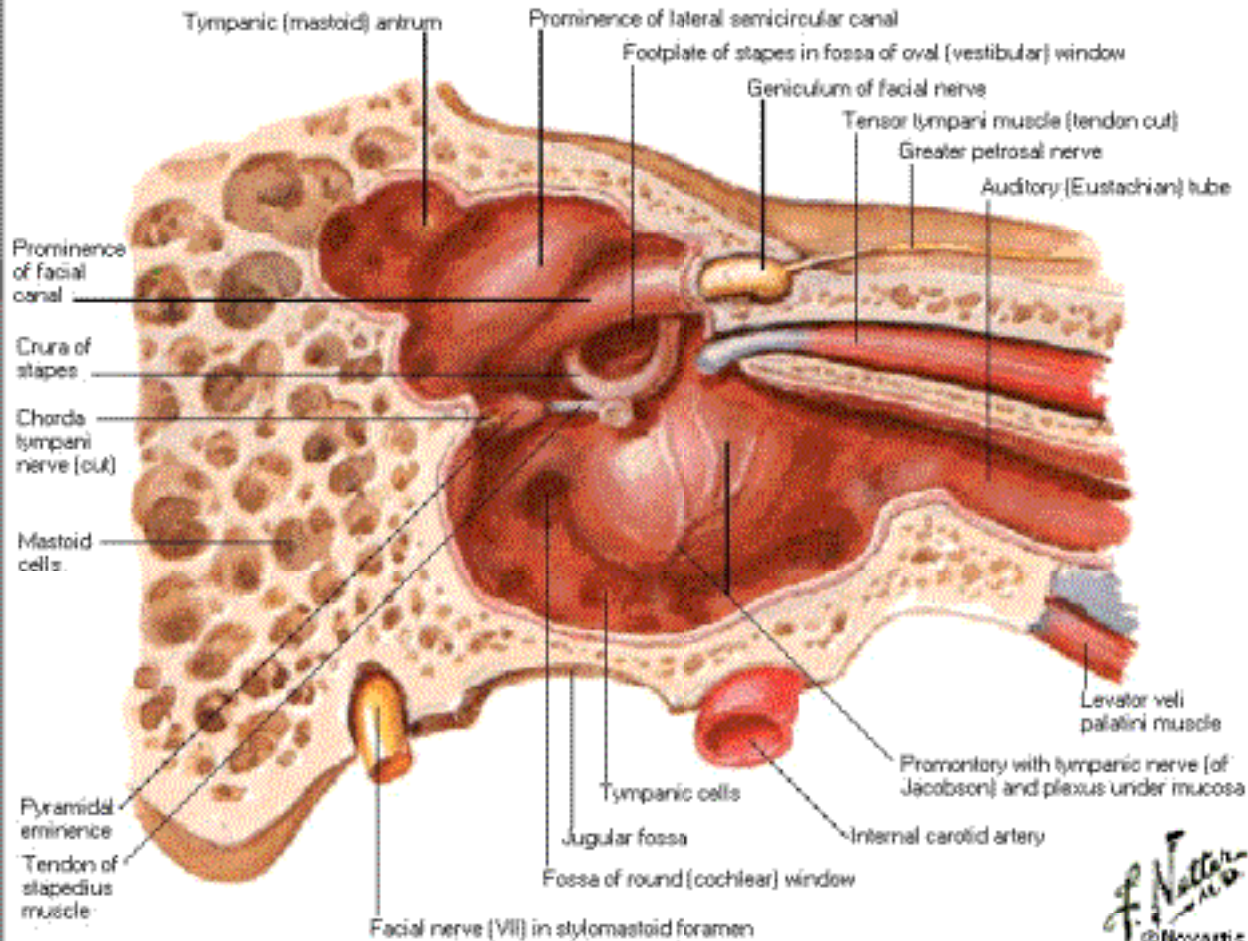
# Tympanic Cavity - Lateral Wall

## Medial View



# Tympanic Cavity - Medial Wall

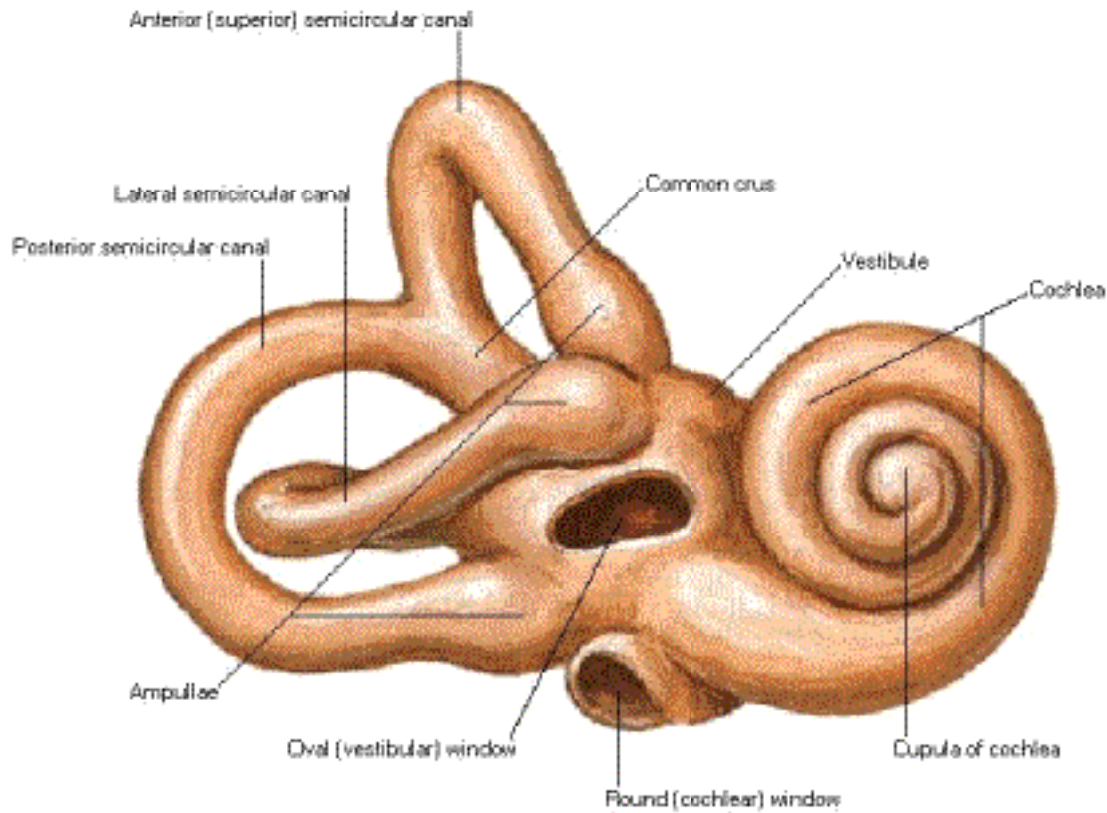
## Lateral View



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© Novartis

# Right Osseous Labyrinth

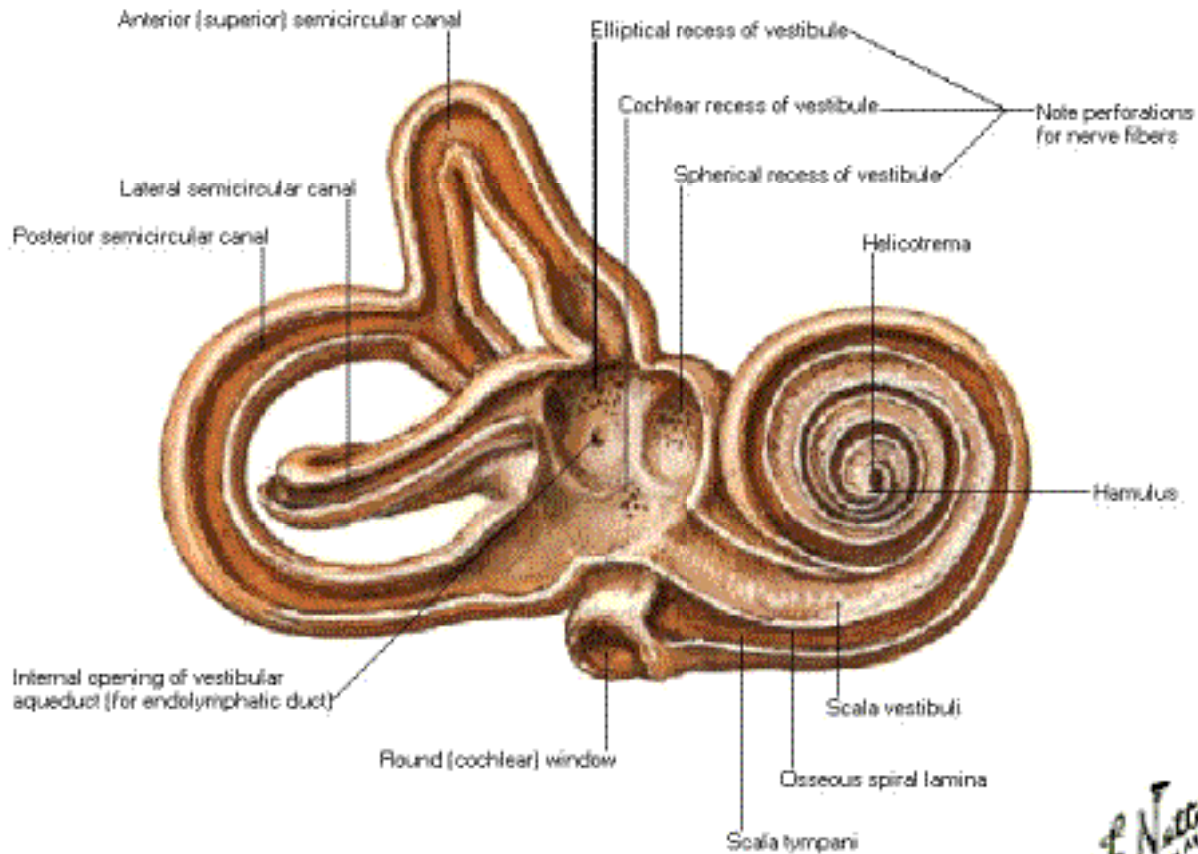
## Anterolateral View



Surrounding cancellous bone removed

# Right Osseous Labyrinth - Dissected

## Membranous Labyrinth Removed

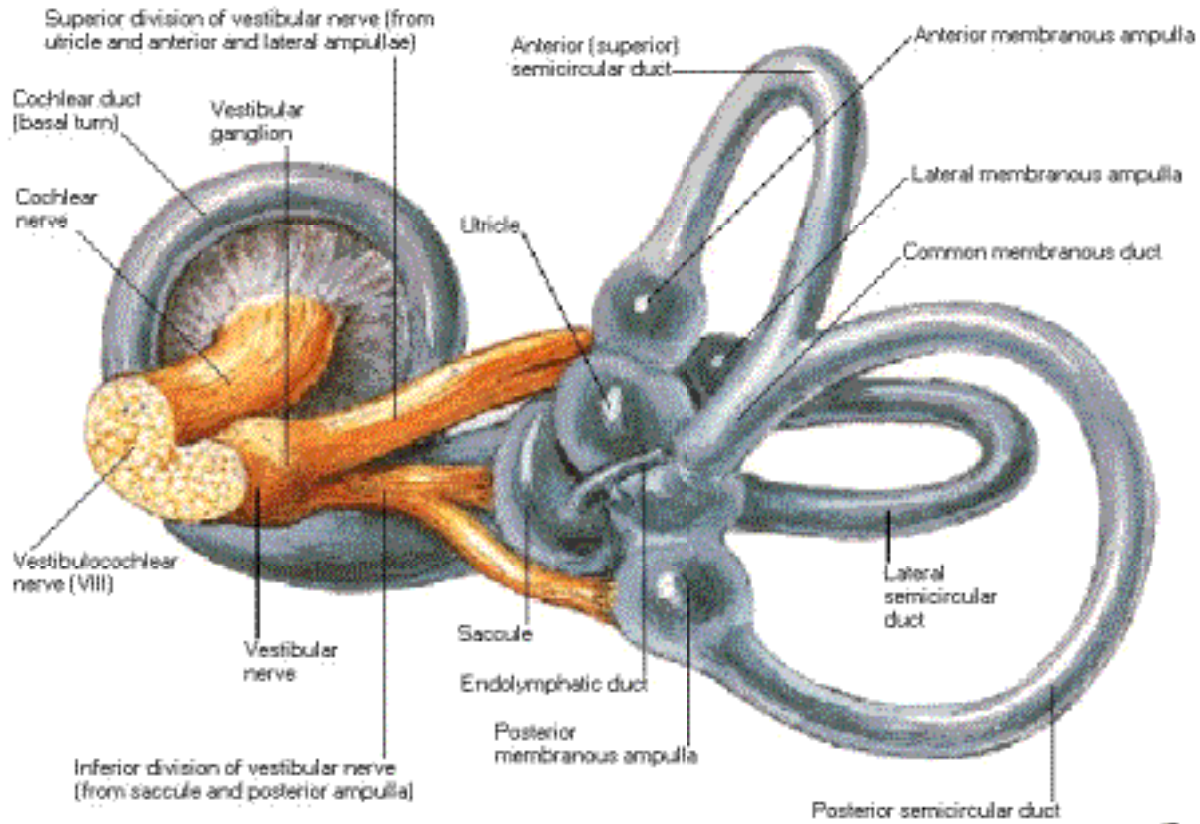


*F. Netter M.D.*  
© 1972



# Right Membranous Labyrinth with Nerves

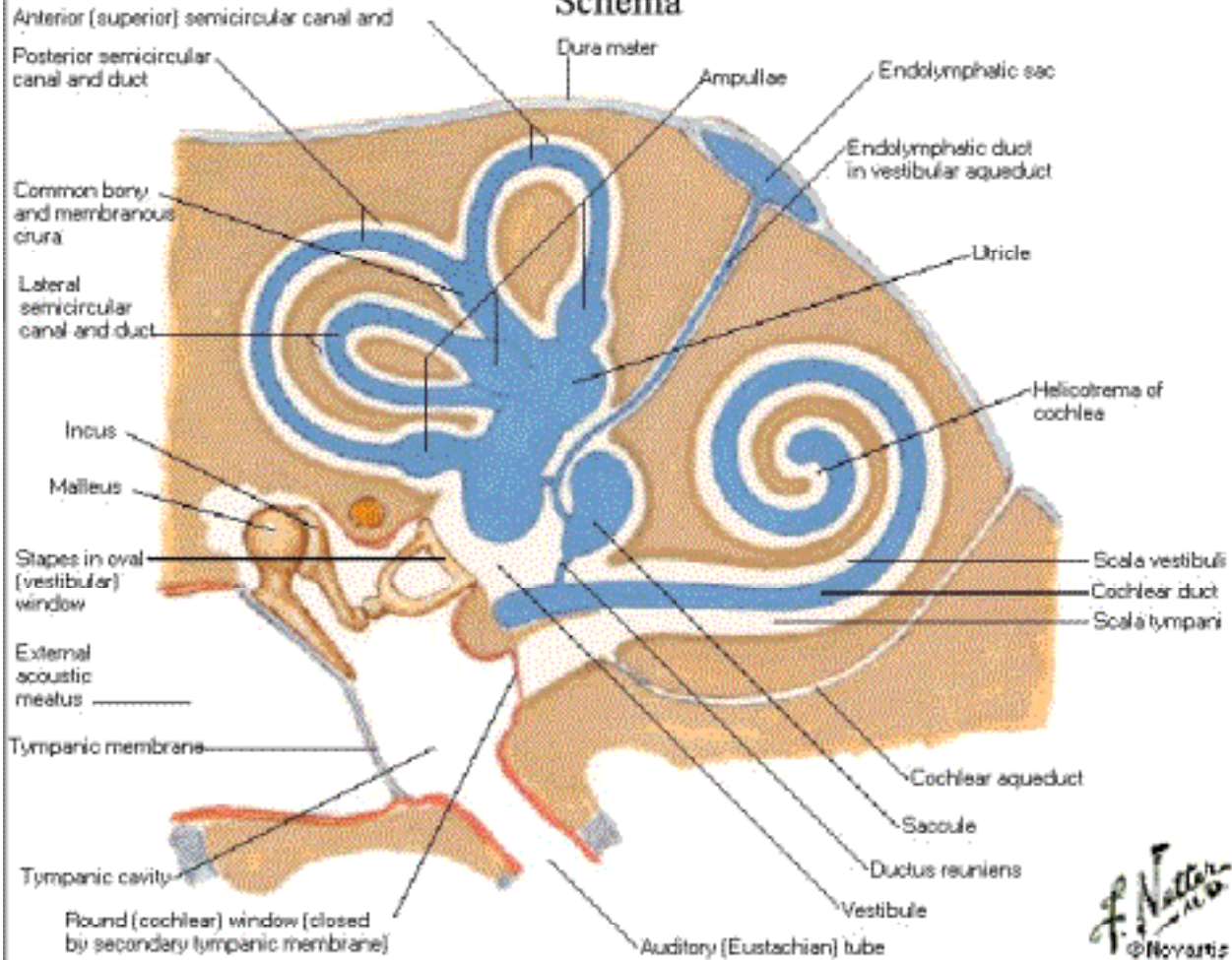
## Posteromedial View



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# Osseous and Membranous Labyrinths

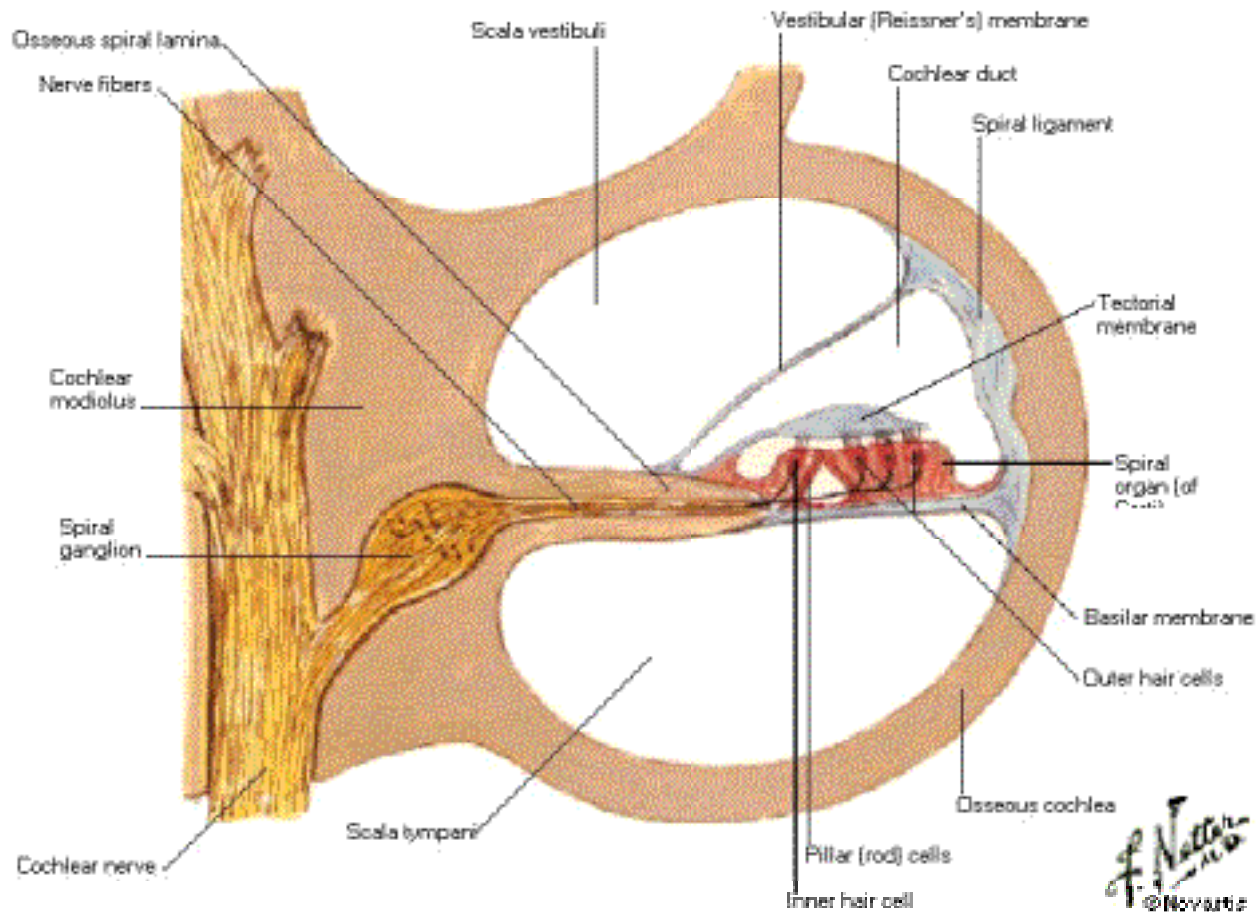
## Schema



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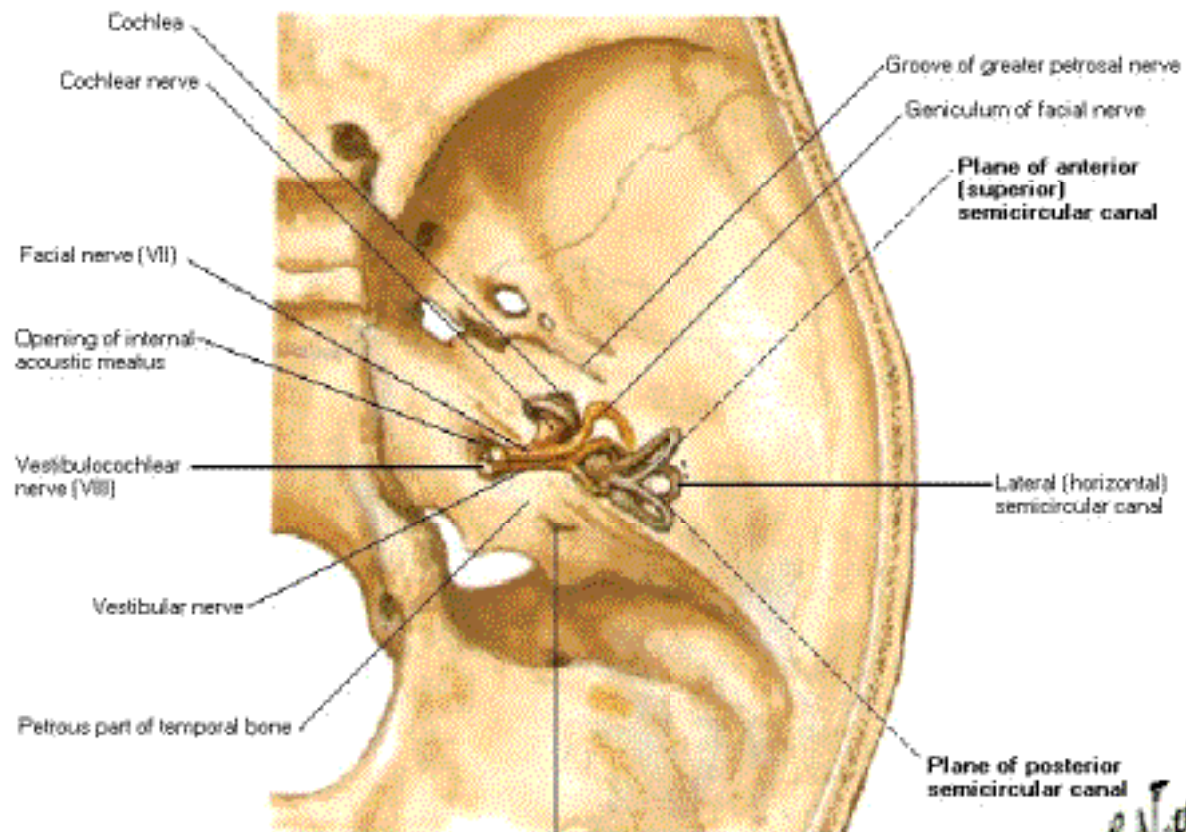
# Osseous and Membranous Labyrinths

## Section Through Turn of Cochlea



# Orientation of Labyrinth in Skull

## Superior Projection



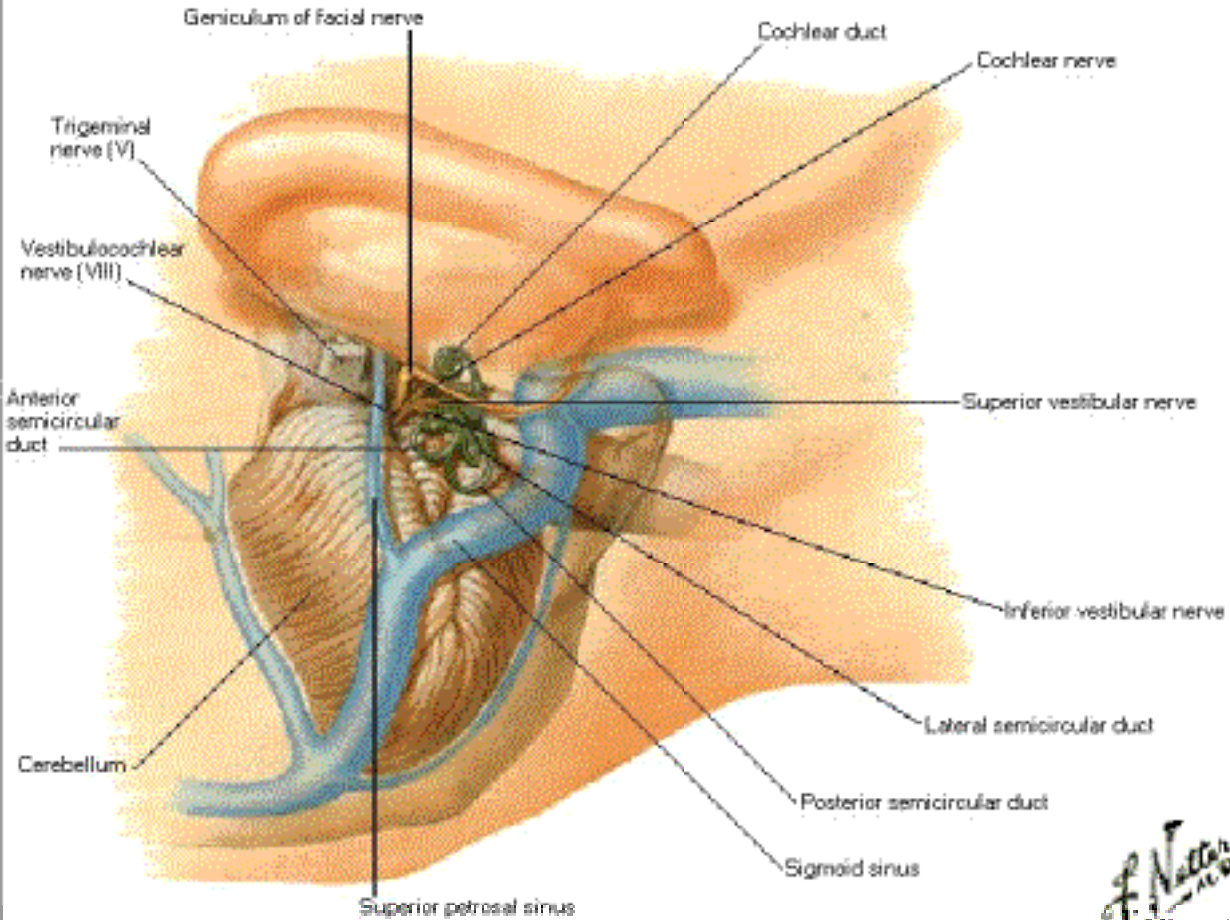
External opening of vestibular aqueduct for endolymphatic duct

*F. Netter*  
M.D.  
© 1994



# Orientation of Labyrinth in Skull

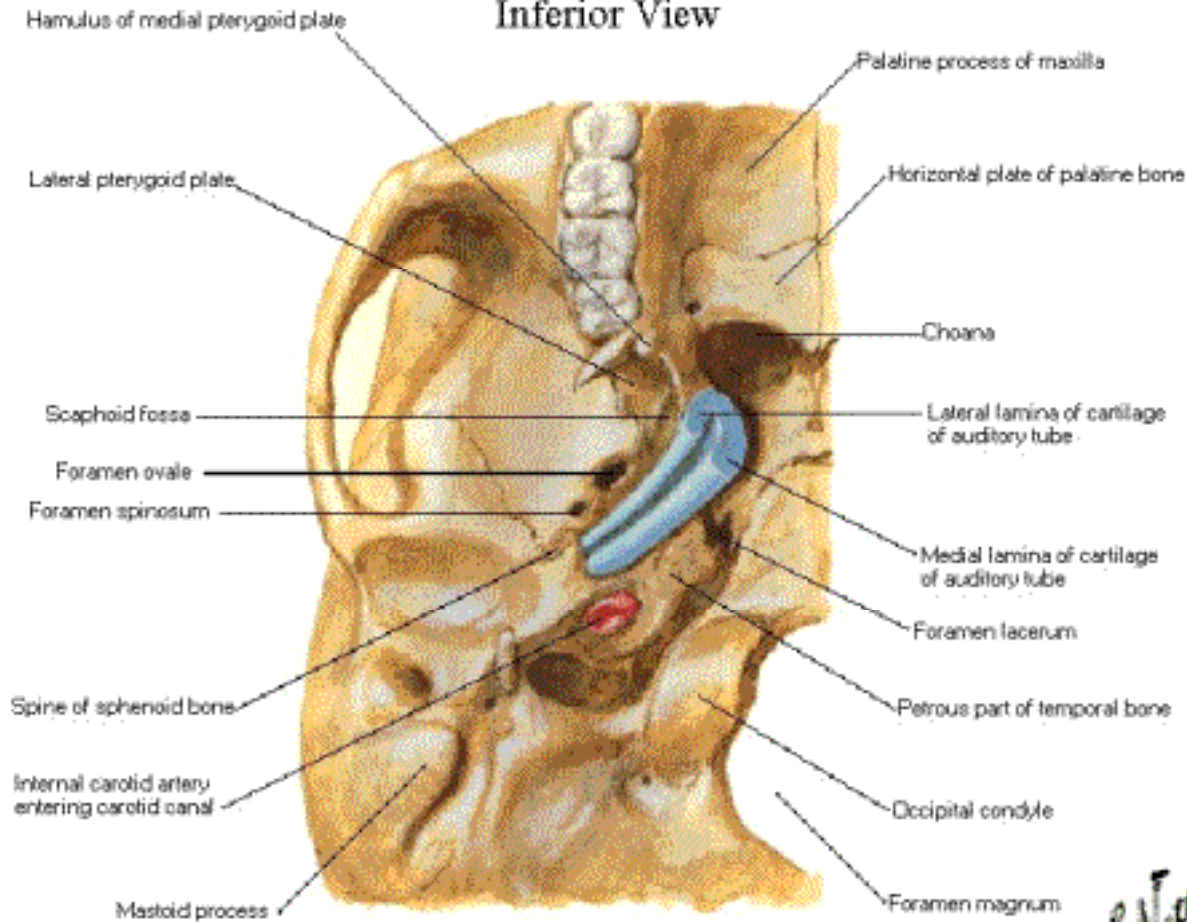
## Lateral Projection



*F. Netter*  
© 1956

# Cartilage of Auditory Tube at Base of Skull

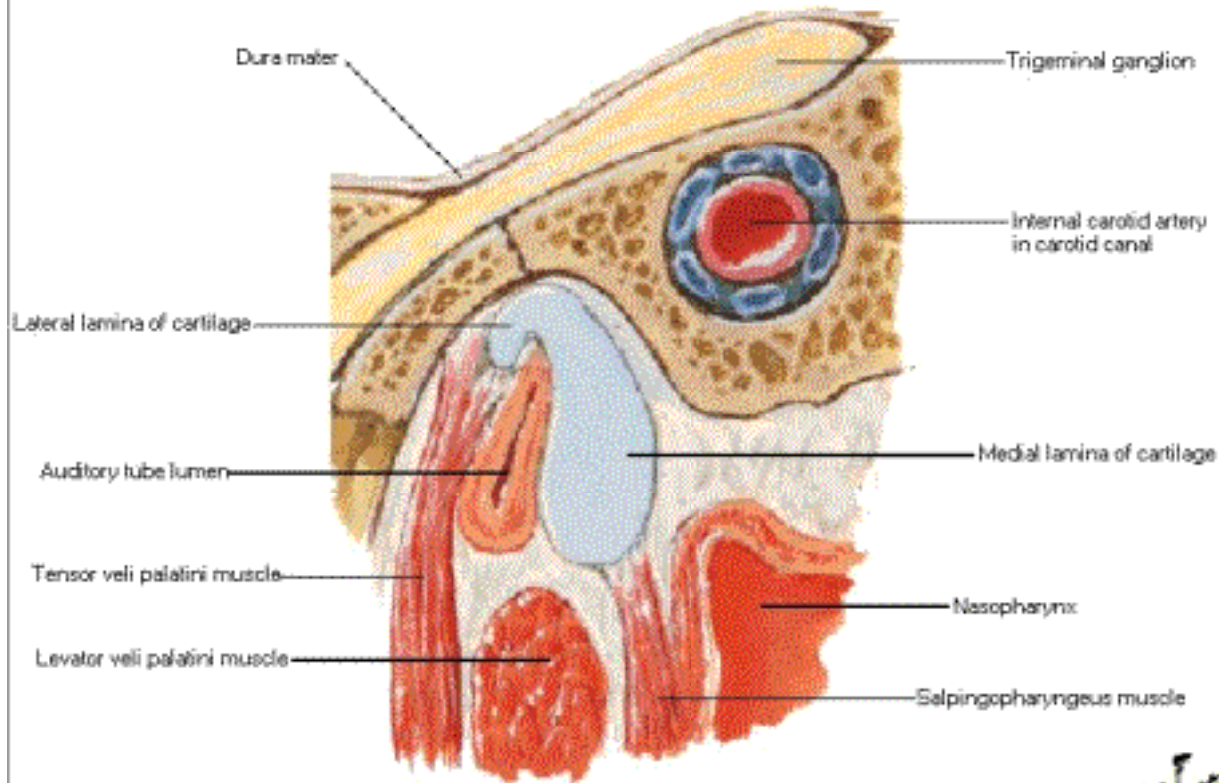
## Inferior View



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## Auditory Tube - Section through Cartilage

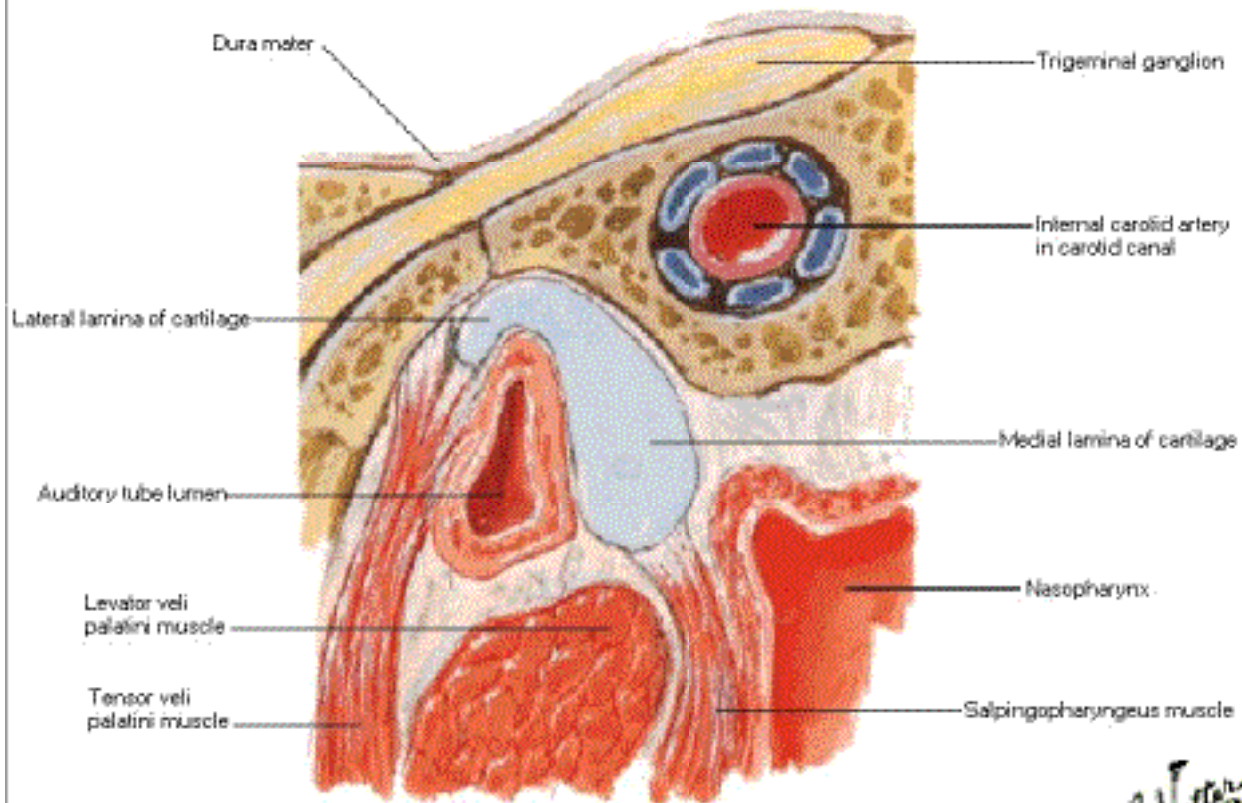
### Tube Closed



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

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M.D.  
© Novartis

## Auditory Tube - Section through Cartilage Tube Open



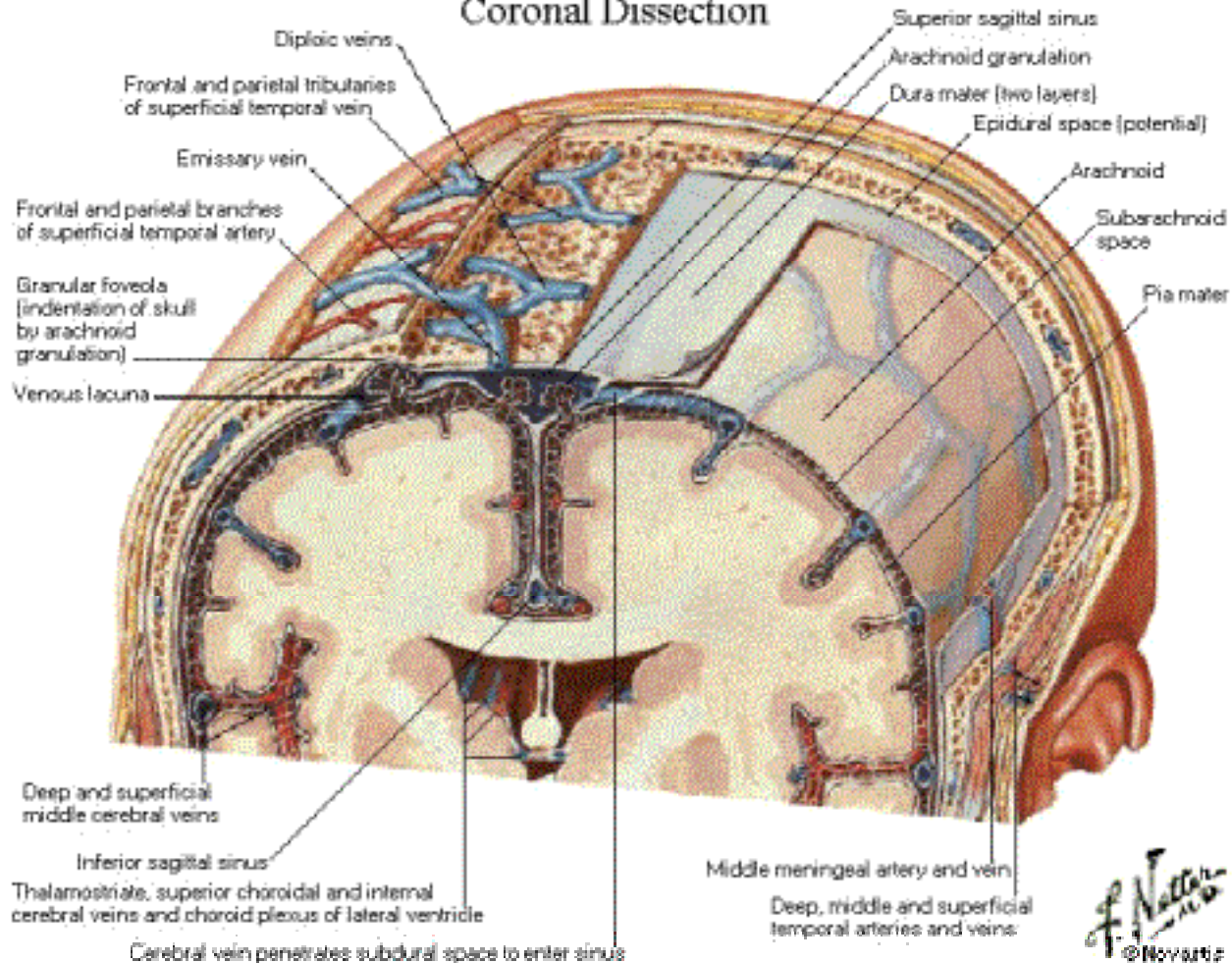
Lumen opened chiefly when attachment of tensor veli palatini muscle pulls wall of tube laterally during swallowing

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M.D.  
© 1956



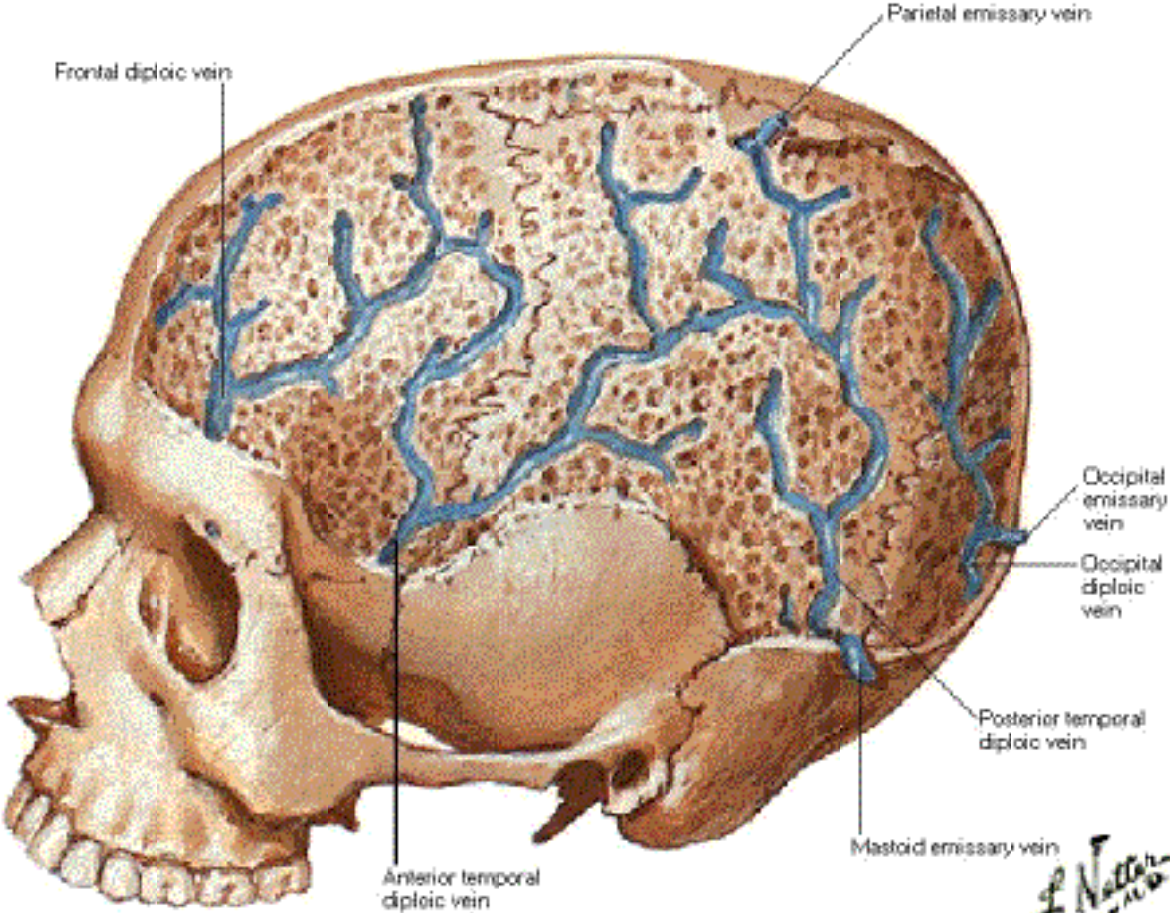
# Meninges and Diploic Veins

## Coronal Dissection



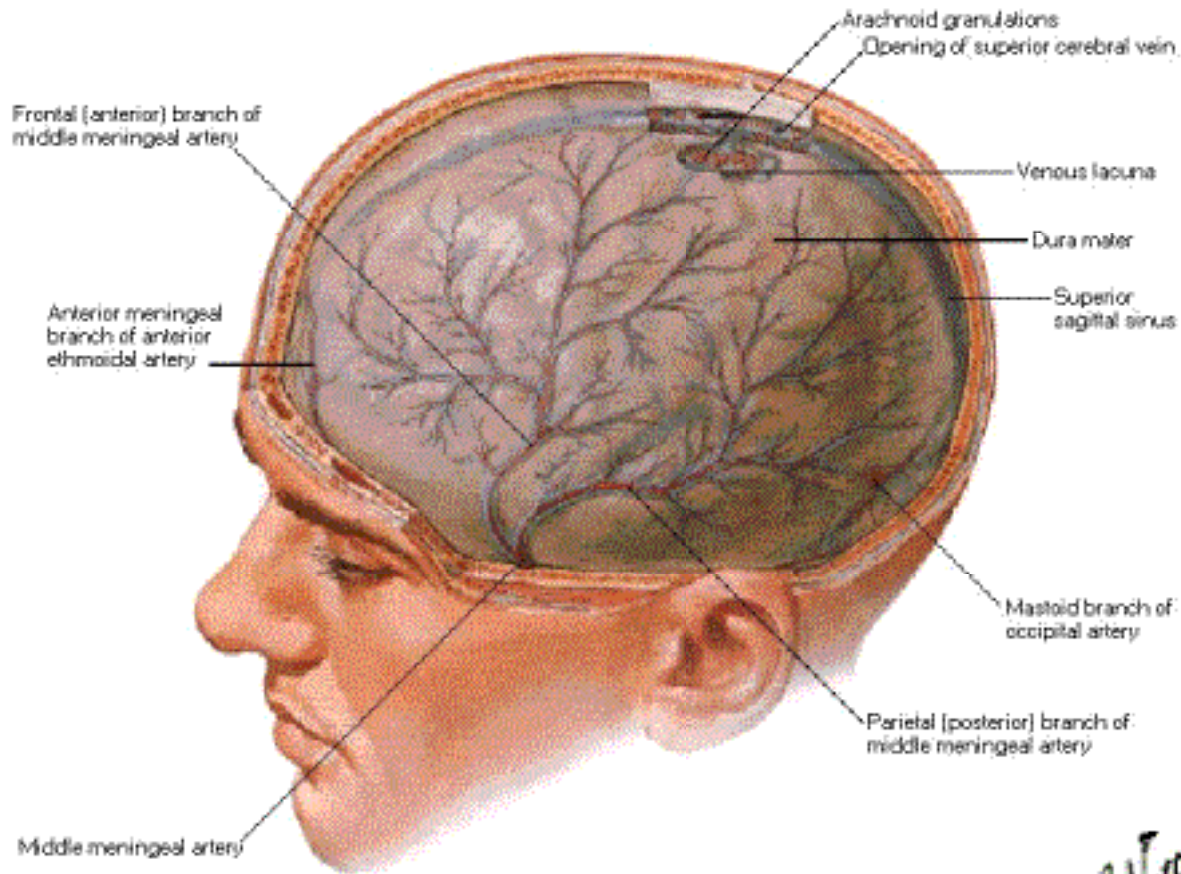
*F. Netter M.D.*  
© 1974

# Diploic and Emissary Veins of Skull



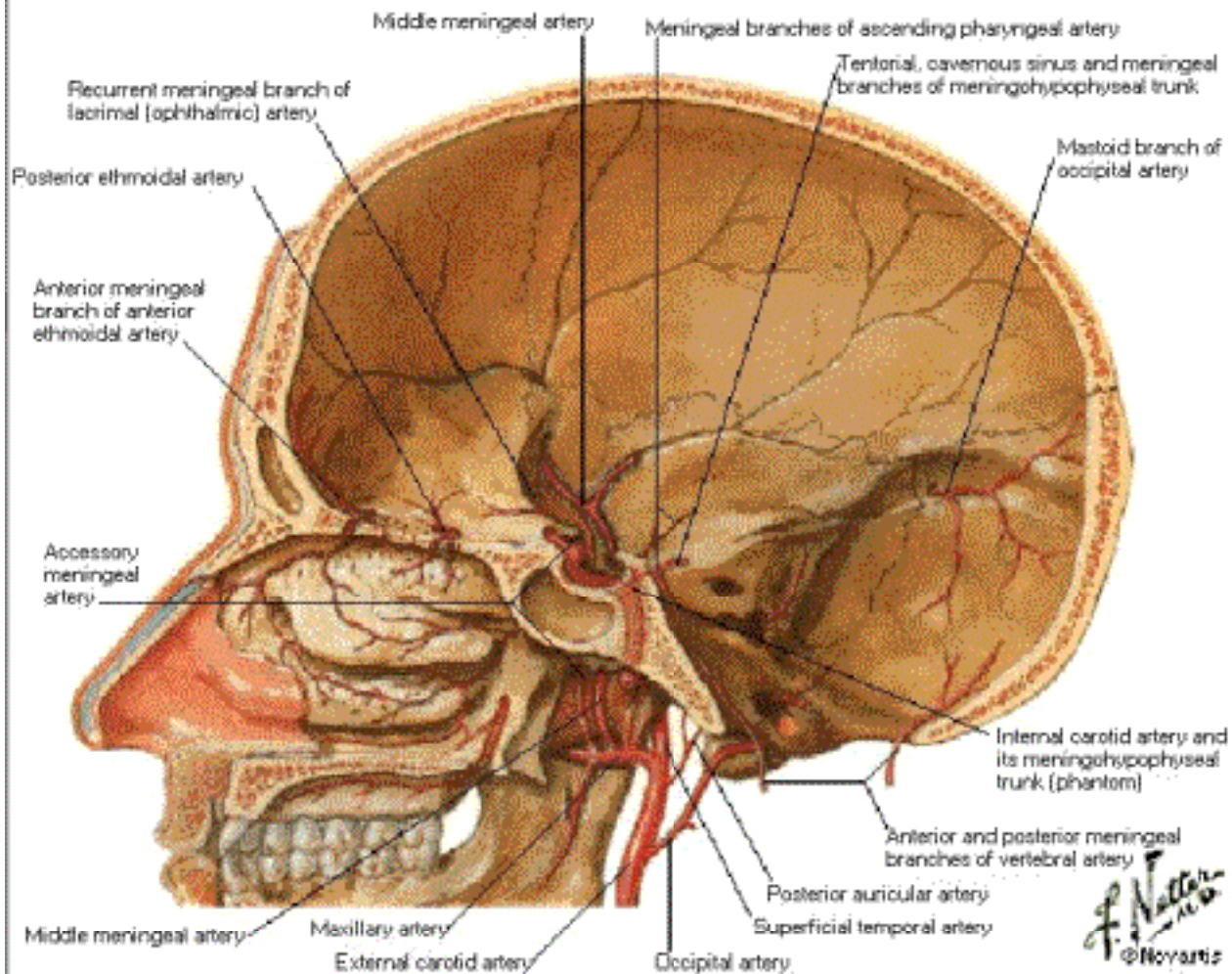
*F. Netter M.D.*  
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# Meningeal Arteries





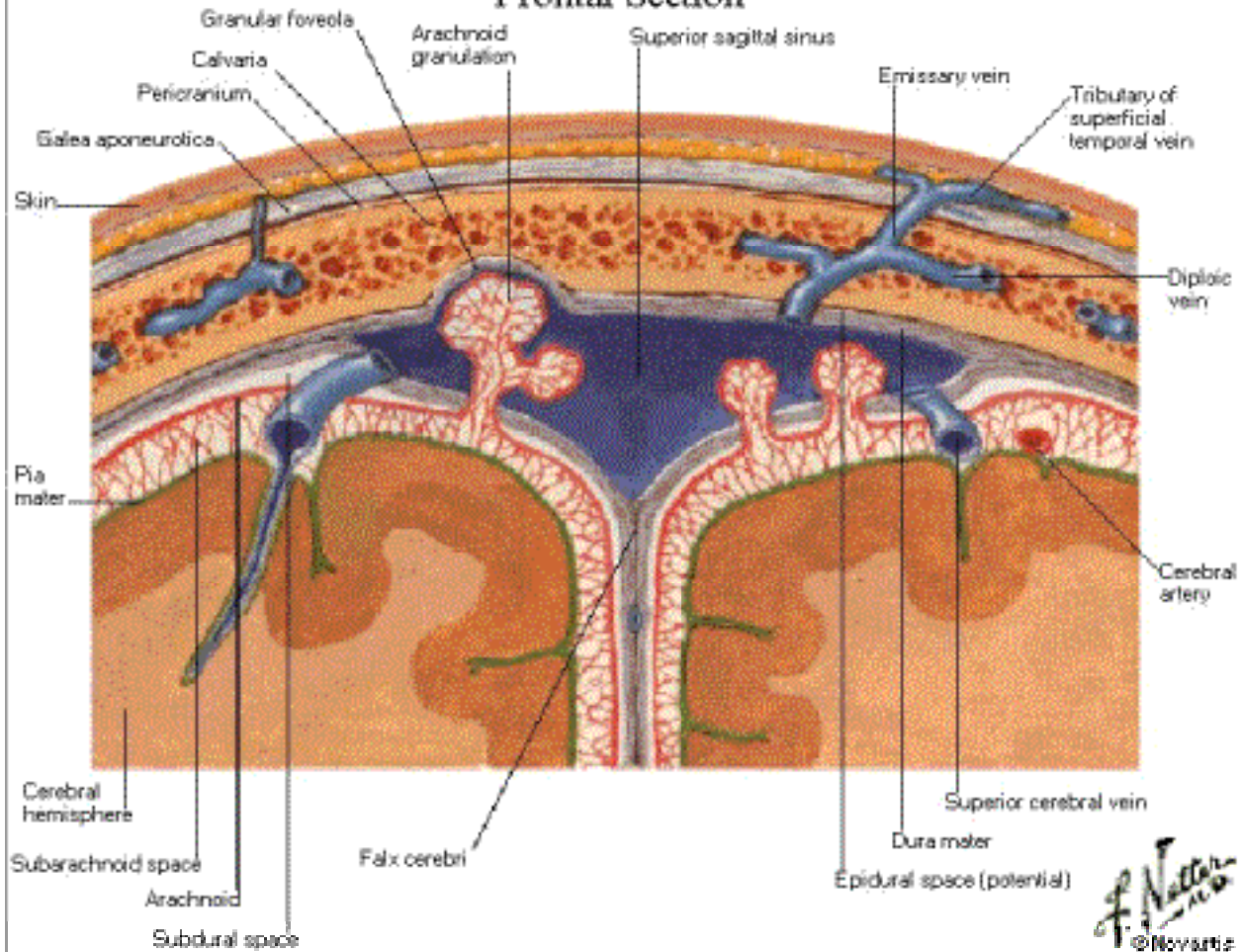
## Meningeal Arteries [Continued]





# Meninges and Superficial Cerebral Veins

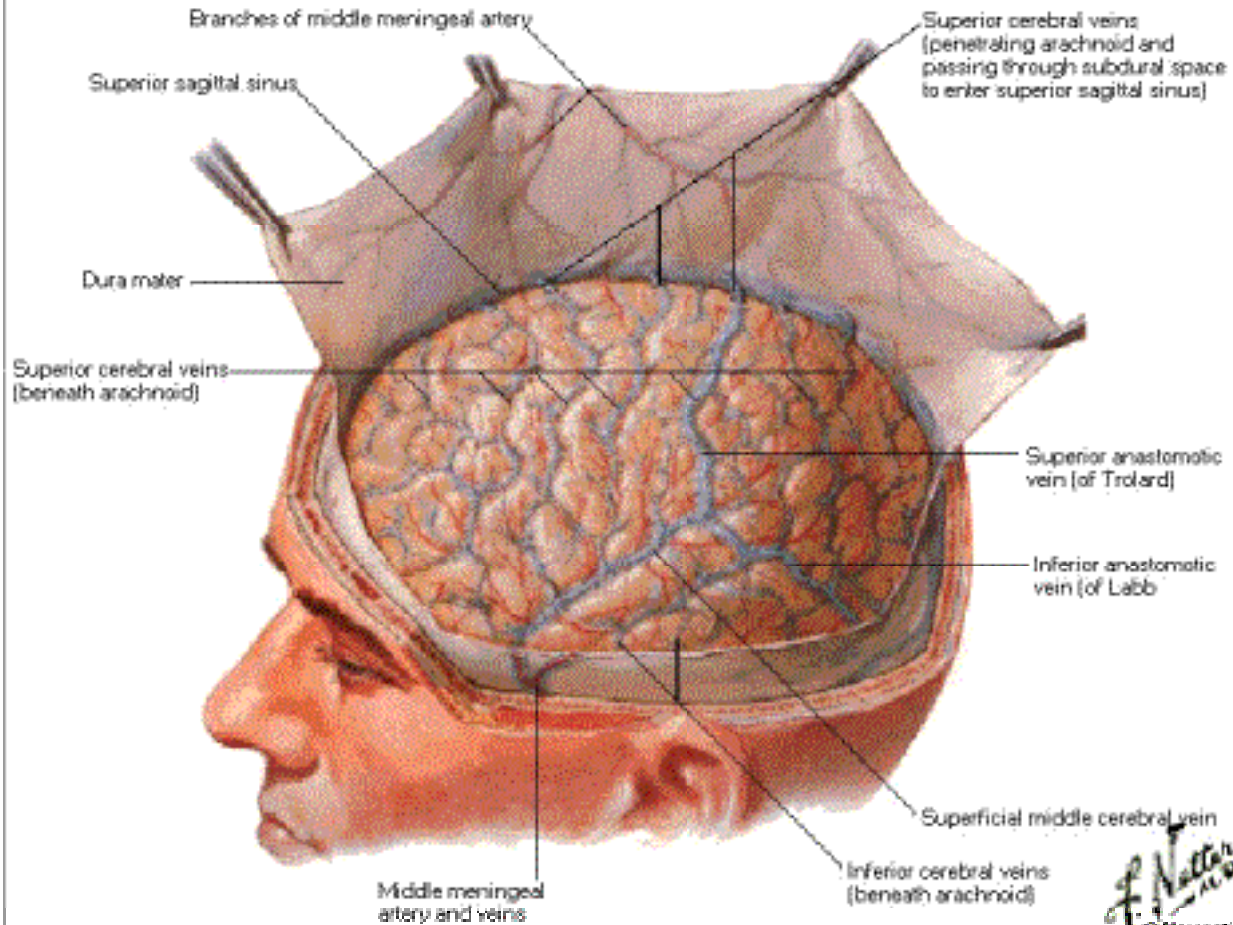
## Frontal Section



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© 1996

# Meninges and Superficial Cerebral Veins

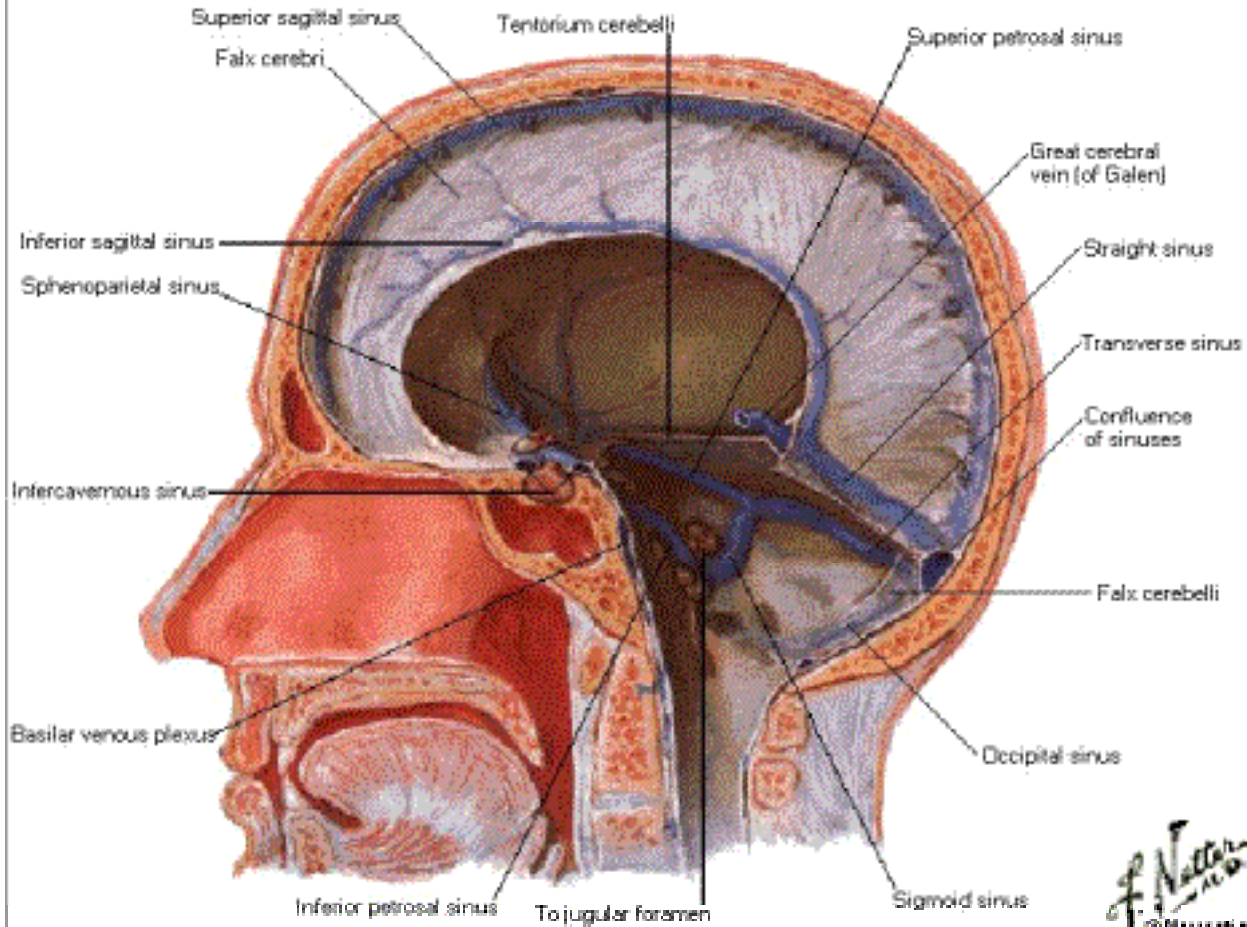
## Dura Mater Lifted



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© 1956

# Venous Sinuses of Dura Mater

## Sagittal Section

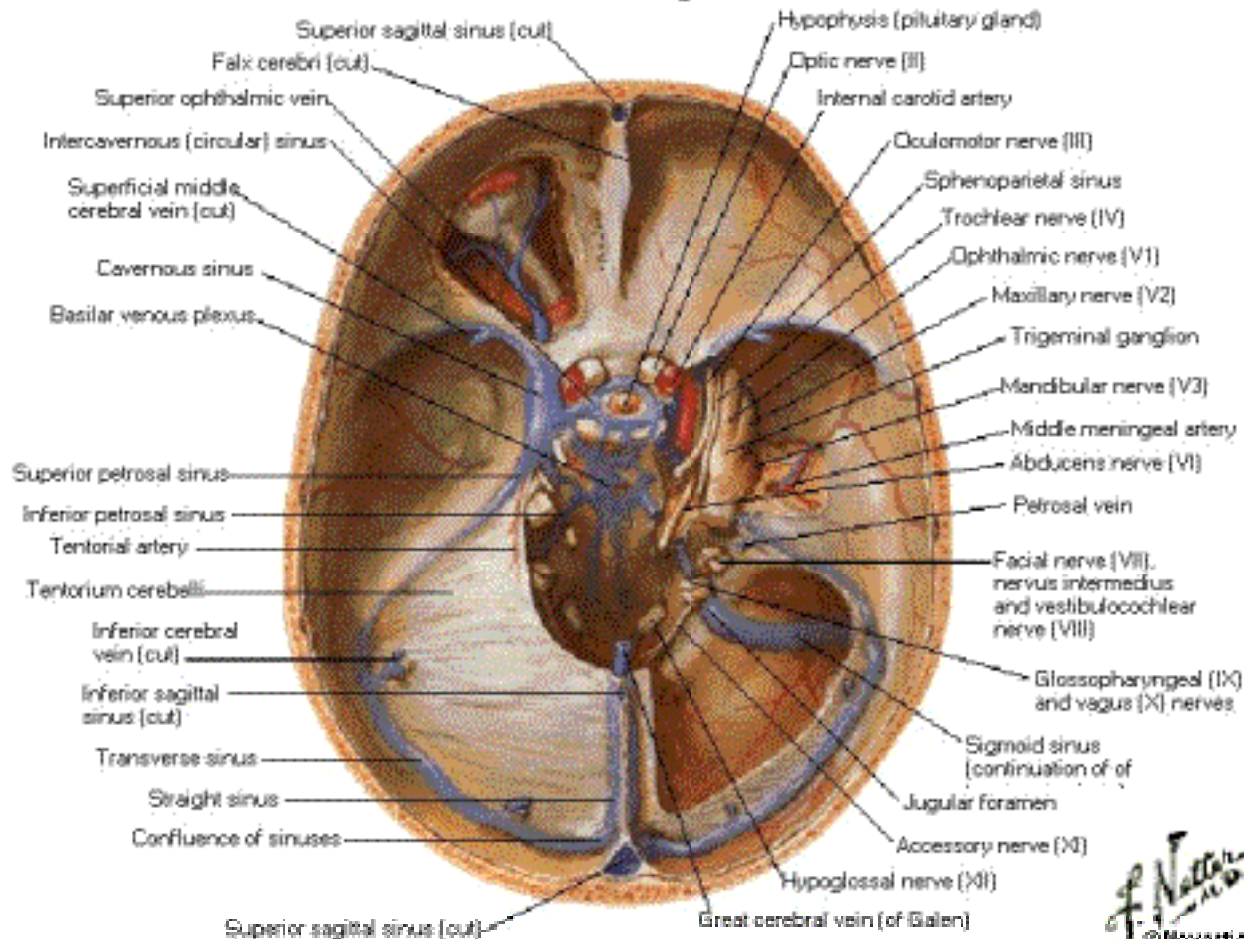


*F. Netter*  
© 1994



# Venous Sinuses of Dura Mater

## Cranial Floor - Superior View

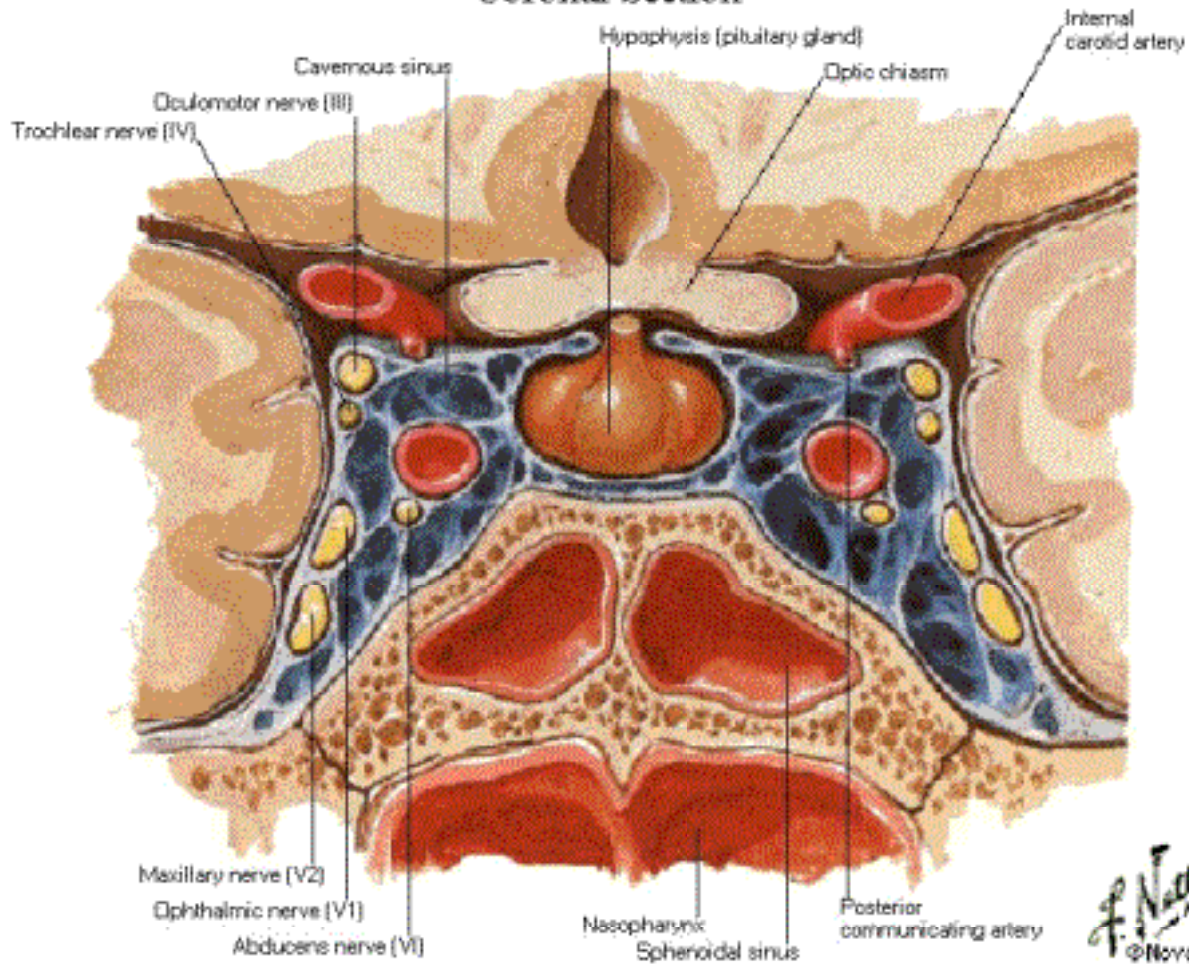


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© 1989



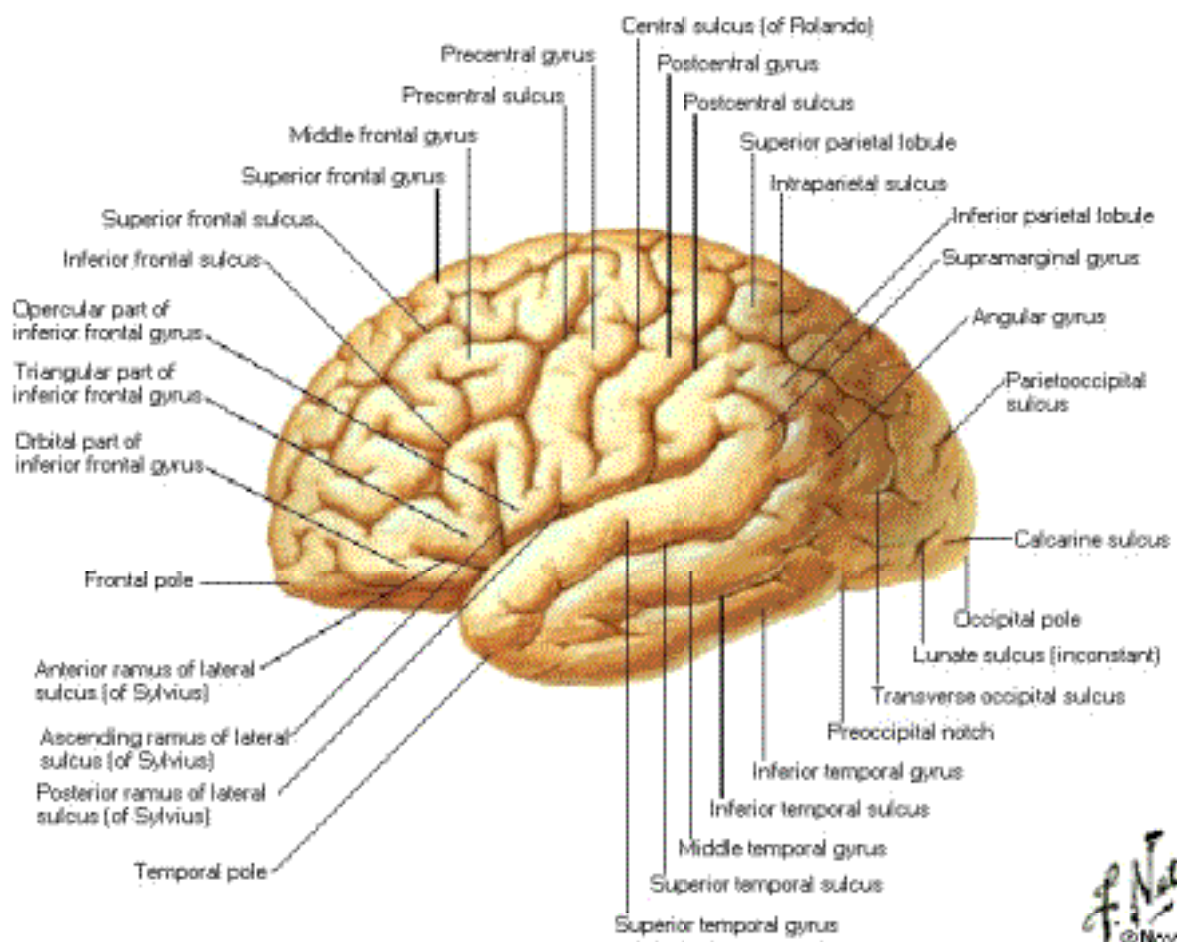
# Cavernous Sinus

## Coronal Section



# Cerebrum

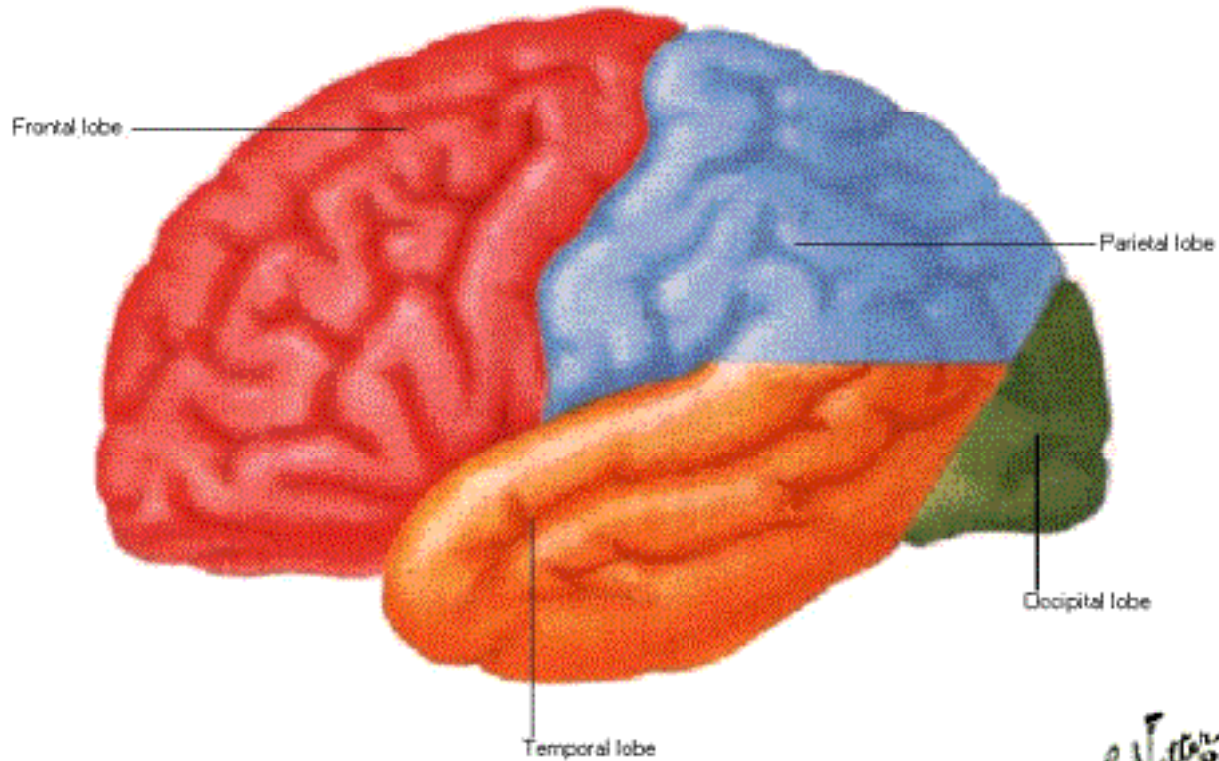
## Lateral View



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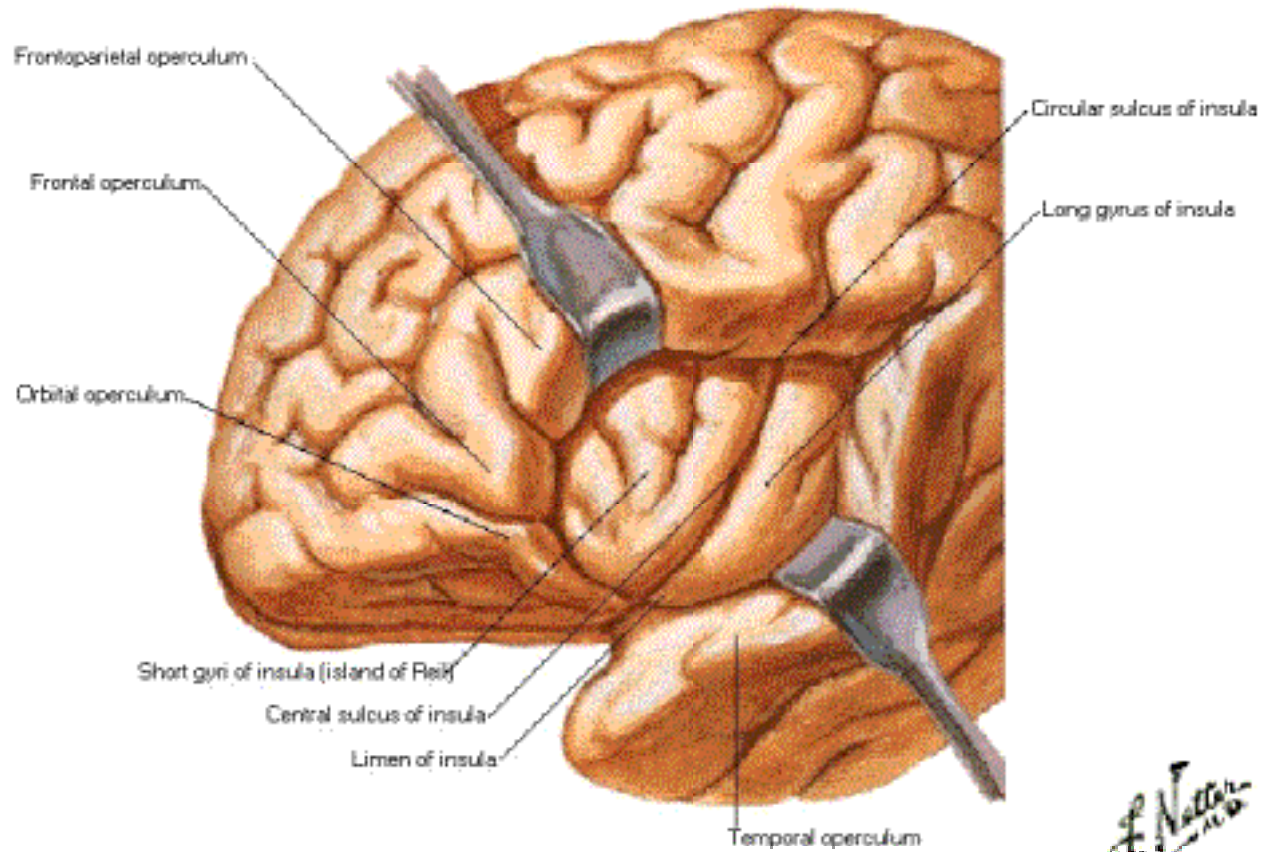
# Cerebrum - Lobes

## Lateral View



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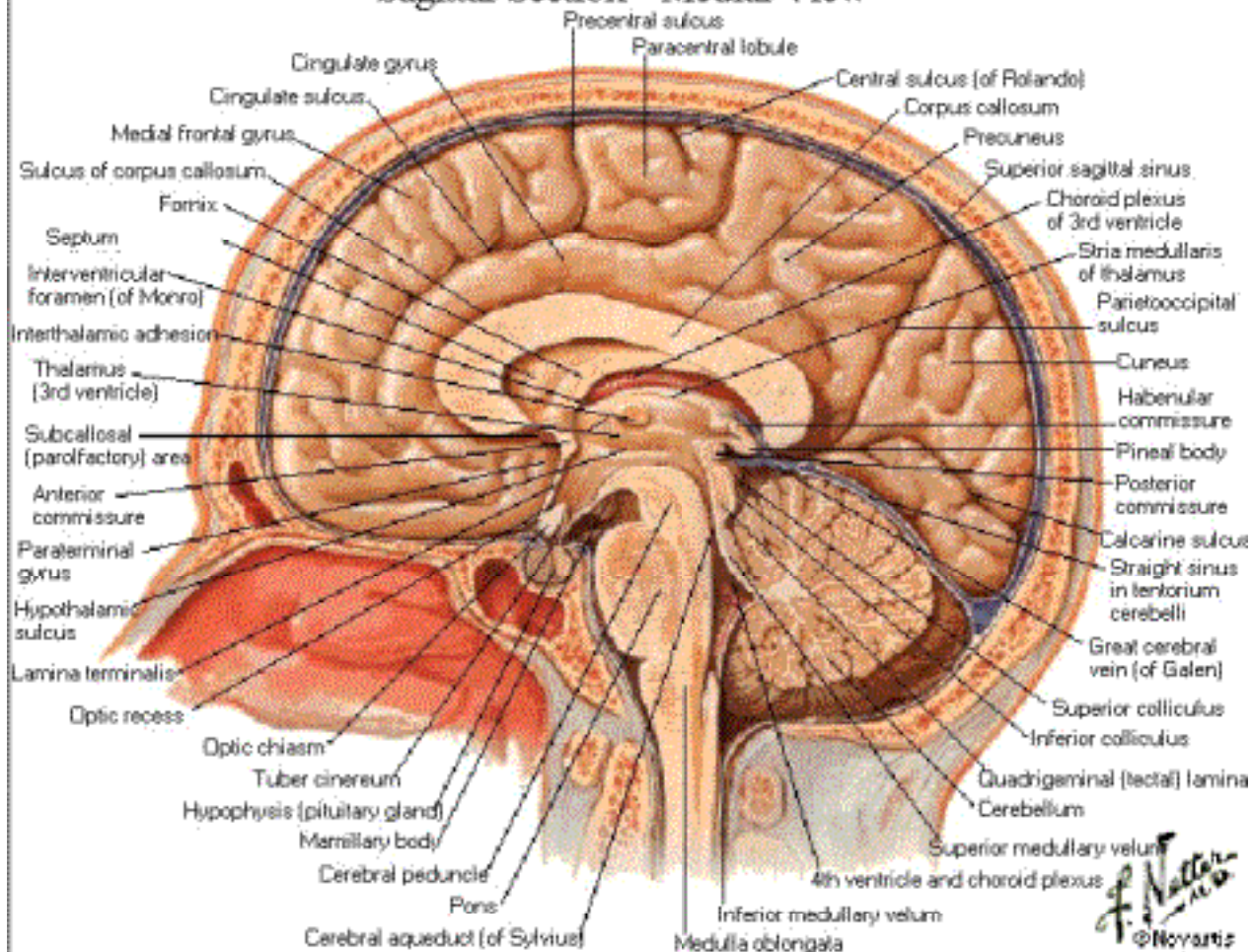
# Cerebrum - Insula [Island of Reil] Lateral View





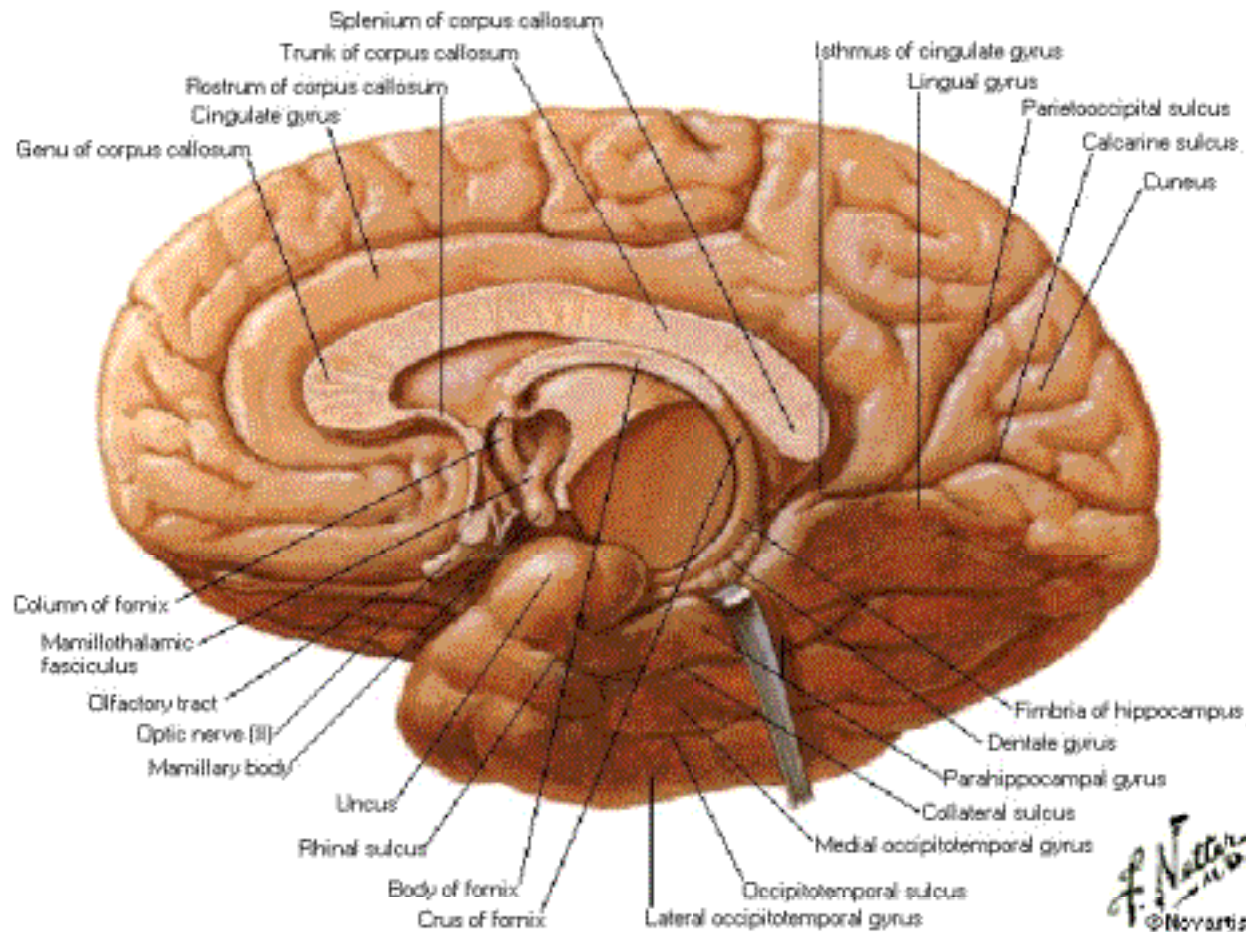
# Cerebrum - Brain in Situ

## Sagittal Section - Medial View



# Cerebrum - Hemisphere with Brainstem Excised

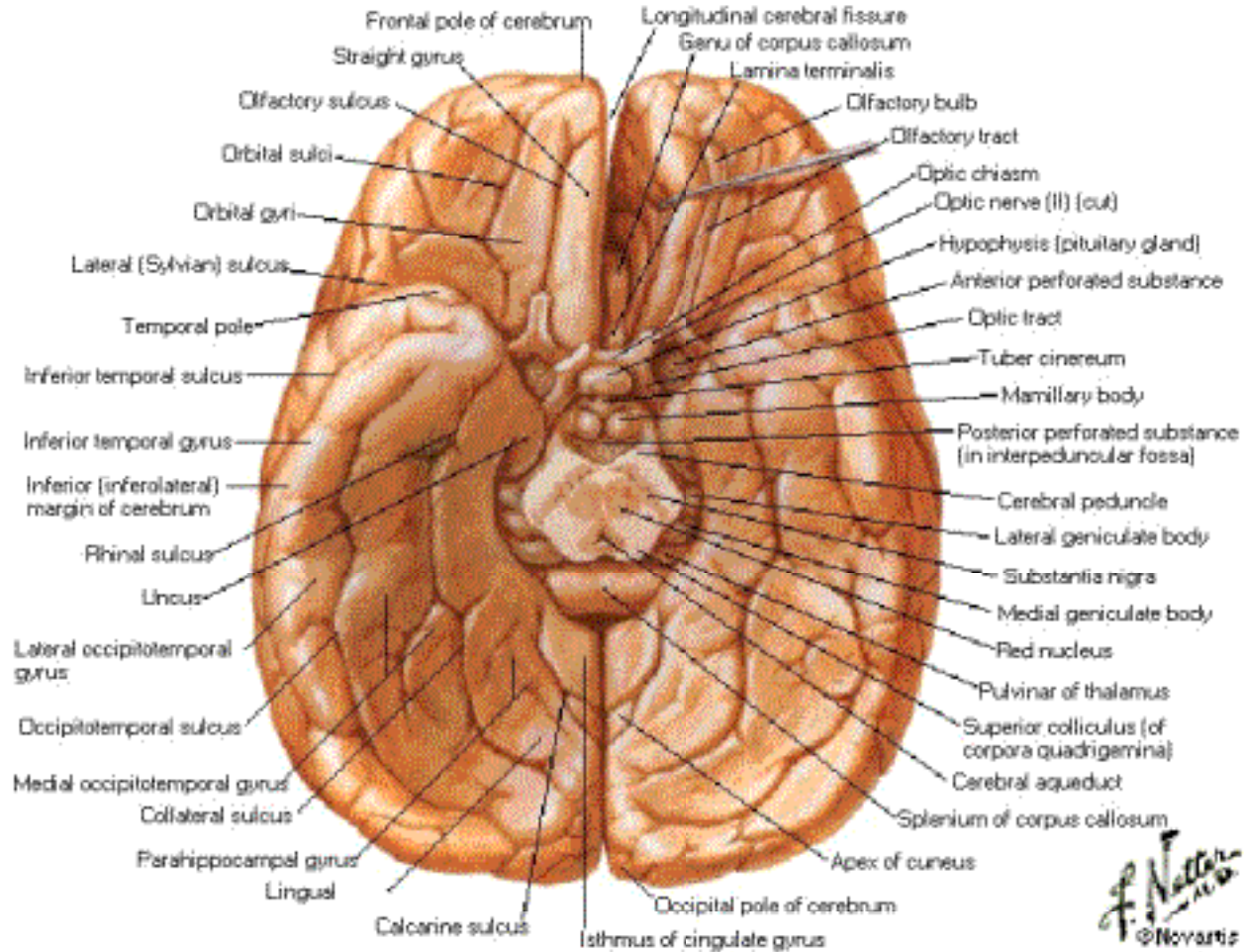
## Medial View



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# Cerebrum

## Inferior View

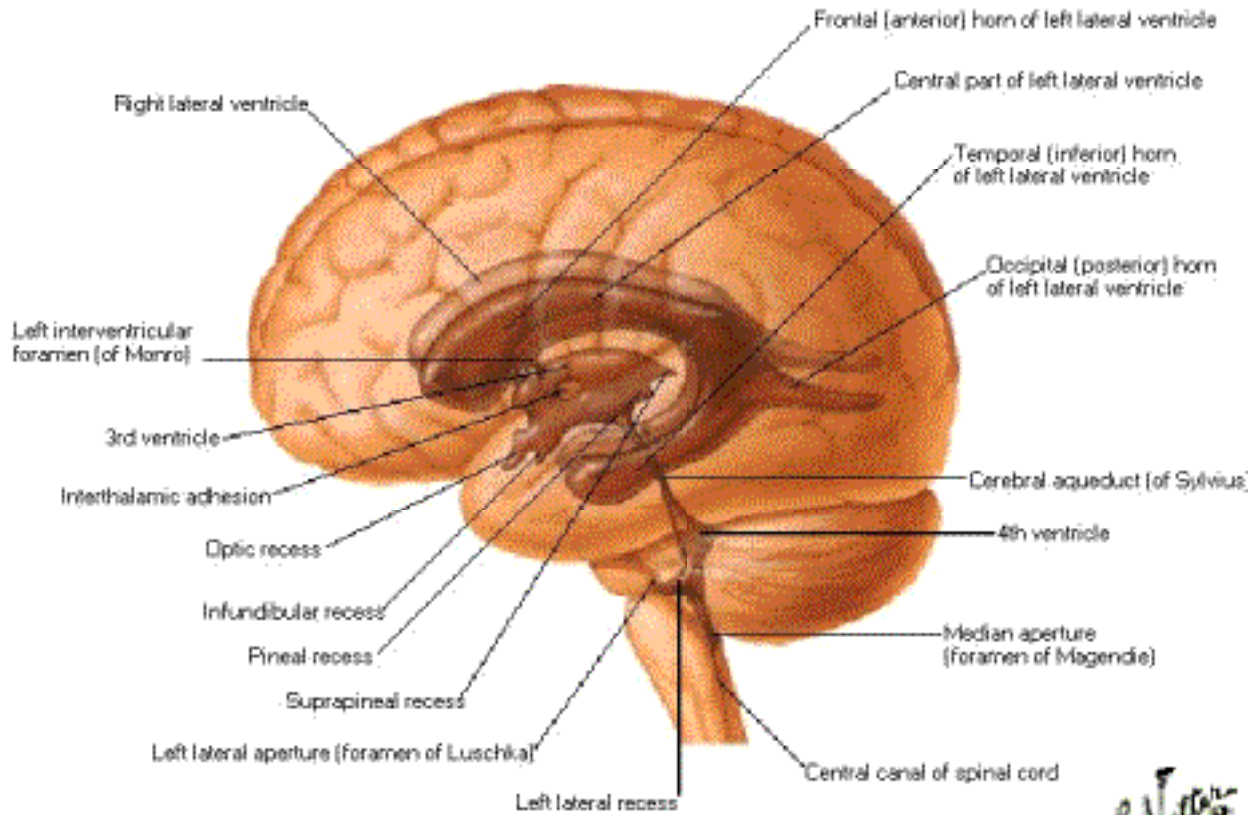


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# Ventricles of Brain

## Left Lateral Phantom View

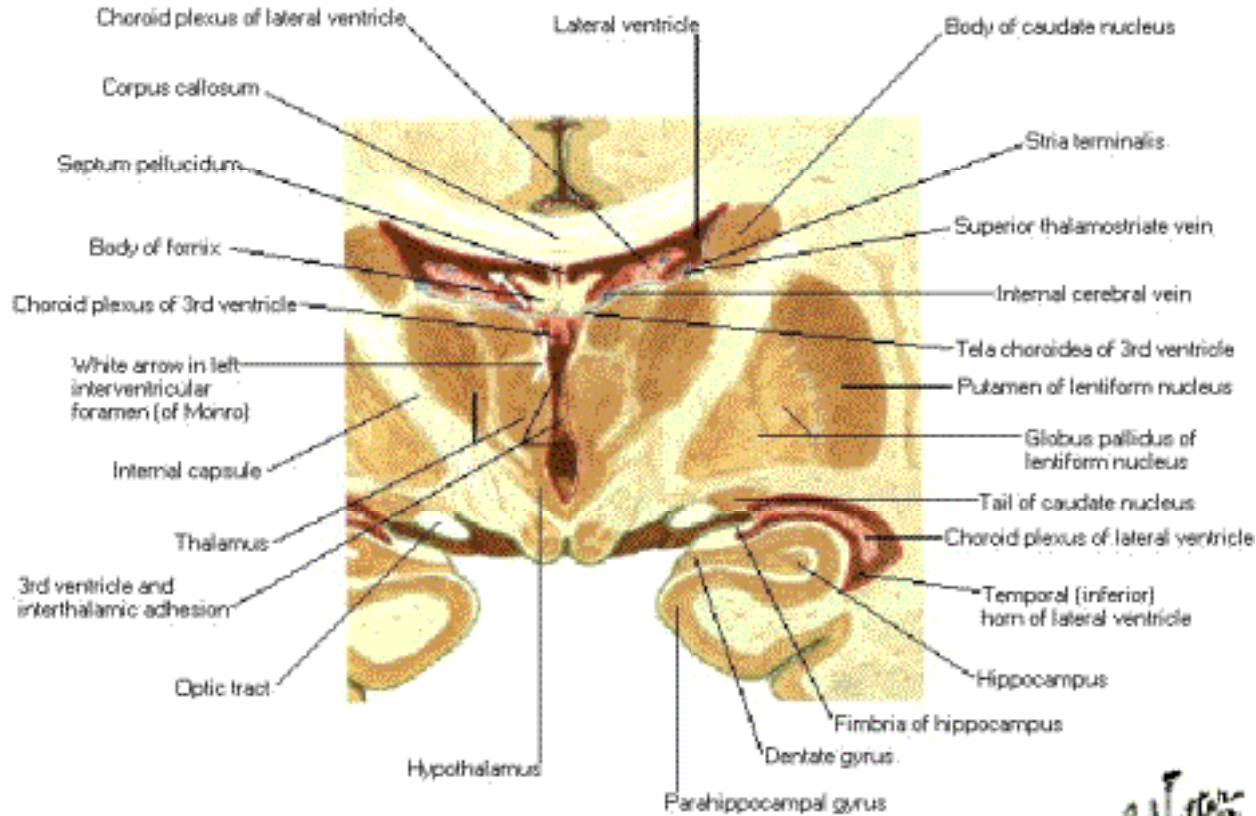


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© Novartis

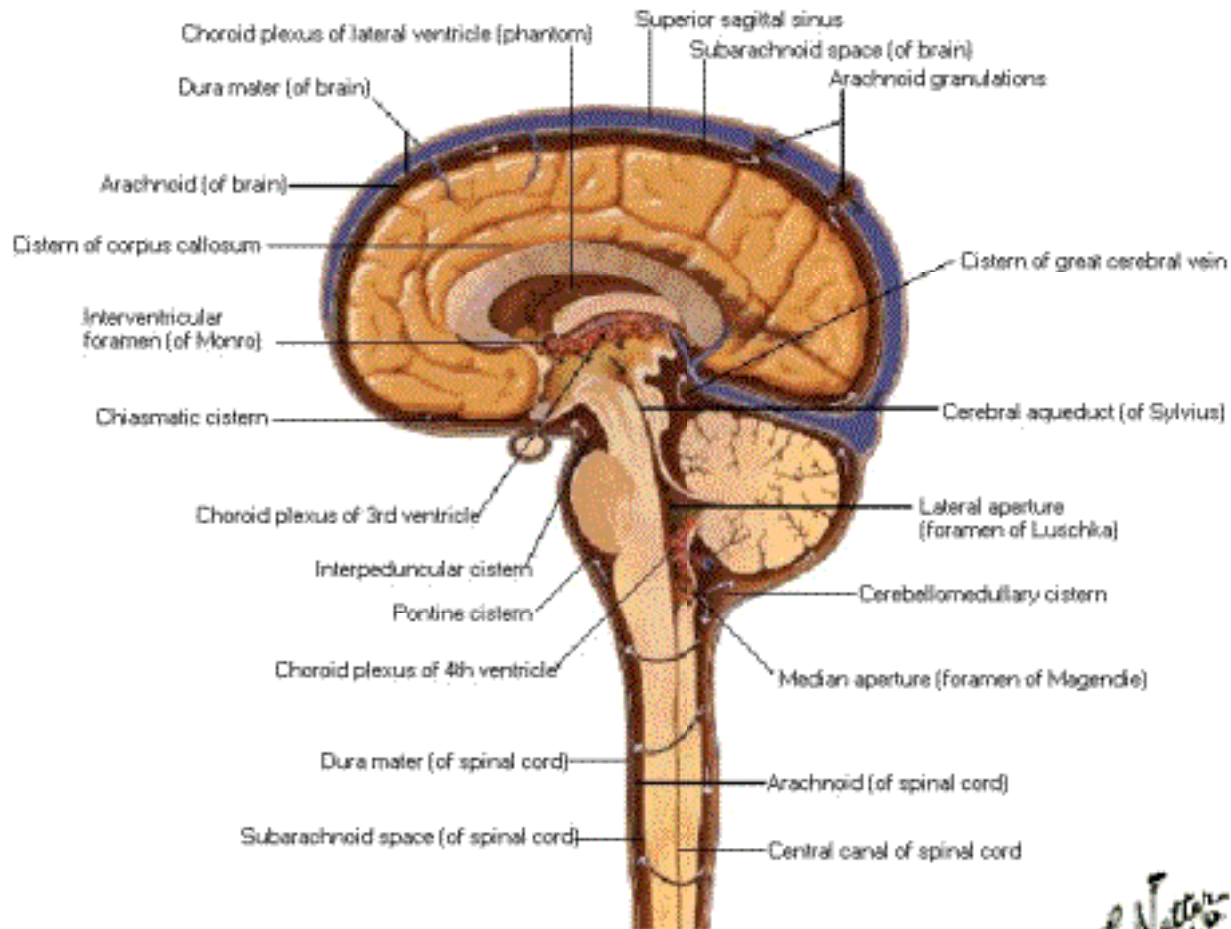


# Ventricles of Brain

## Coronal Section - Posterior View

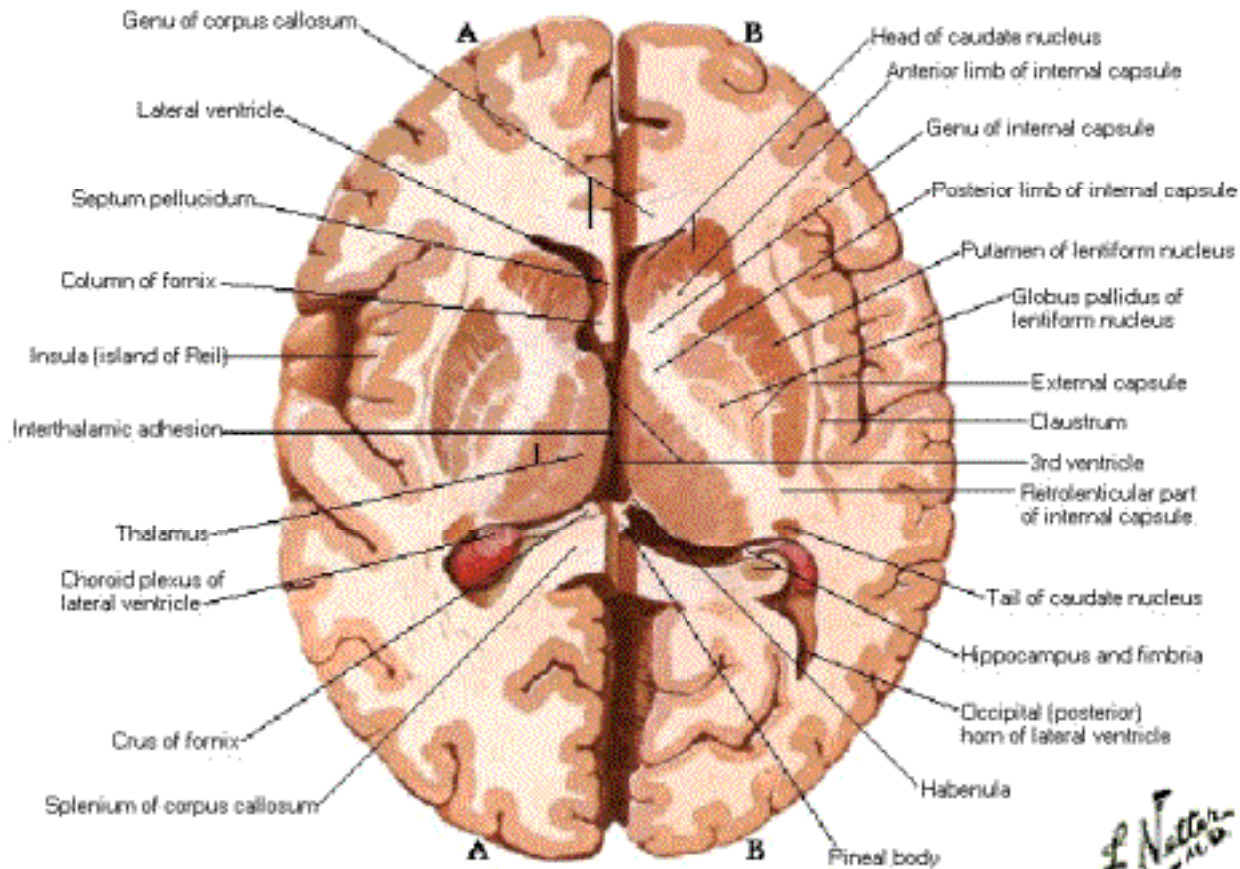


# Circulation of Cerebrospinal Fluid



# Basal Ganglia

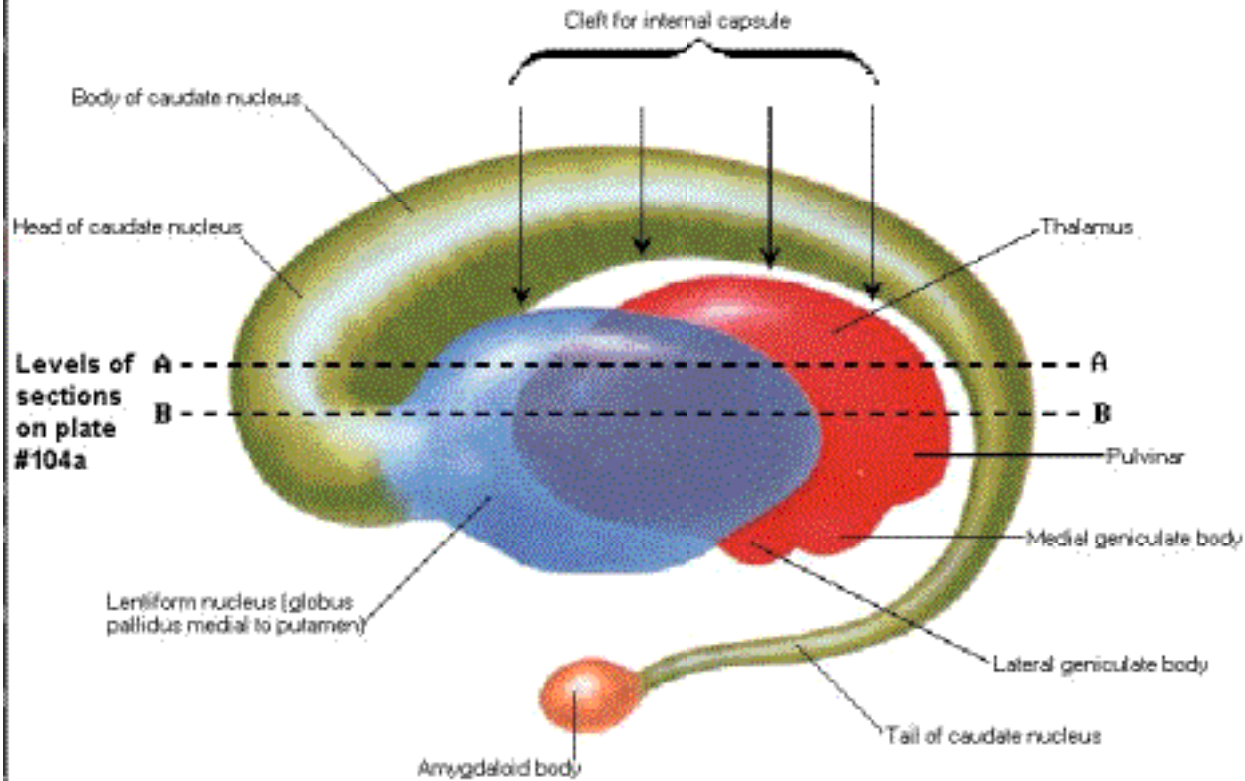
## Horizontal Sections through Cerebrum



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# Basal Ganglia - Schema

## Left Lateral View

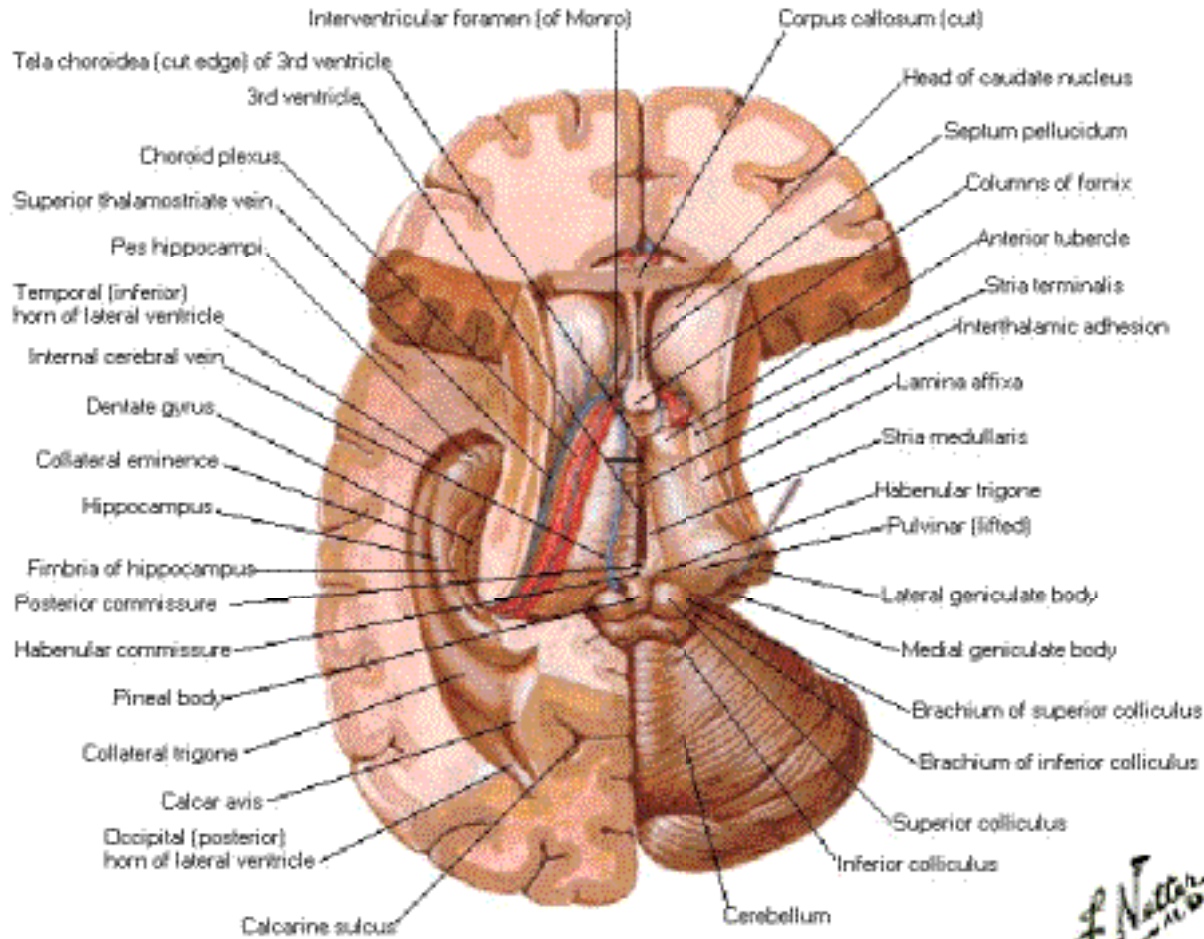


Interrelationship of thalamus, lentiform nucleus,  
caudate nucleus and amygdaloid body

*F. Netter*  
M.D.  
© 1975



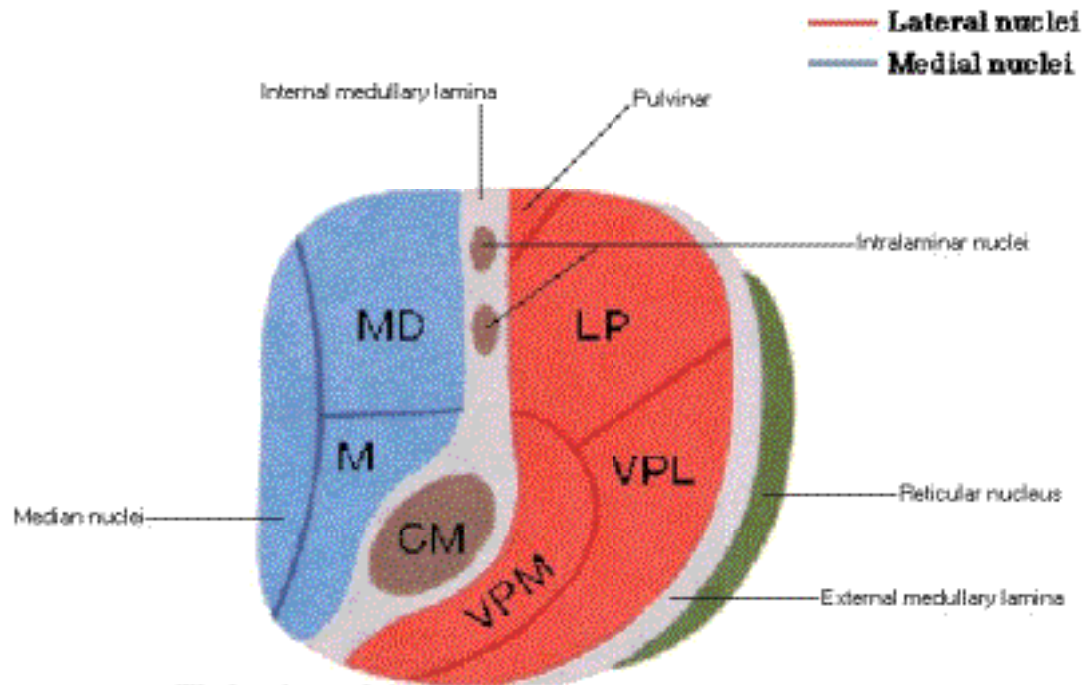
# Thalamus



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# Thalamus

## Schematic Section



### Thalamic nuclei

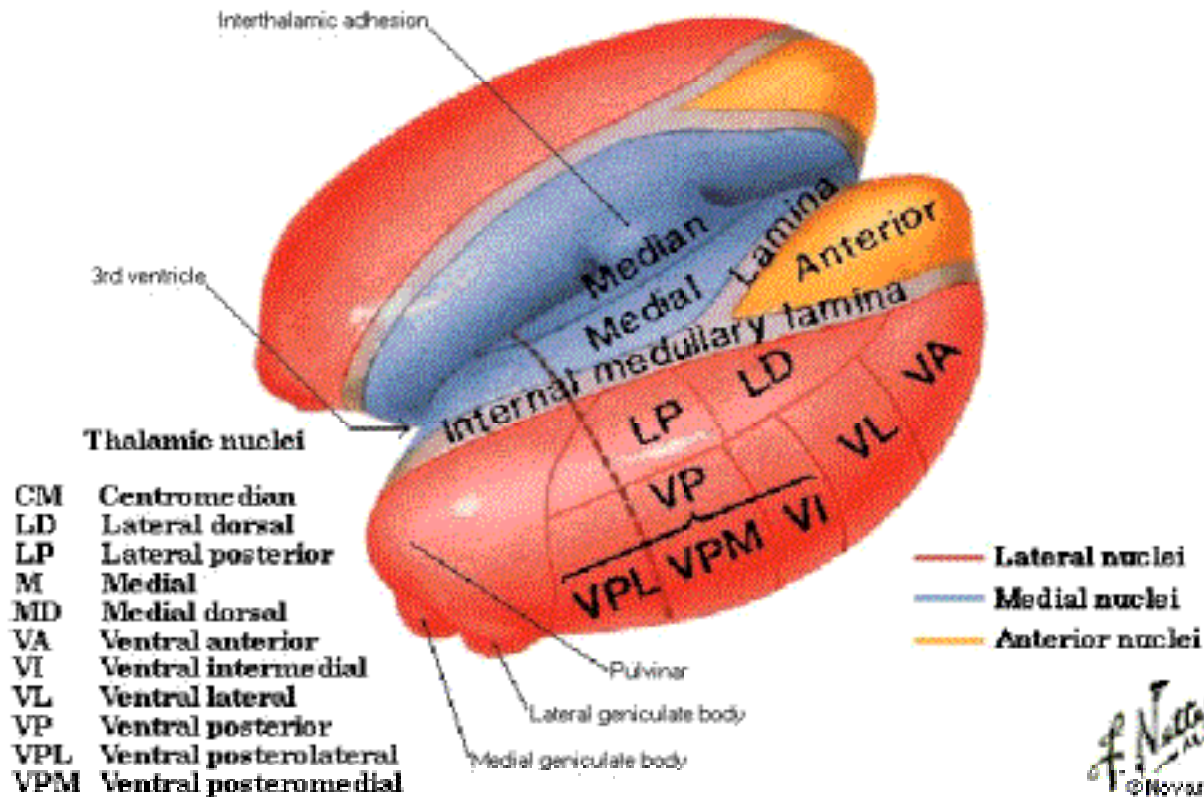
CM	Centromedian	VA	Ventral anterior
LD	Lateral dorsal	VI	Ventral intermedial
LP	Lateral posterior	VL	Ventral lateral
M	Medial	VP	Ventral posterior
MD	Medial dorsal	VPL	Ventral posterolateral
		VPM	Ventral posteromedial

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

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# Thalamus

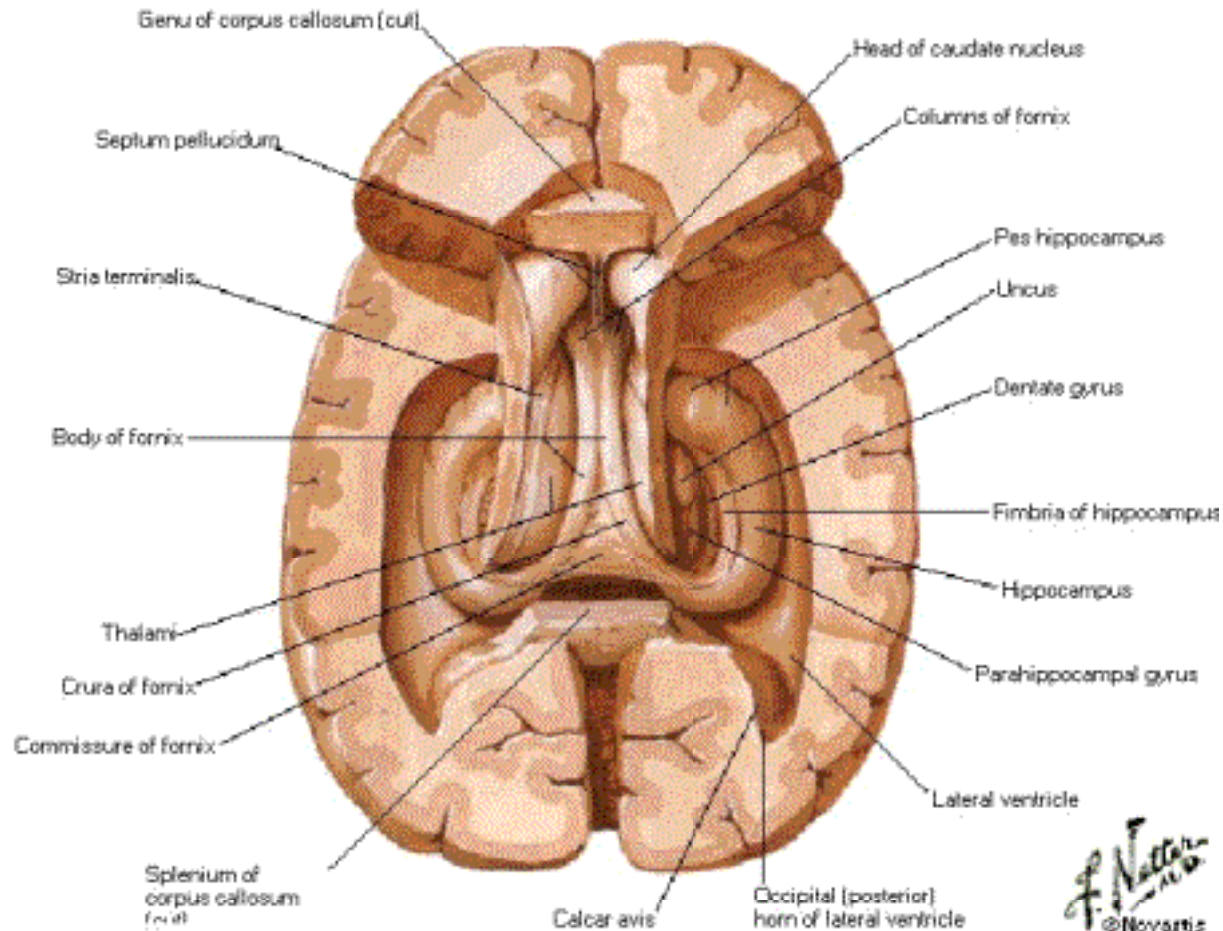
## Schematic Representation of Thalamus



*F. Natter*  
© 2012

# Hippocampus and Fornix

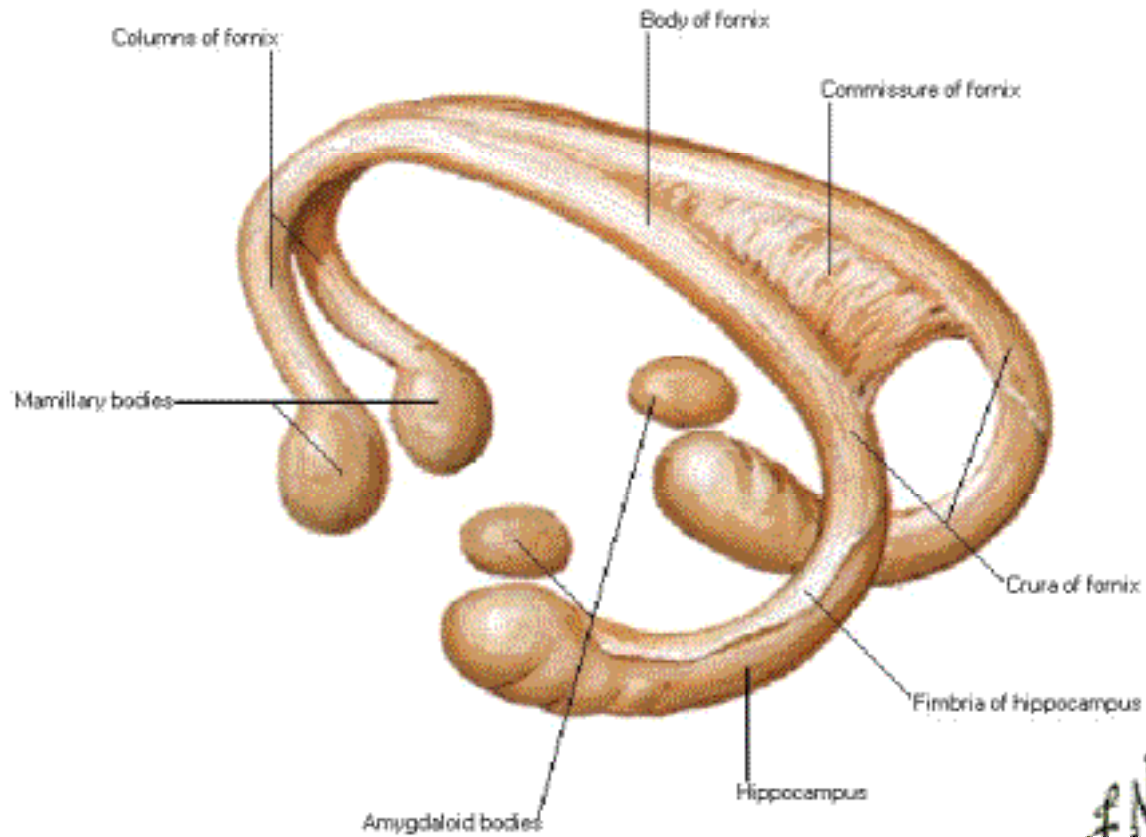
## Superior Dissection





# Hippocampus and Fornix

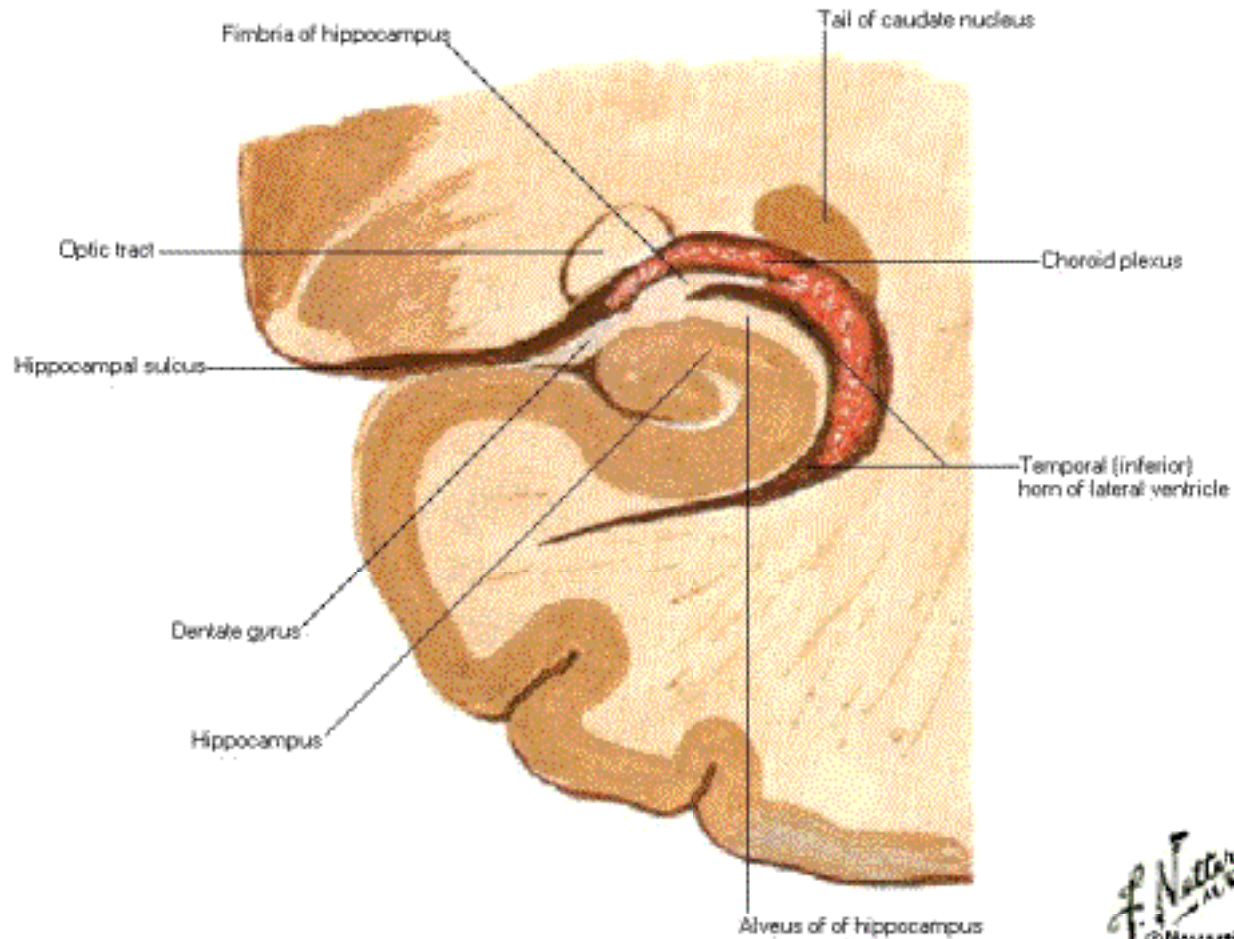
## Schema of Fornix



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© Novartis

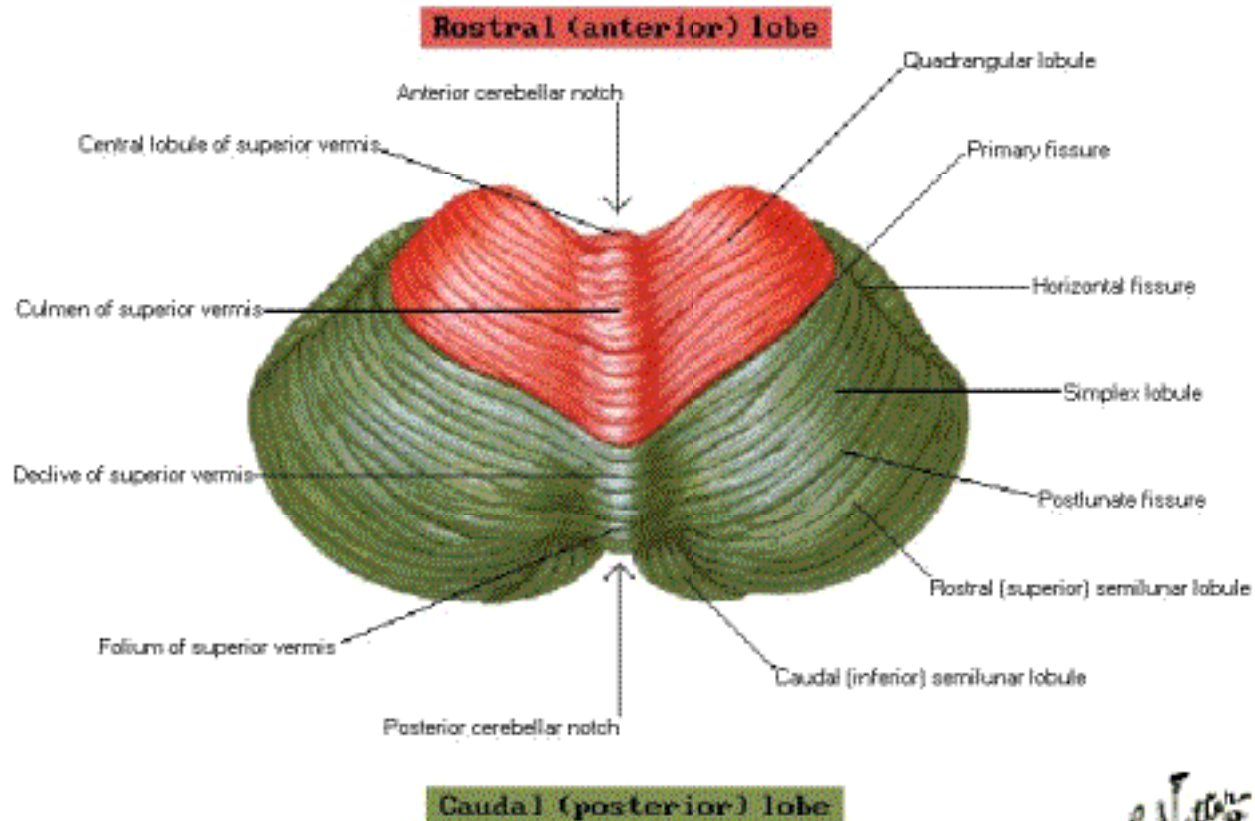
# Hippocampus and Fornix

## Coronal Section - Posterior View



# Cerebellum

## Superior Surface

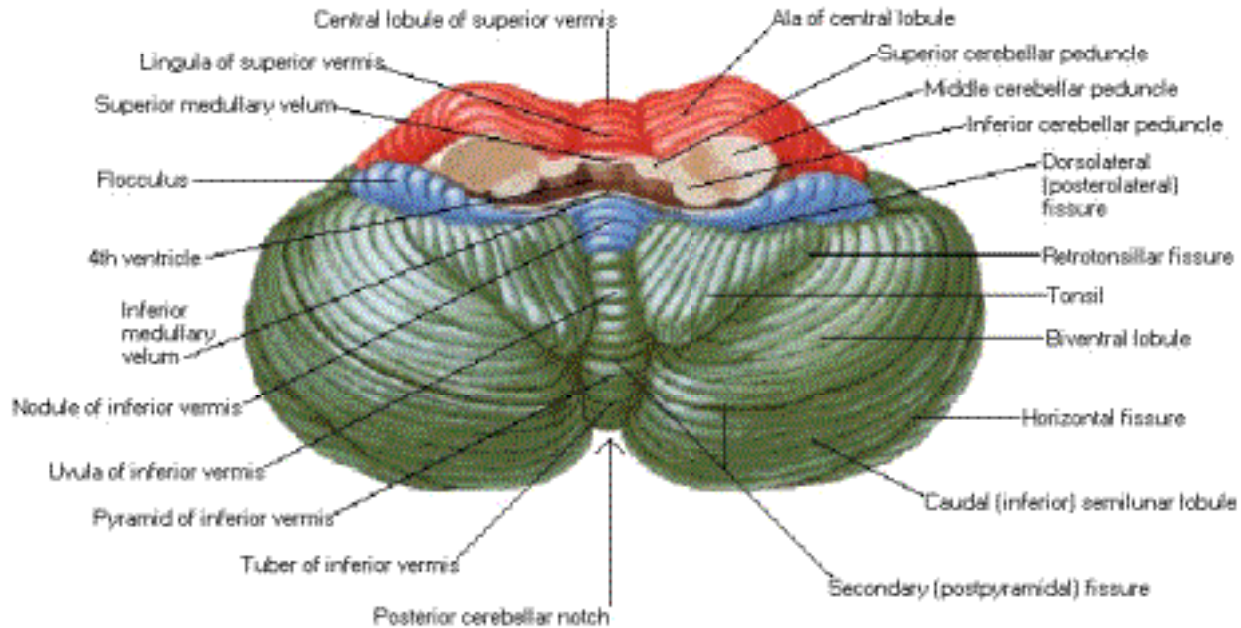


# Cerebellum

## Inferior Surface

Rostral (anterior) lobe

Flocculonodular lobe

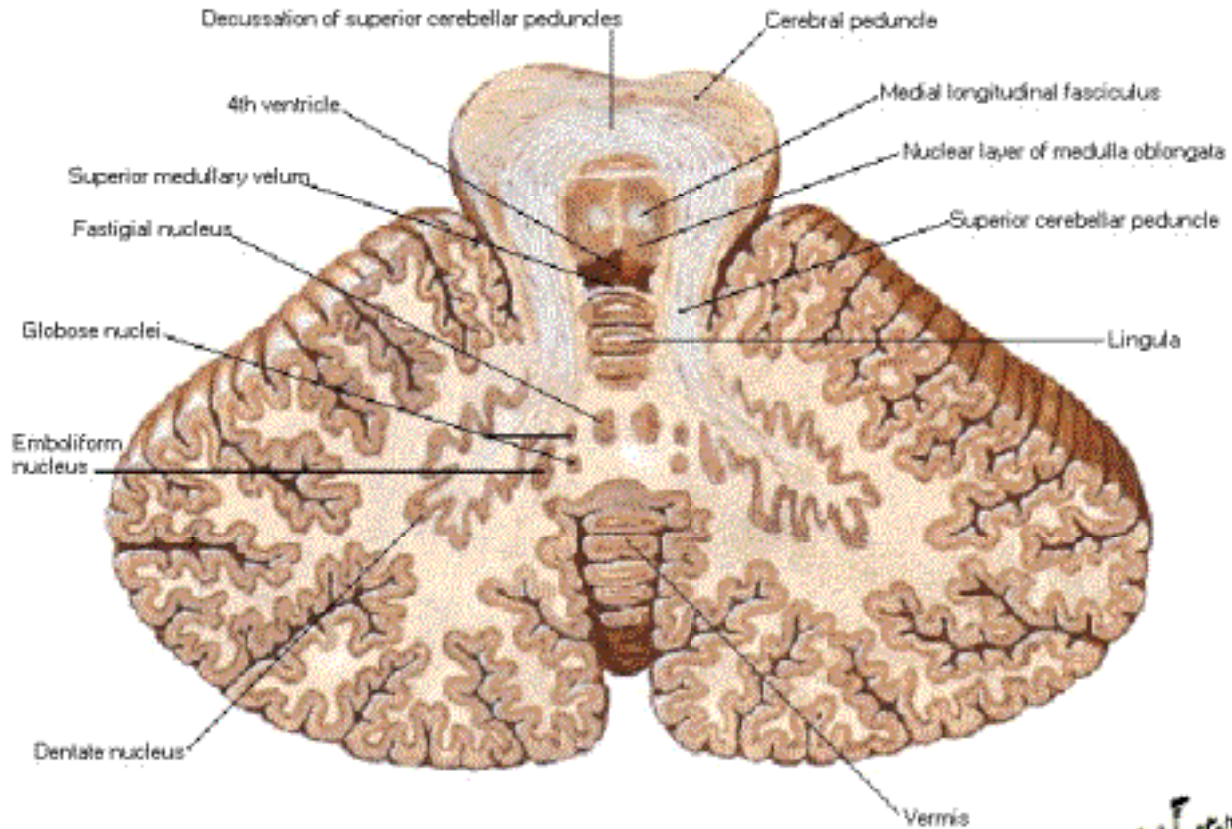


Caudal (posterior) lobe



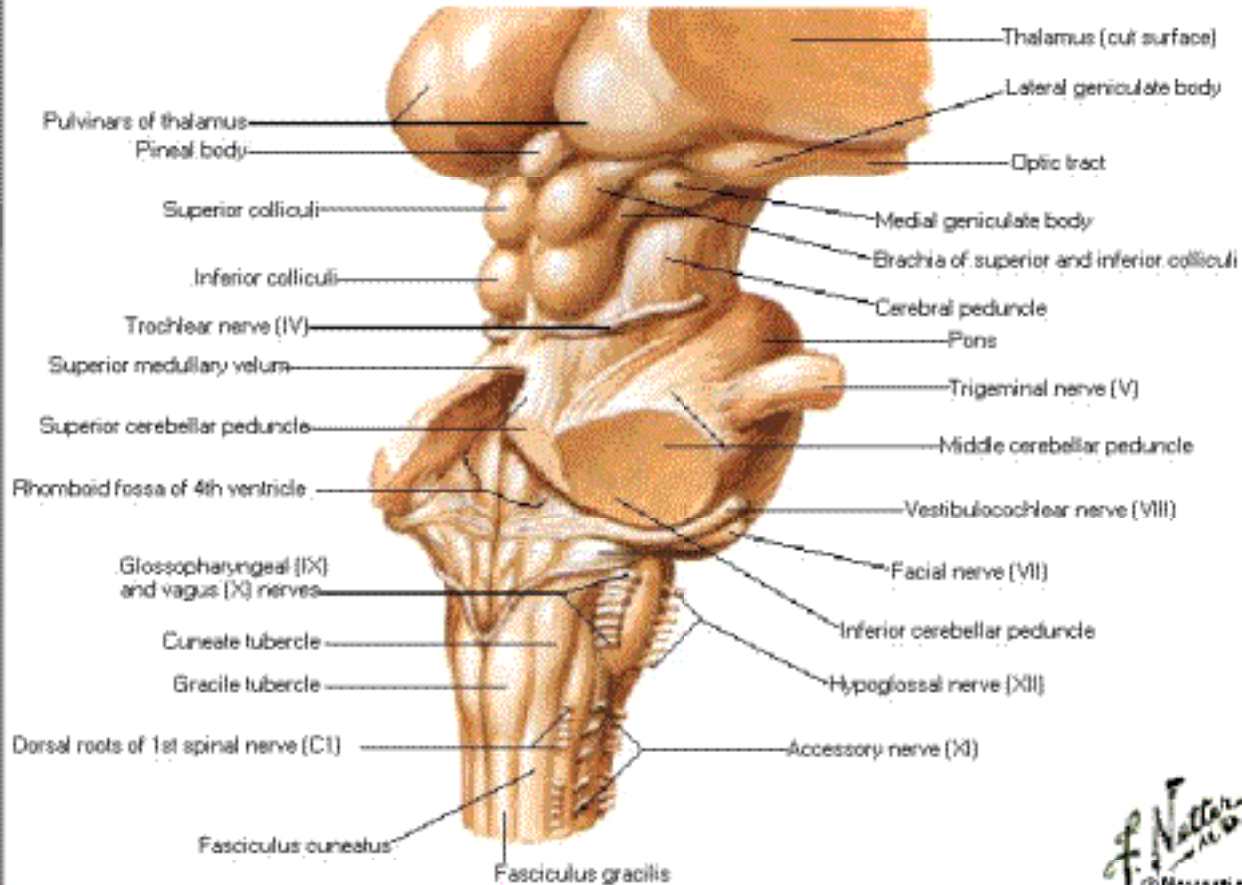
# Cerebellum

## Section in Plane of Superior Cerebellar Peduncle



# Brainstem

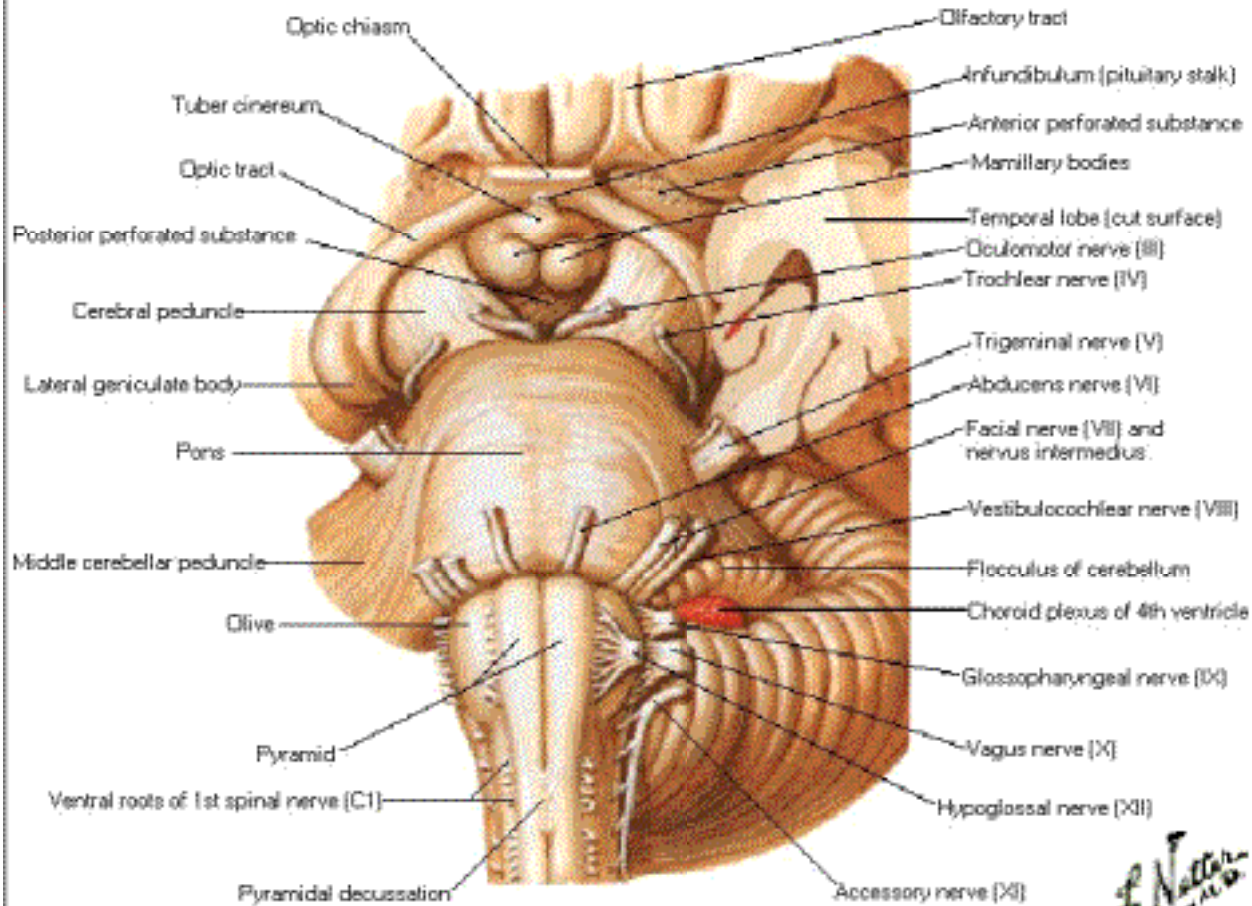
## Posterolateral View



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# Brainstem

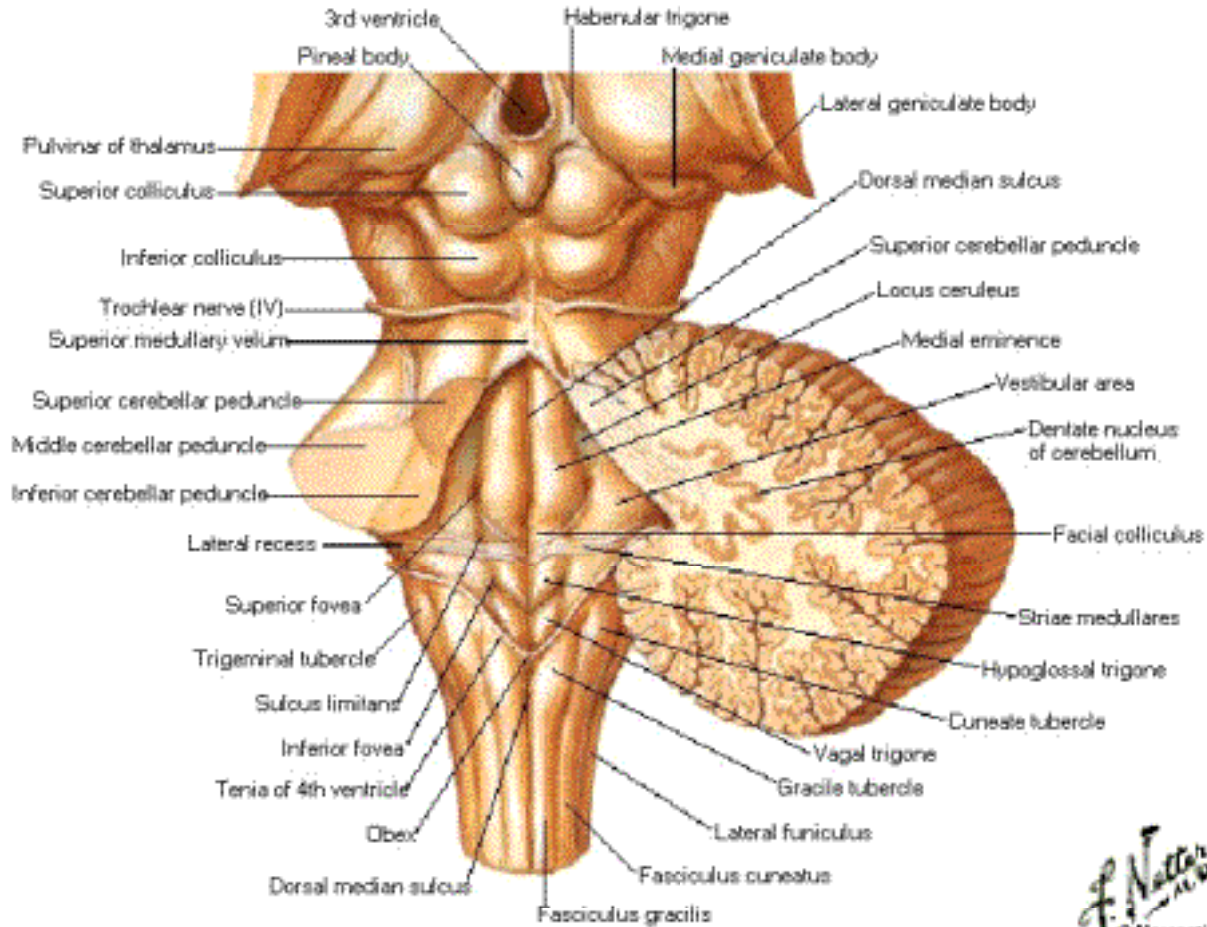
## Anteroinferior View



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© 1996

# Fourth Ventricle and Cerebellum

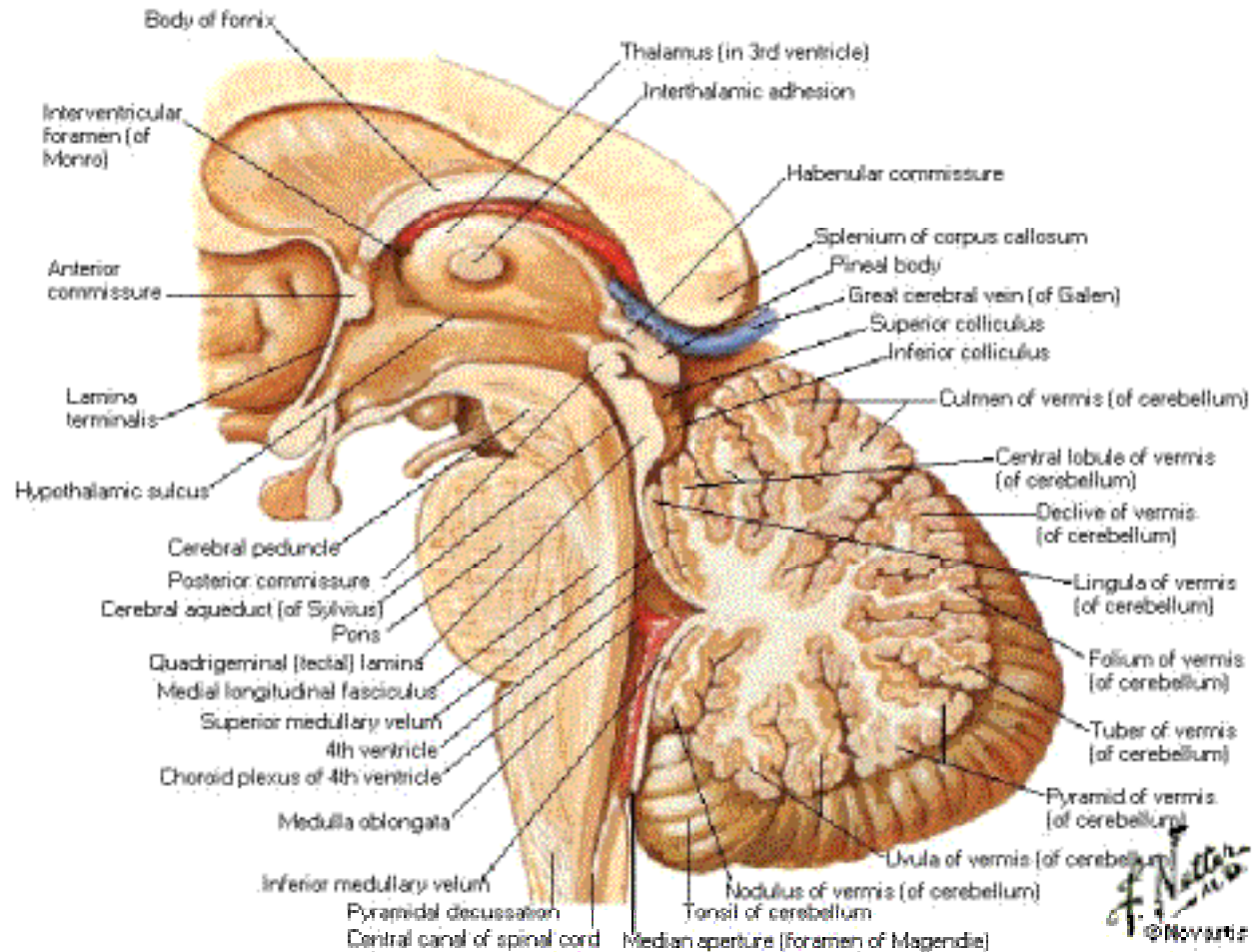
## Posterior View





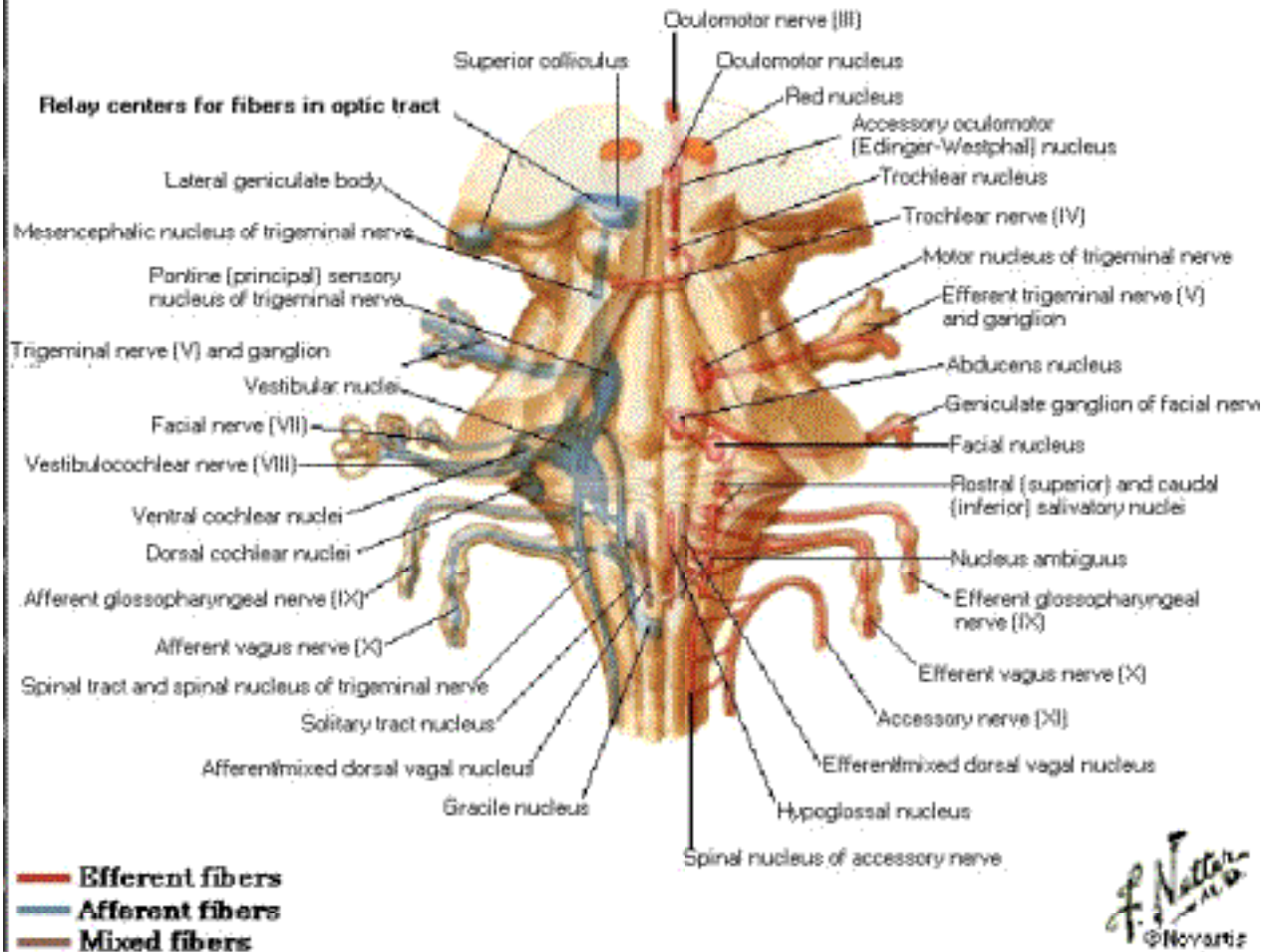
# Fourth Ventricle and Cerebellum

## Median Sagittal Section



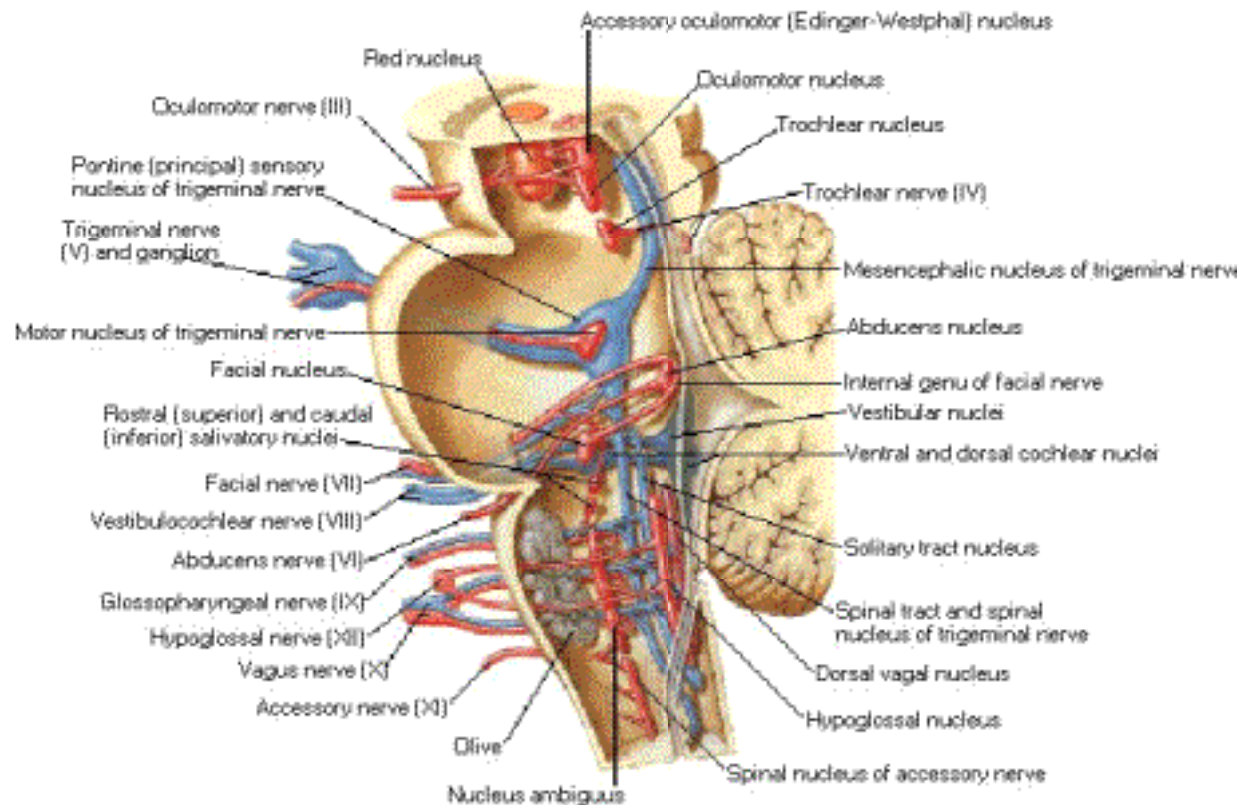
# Cranial Nerve Nuclei in Brainstem

## Schema - Posterior Phantom View



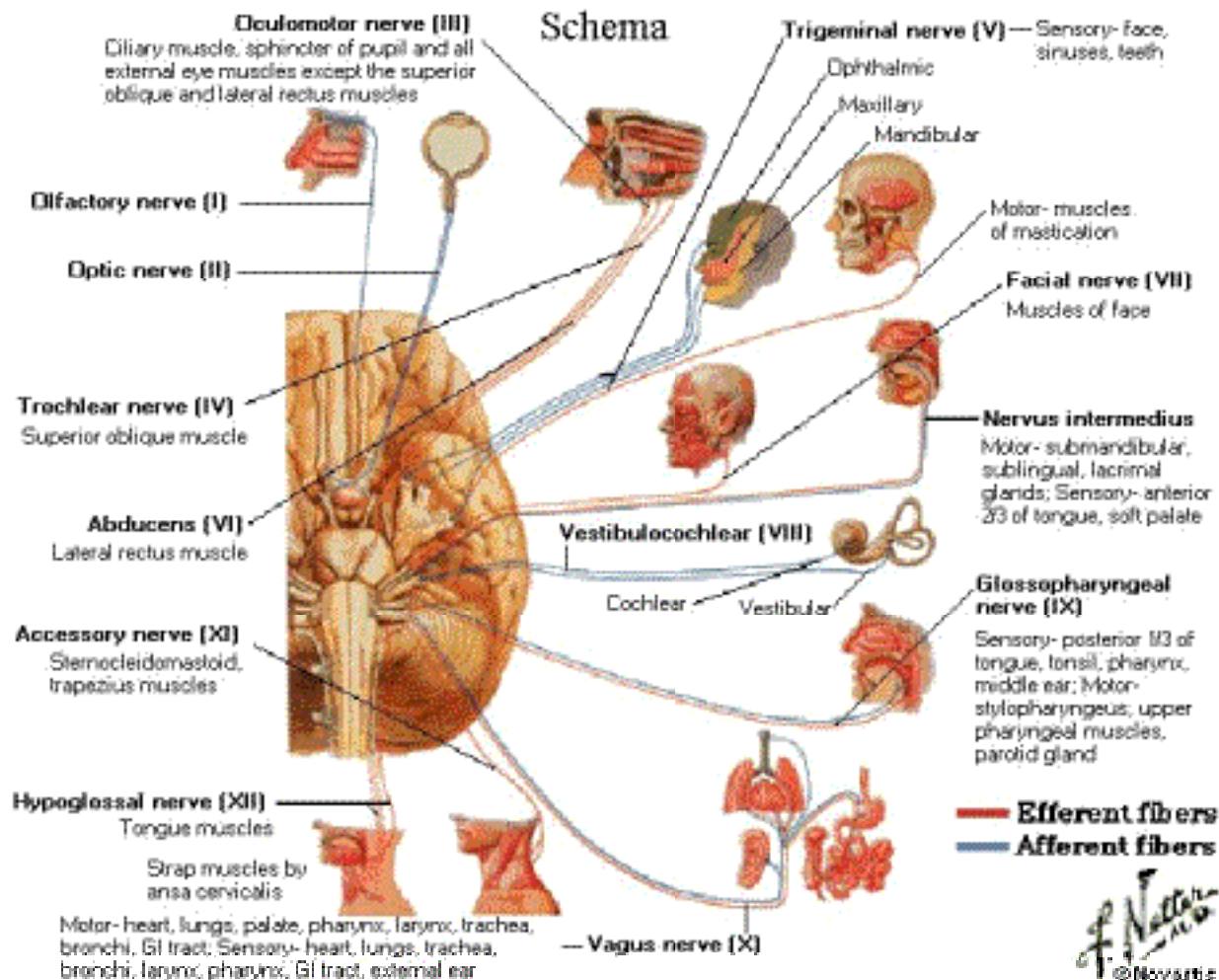
# Cranial Nerve Nuclei in Brainstem

## Schema - Medial Dissection



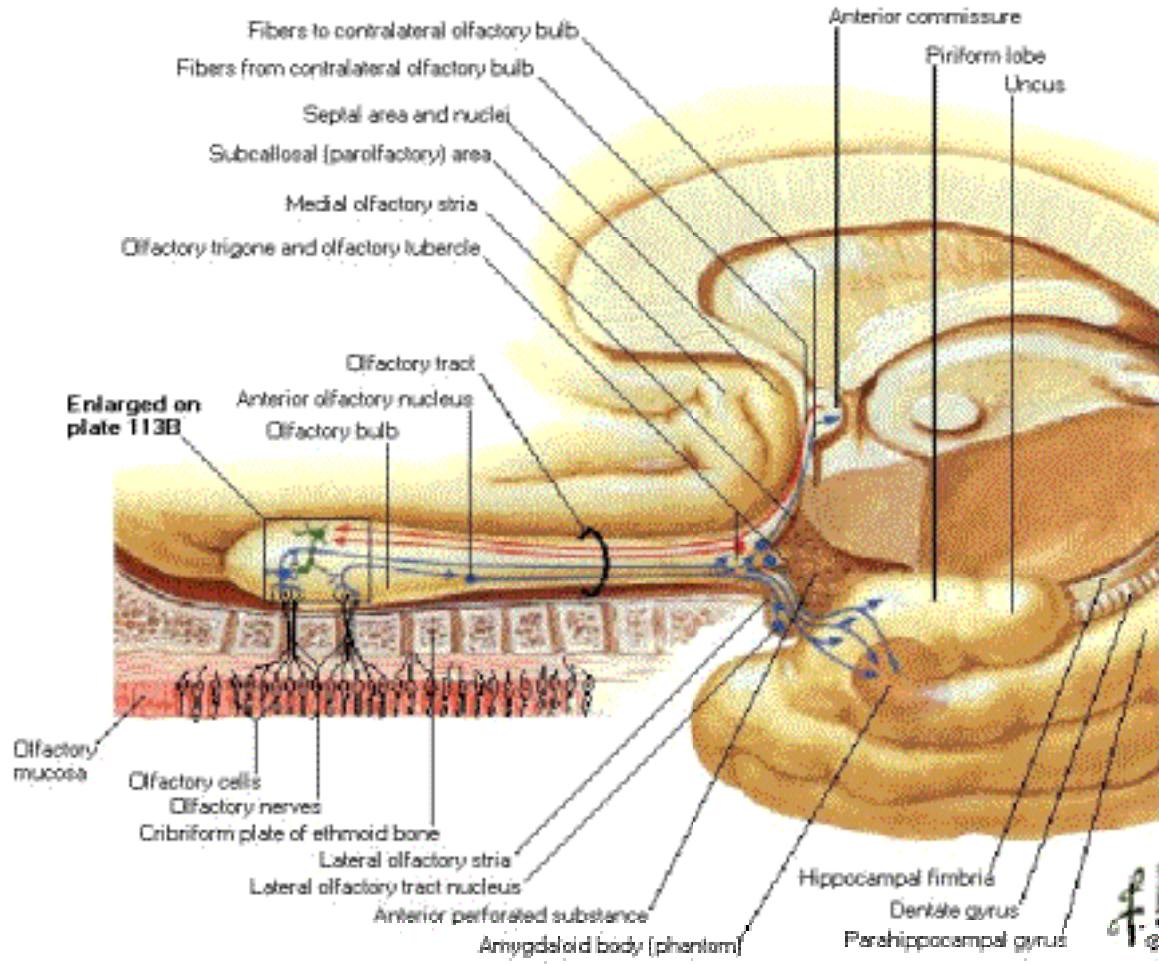
- Efferent fibers
- Afferent fibers
- Mixed fibers

# Cranial Nerves [Motor and Sensory Distribution]



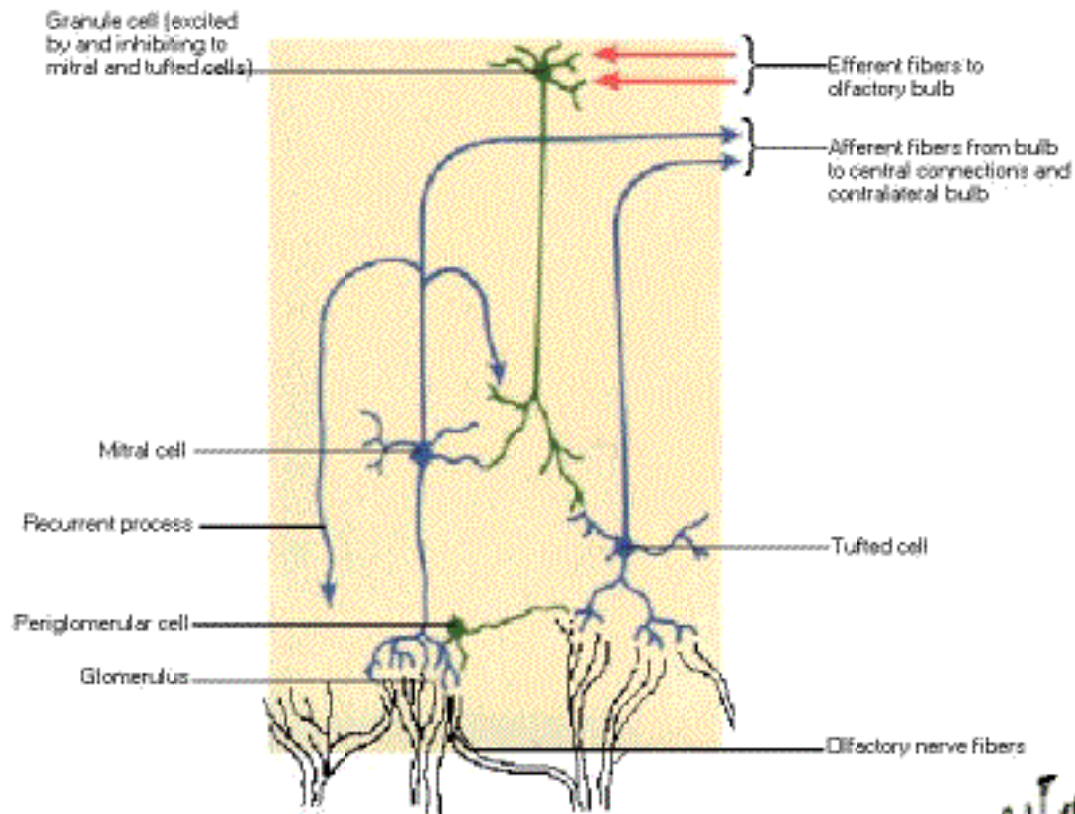


# Olfactory Nerve Schema



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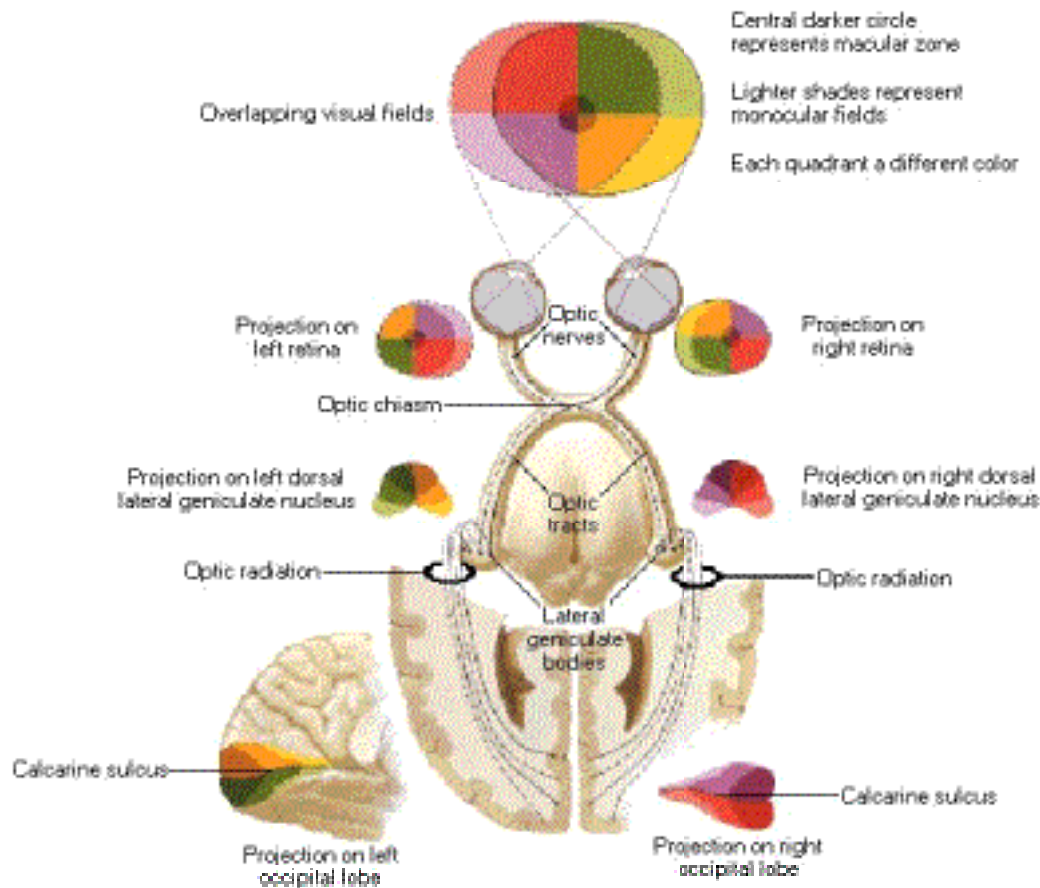
# Olfactory Nerve - Olfactory Bulb Cells Schema



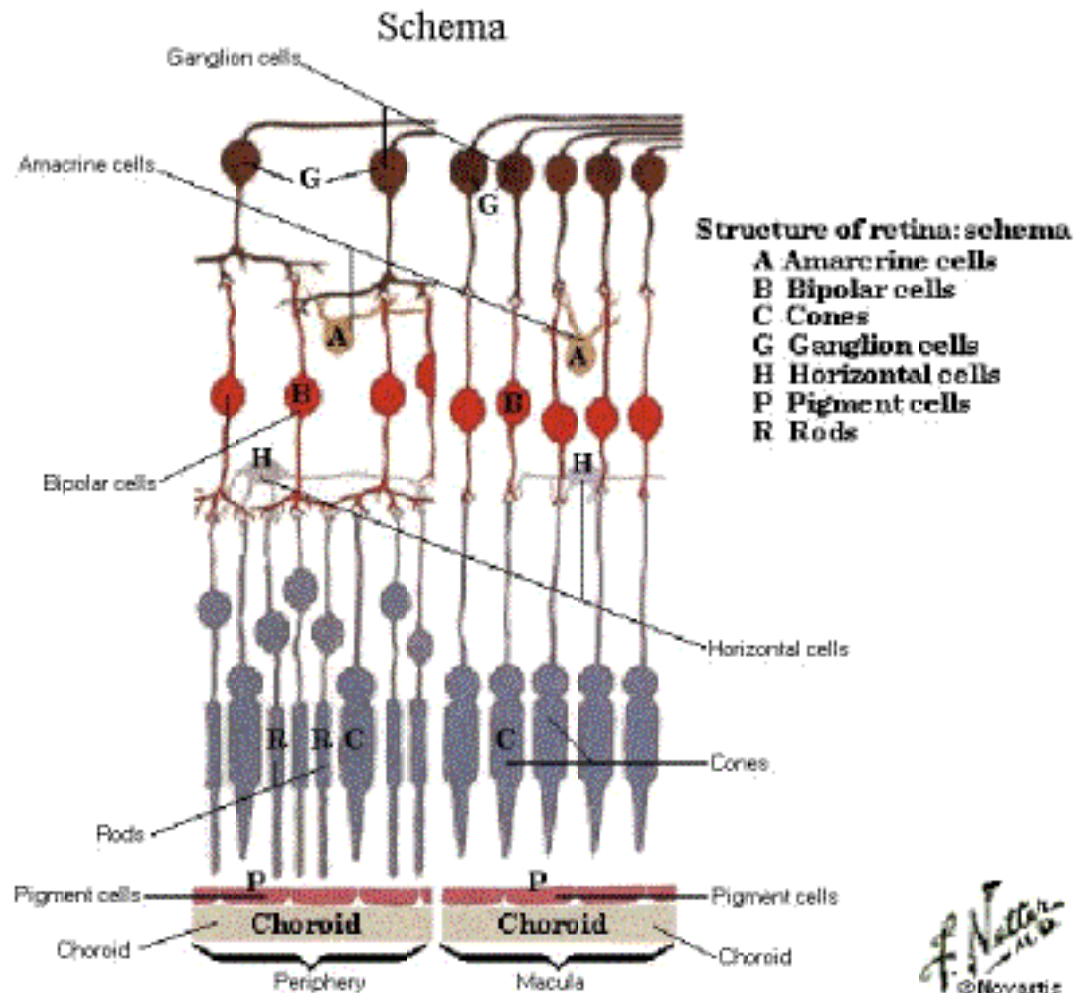
Schema of outlined area on plate 113A

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# Optic Nerve [Visual Pathway] Schema



# Optic Nerve [Visual Pathway] - Structure of Retina

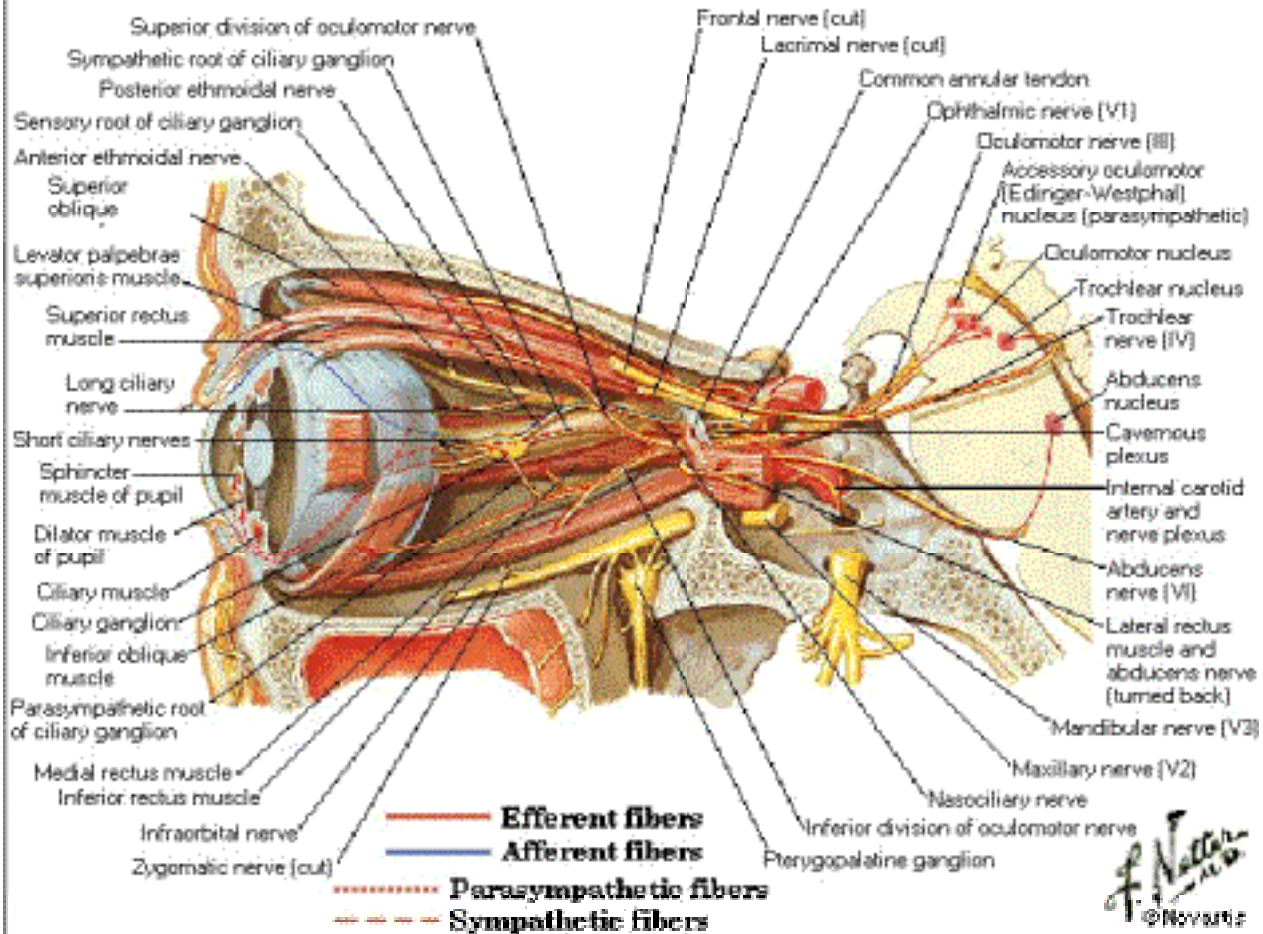


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# Oculomotor, Trochlear and Abducens Nerves

## Schema



# Trigeminal Nerve

— Efferent fibers

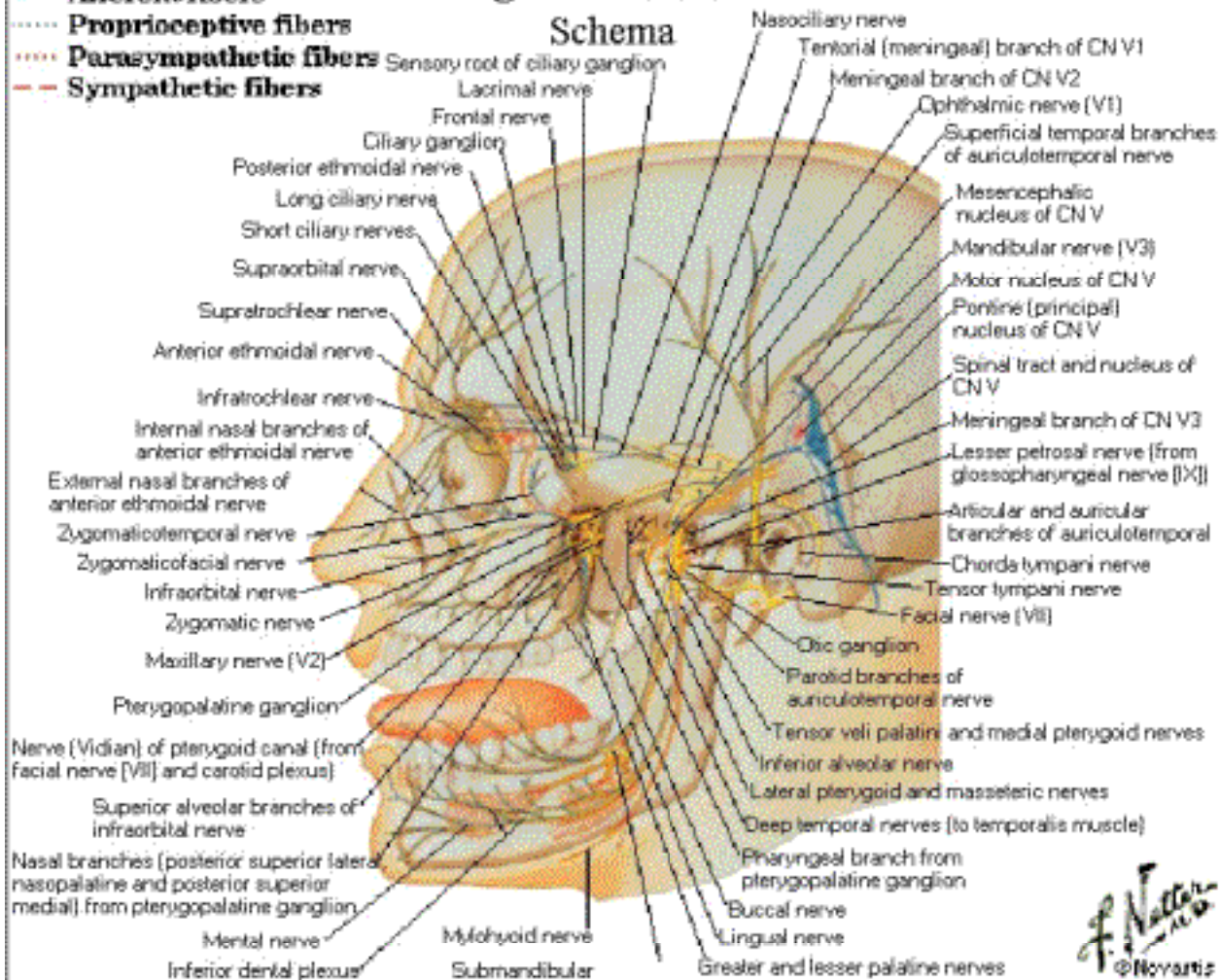
— Afferent fibers

..... Proprioceptive fibers

..... Parasympathetic fibers

--- Sympathetic fibers

## Schema

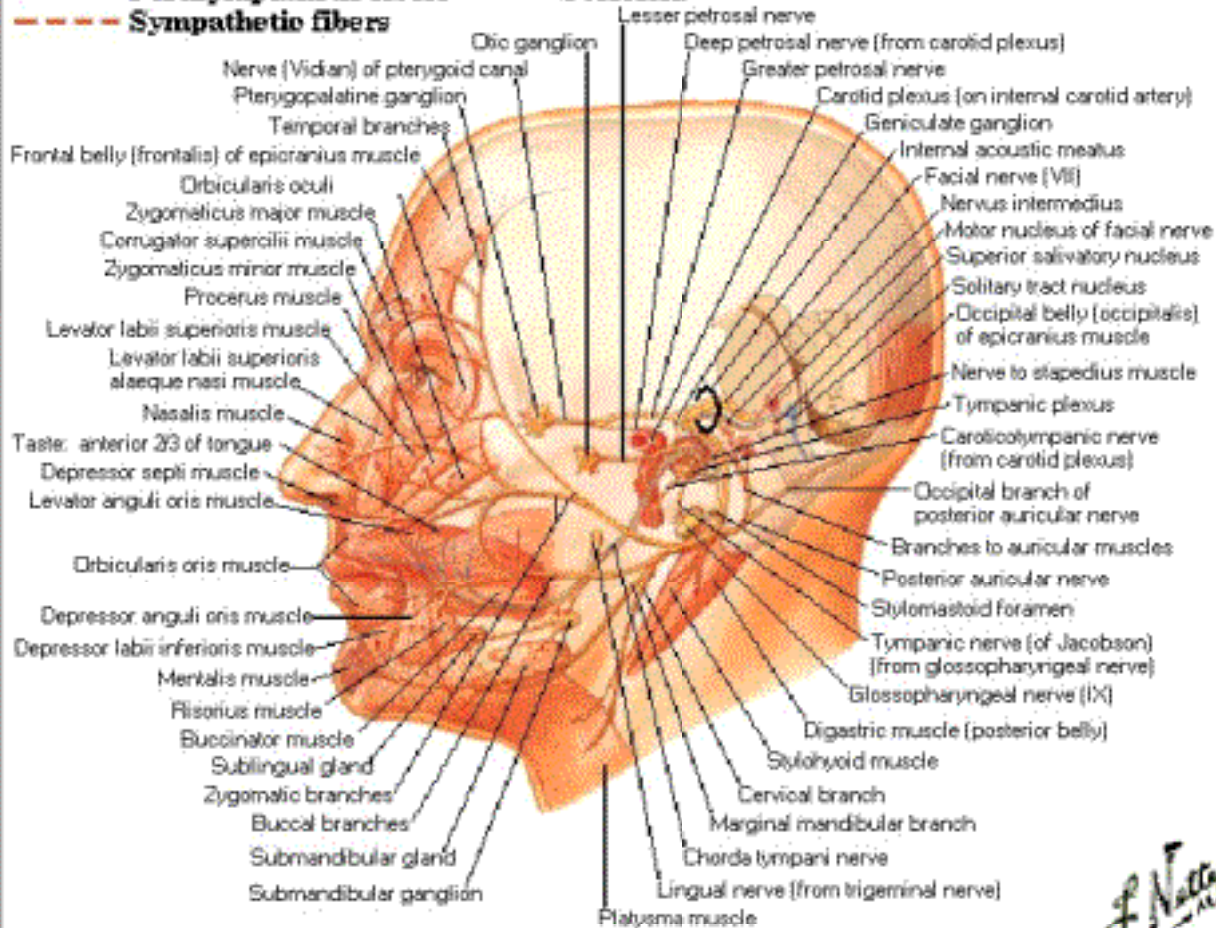


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© 1995

- Efferent fibers
- Afferent fibers
- - - Parasympathetic fibers
- - - Sympathetic fibers

# Facial Nerve

## Schema

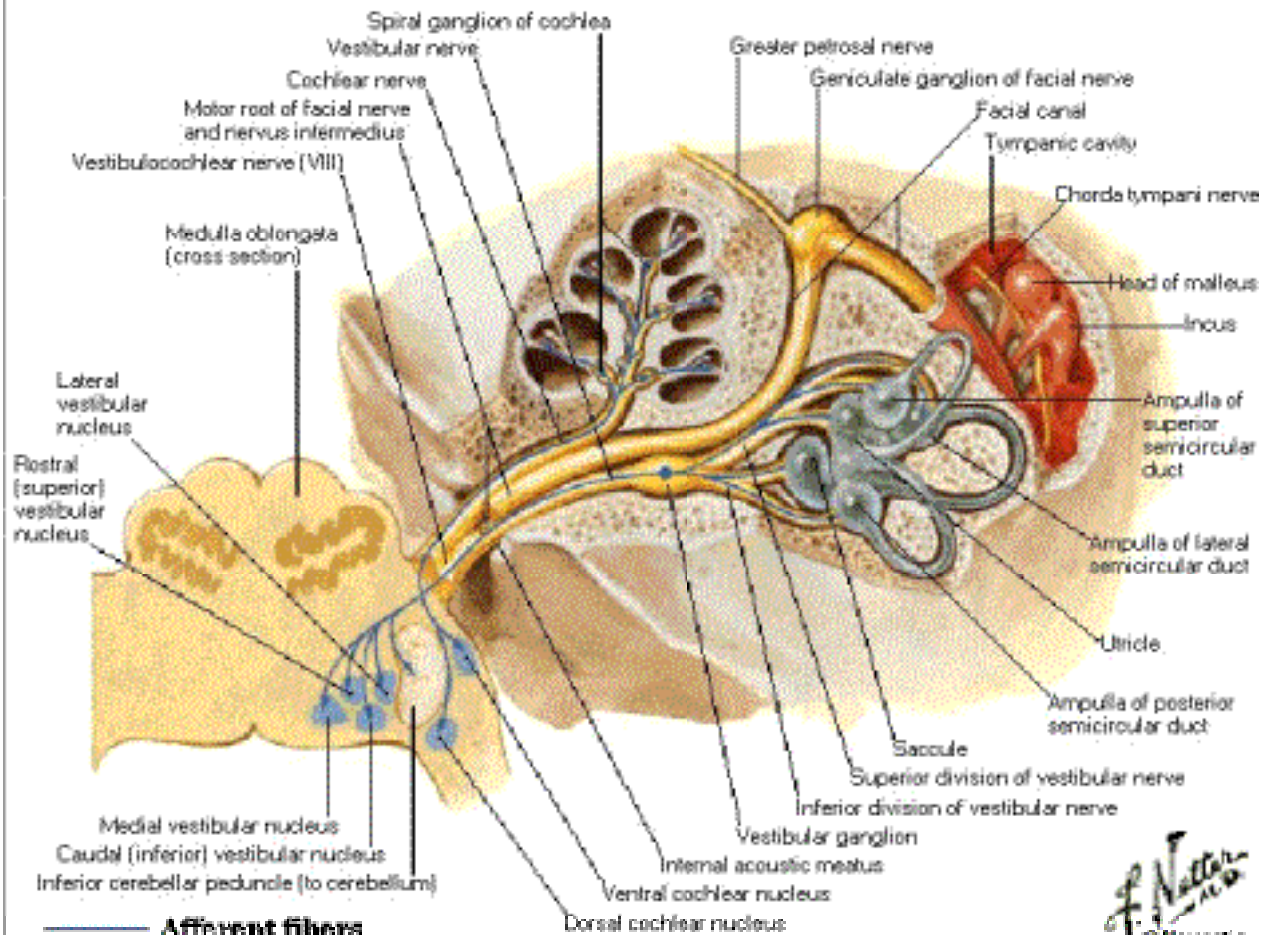


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# Vestibulocochlear Nerve

## Schema

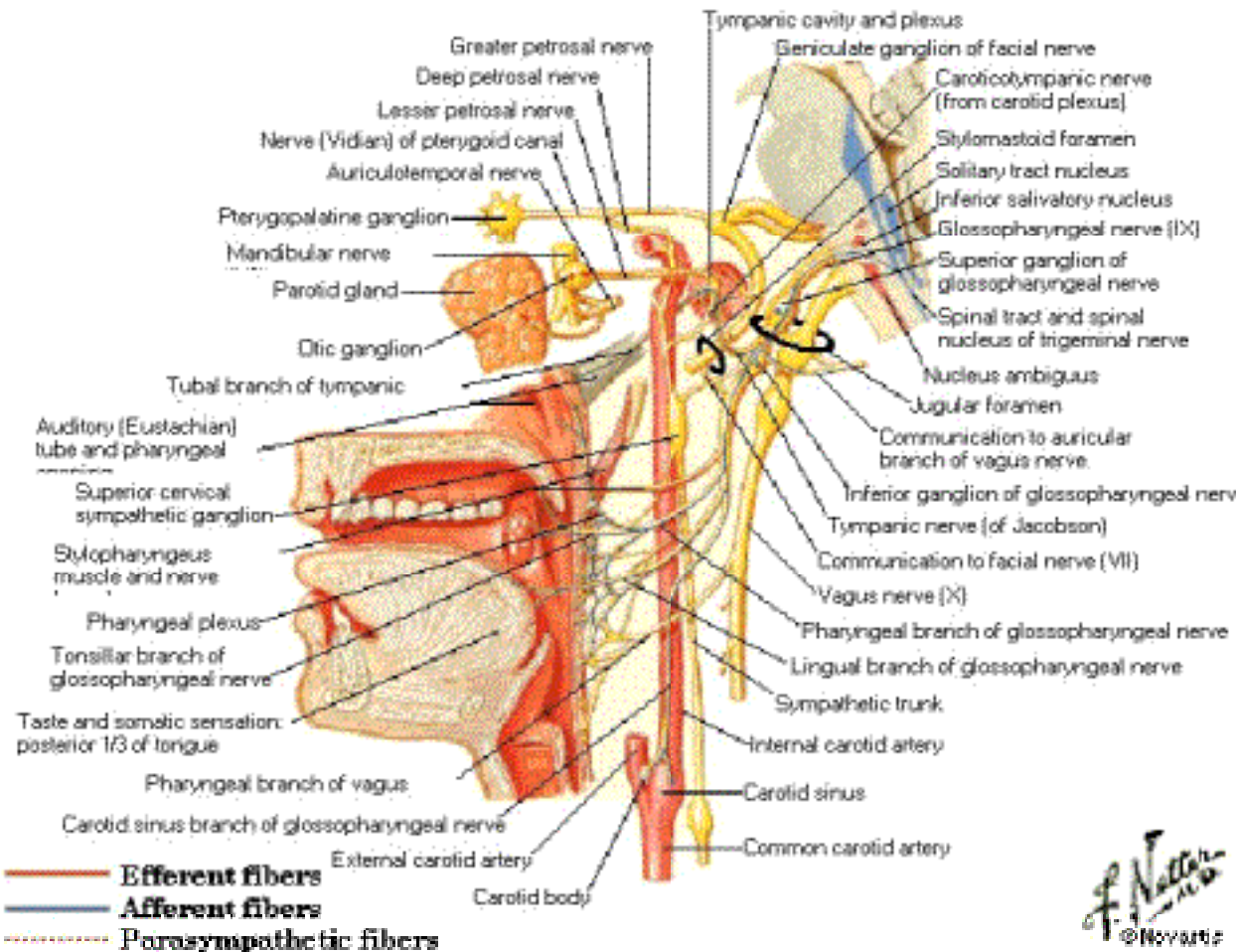


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# Glossopharyngeal Nerve

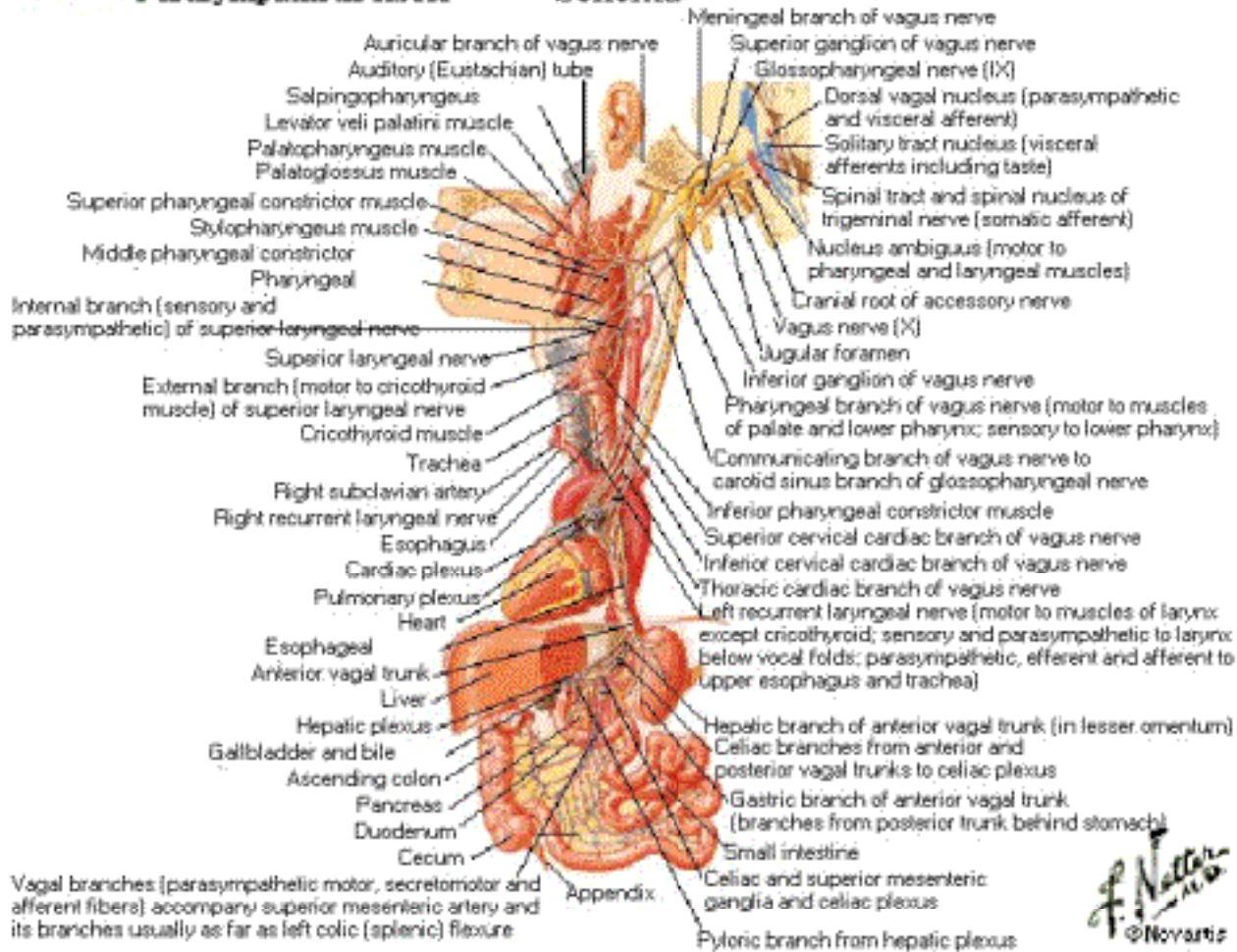
## Schema



- Efferent fibers
- Afferent fibers
- ⋯ Parasympathetic fibers

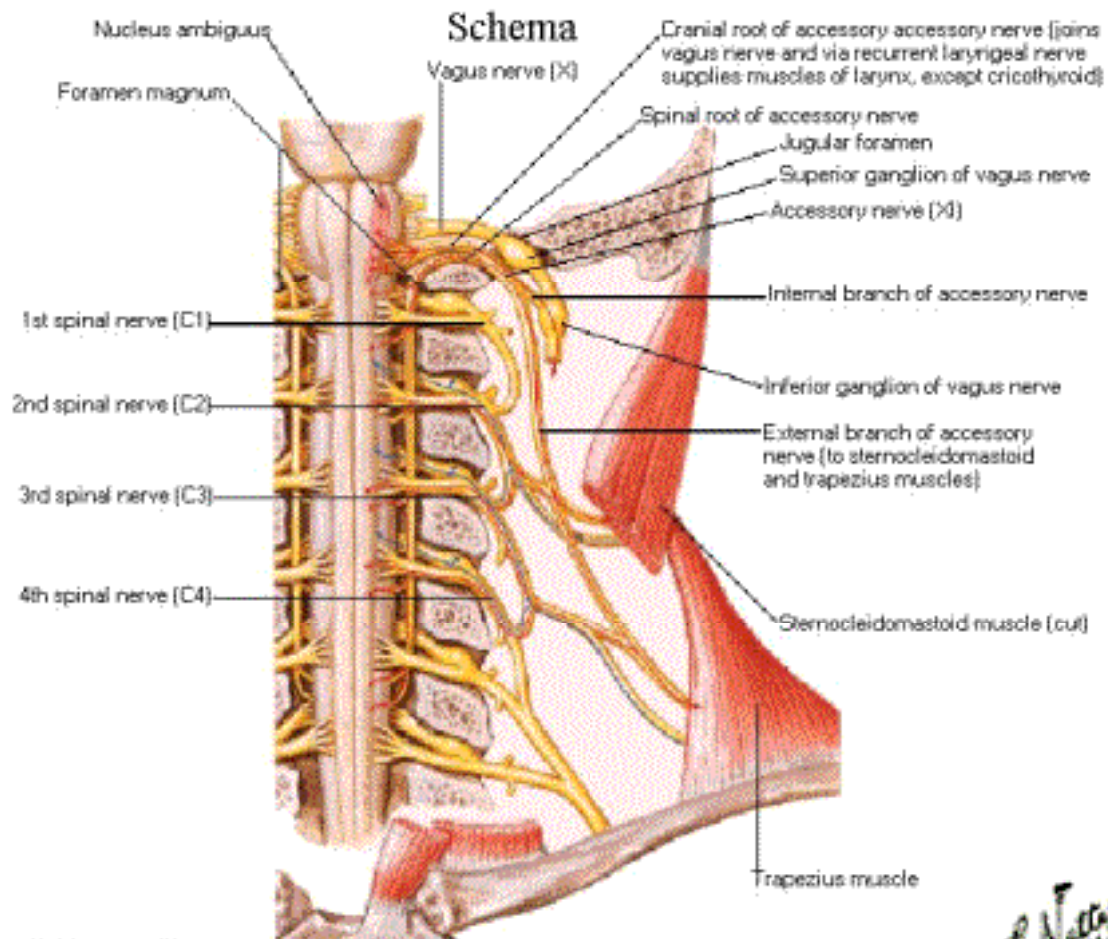
# Vagus Nerve

## Schema



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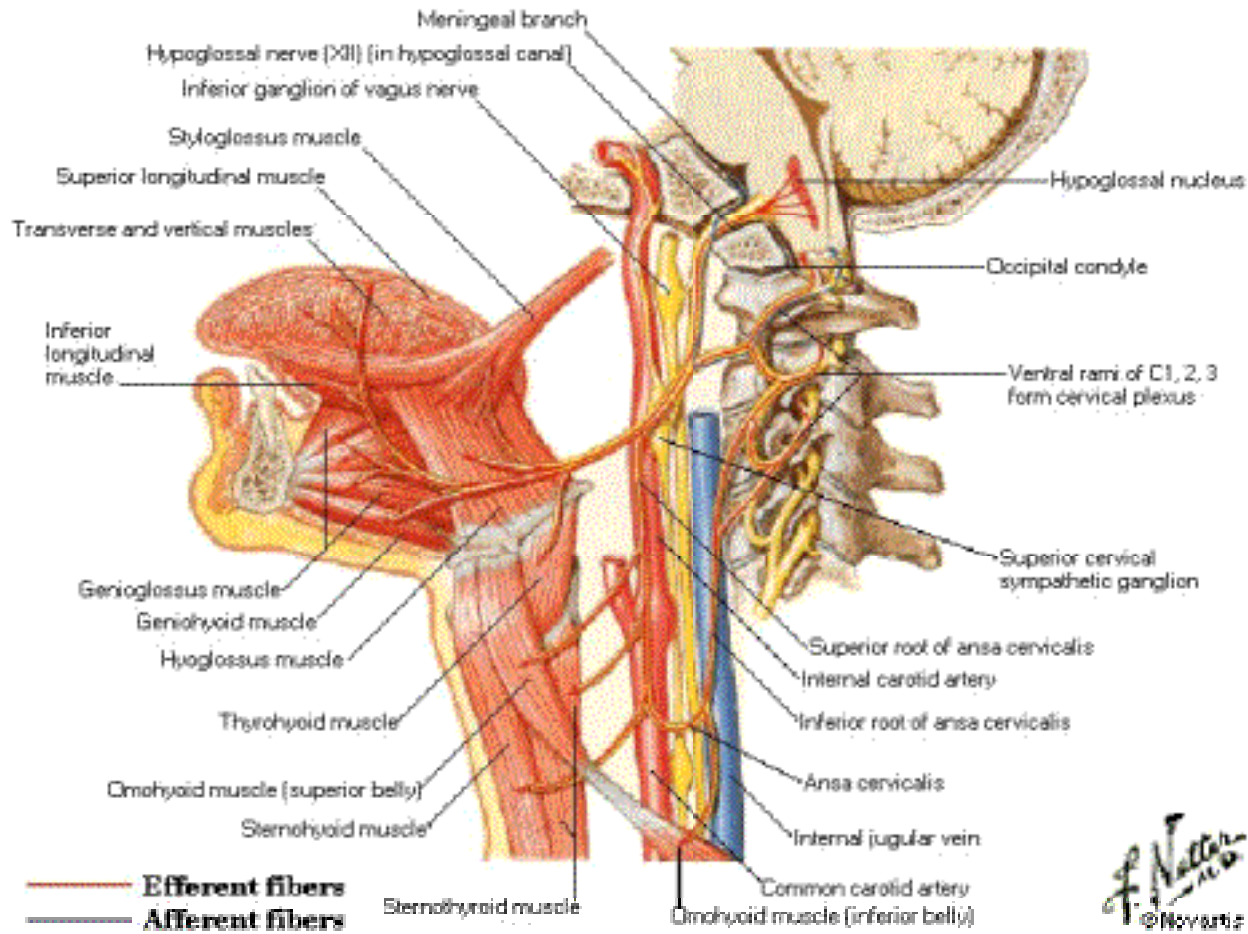
# Accessory Nerve



— Efferent fibers  
 — Proprioceptive fibers

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# Hypoglossal Nerve Schema

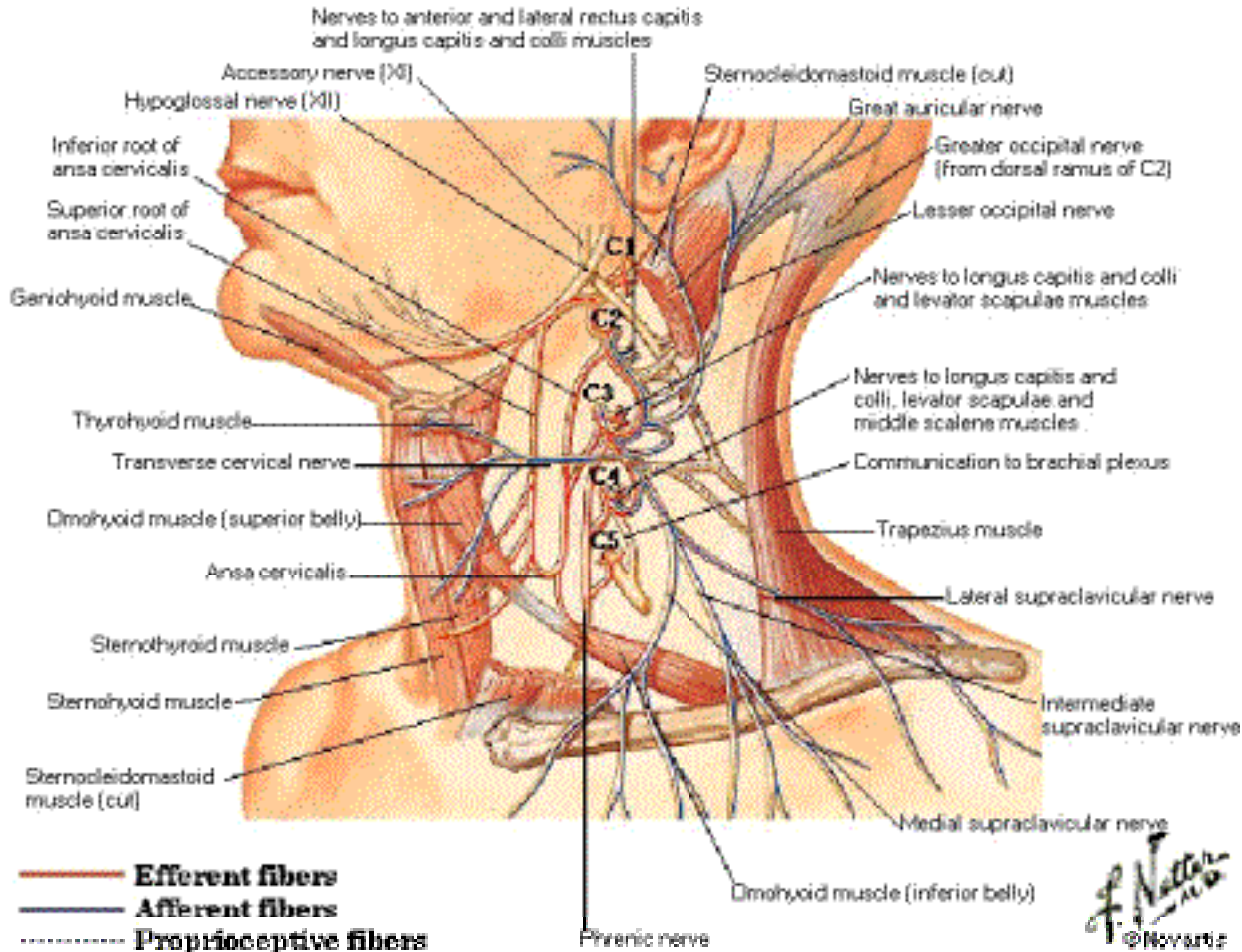


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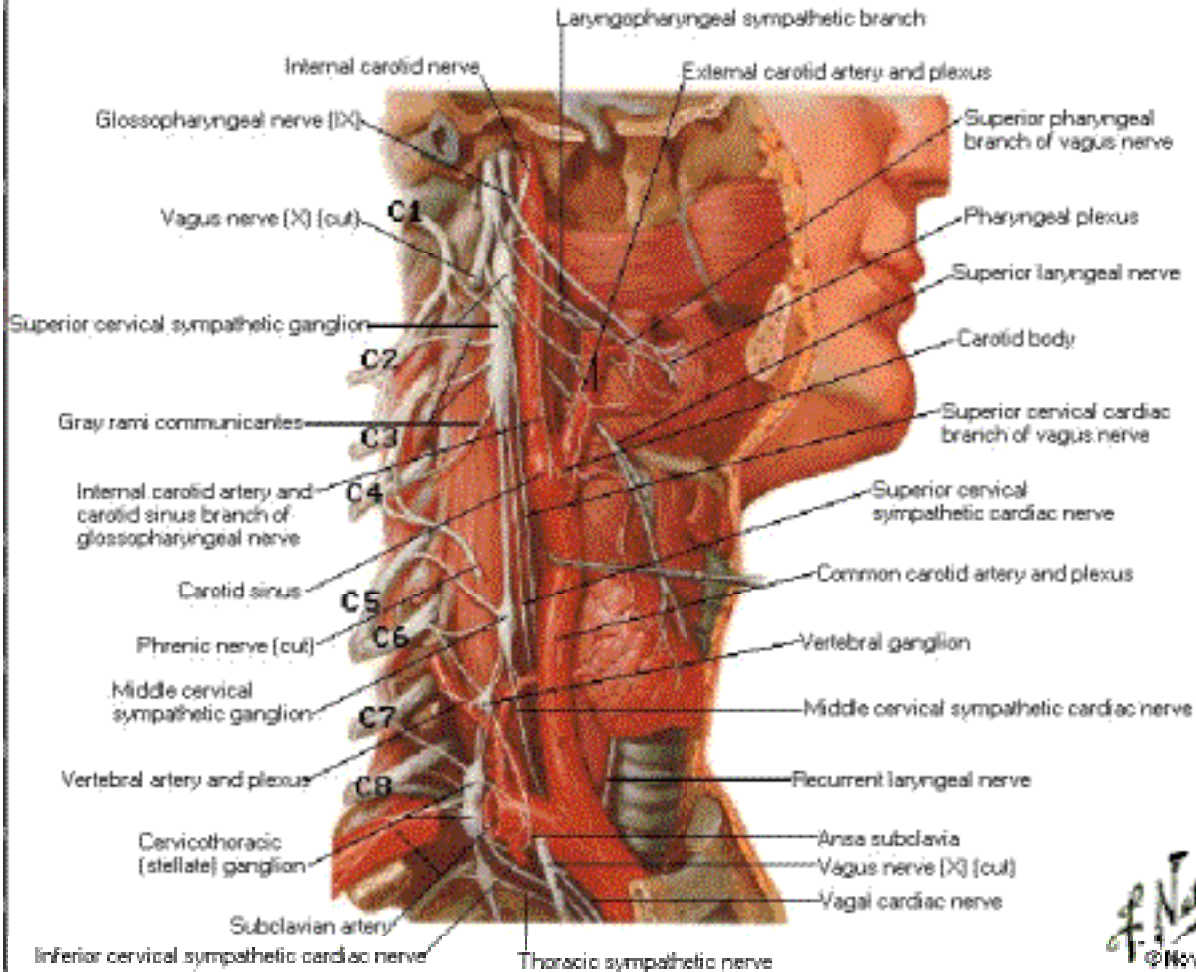


# Cervical Plexus

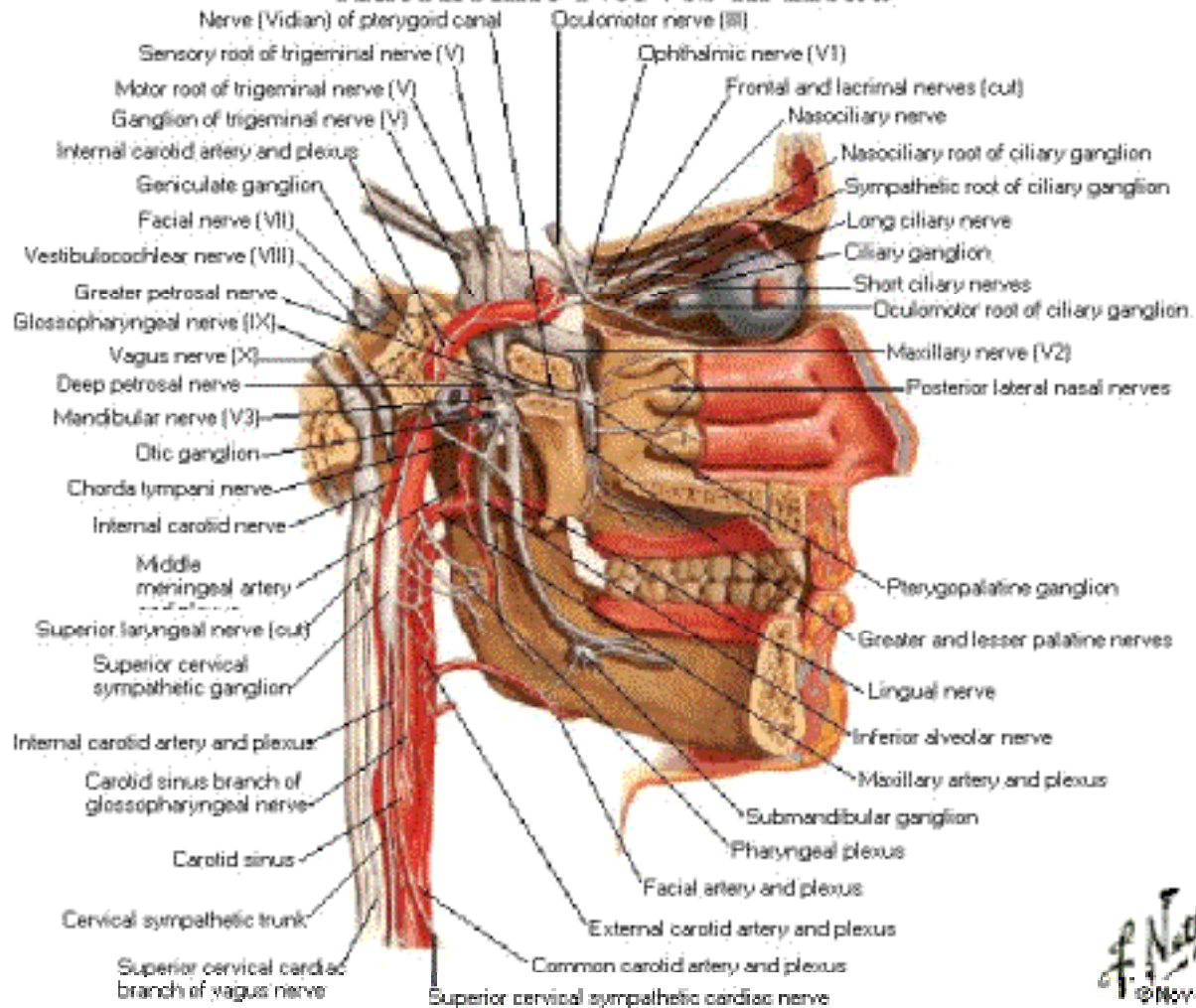
## Schema



# Autonomic Nerves in Neck

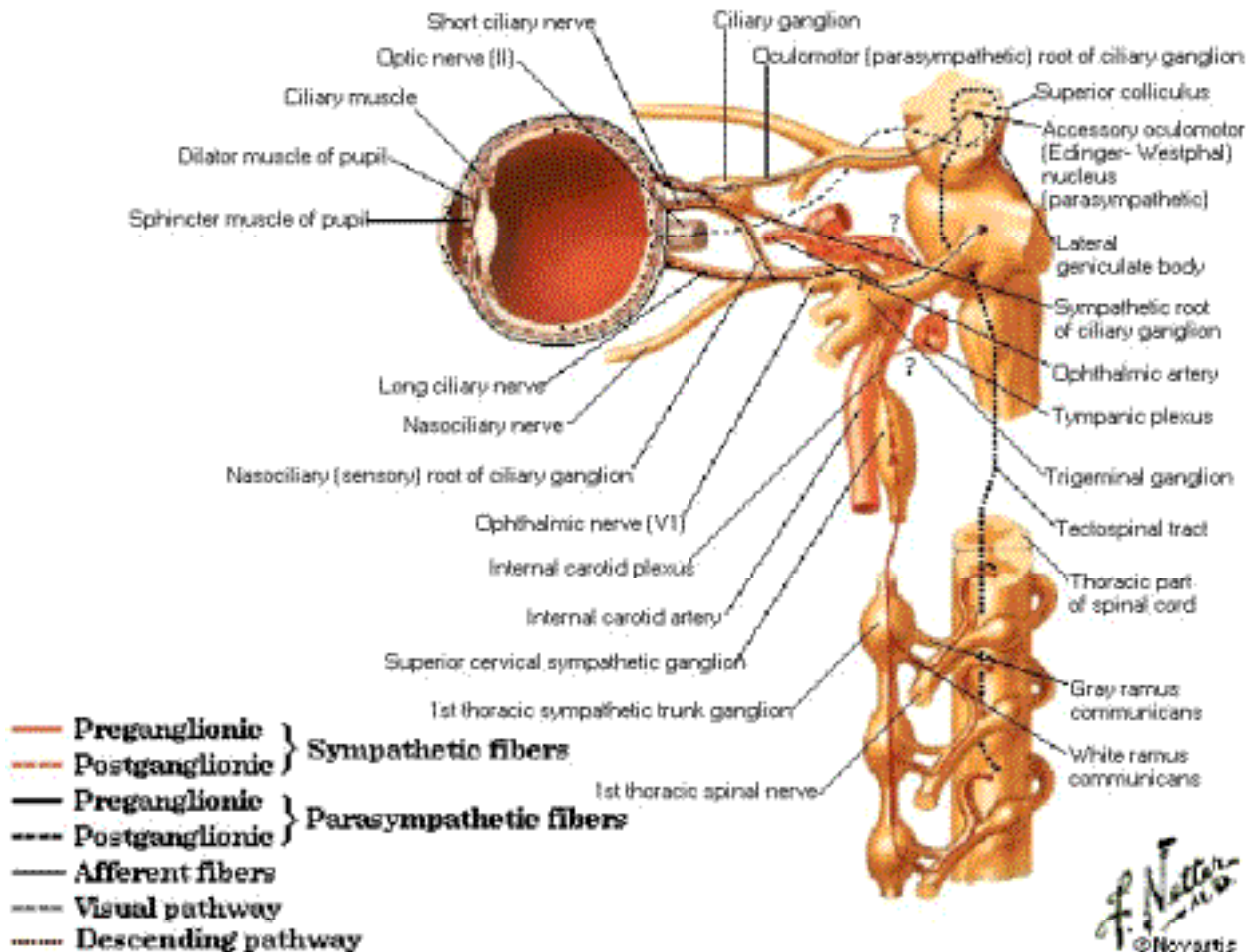


# Autonomic Nerves in Head



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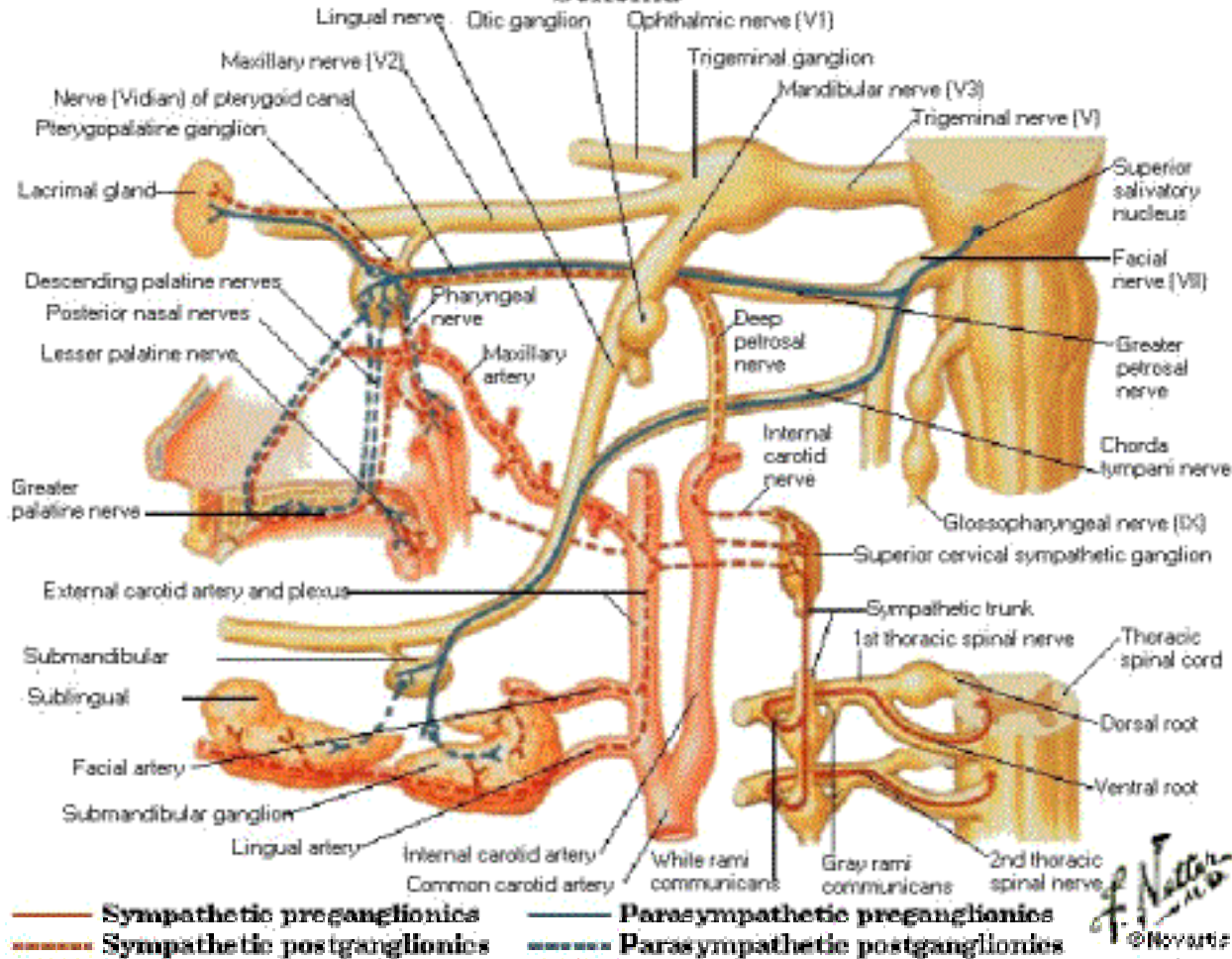
# Ciliary Ganglion Schema





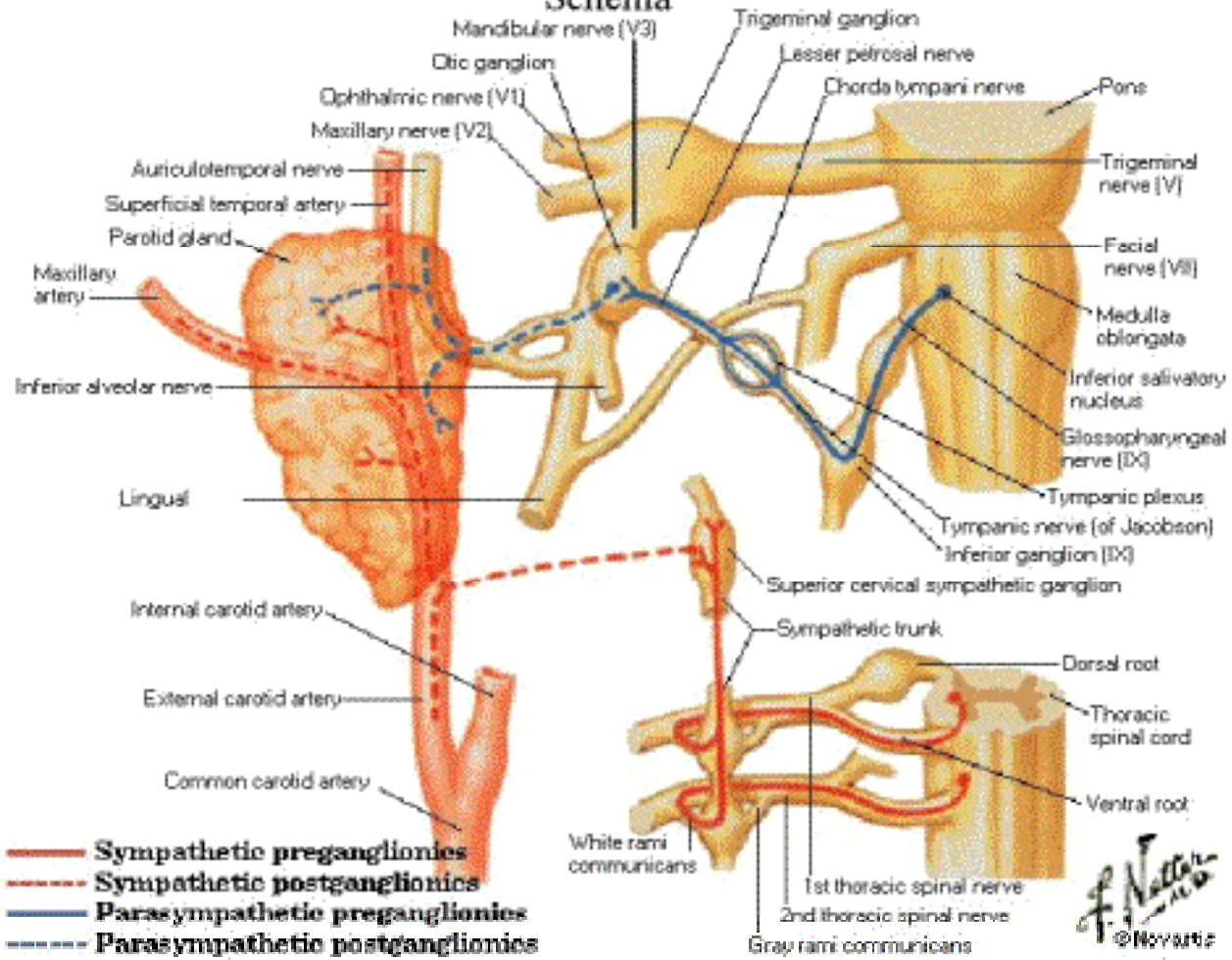
# Pterygopalatine and Submandibular Ganglia

## Schema



# Otic Ganglion

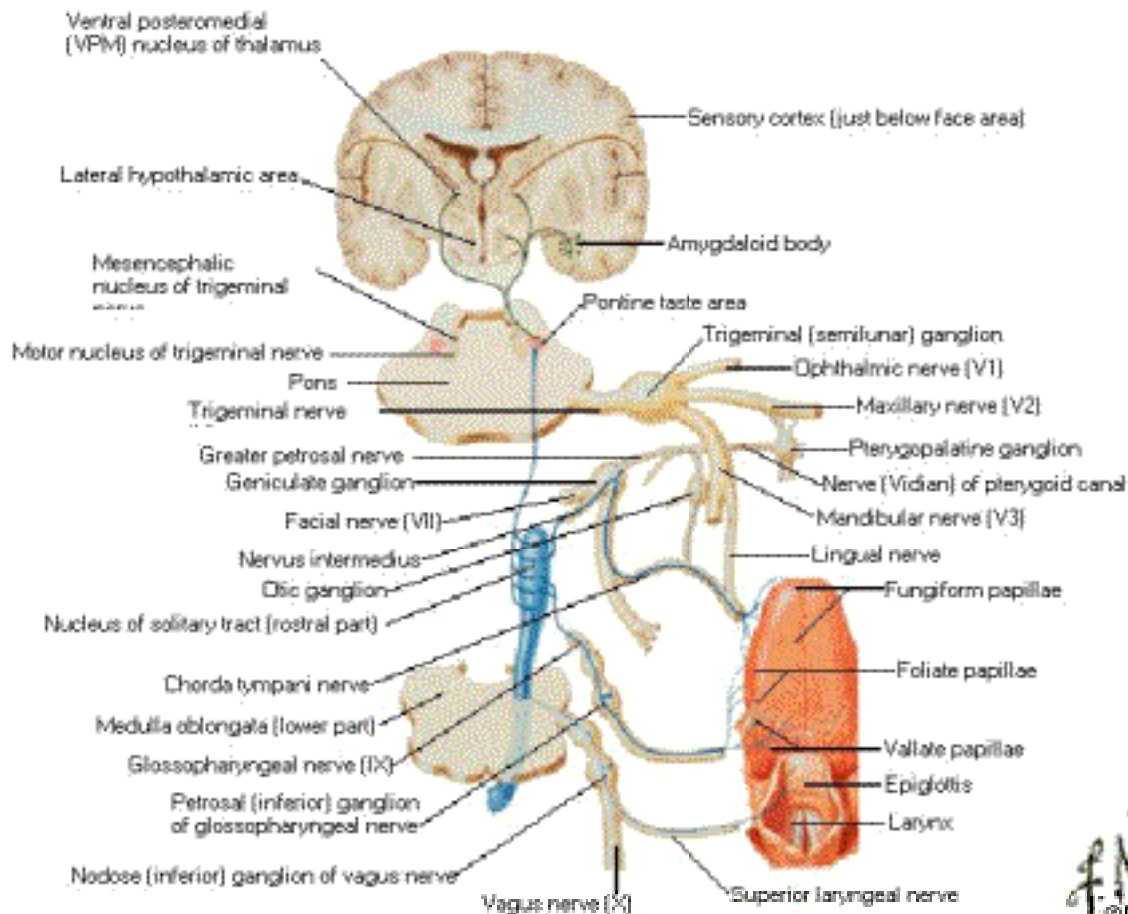
## Schema



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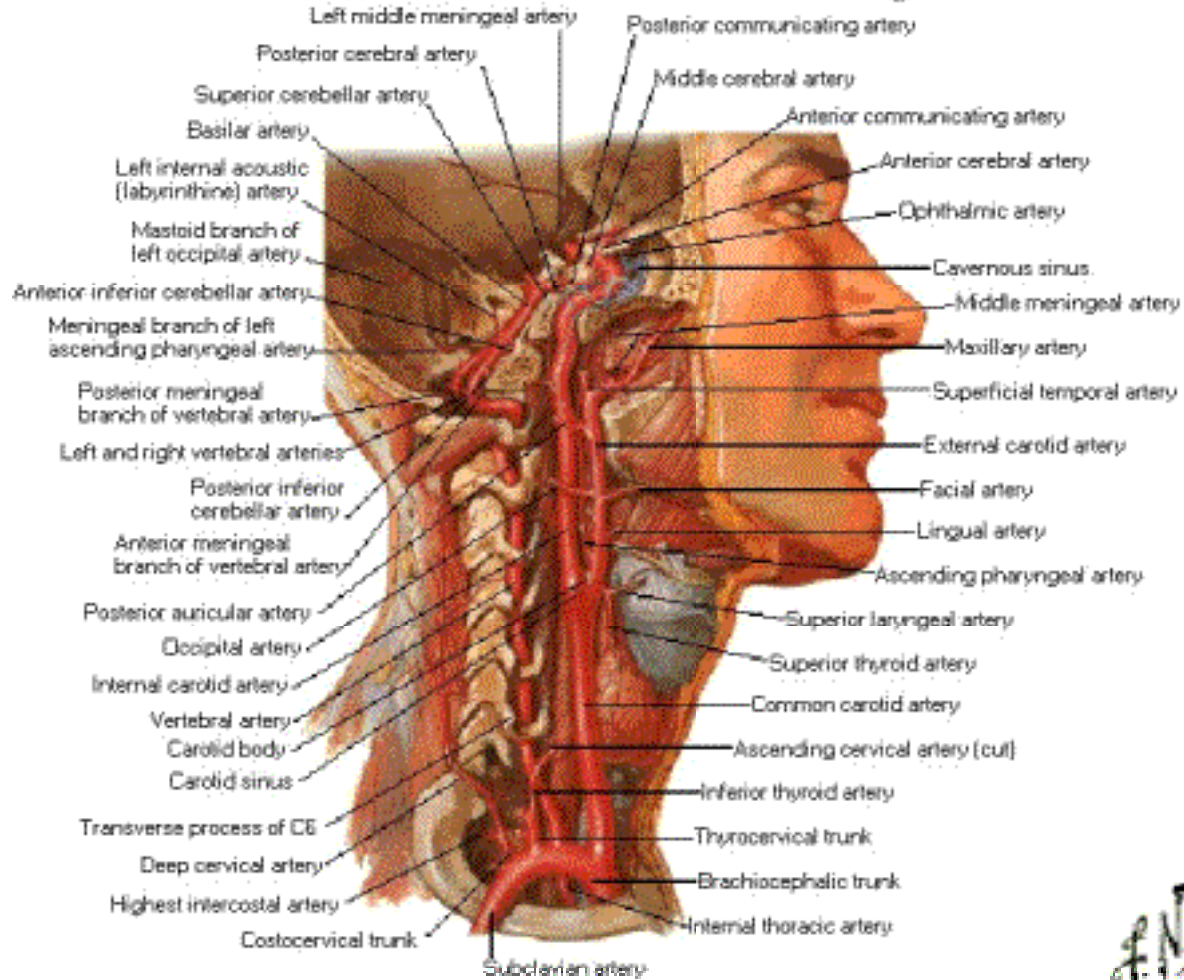
# Taste Pathways Schema

— Usual pathway  
 - - - Accessory pathway



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 © 1996

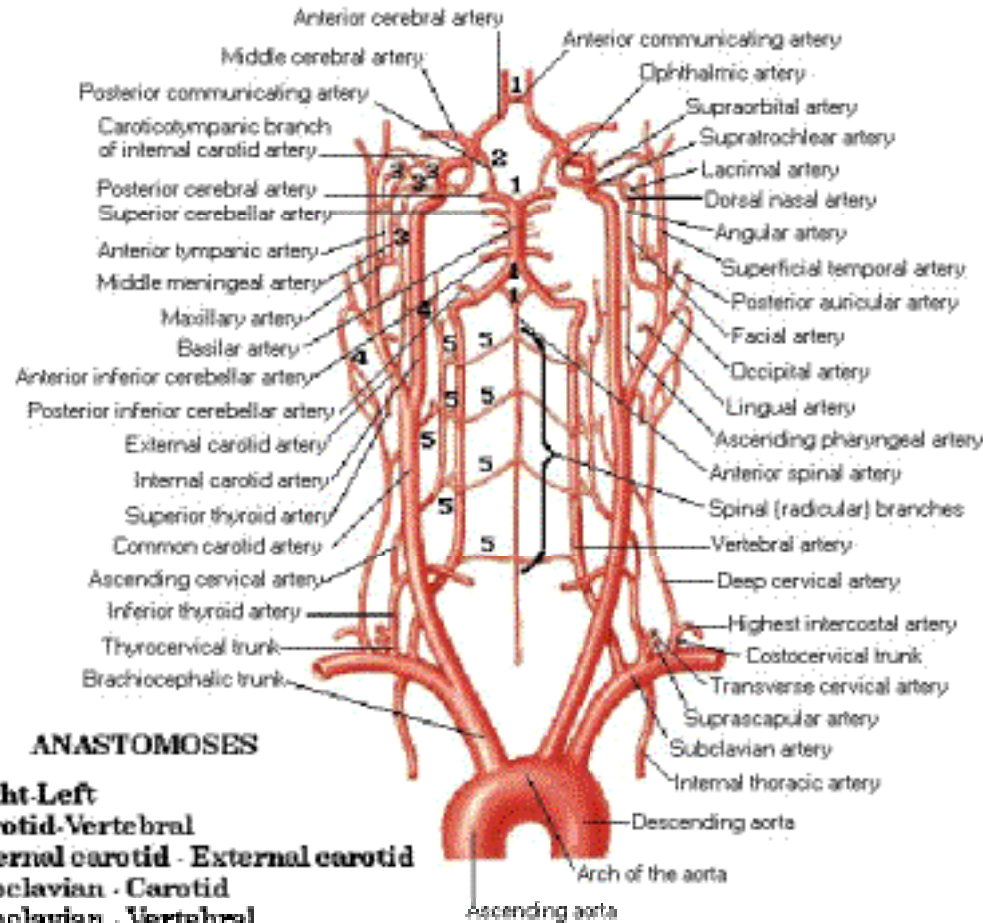
# Arteries to Brain and Meninges



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© 1974

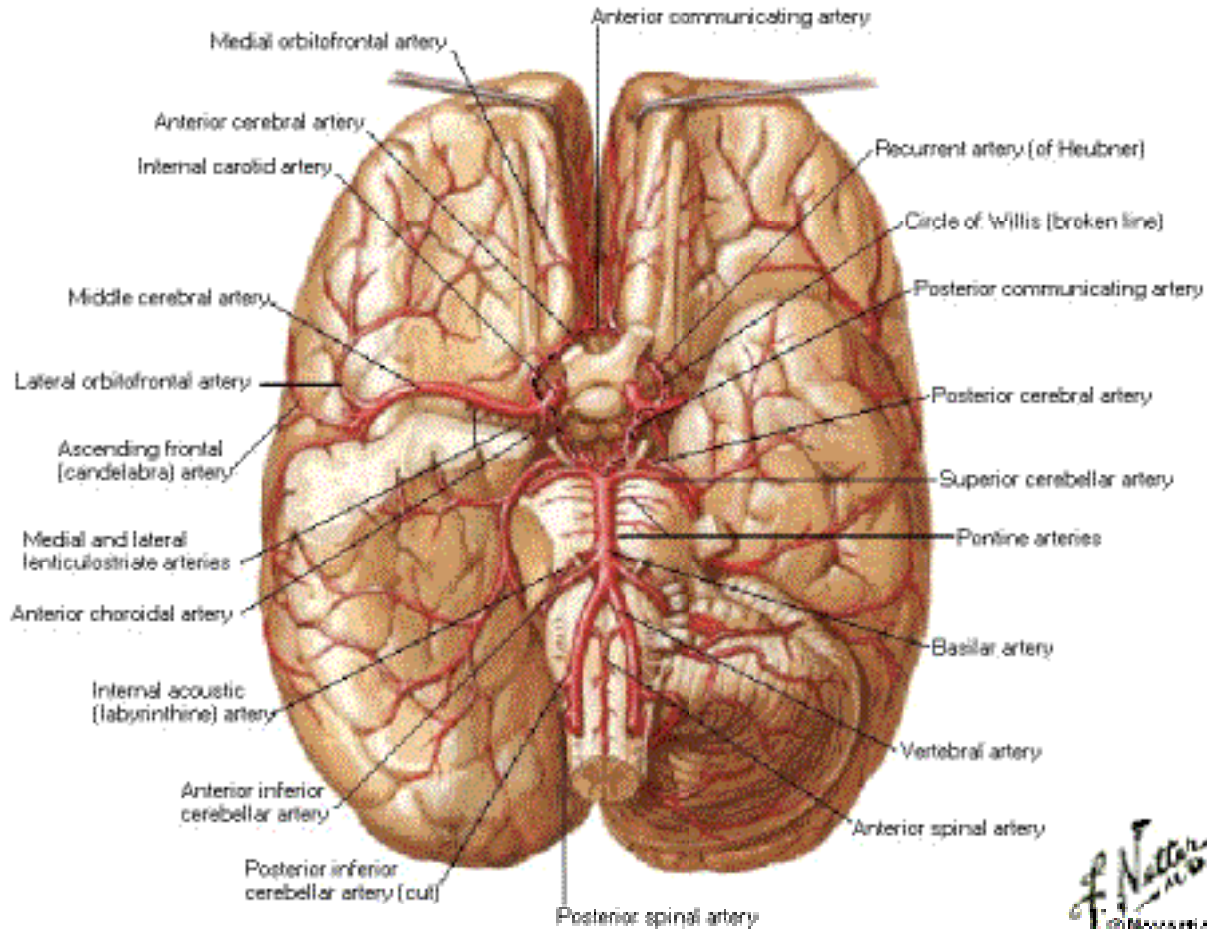


# Arteries to Brain Schema



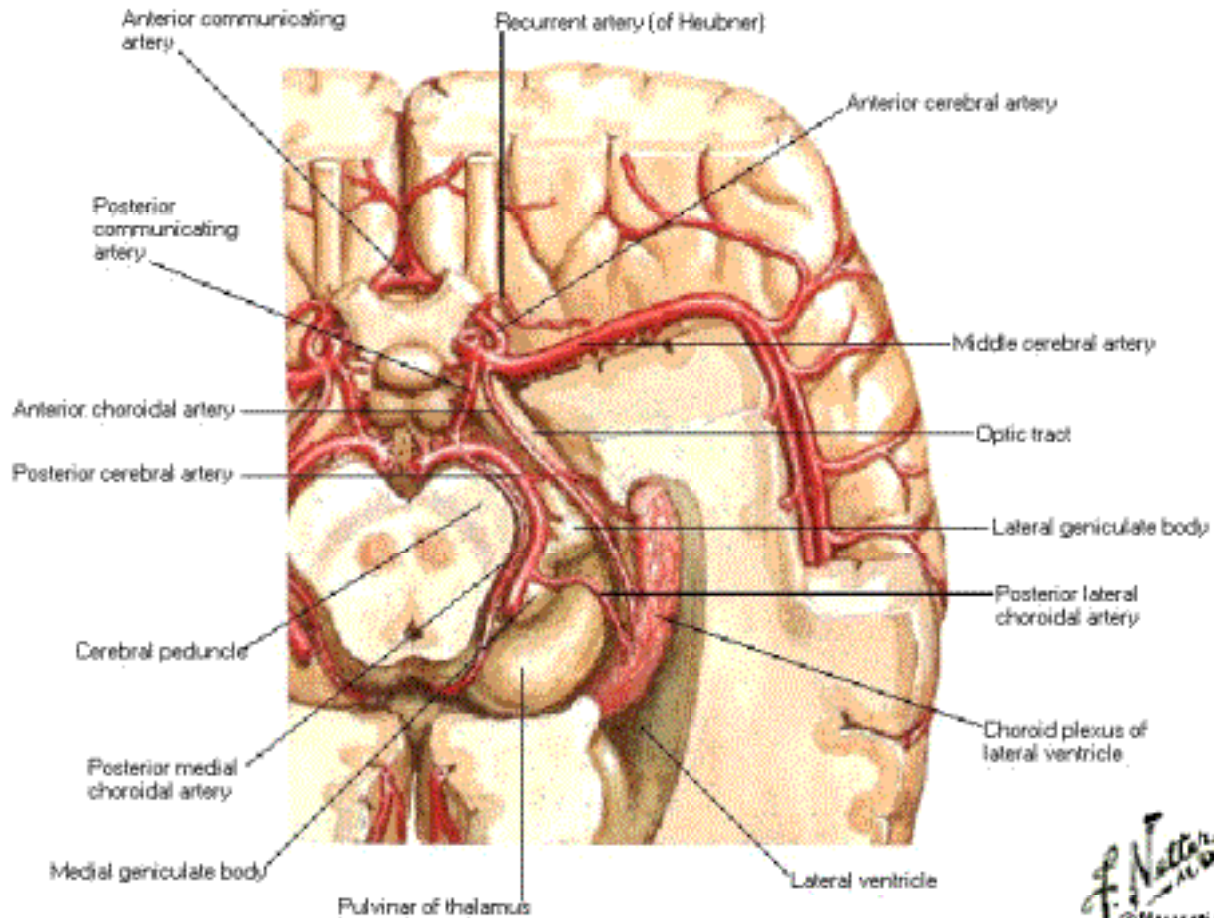
# Arteries of Brain

## Inferior View



# Arteries of Brain [Continued]

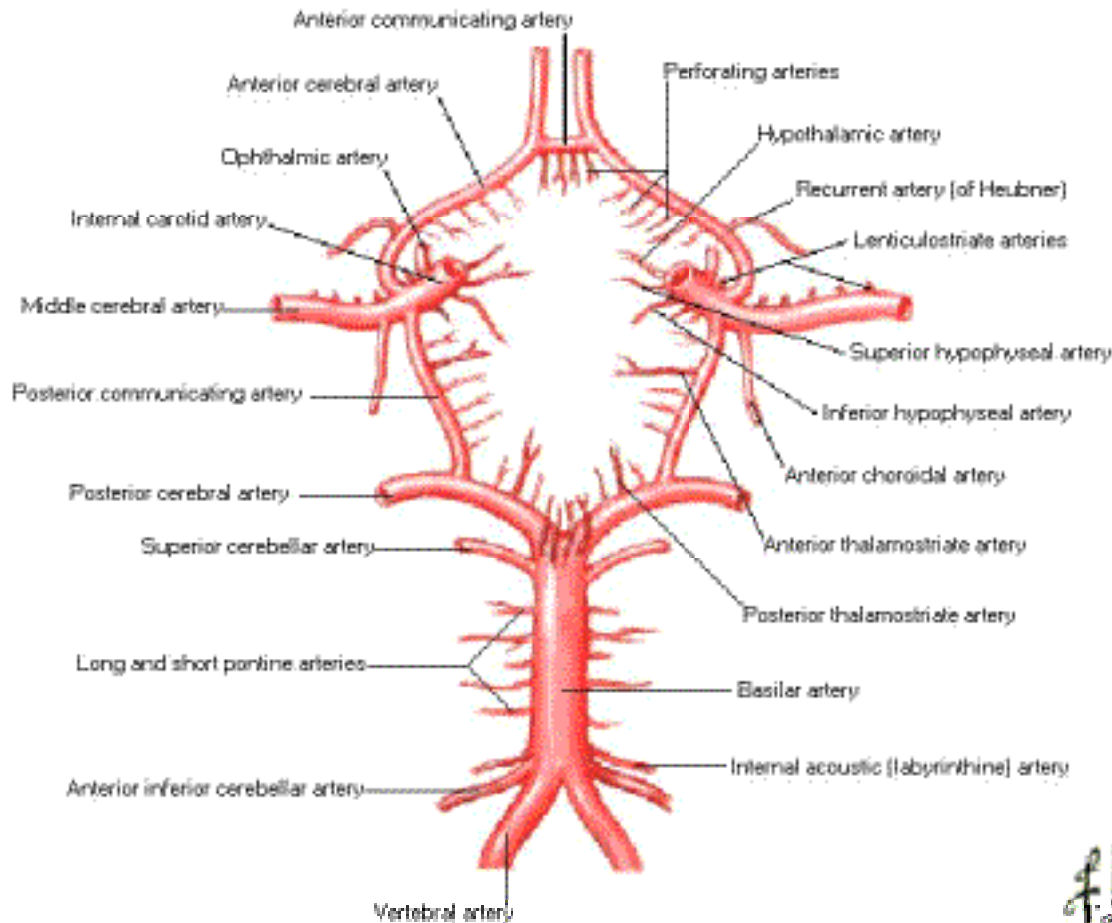
## Inferior View



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# Circle of Willis - Vessels Dissected Out

## Inferior View

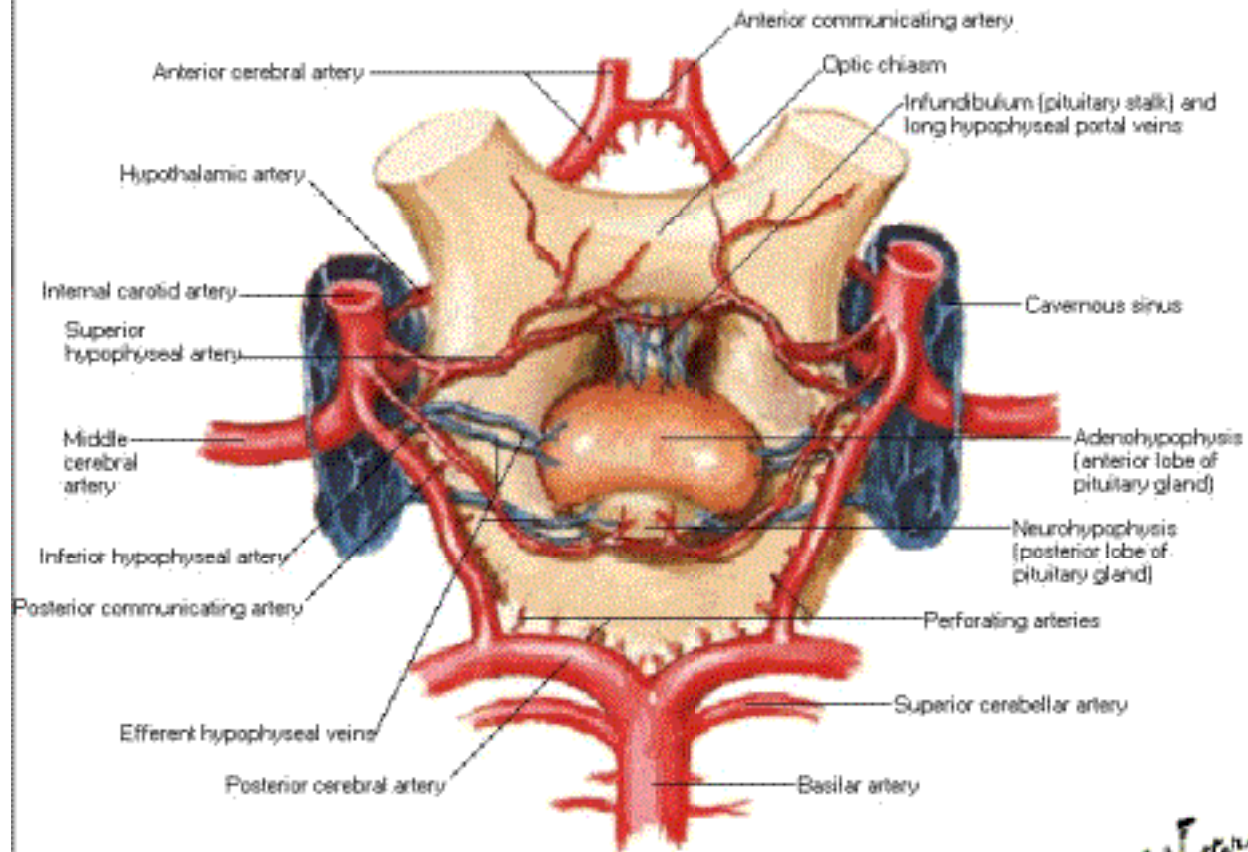


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# Circle of Willis - Vessels in Situ

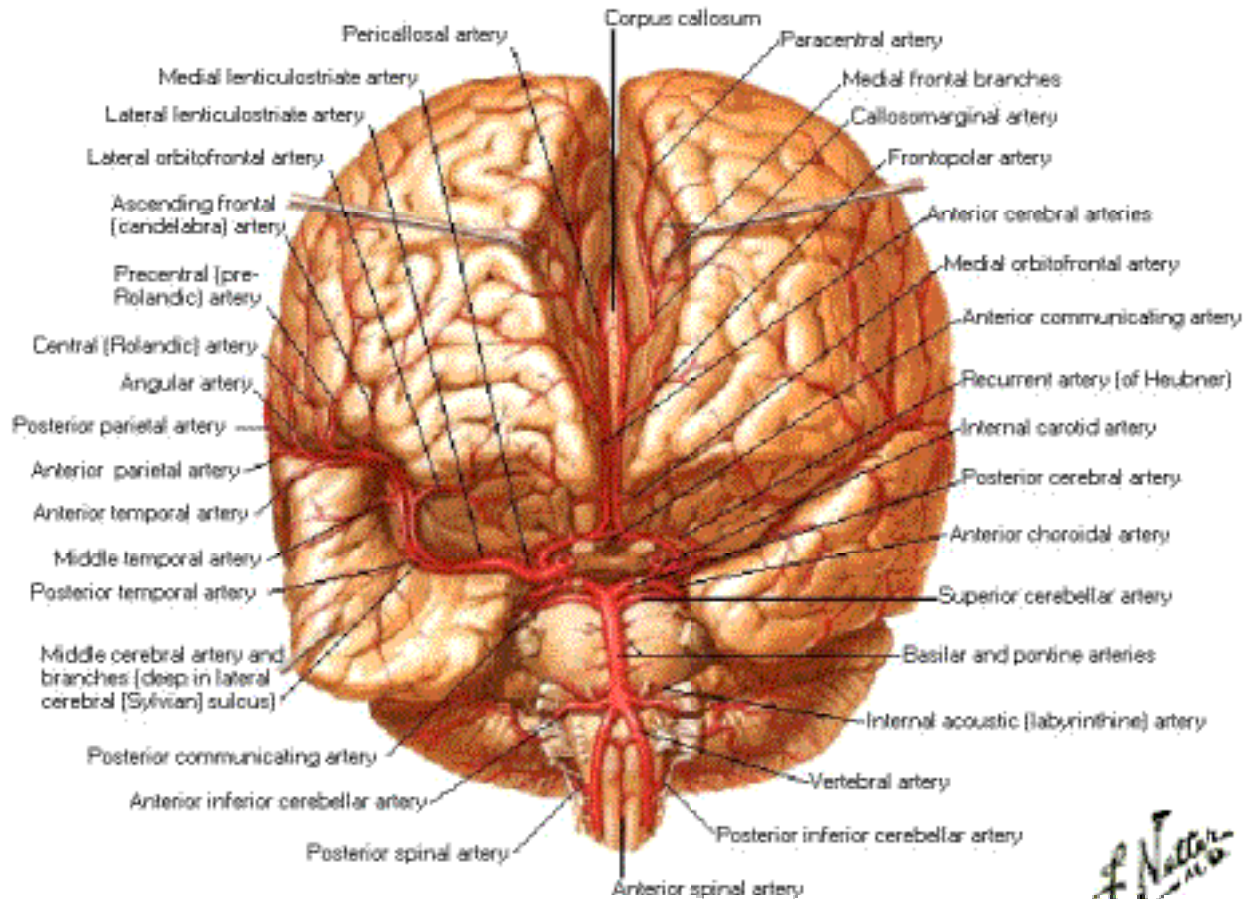
## Inferior View



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© 1989

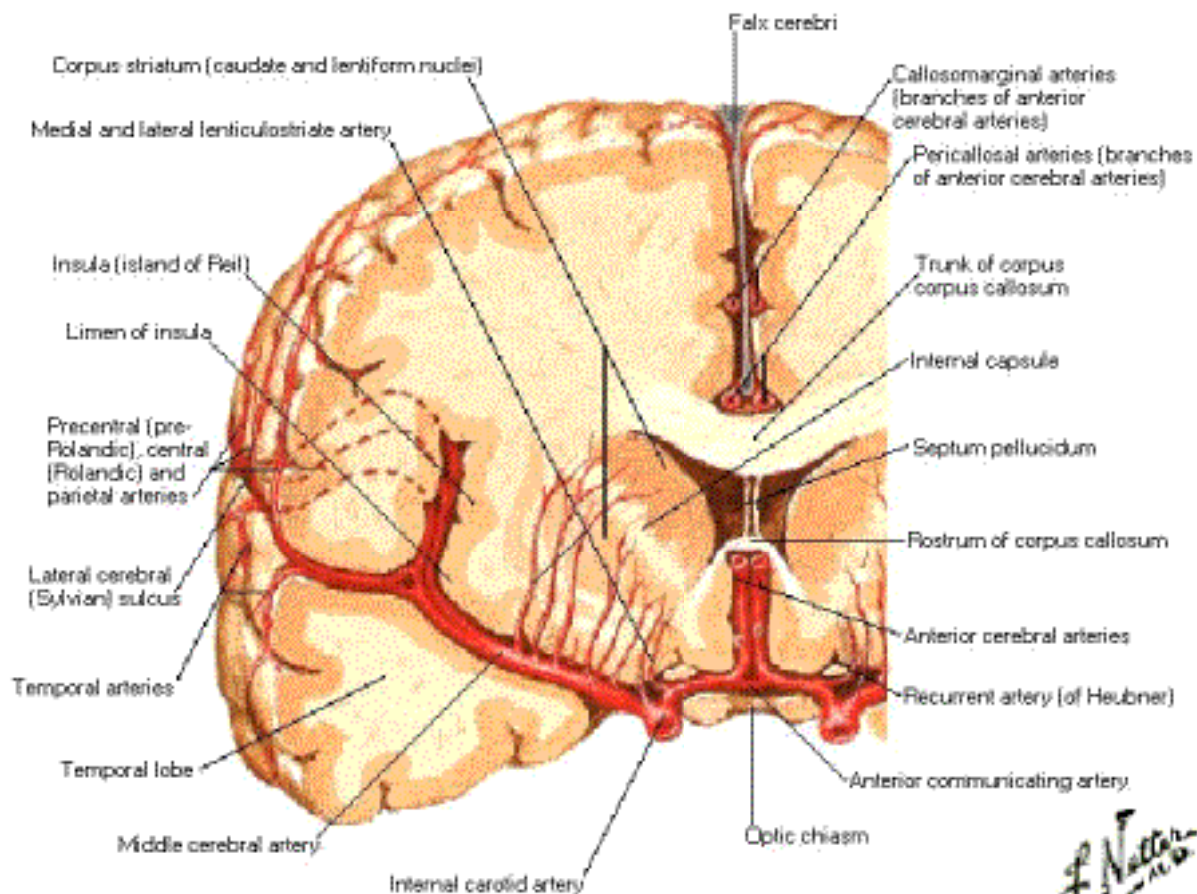
# Arteries of Brain

## Frontal View



# Arteries of Brain

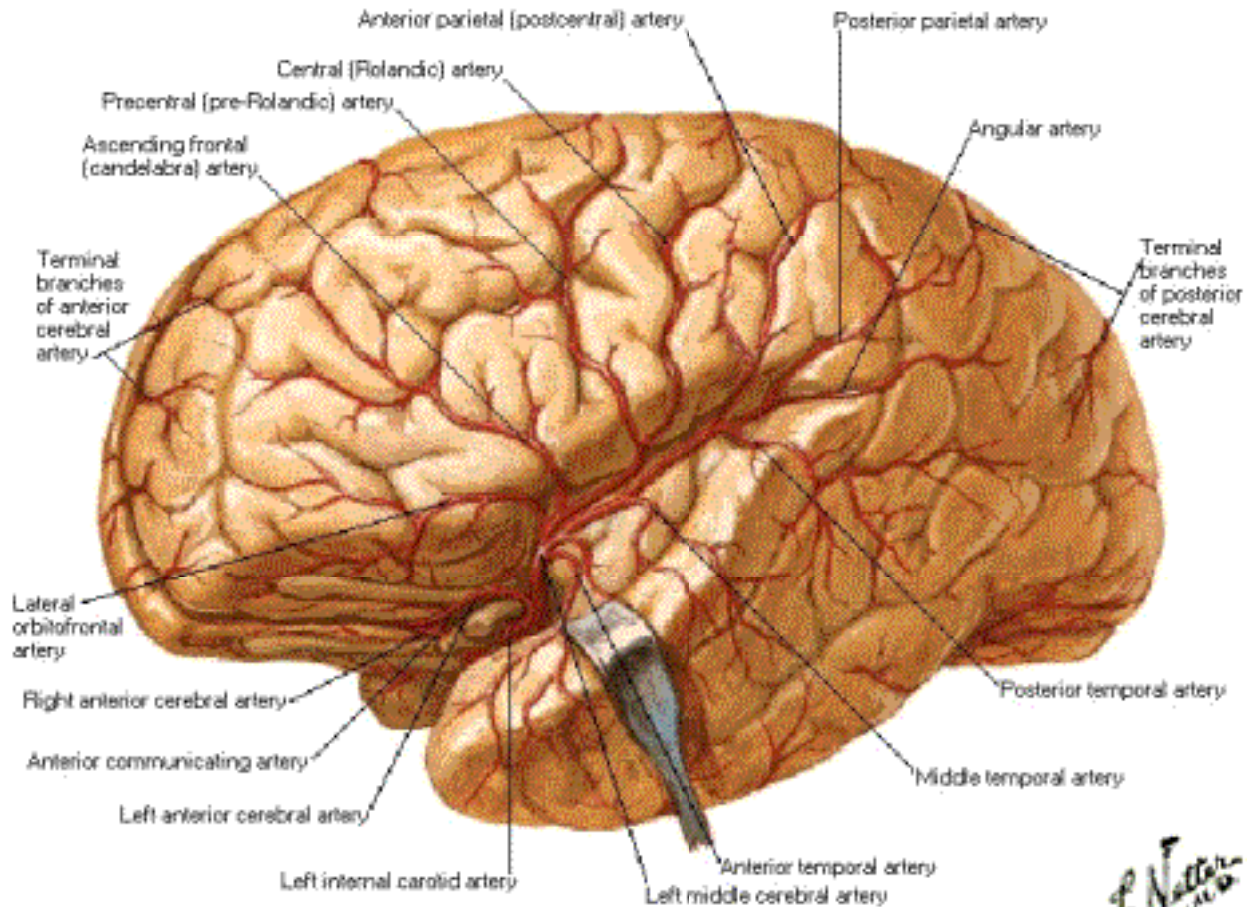
## Frontal Section



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© 1956

# Arteries of Brain

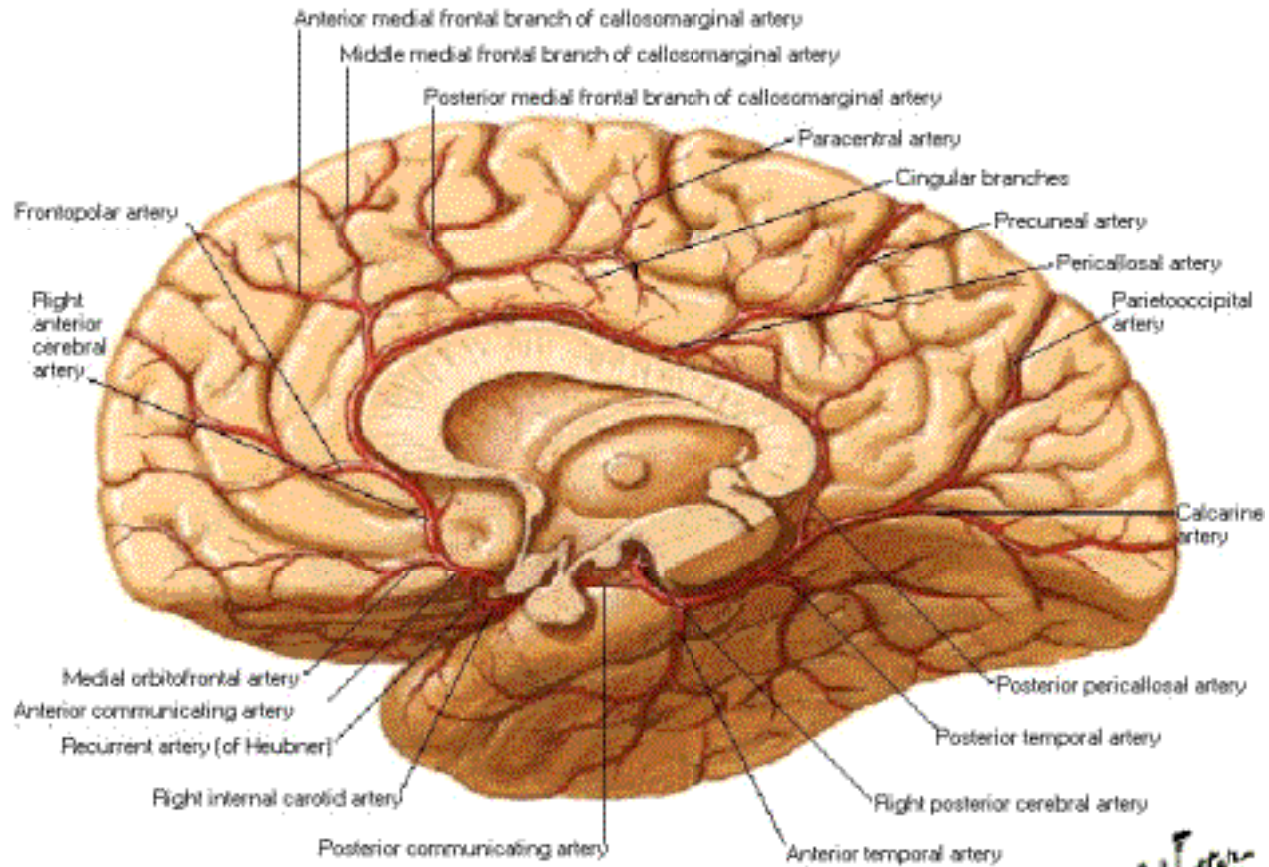
## Lateral View





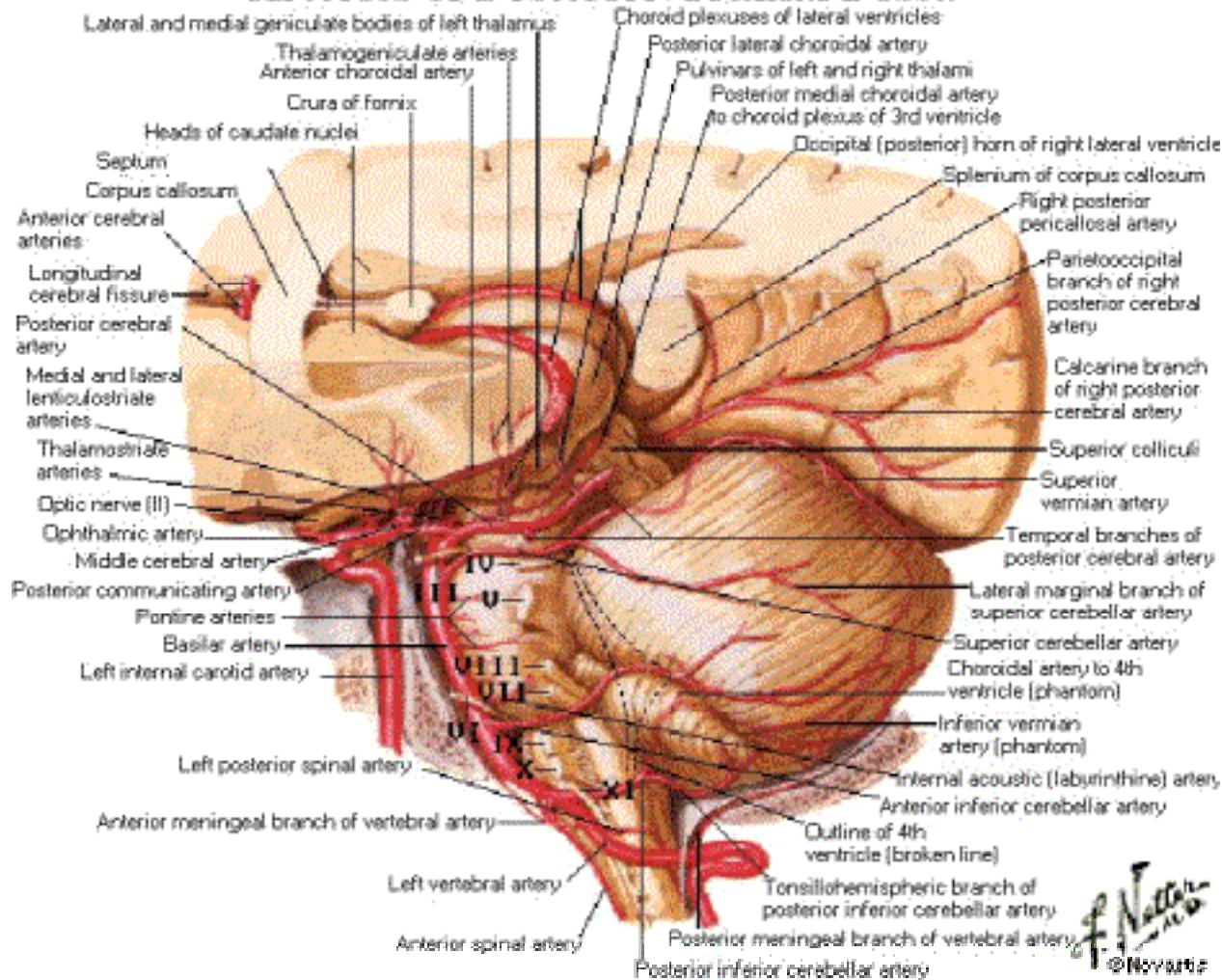
# Arteries of Brain

## Medial View



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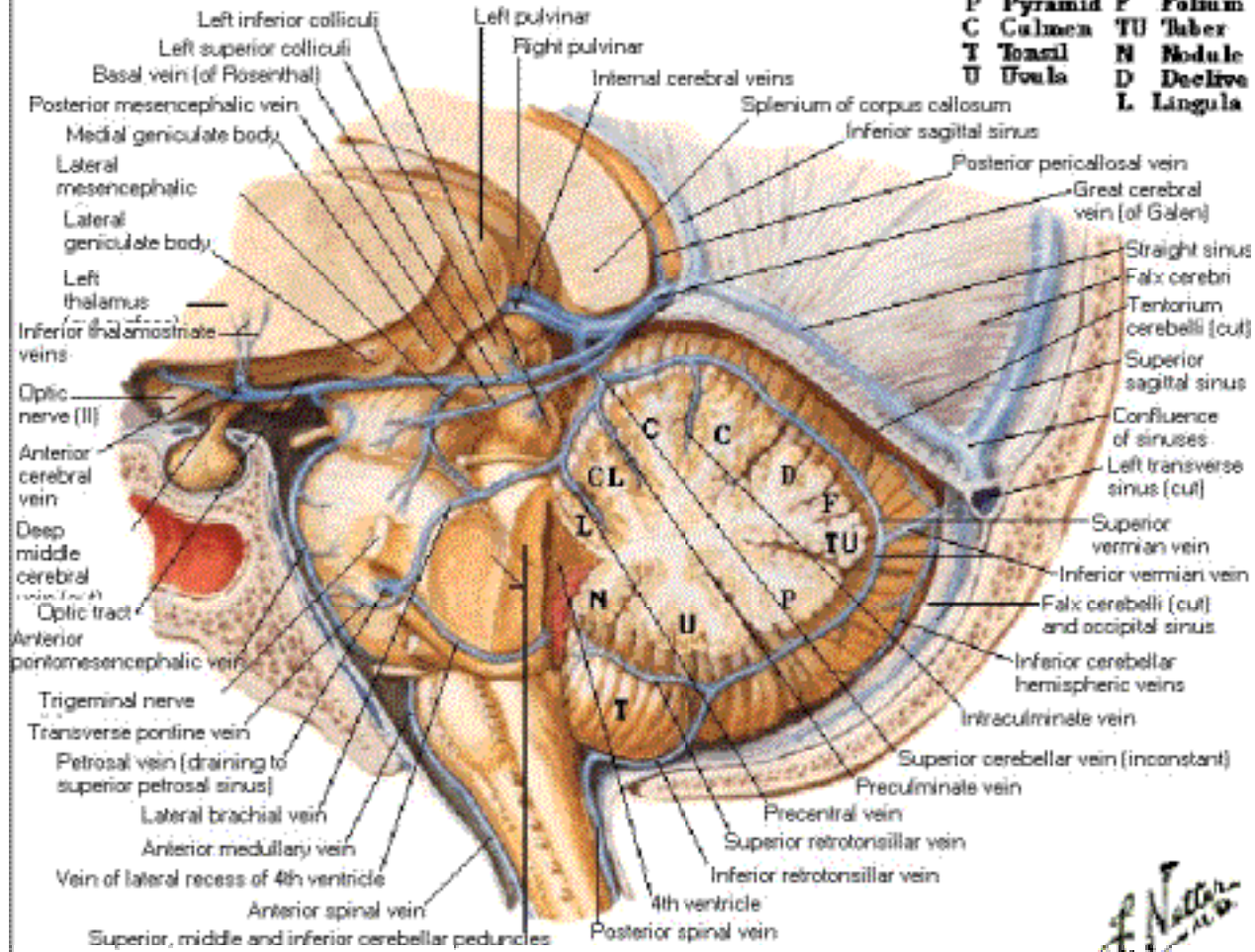
# Arteries of Posterior Cranial Fossa



# Veins of Posterior Cranial Fossa

## Parts of cerebellum

CL	Central lobule
P	Pyramid
C	Callosa
T	Tonsil
U	Uvula
F	Folium
TU	Taber
N	Nodule
D	Declive
L	Lingula

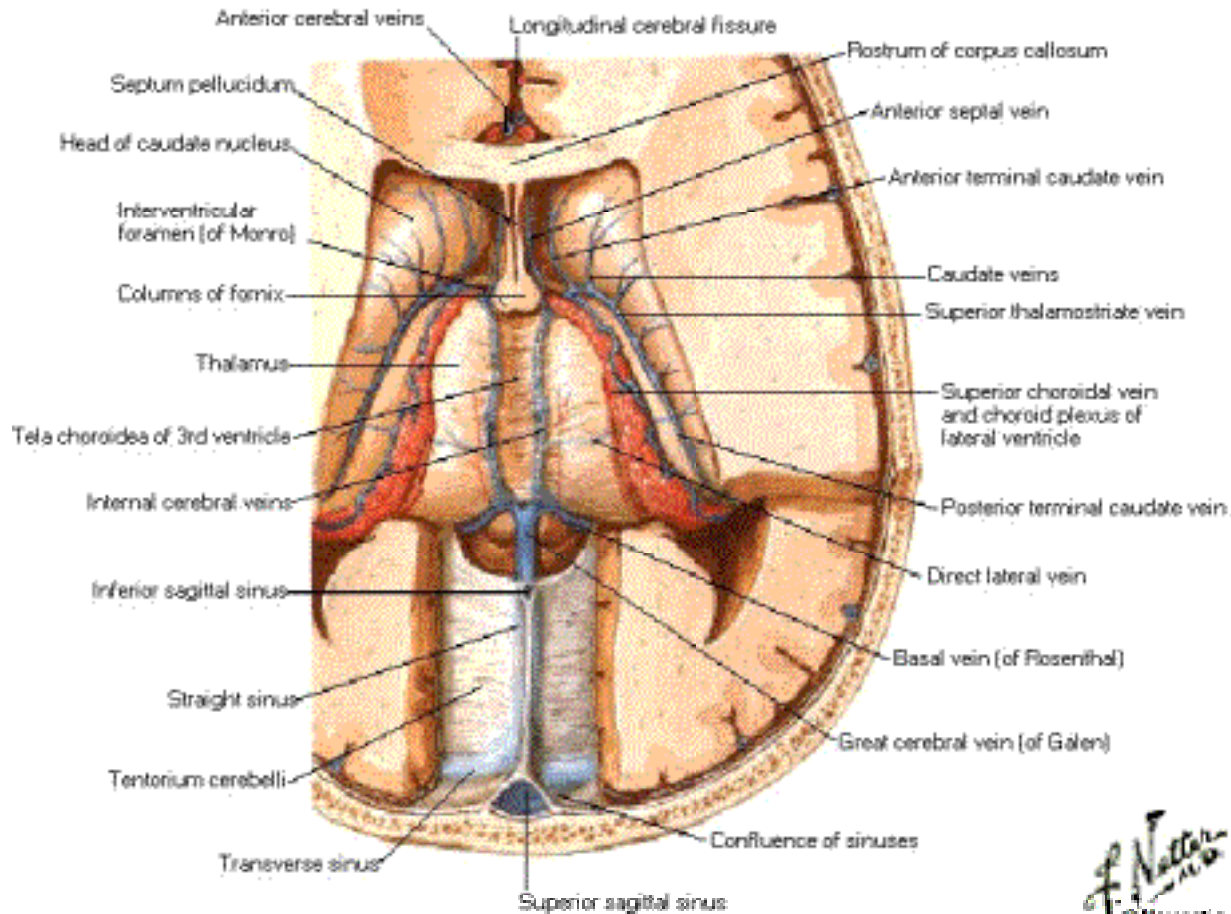


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# Deep Veins of Brain - Dissection

## Superior View

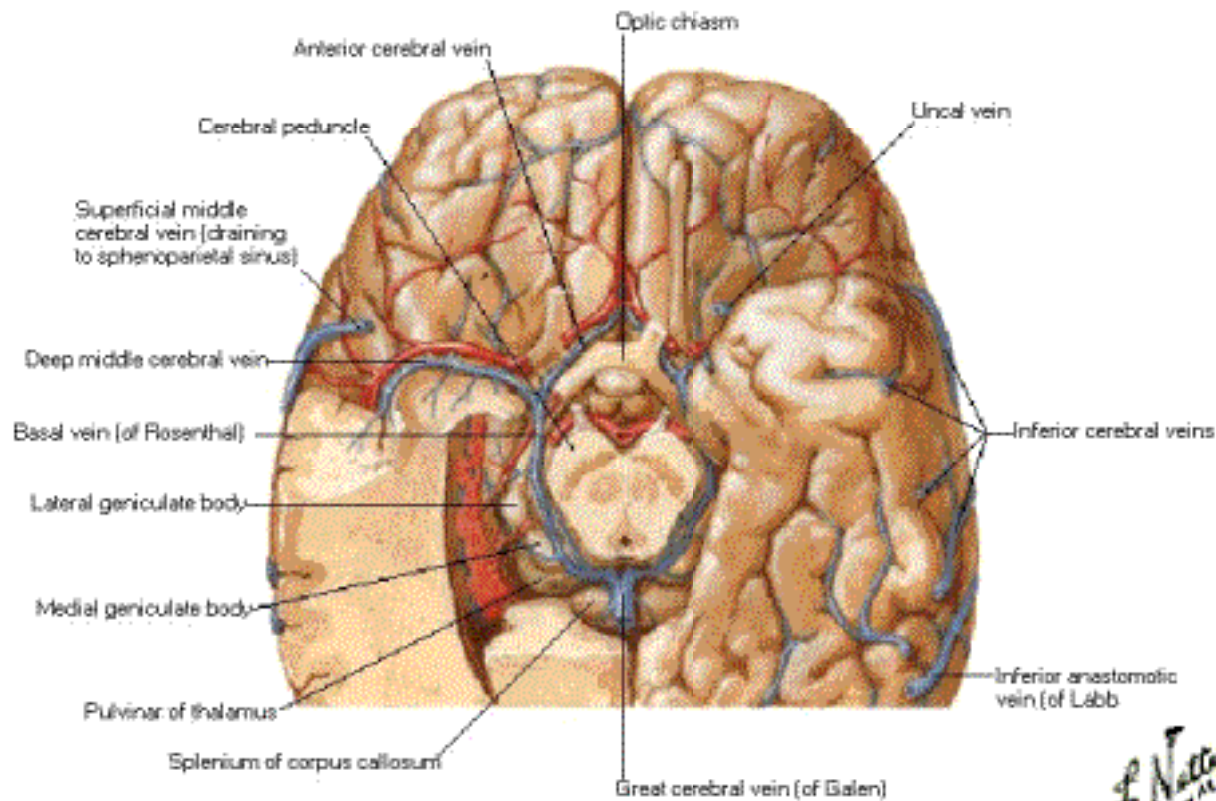


*F. Netter*  
M.D.  
© 1902



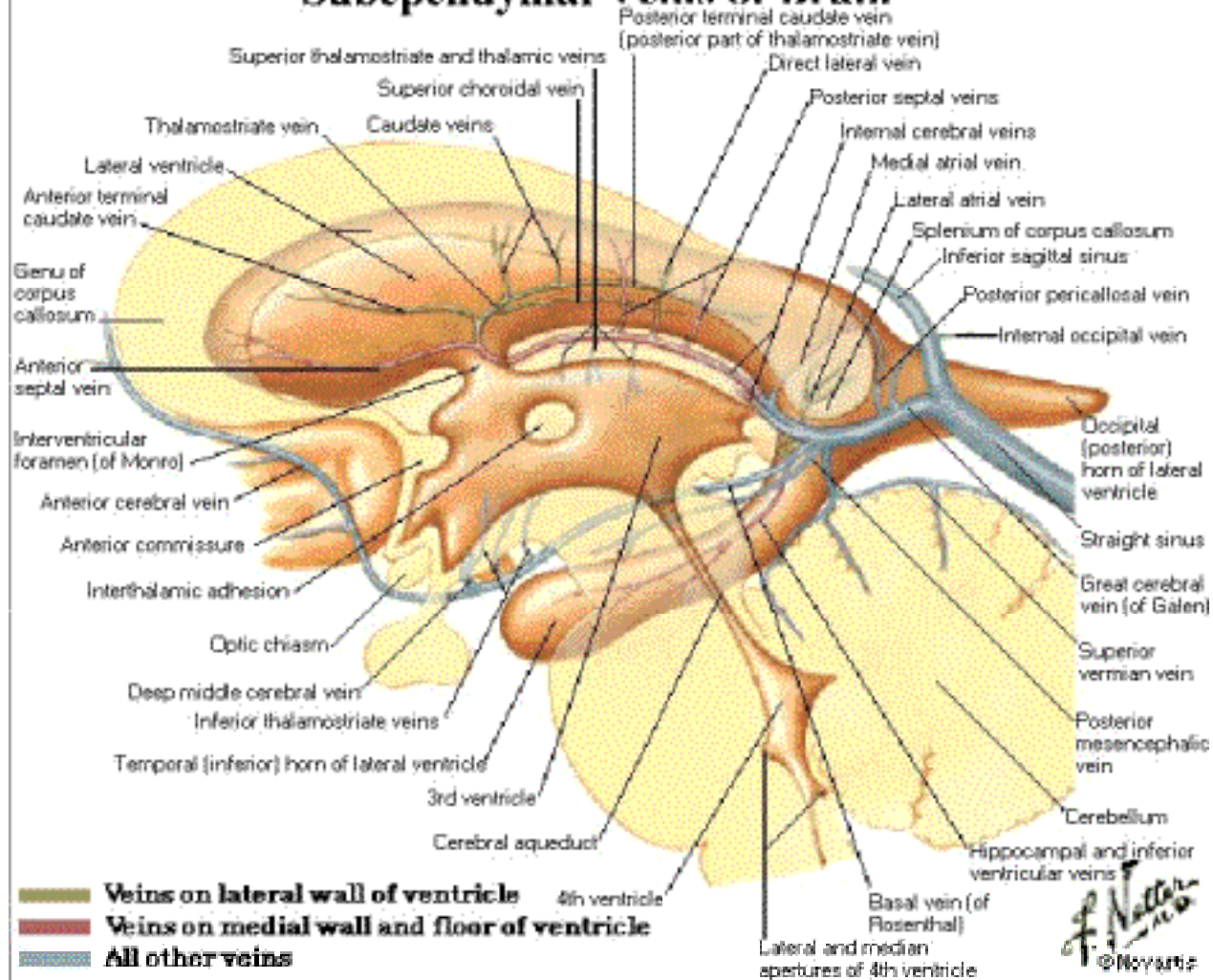
# Deep Veins of Brain - Dissection

## Inferior View

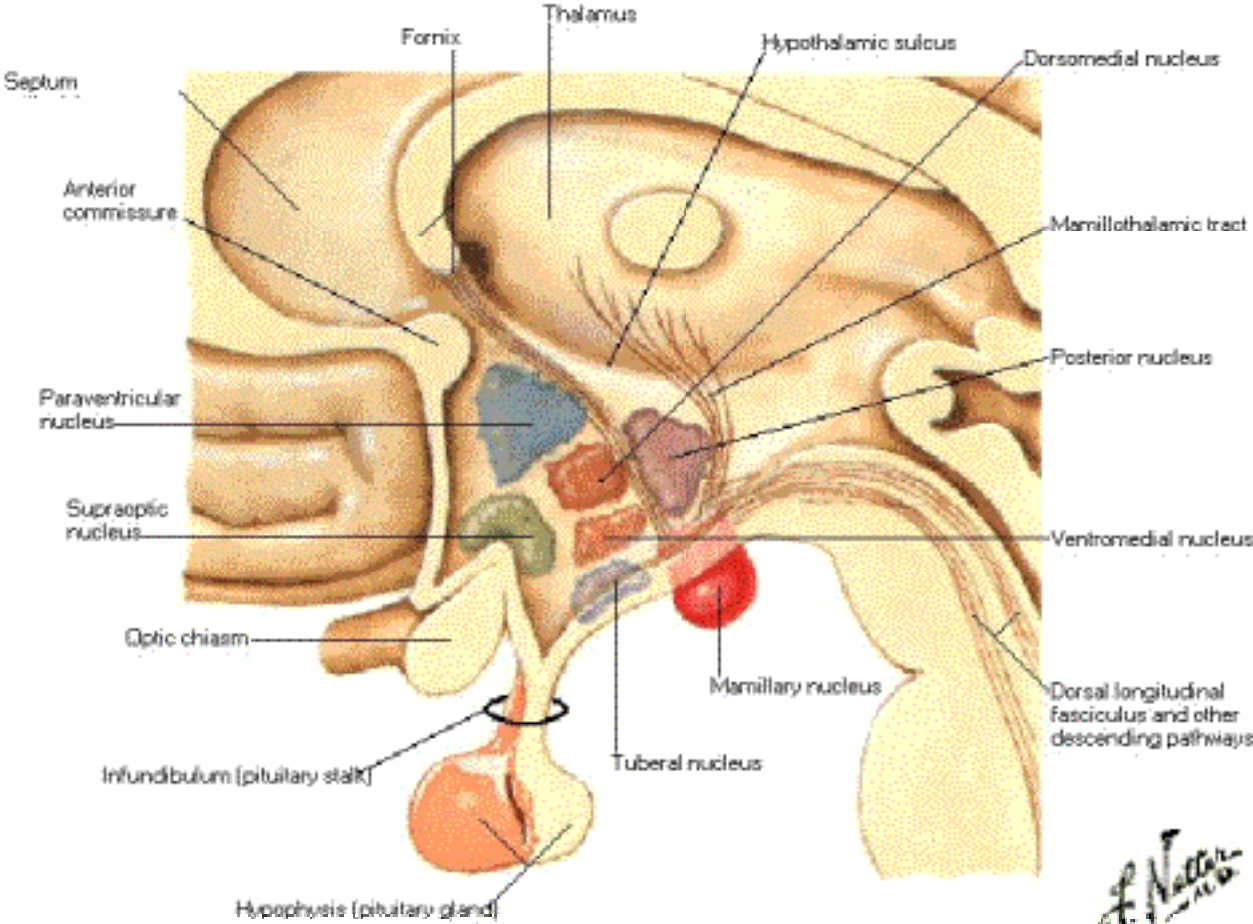


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# Subependymal Veins of Brain

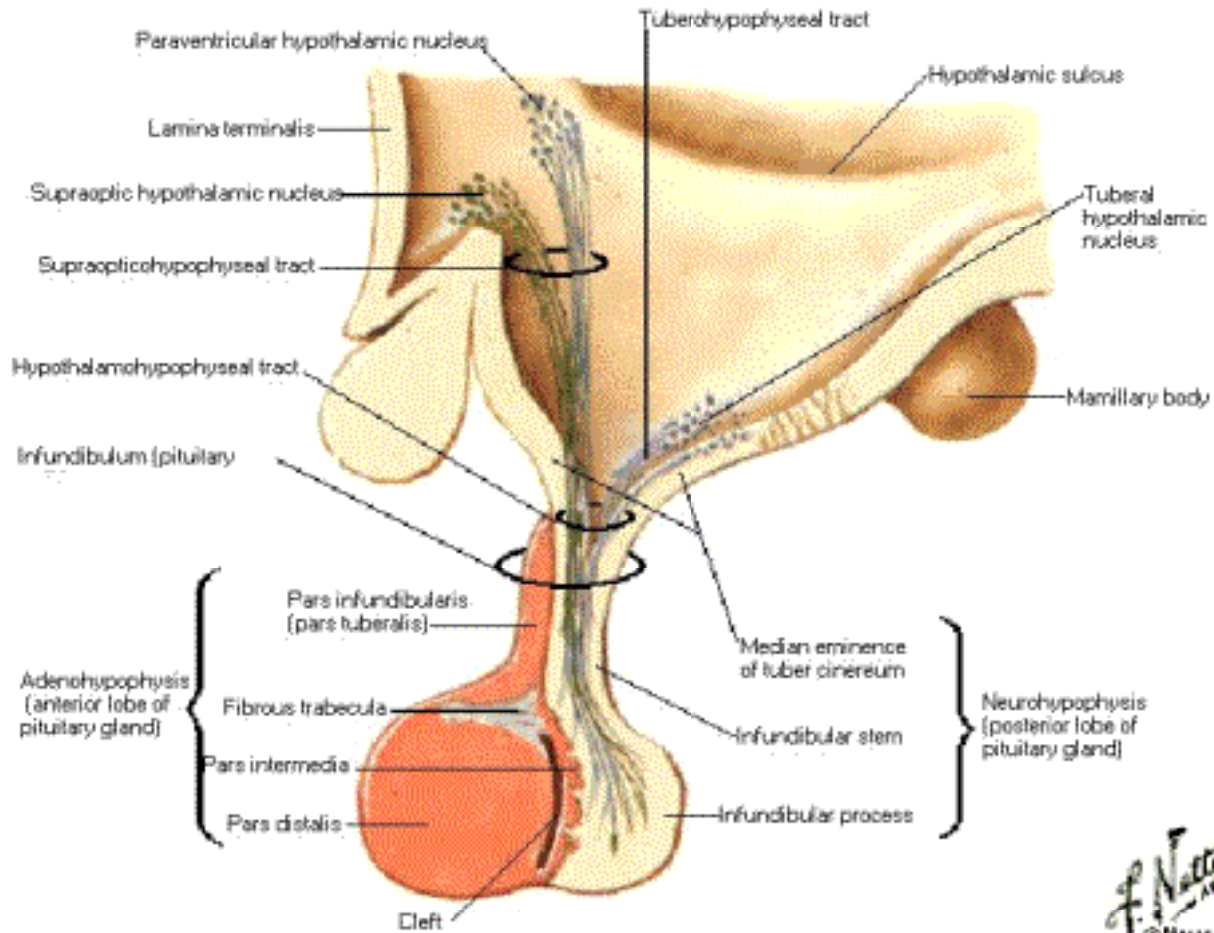


# Hypothalamus - Principal Nuclei



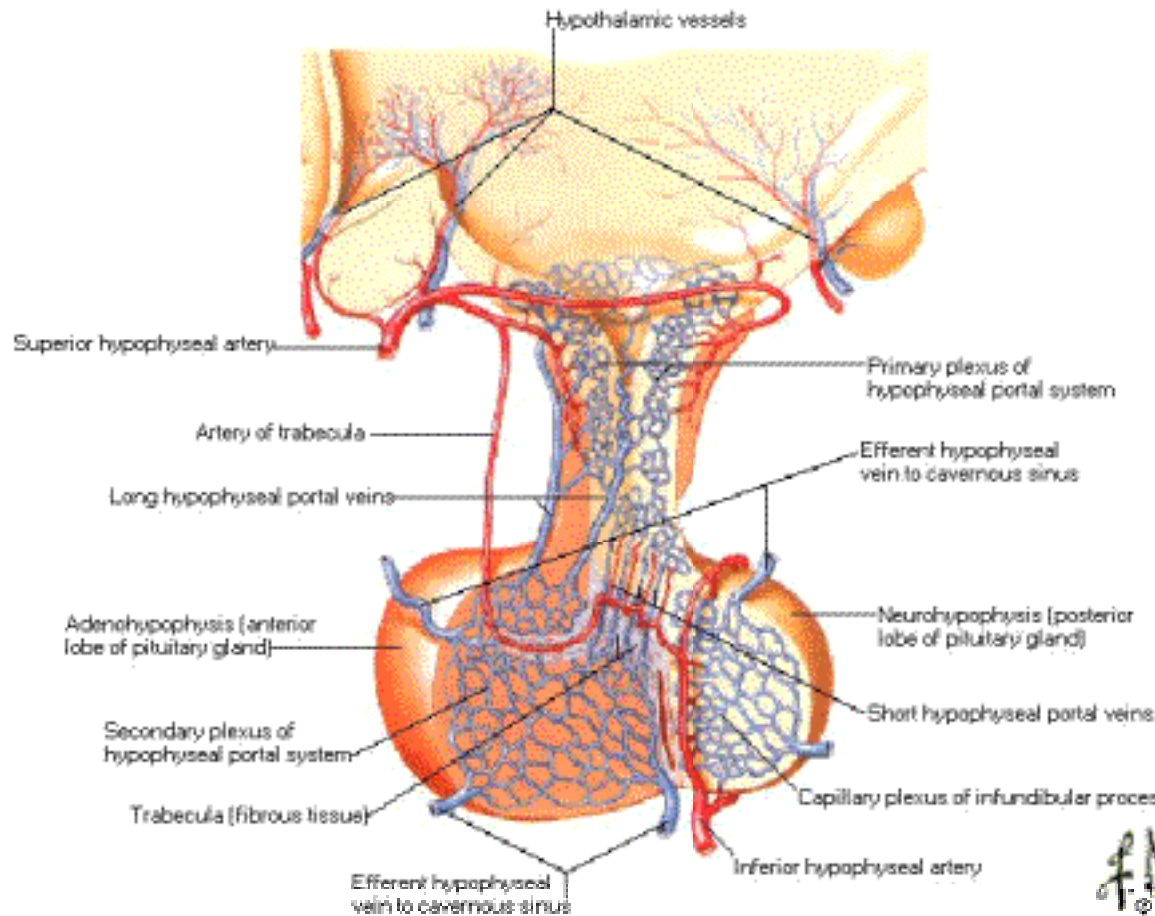
F. Netter  
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# Adenohypophysis and Neurohypophysis



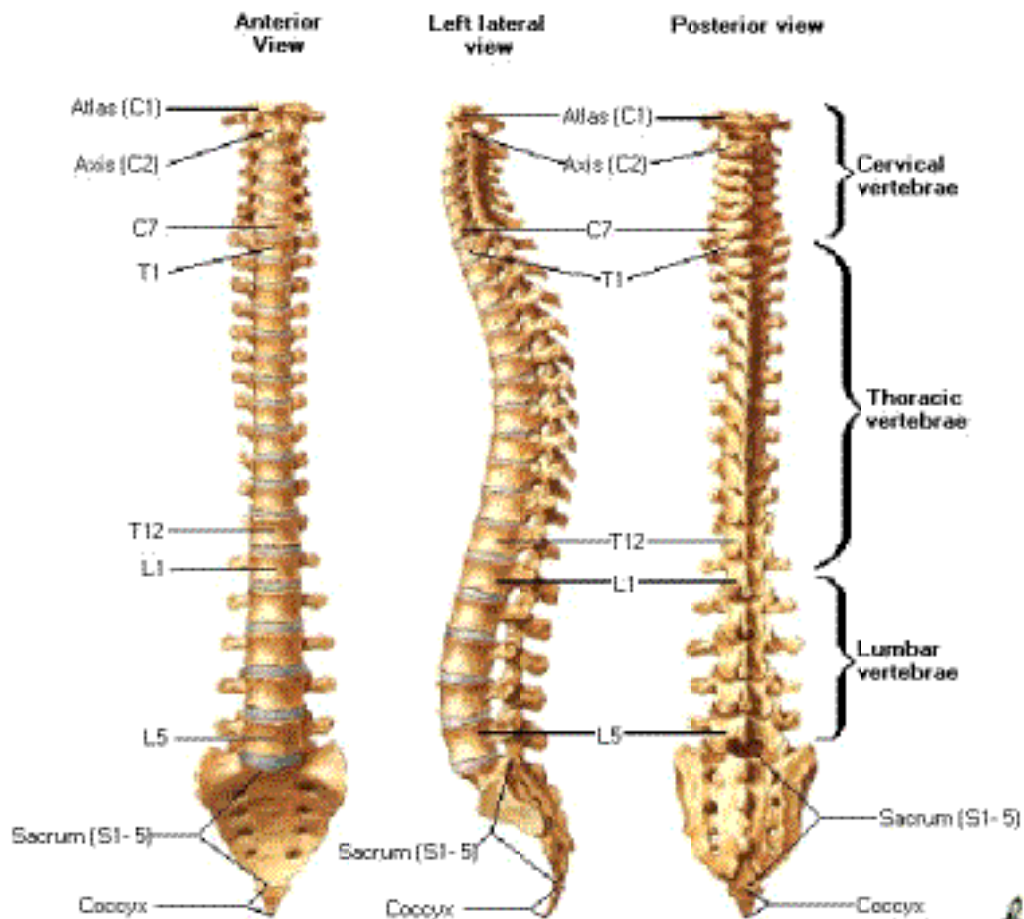


# Arteries and Veins of Hypothalamus and Hypophysis



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M.D.  
© 1996

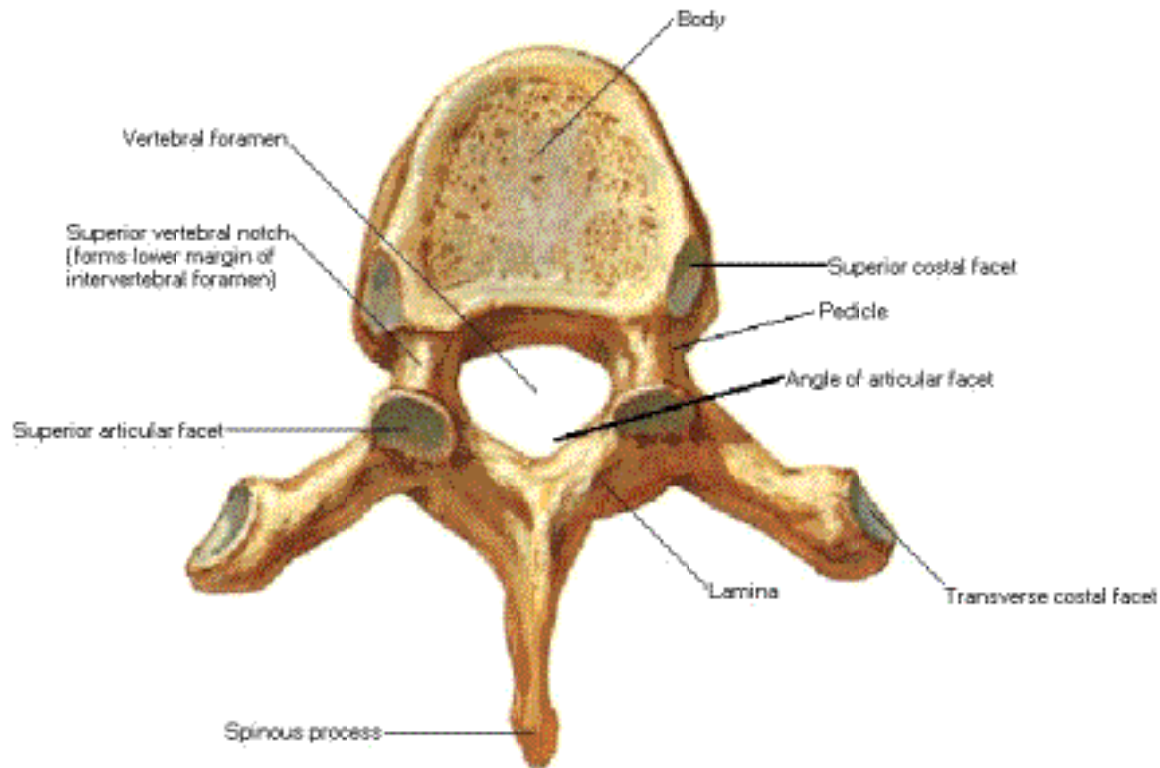
# Vertebral Column



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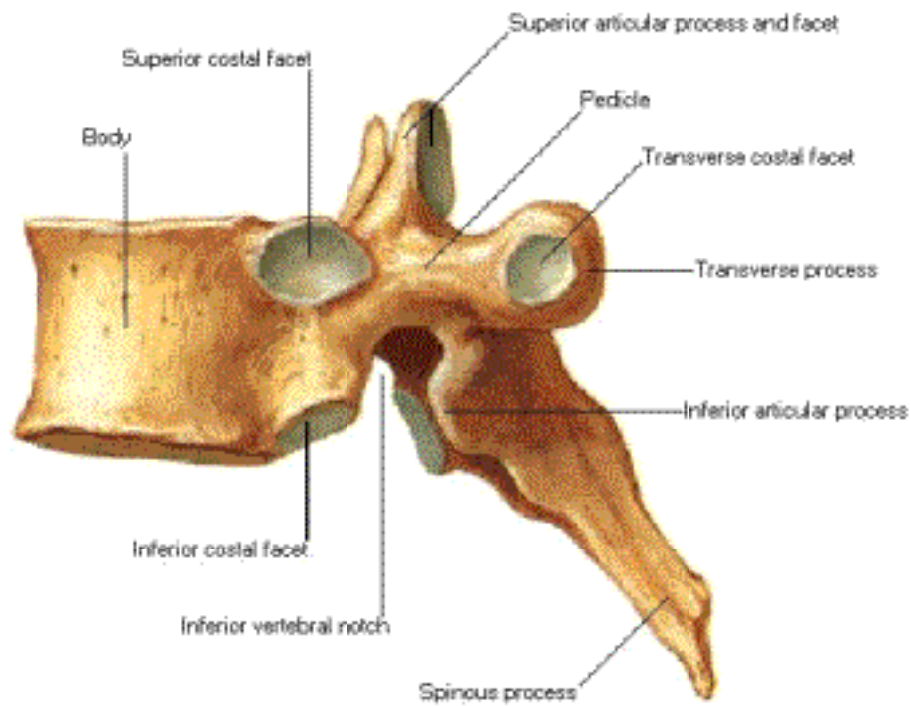
# Thoracic Vertebrae [T6]

## Superior View



# Thoracic Vertebrae [T6]

## Lateral View

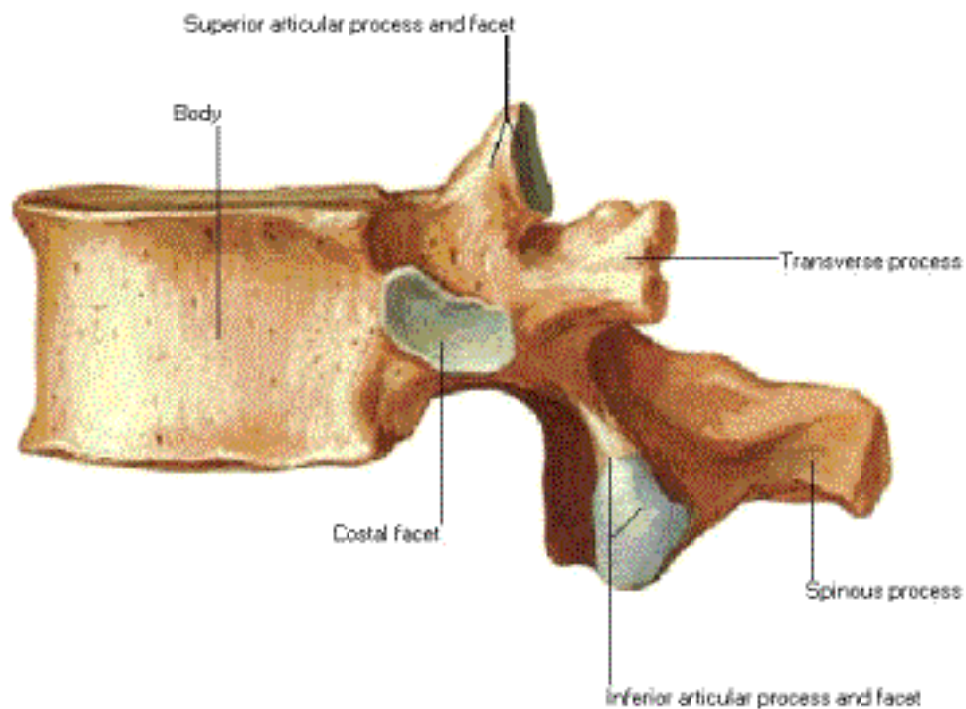


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© Netter



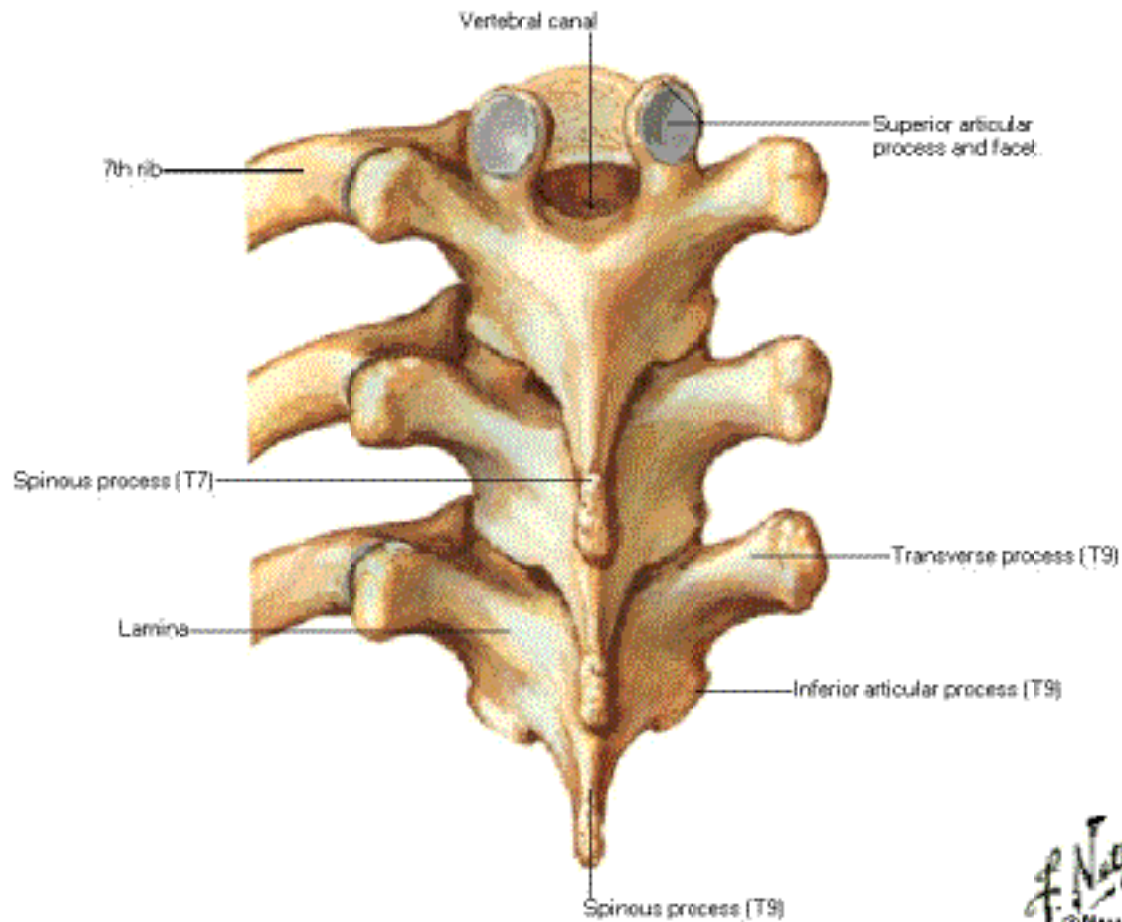
# Thoracic Vertebrae [T12]

## Lateral View

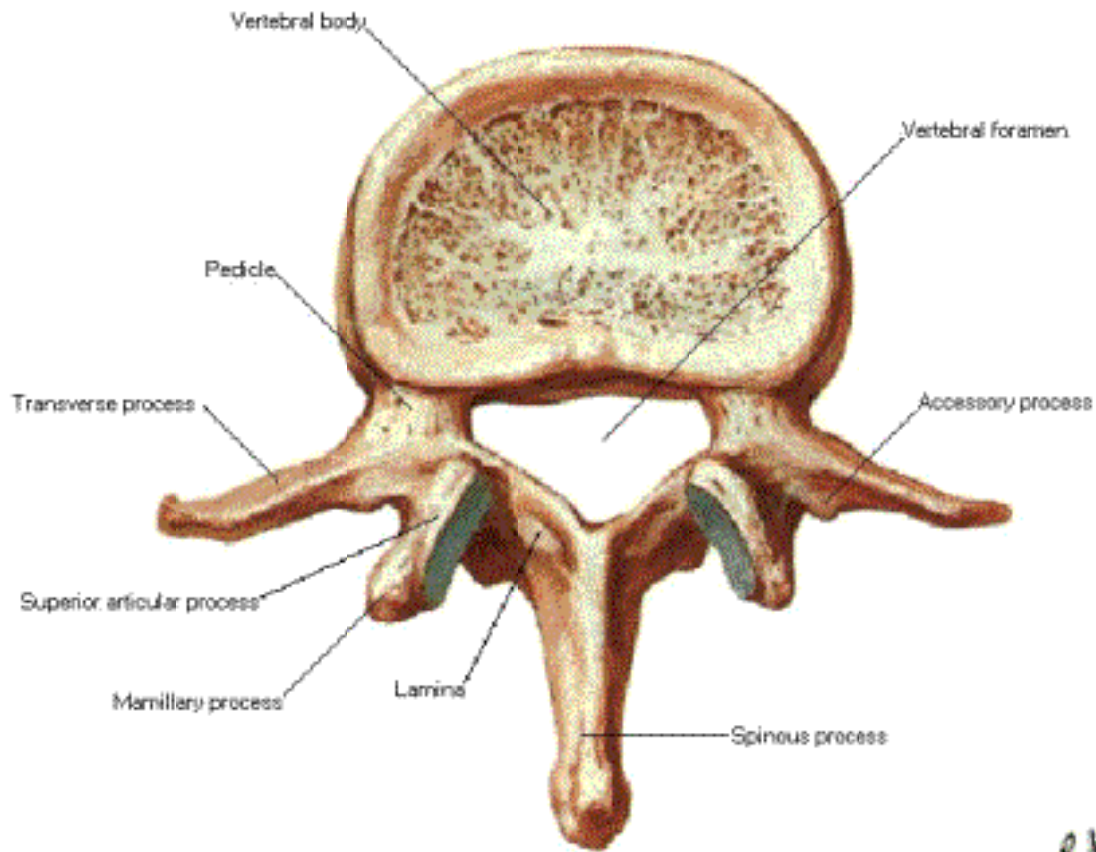


# Thoracic Vertebrae [T7-T9] - Assembled

## Posterior View

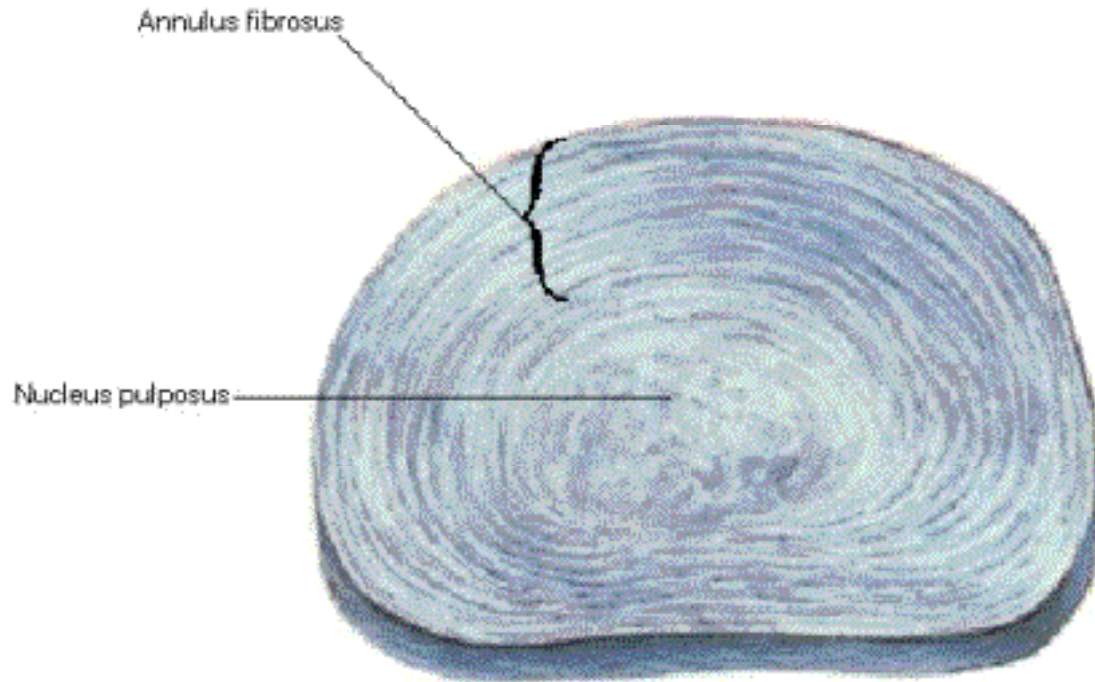


# Lumbar Vertebrae [L2] Superior View



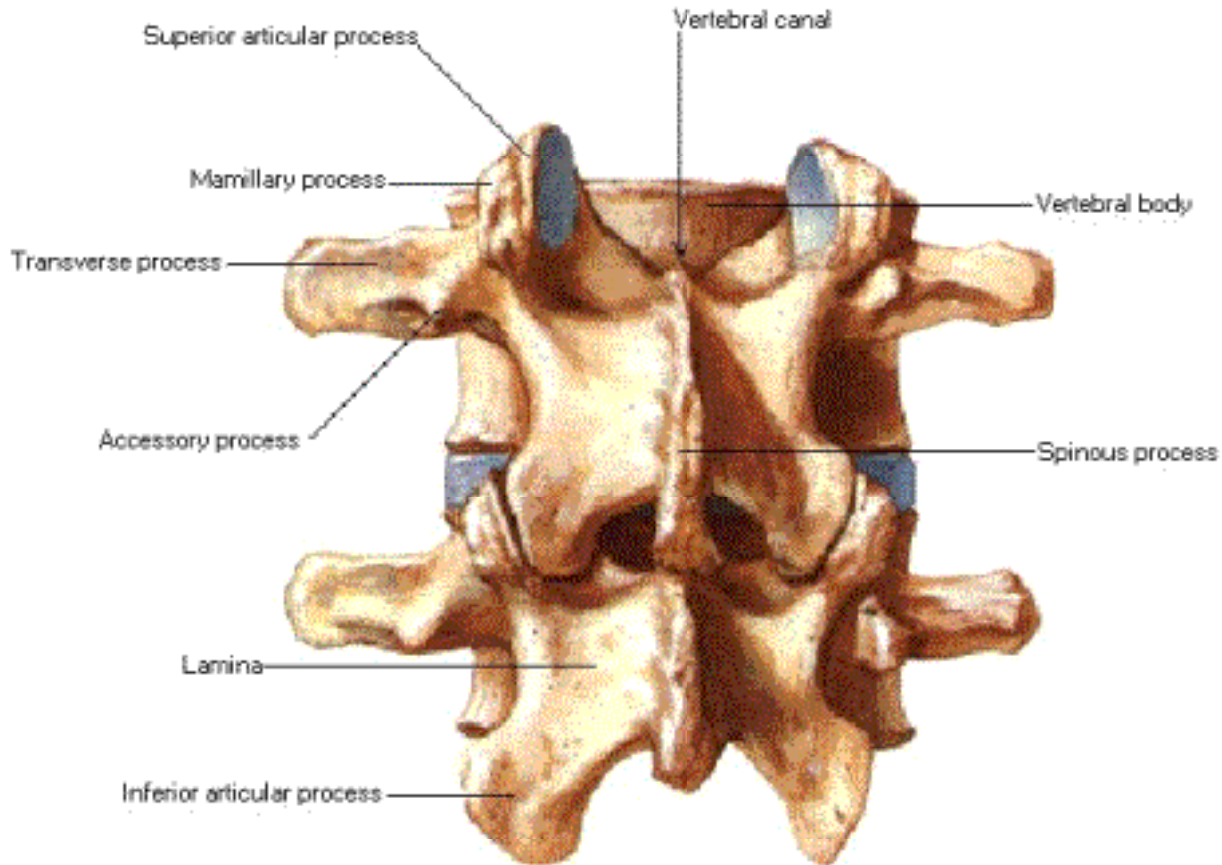
# Lumbar Vertebrae

## Intervertebral Disc



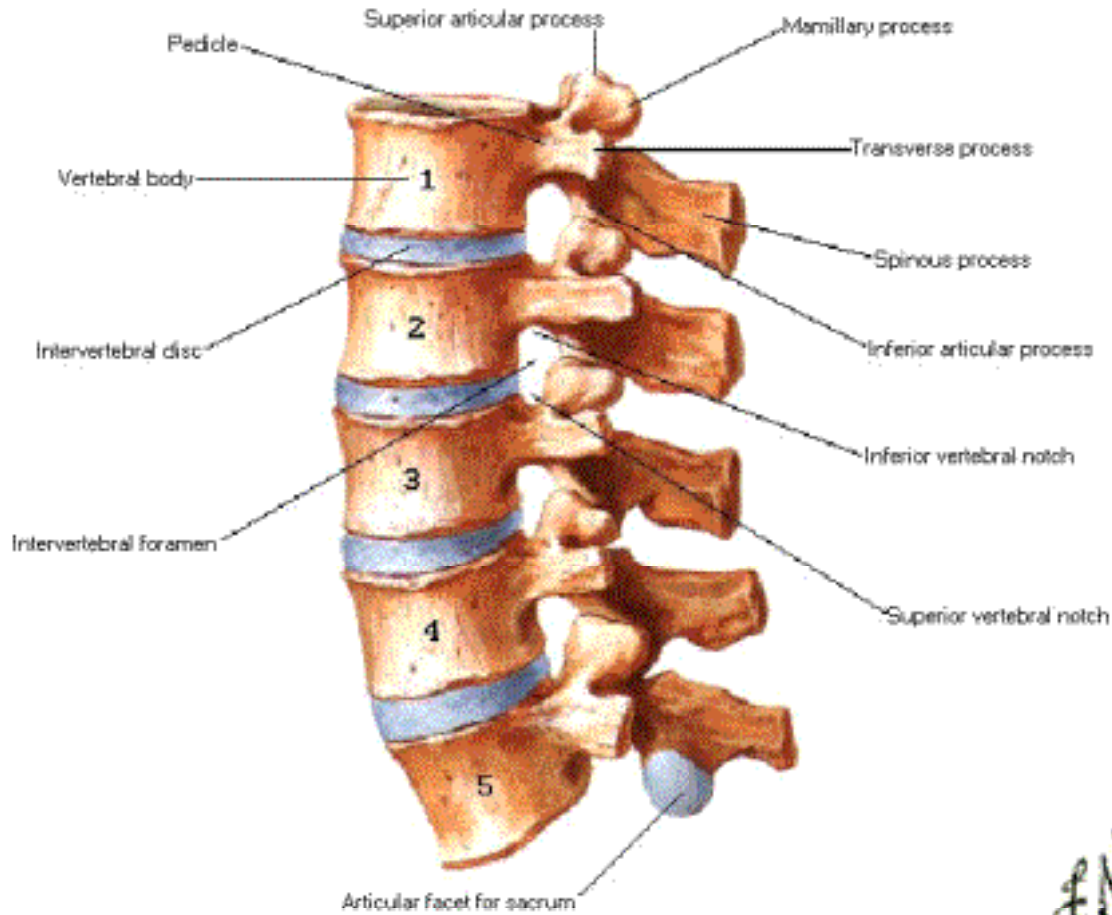


## Lumbar Vertebrae [L3-L4] - Assembled Posterior View



# Lumbar Vertebrae [L1-L5] - Assembled

## Left Lateral View

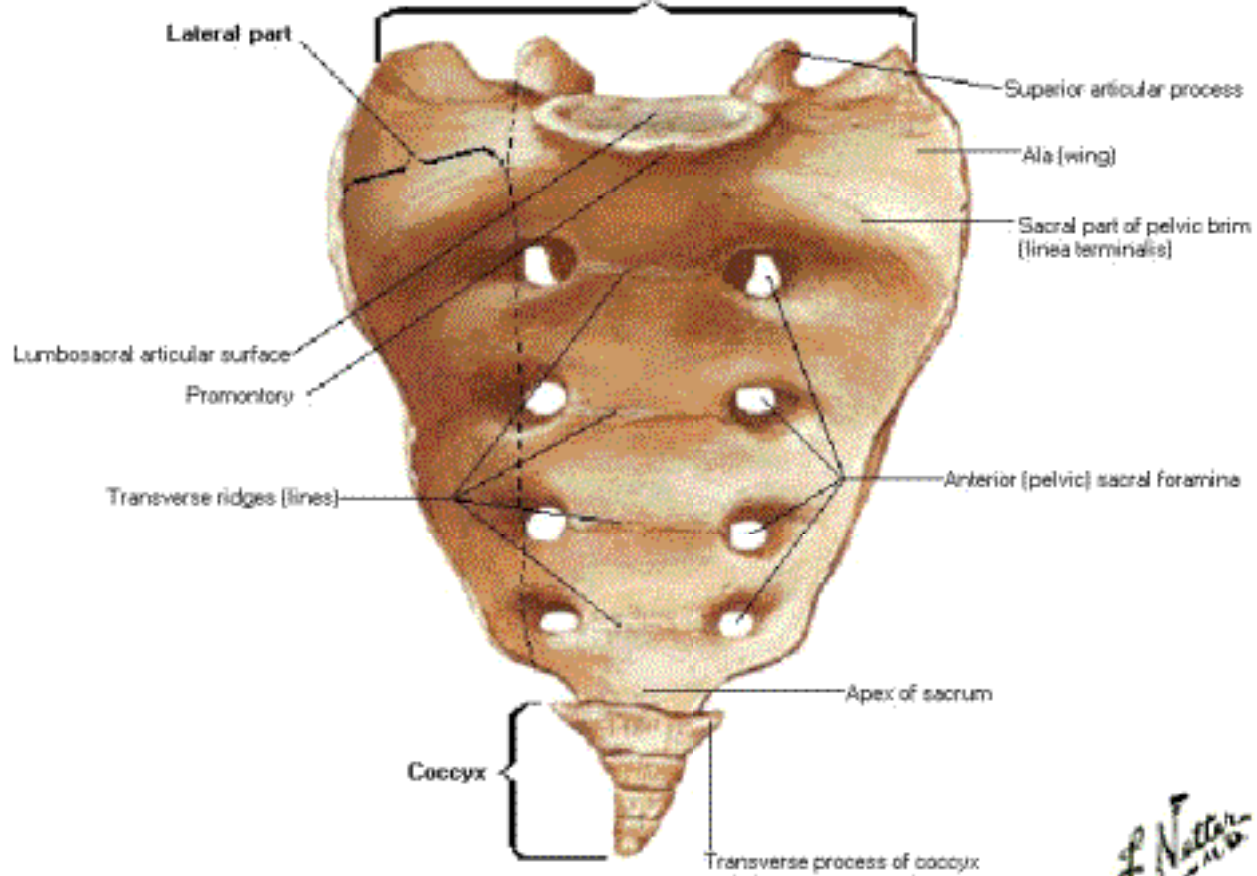


*F. Netter M.D.*  
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# Sacrum and Coccyx

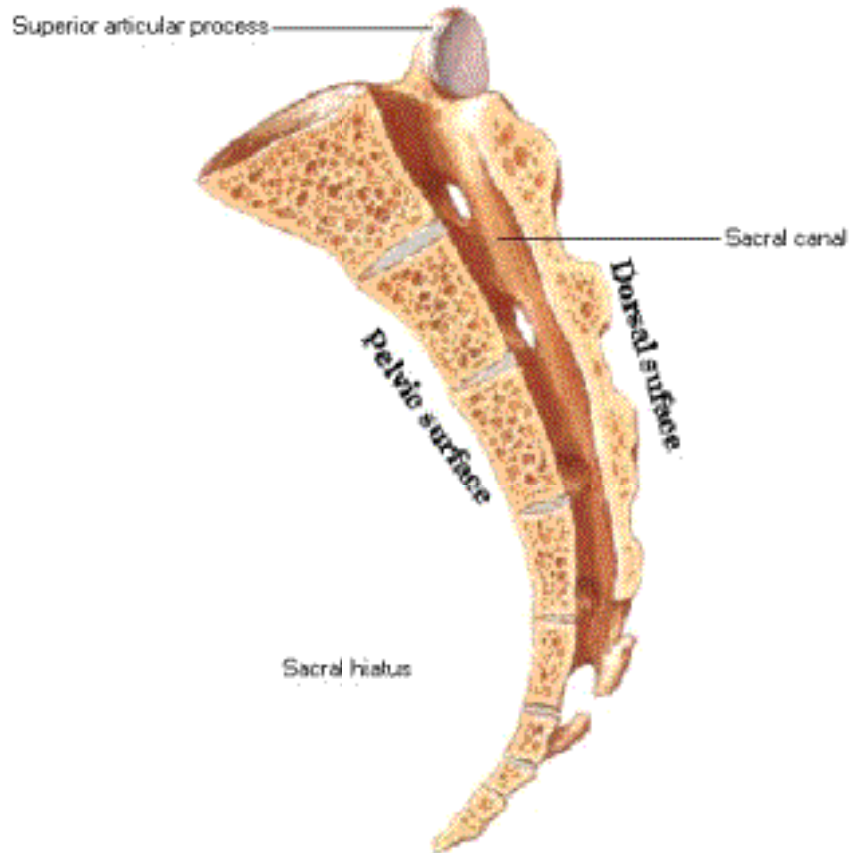
## Pelvic Surface

Base of Sacrum



# Sacrum and Coccyx

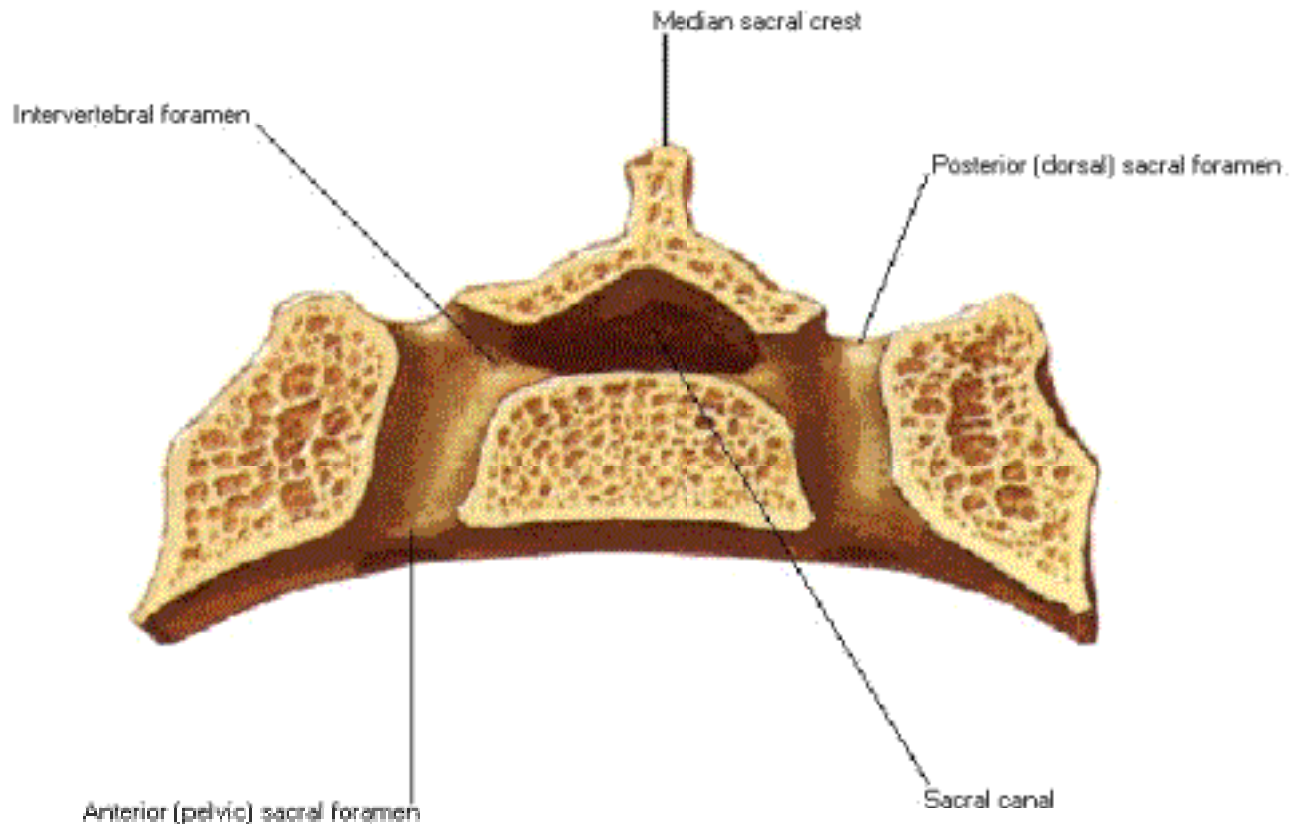
## Median Sagittal Section





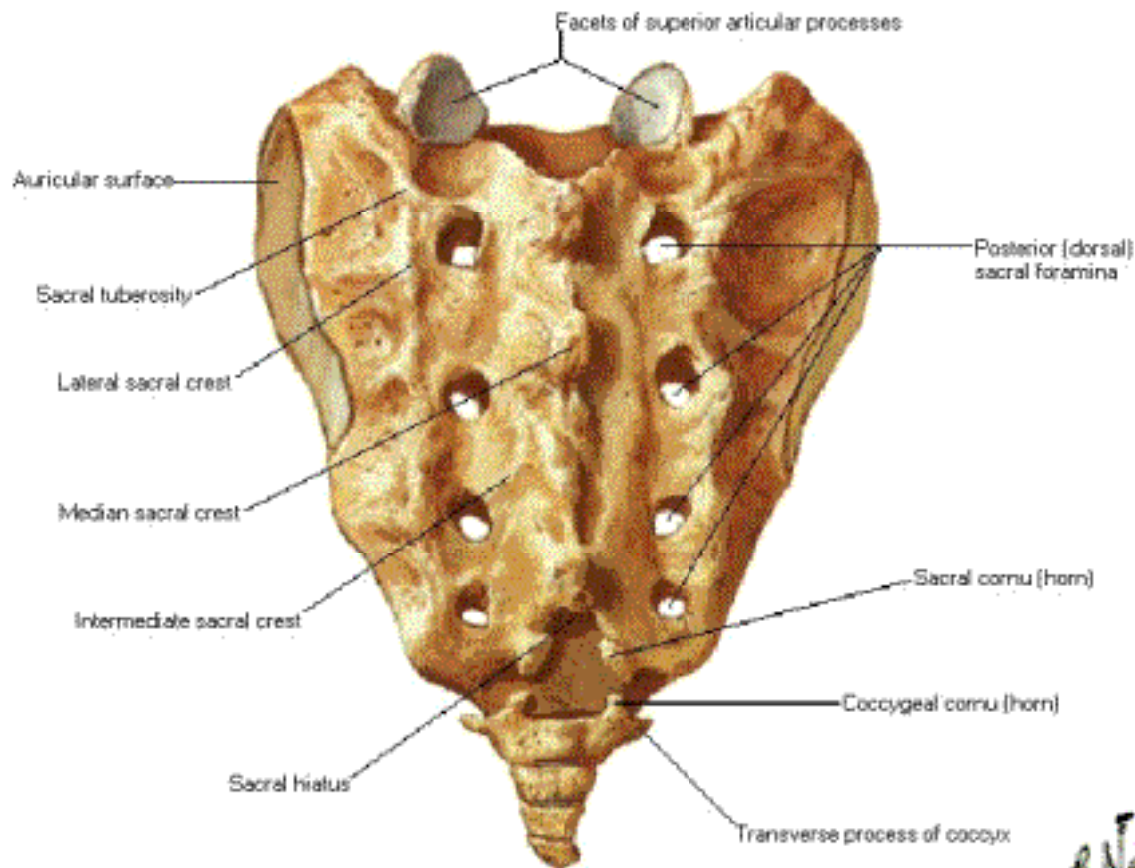
# Sacrum

## Transverse Section through S1 Foramina



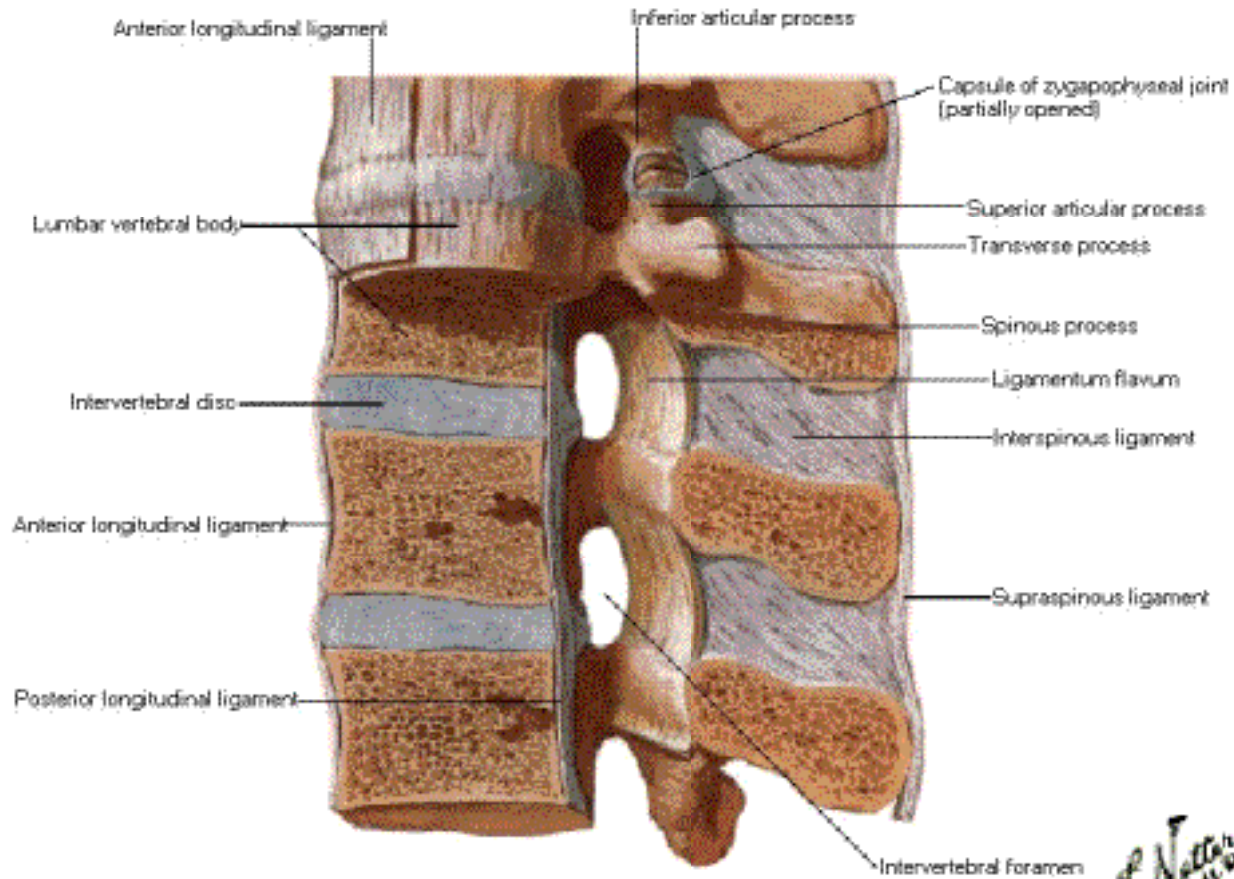
# Sacrum and Coccyx

## Dorsal Surface



# Vertebral Ligaments of Lumbar Region

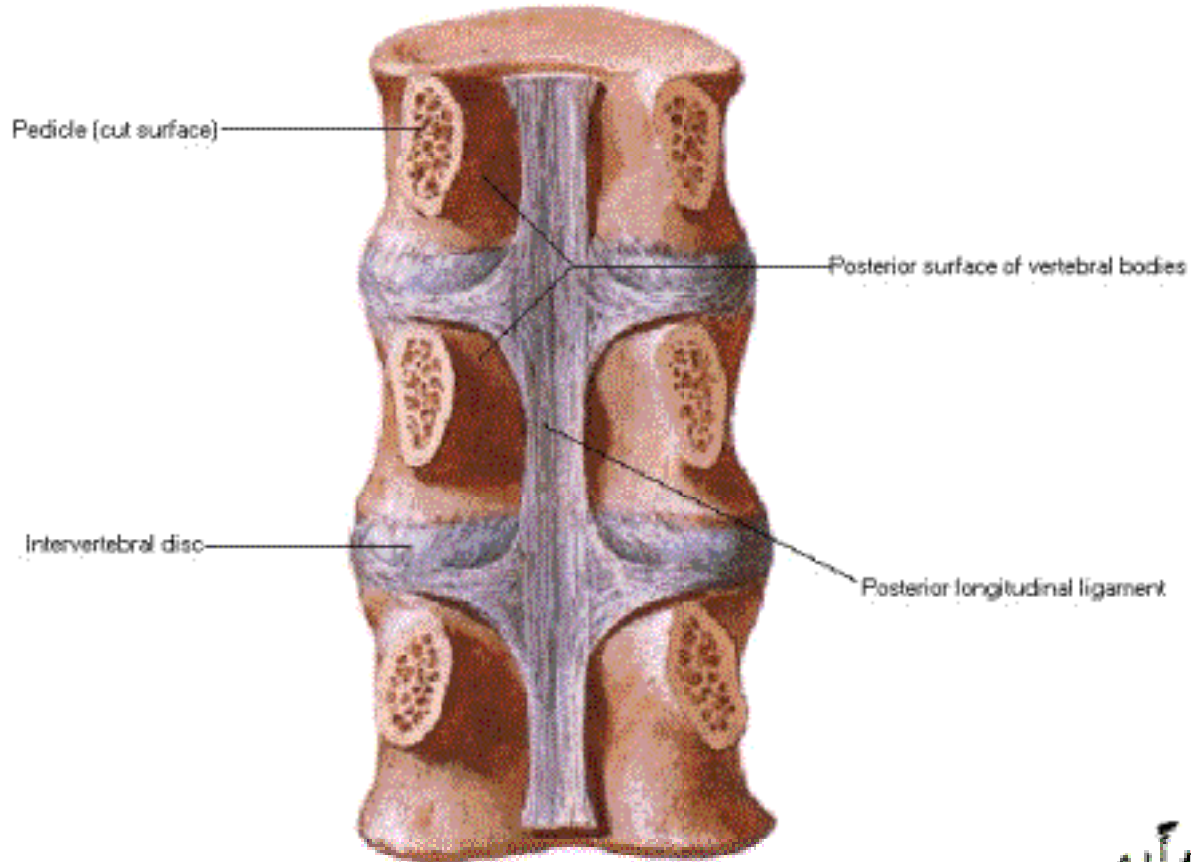
## Left Lateral View - Partially Sectioned



*F. Netter*  
© 1989

# Vertebral Ligaments of Lumbar Region

## Anterior Vertebral Segments - Posterior View

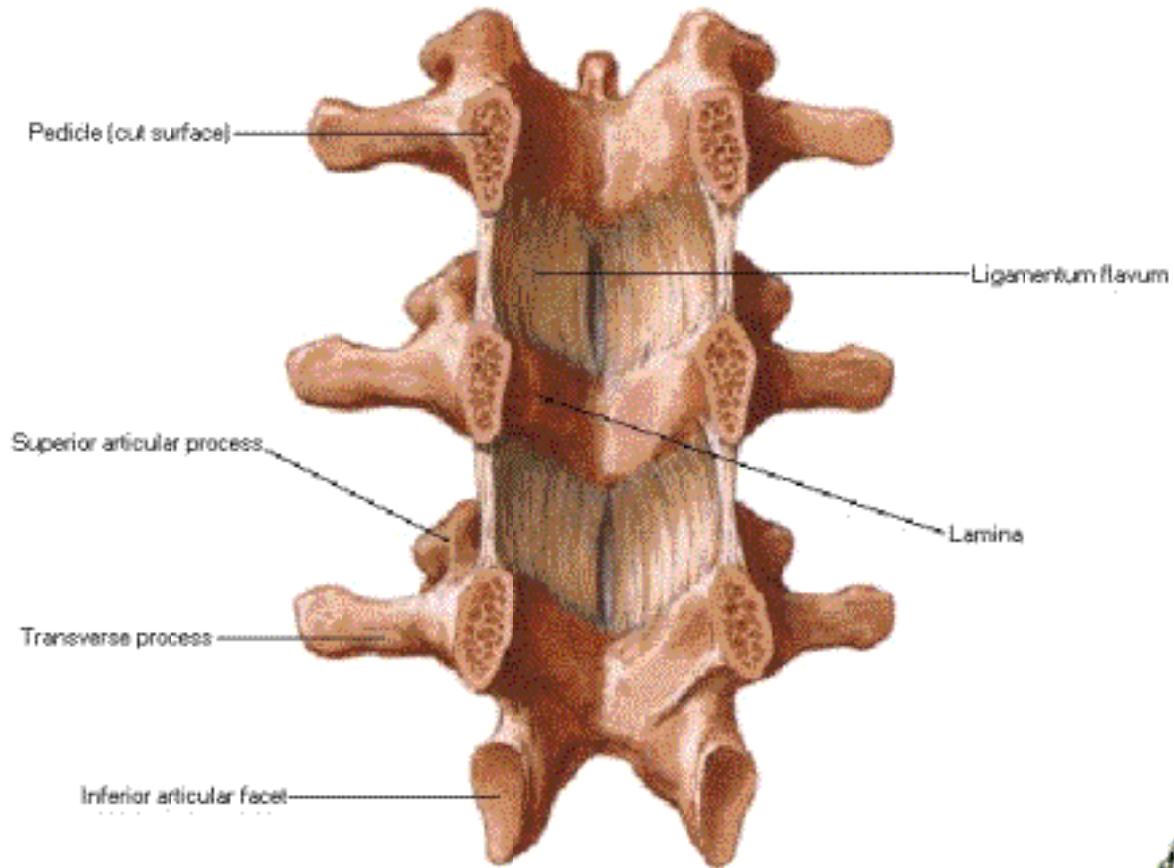


o n d



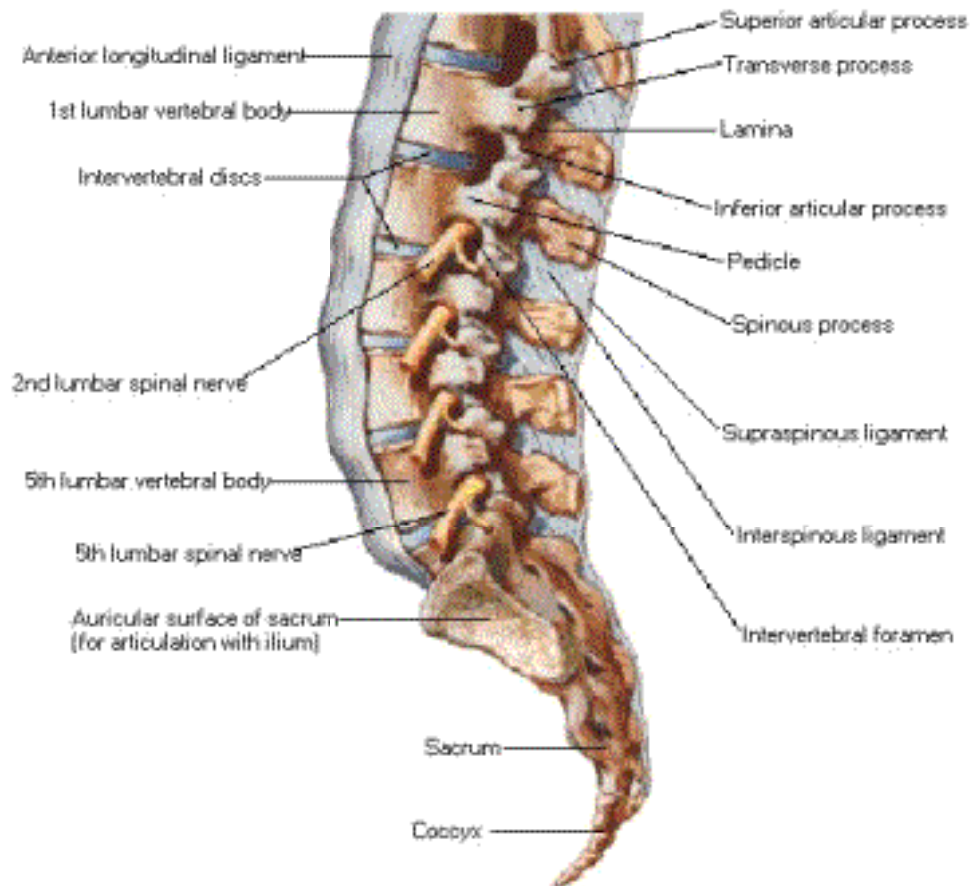
# Vertebral Ligaments of Lumbar Region

## Posterior Vertebral Segments - Anterior View



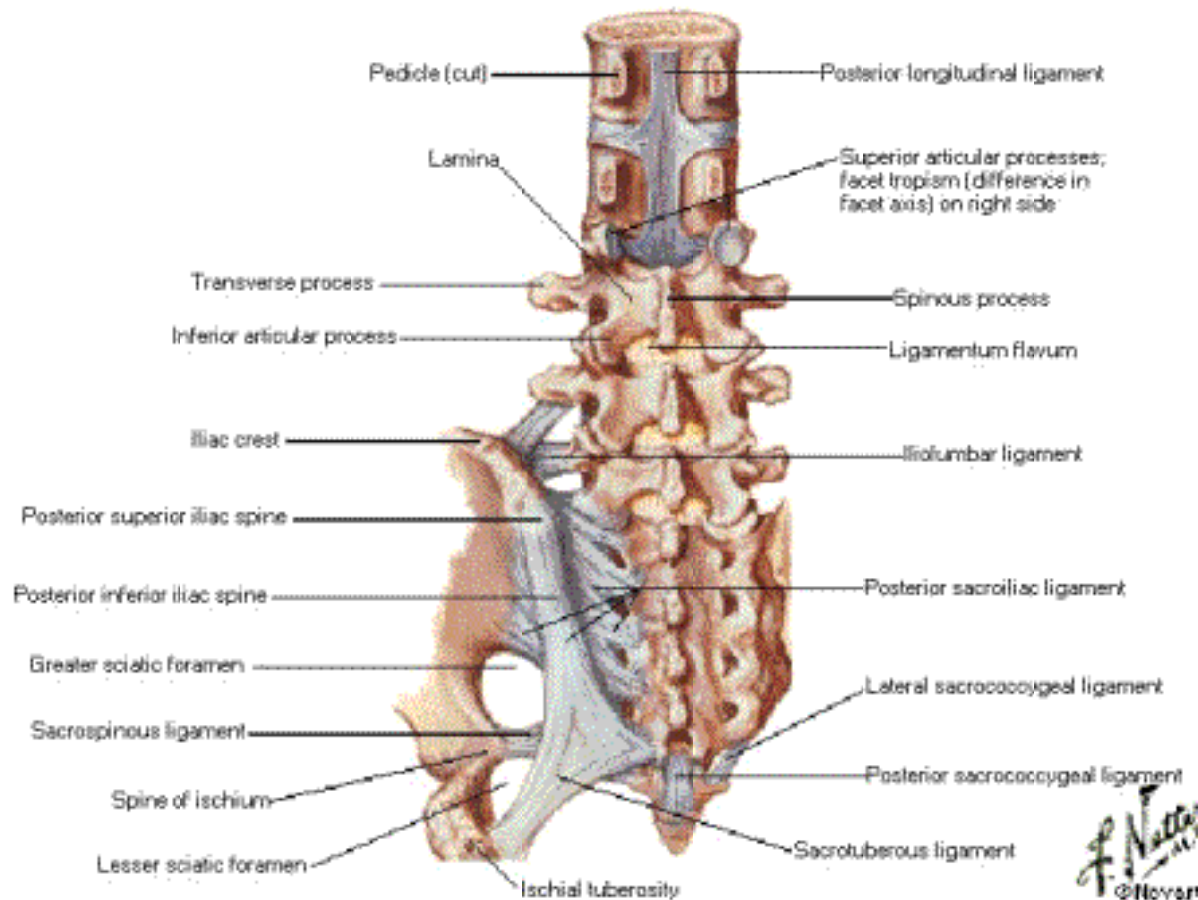
# Vertebral Ligaments of Lumbosacral Region

## Left Lateral View

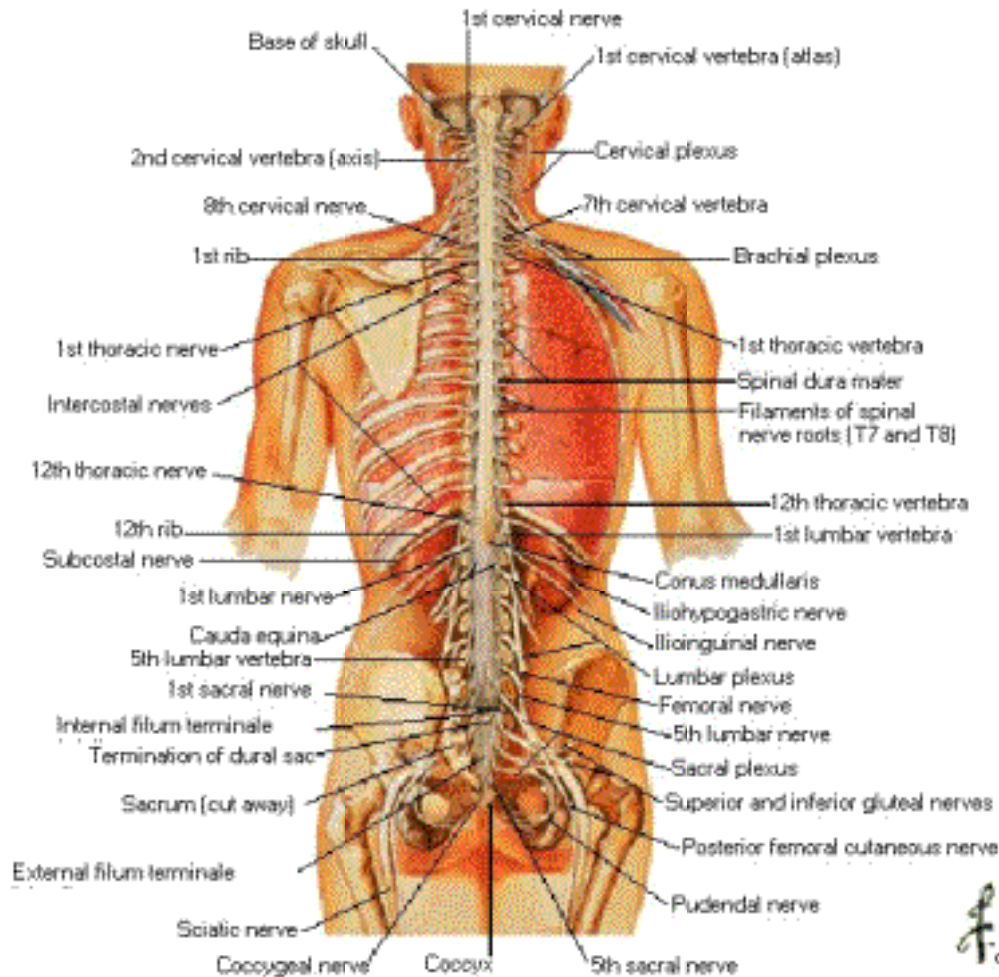


# Vertebral Ligaments of Lumbosacral Region

## Posterior View

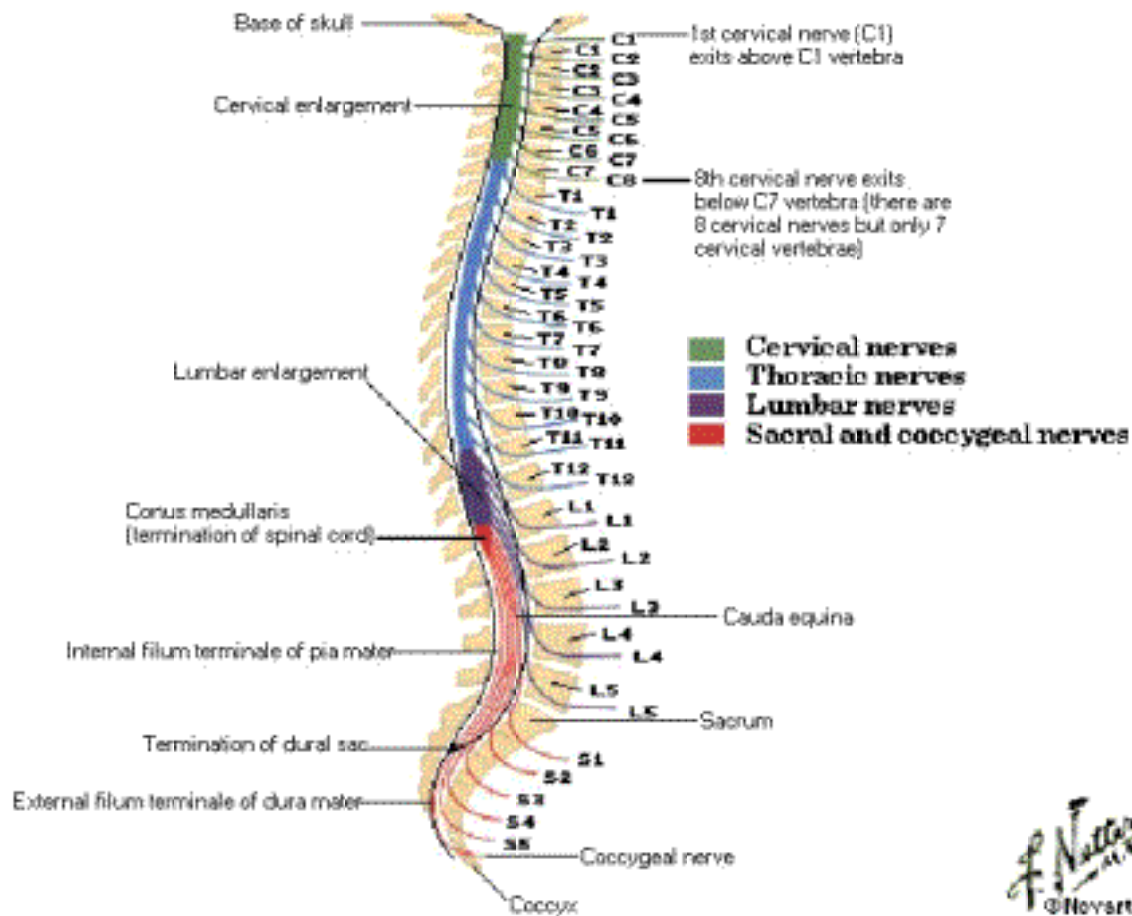


# Spinal Cord in Situ



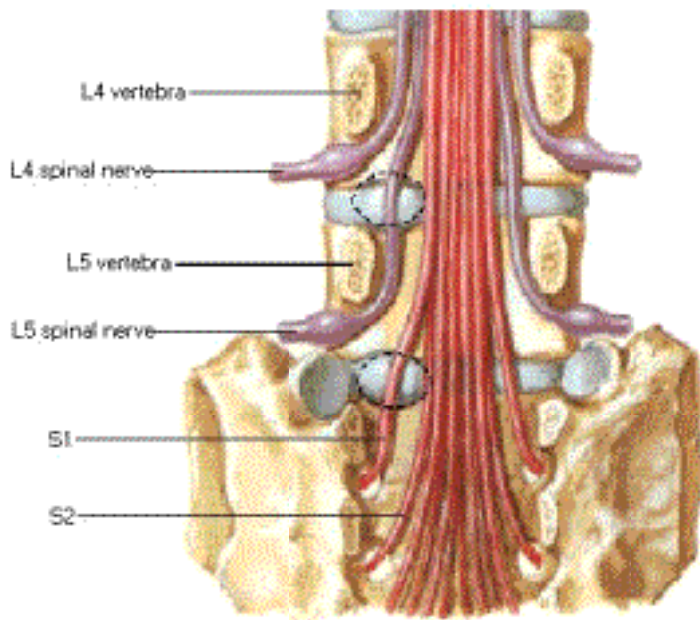


# Relation of Spinal Nerve Roots to Vertebrae



## Relation of Spinal Nerve Roots to Vertebrae

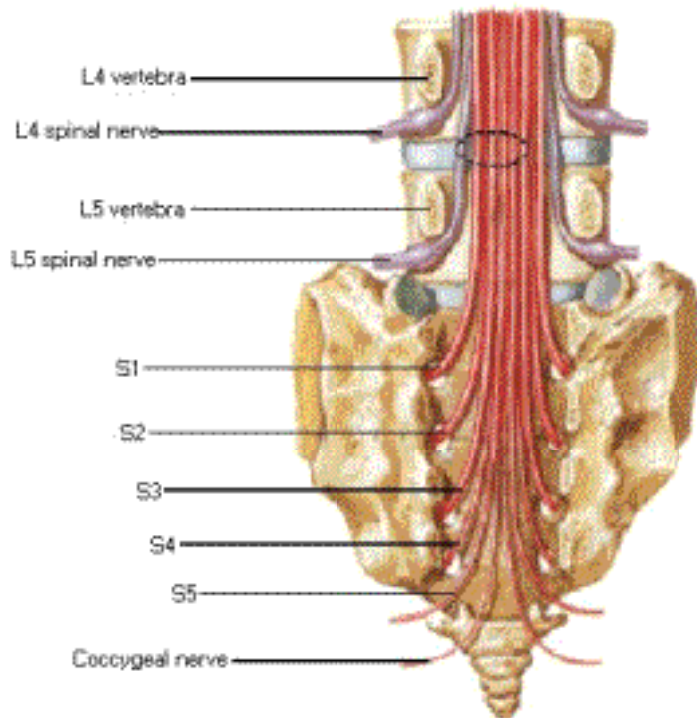
### Lateral Protrusion



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

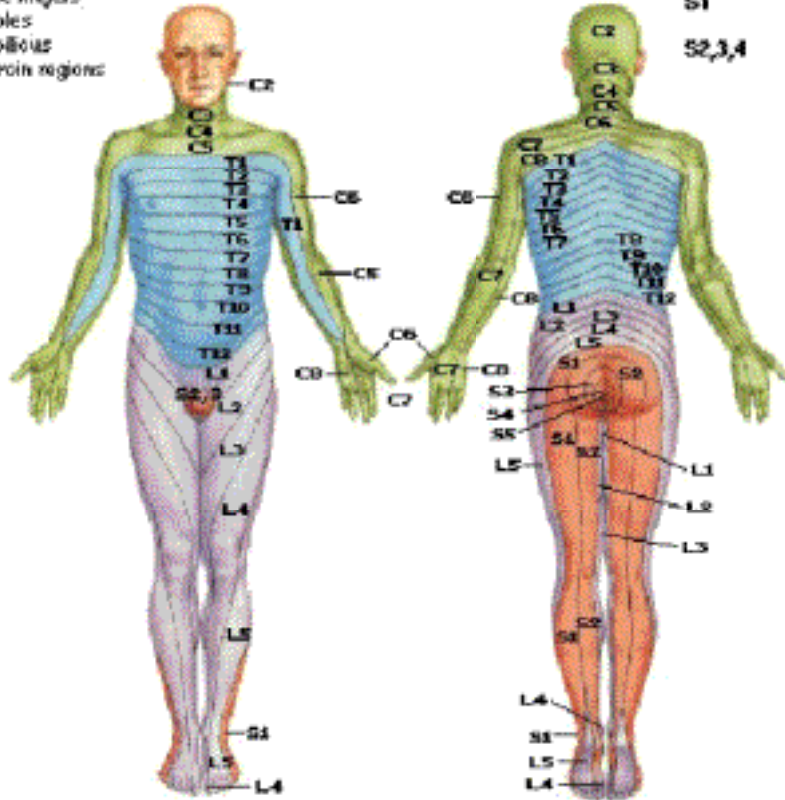
# Dermatomes

## 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
- S1,2,3,5** Posterior and outer surfaces of lower limbs
- S1** Lateral margin of foot and little toe
- S2,3,4** Perineum

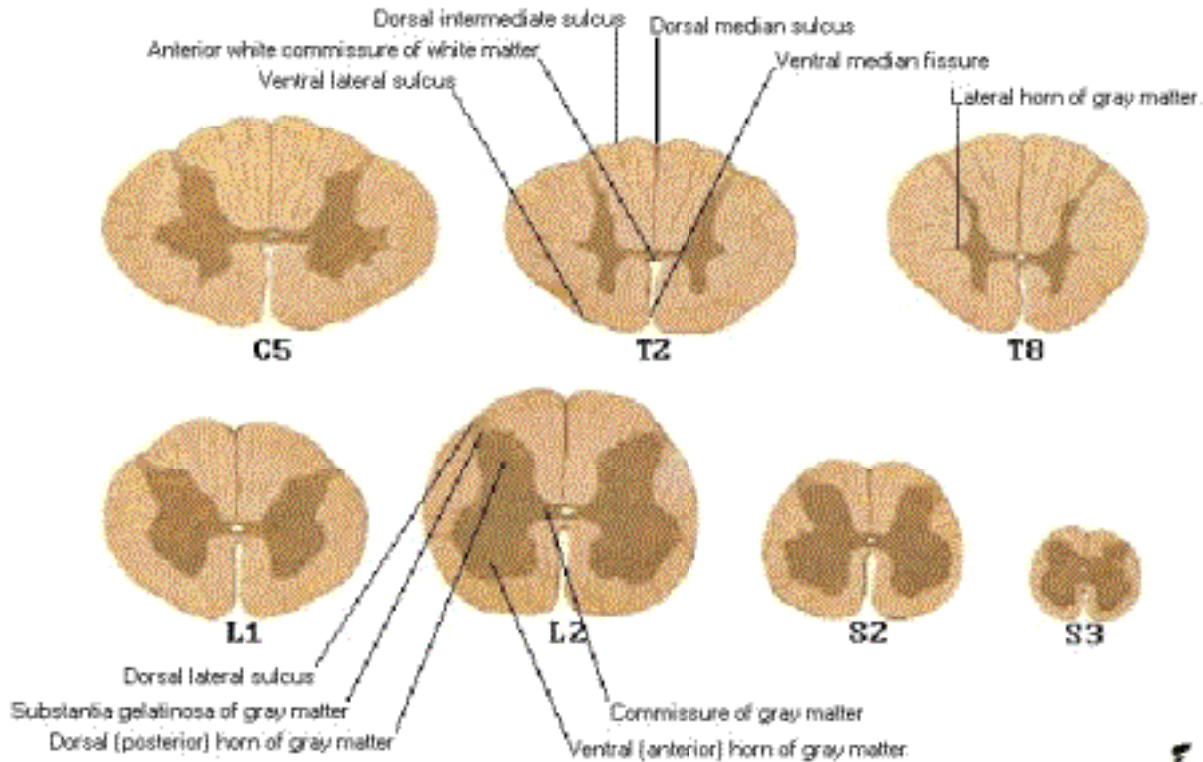


Schematic demarcation of dermatomes shown as distinct segments. There is actually considerable overlap between any two adjacent dermatomes

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# Spinal Cord Cross Sections

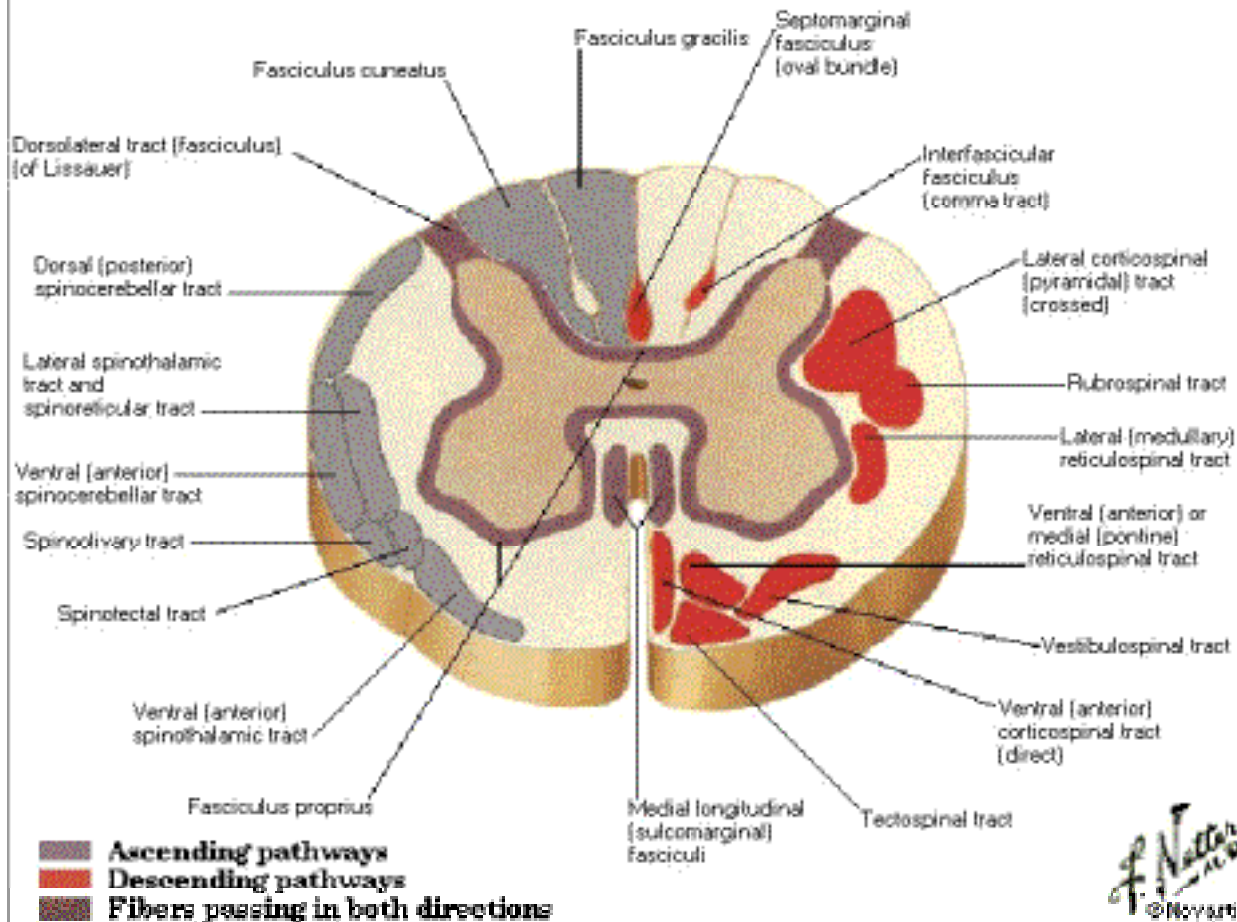


Sections through spinal cord at various levels

*F. N. C.*  
© 2000

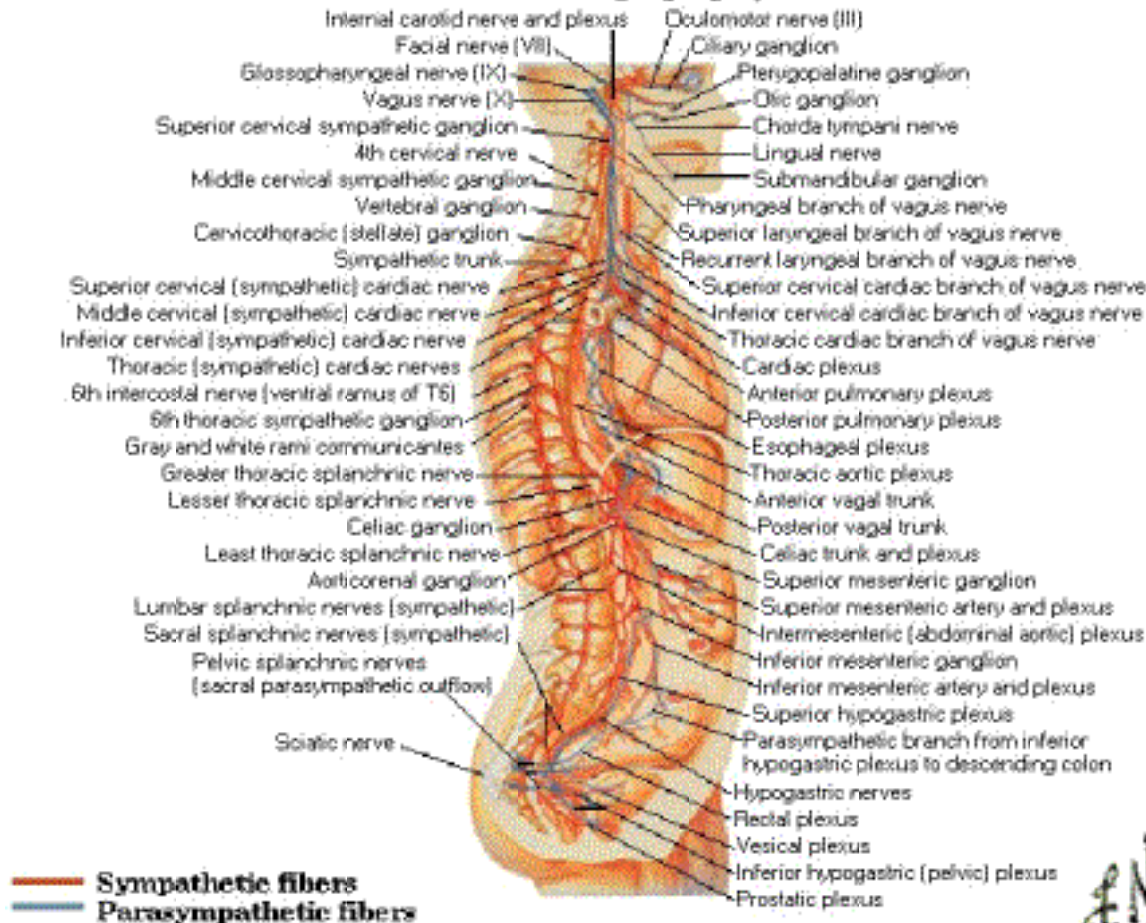
# Spinal Cord Cross Sections

## Fiber Tracts



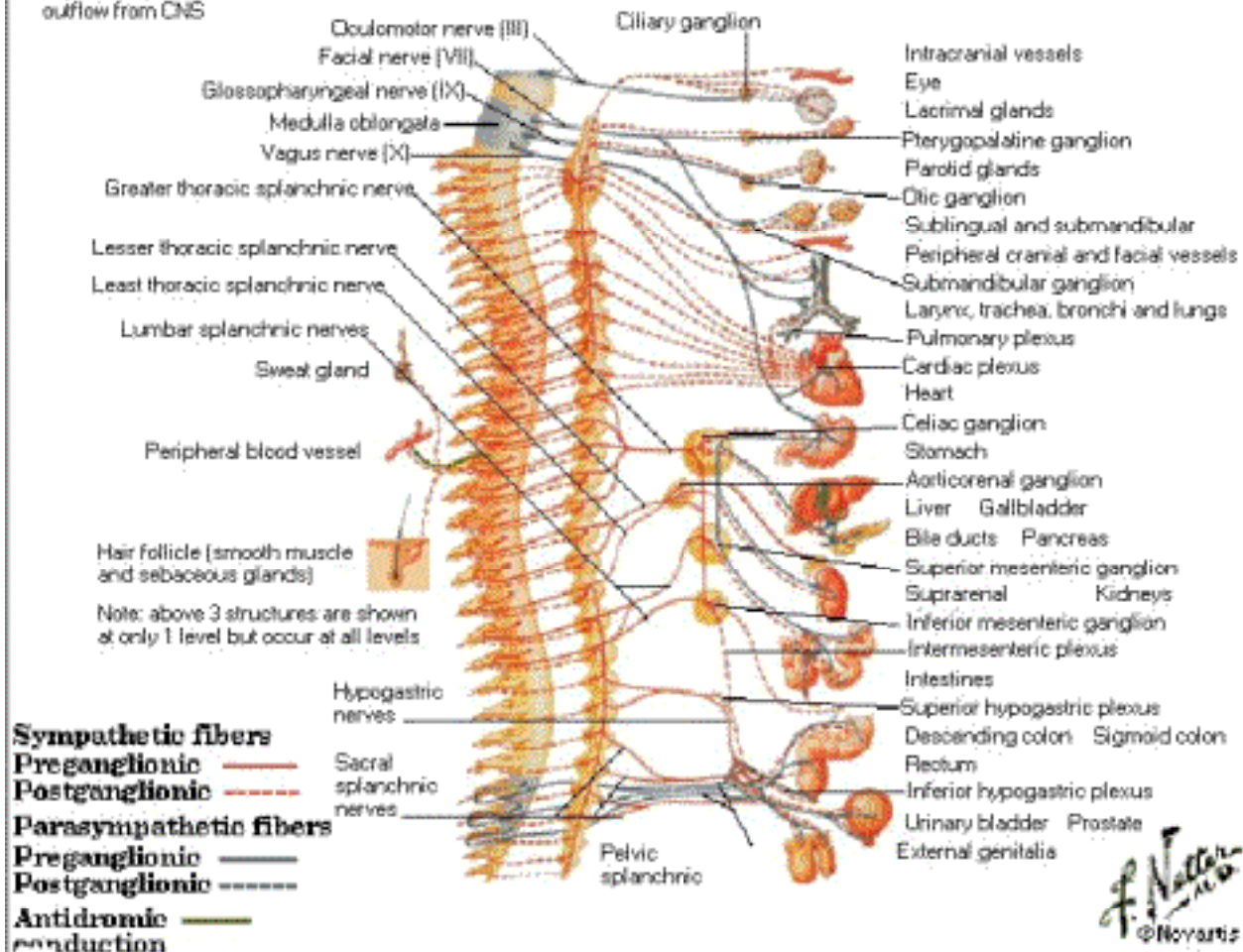
# Autonomic Nervous System

## General Topography



# Autonomic Nervous System Schema

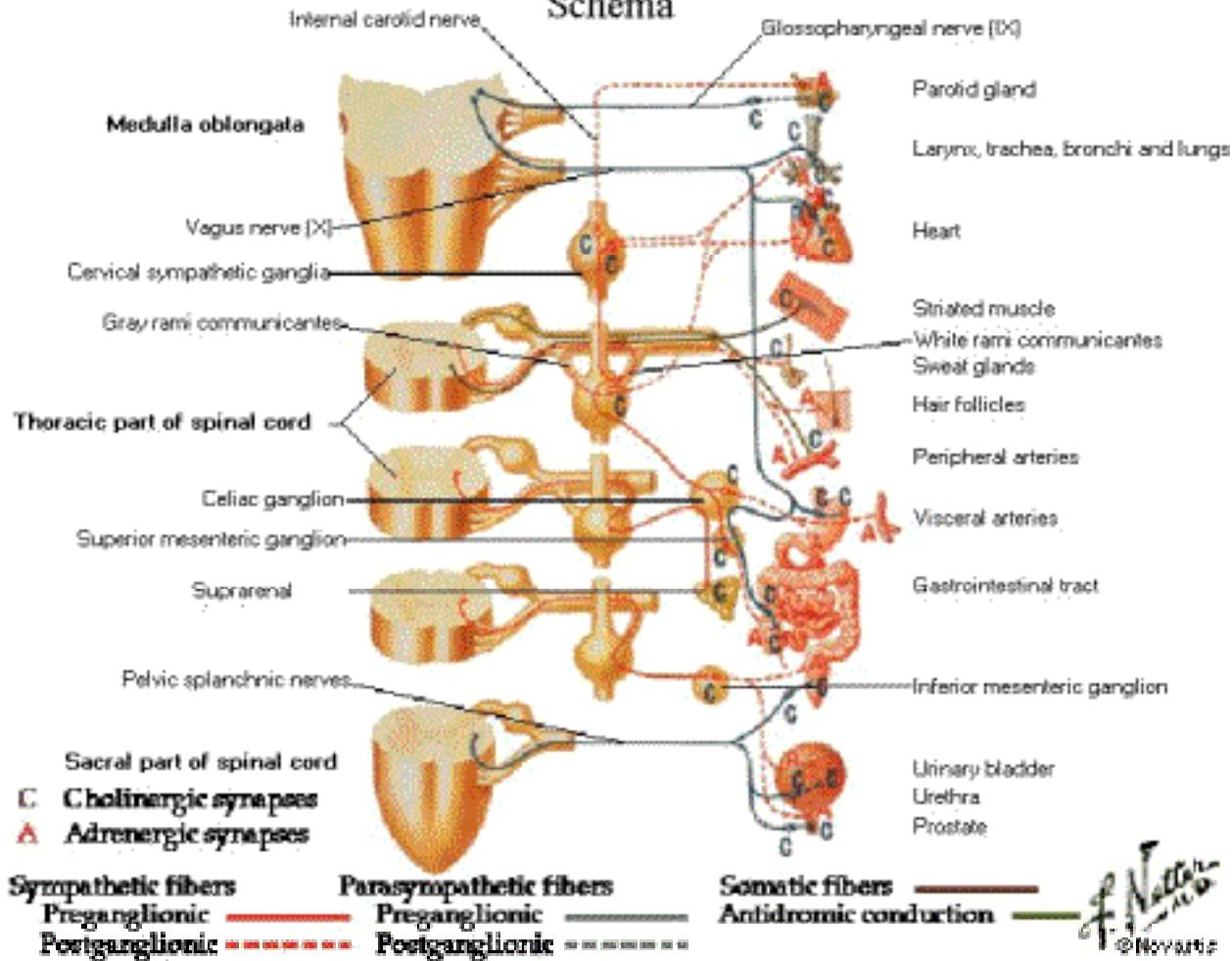
Note: blue shaded areas indicate zones of parasympathetic outflow from CNS





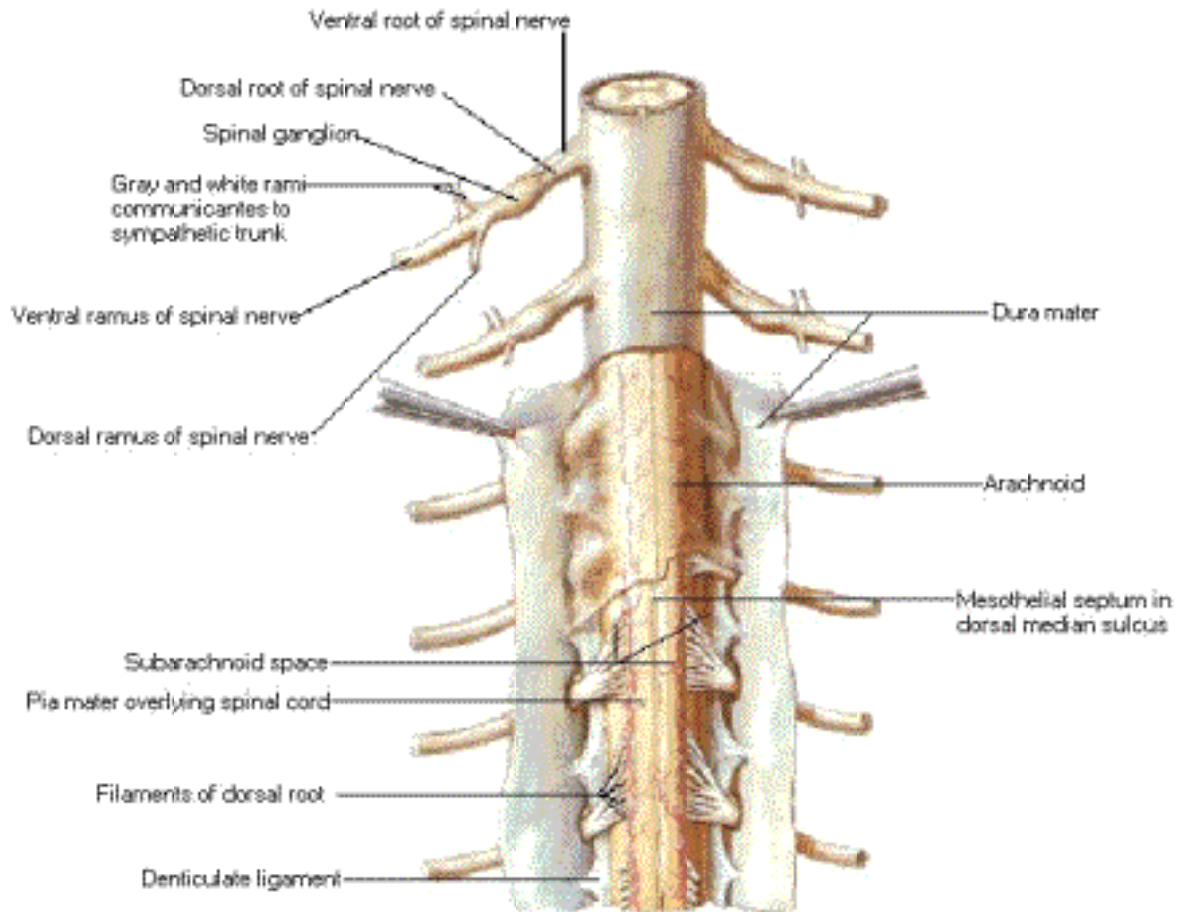
# Cholinergic and Adrenergic Synapses

## Schema



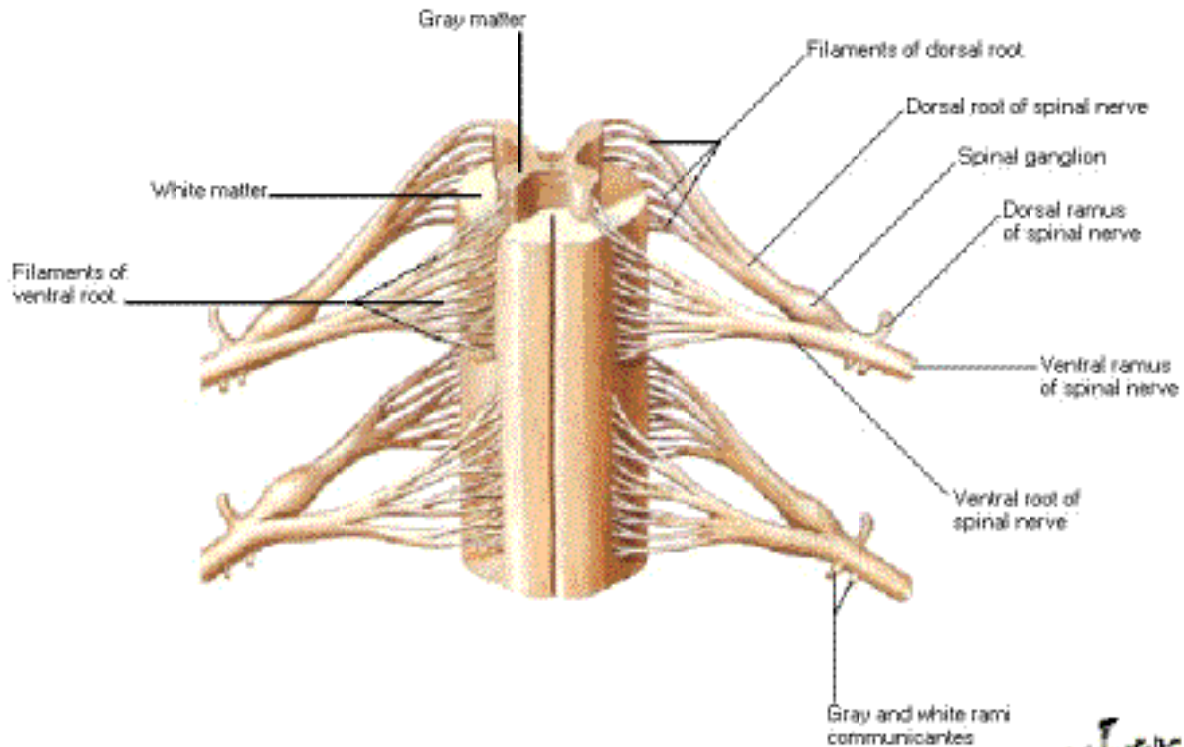
# Spinal Membranes and Nerve Roots

## Posterior View



# Spinal Membranes and Nerve Roots

## Anterior View

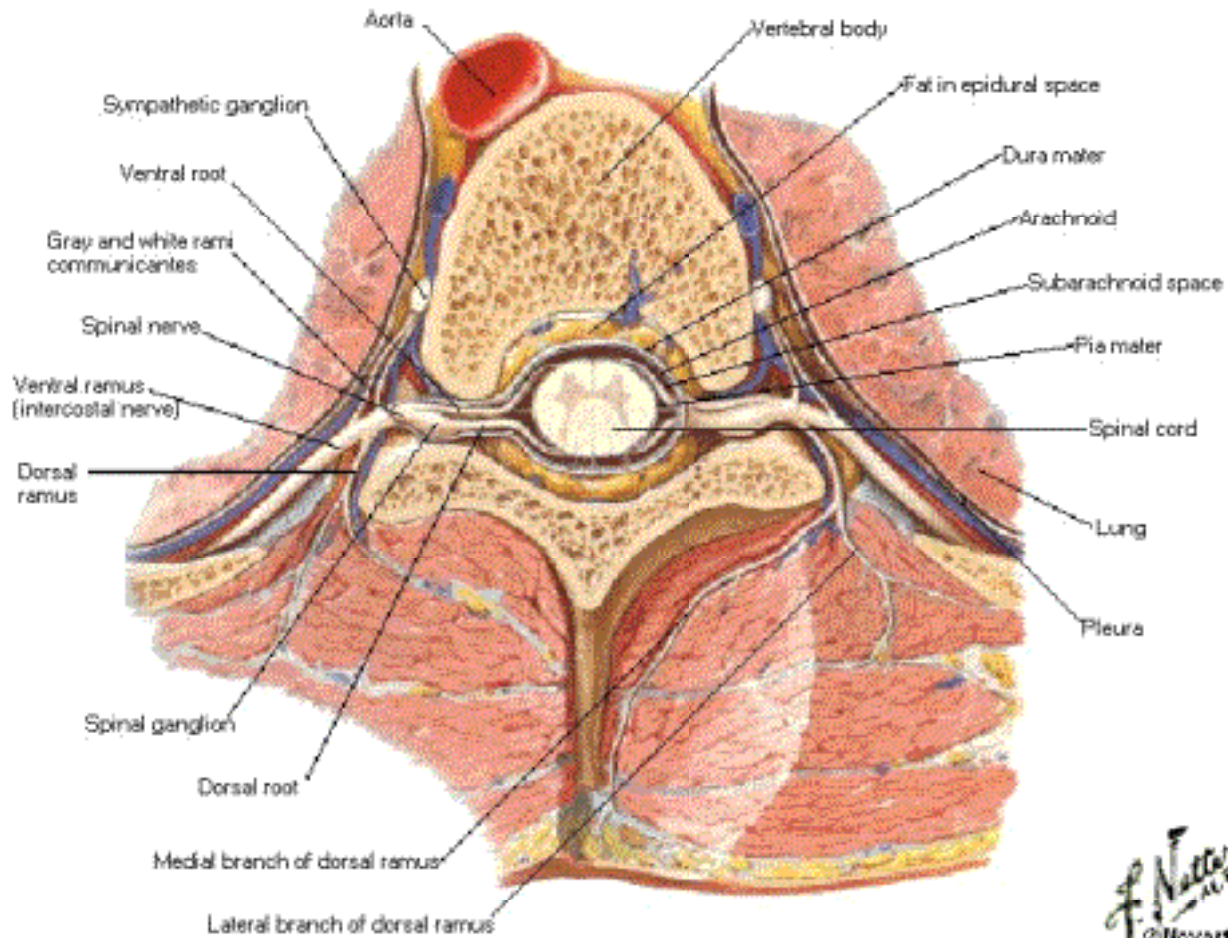


Membranes removed (greatly magnified)

*F. Netter*  
M.D.  
© Novartis

# Spinal Nerve Origin

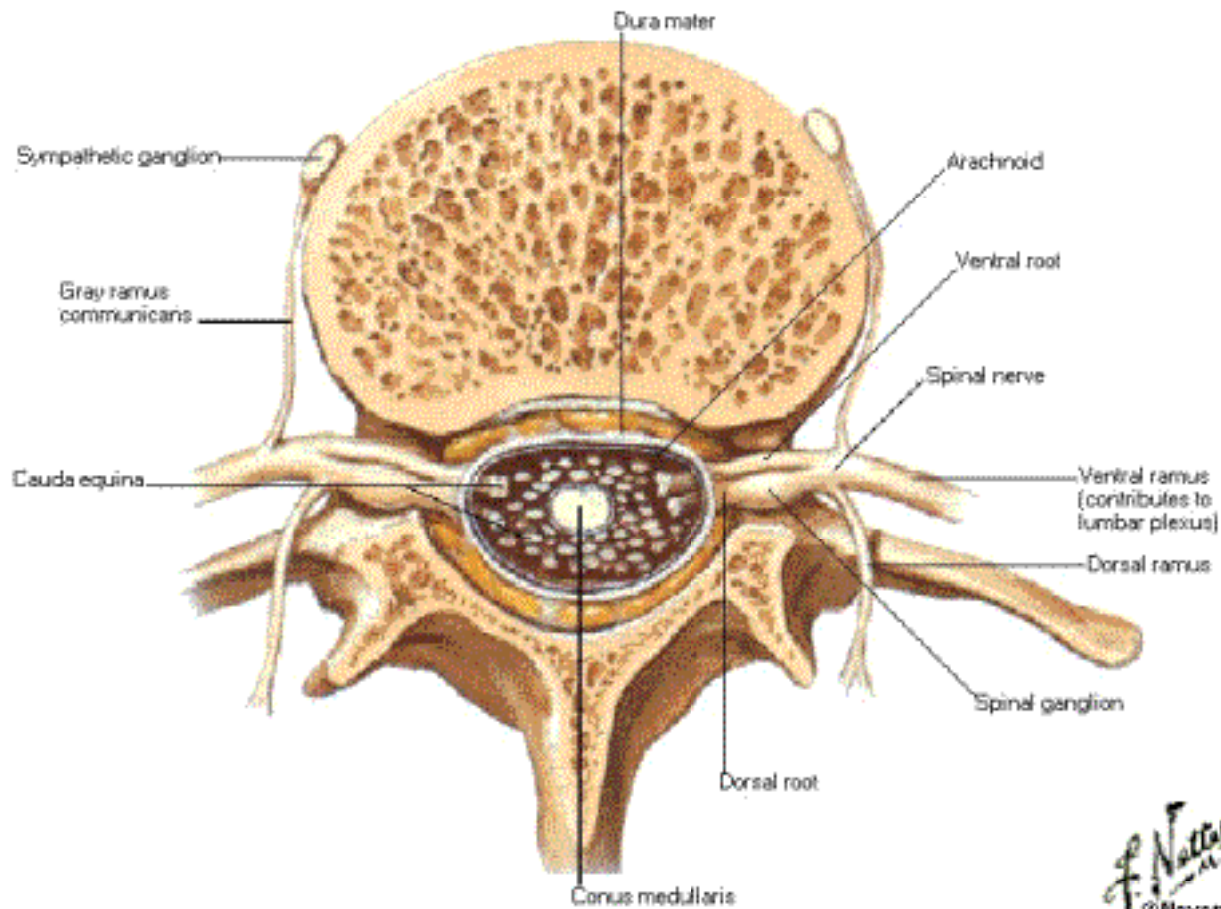
## Section through Thoracic Vertebra





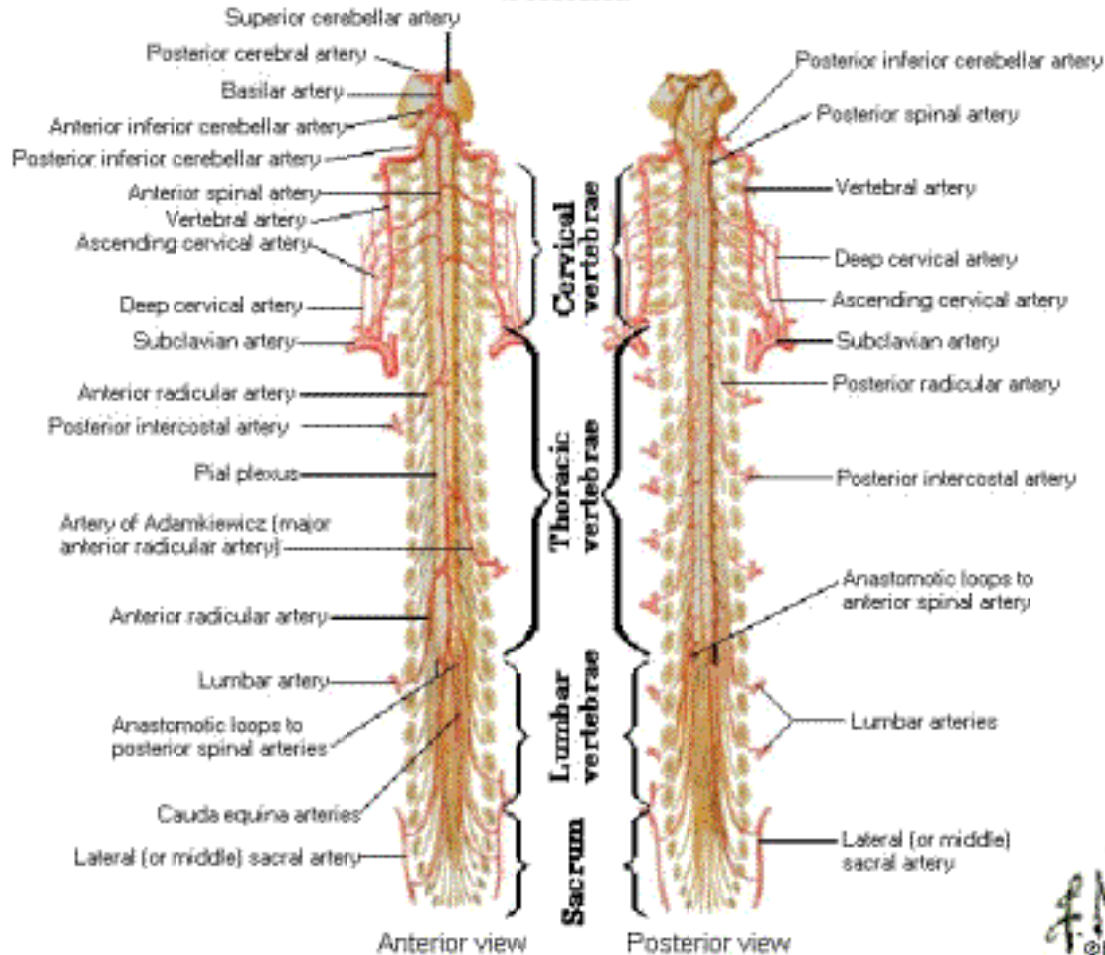
# Spinal Nerve Origin

## Section through Lumbar Vertebra



# Arteries of Spinal Cord

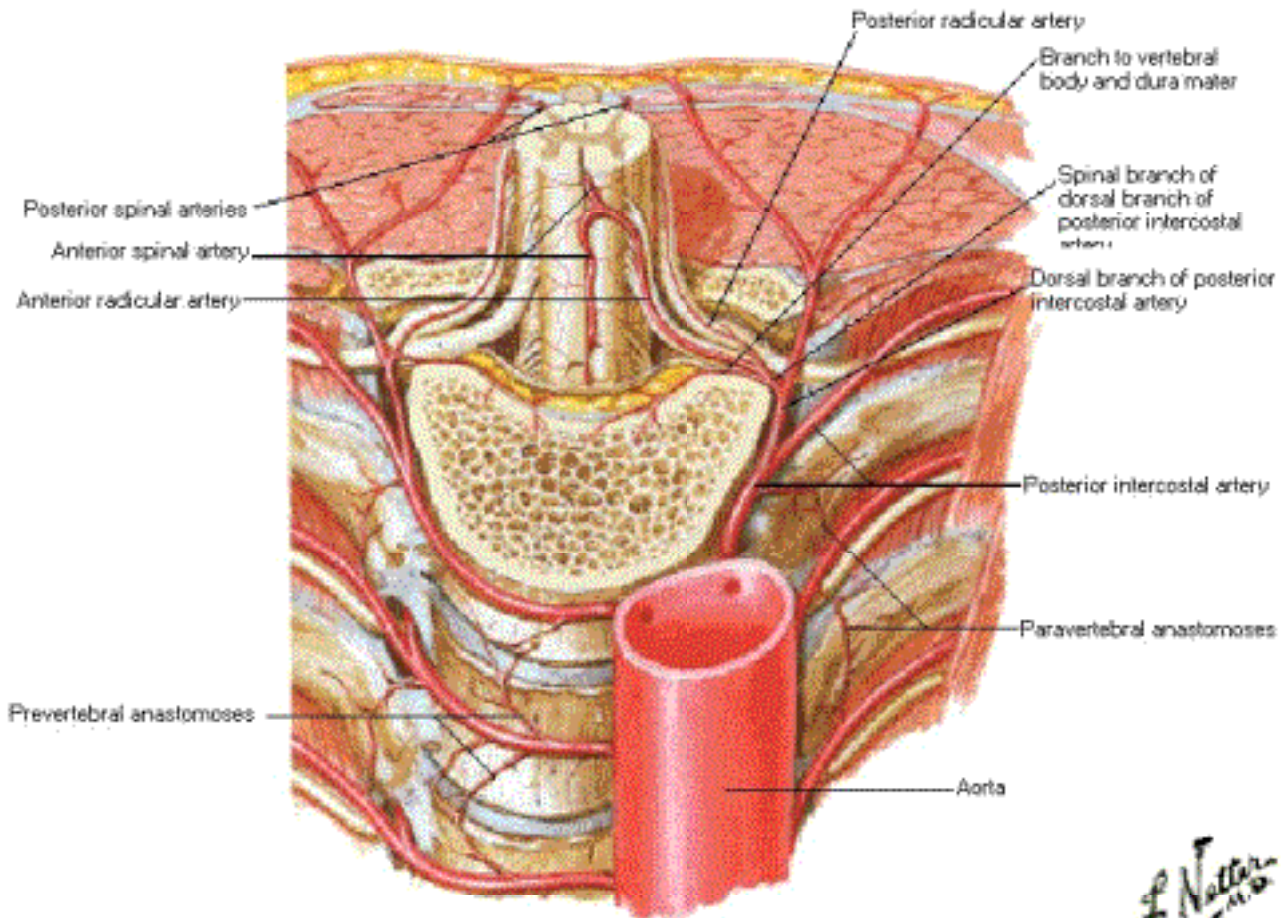
## Schema



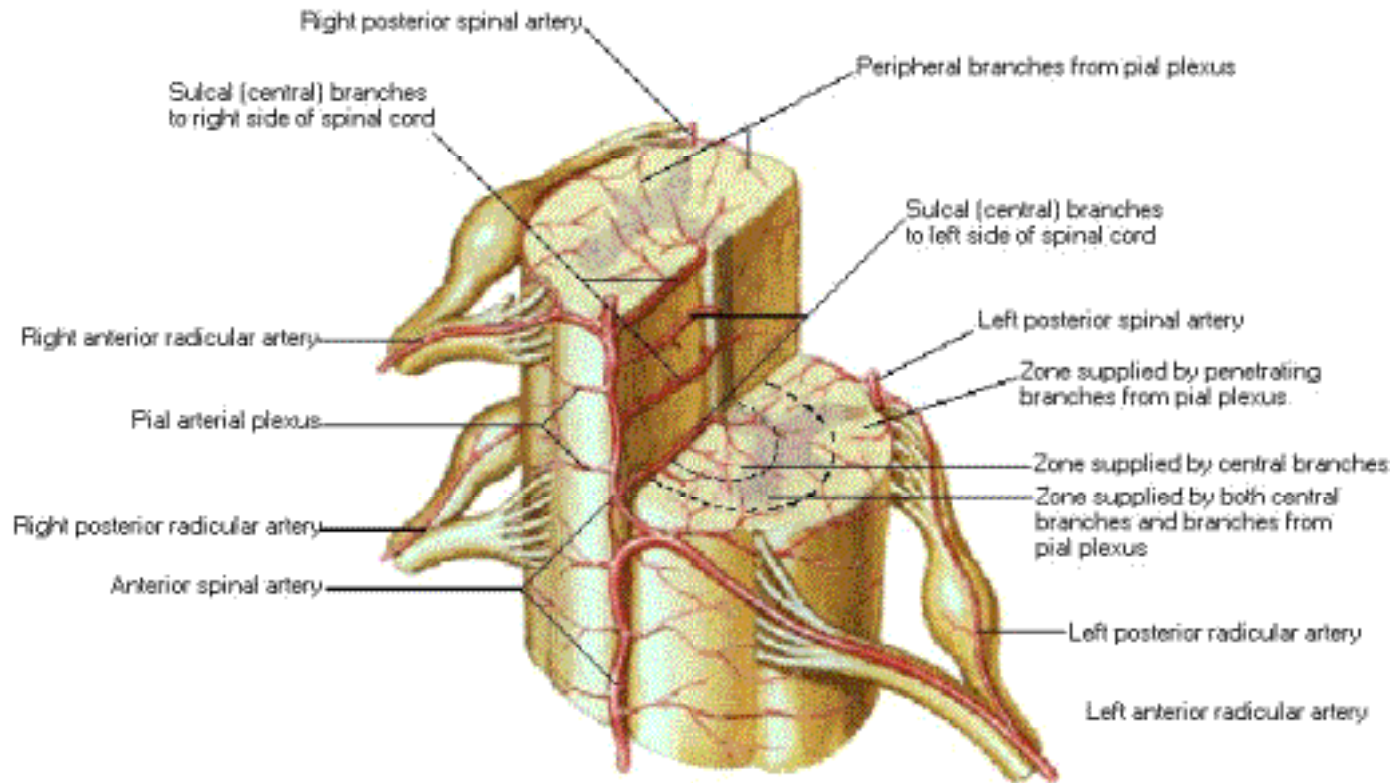
F. J. 20

# Arteries of Spinal Cord - Intrinsic Distribution

## Thoracic Section



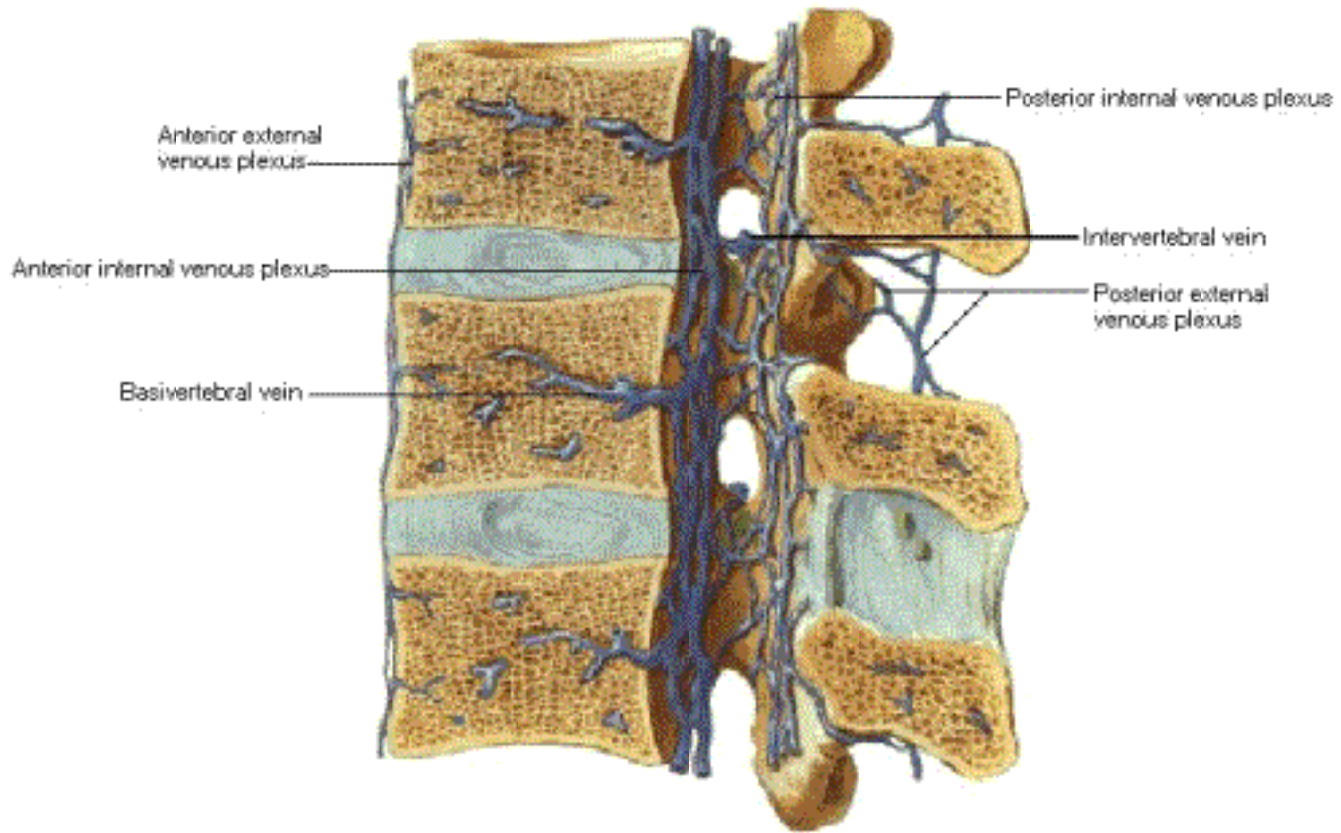
# Arteries of Spinal Cord - Intrinsic Distribution Schema





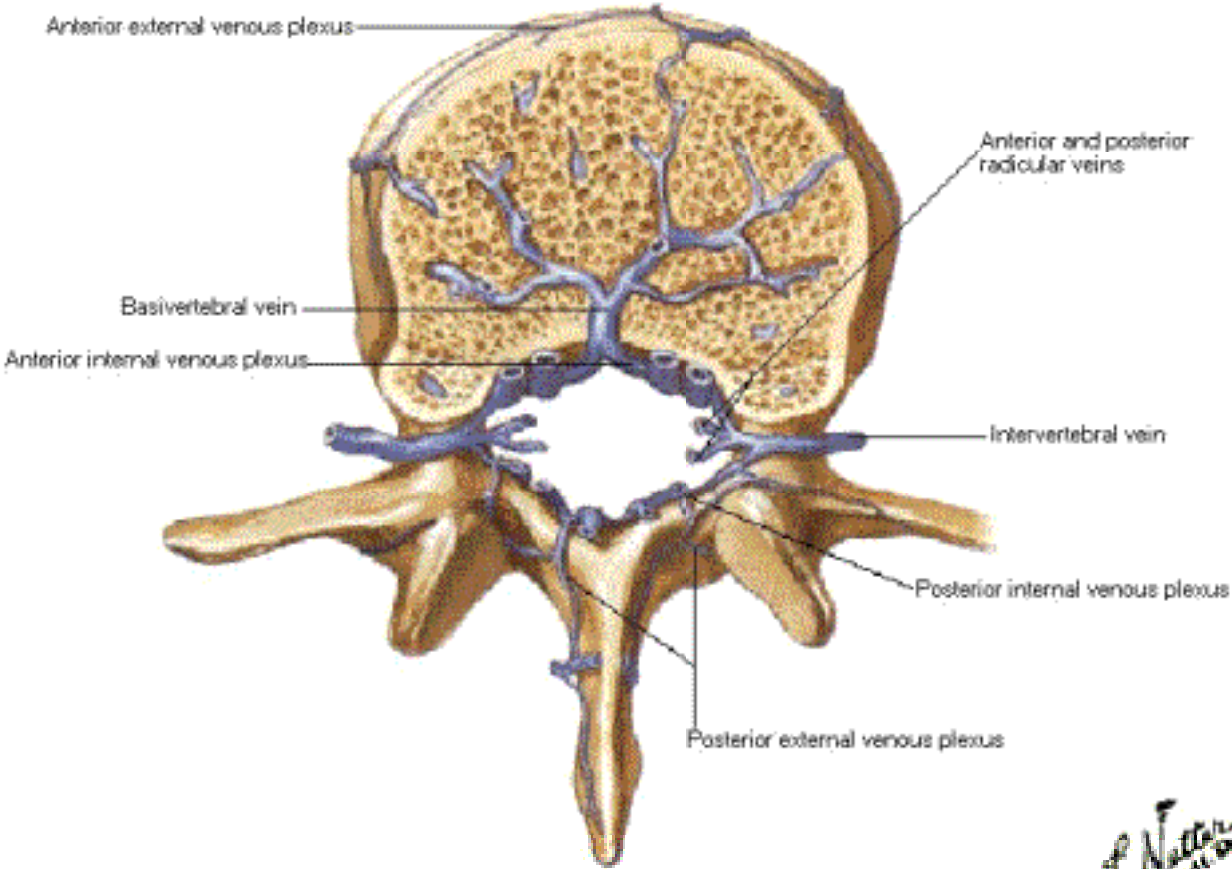
# Veins of Spinal Cord

## Sagittal Section [without Cord]



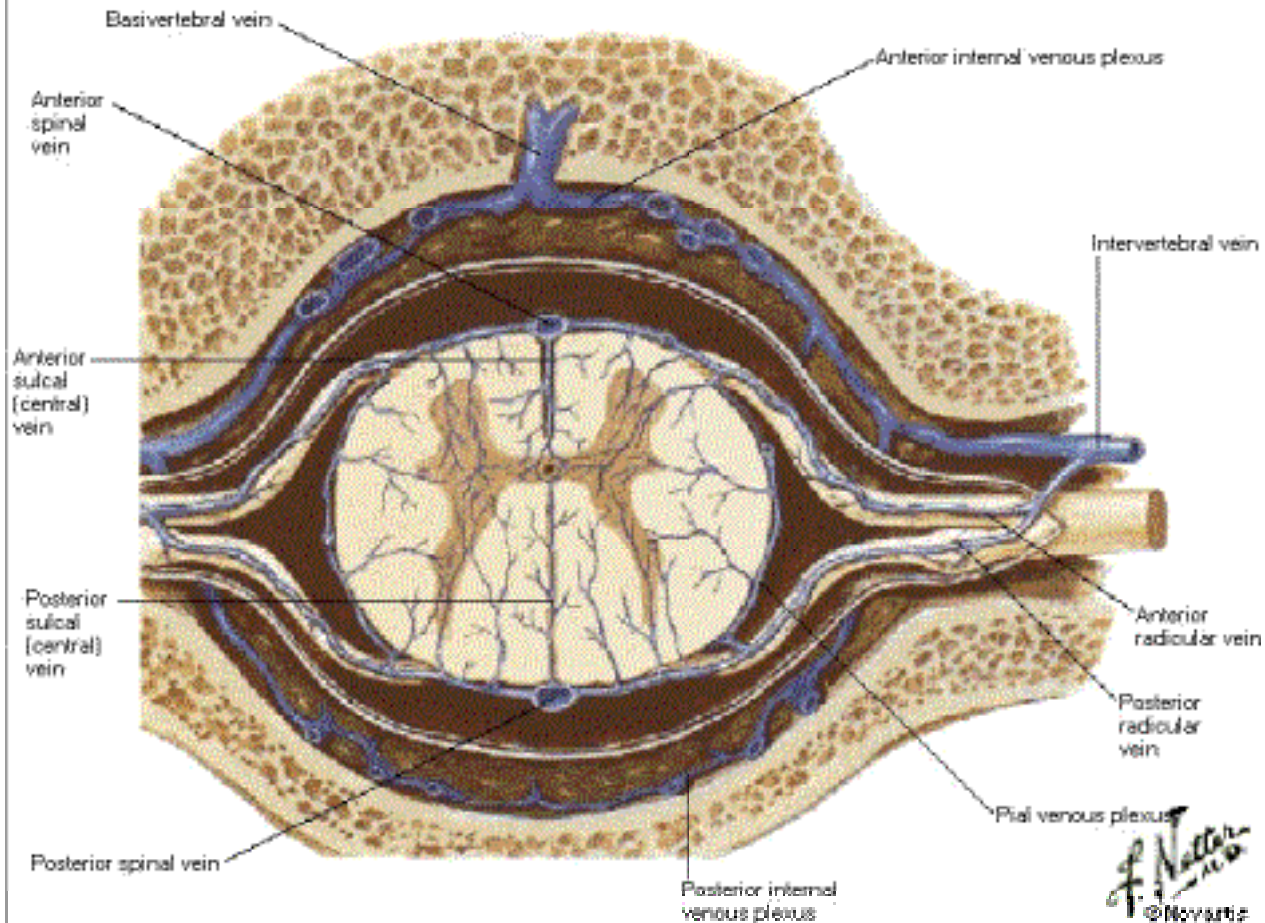
# Veins of Spinal Cord

## Superior View [without Cord]



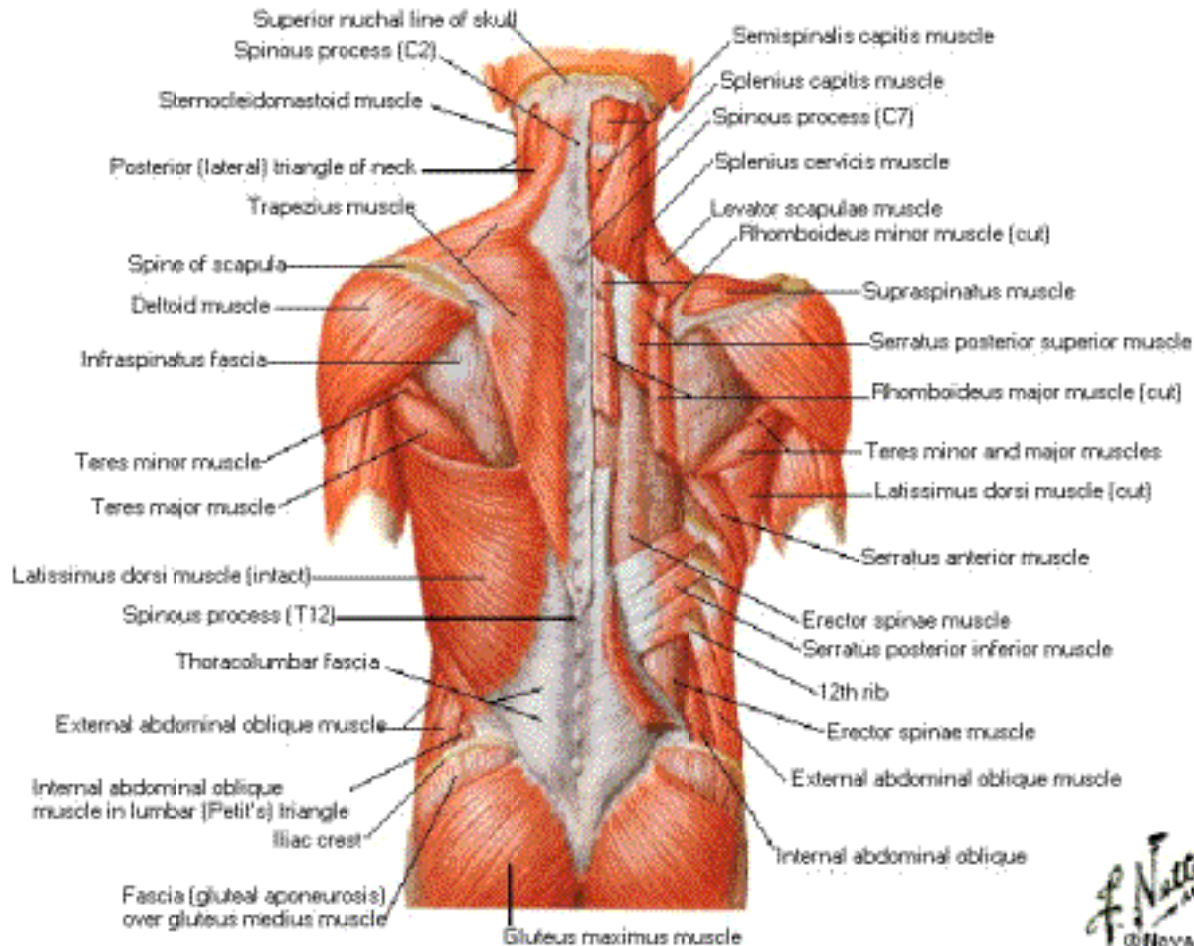
# Veins of Spinal Cord

## Superior View [Magnified with Cord]



# Muscles of Back

## Superficial Layers

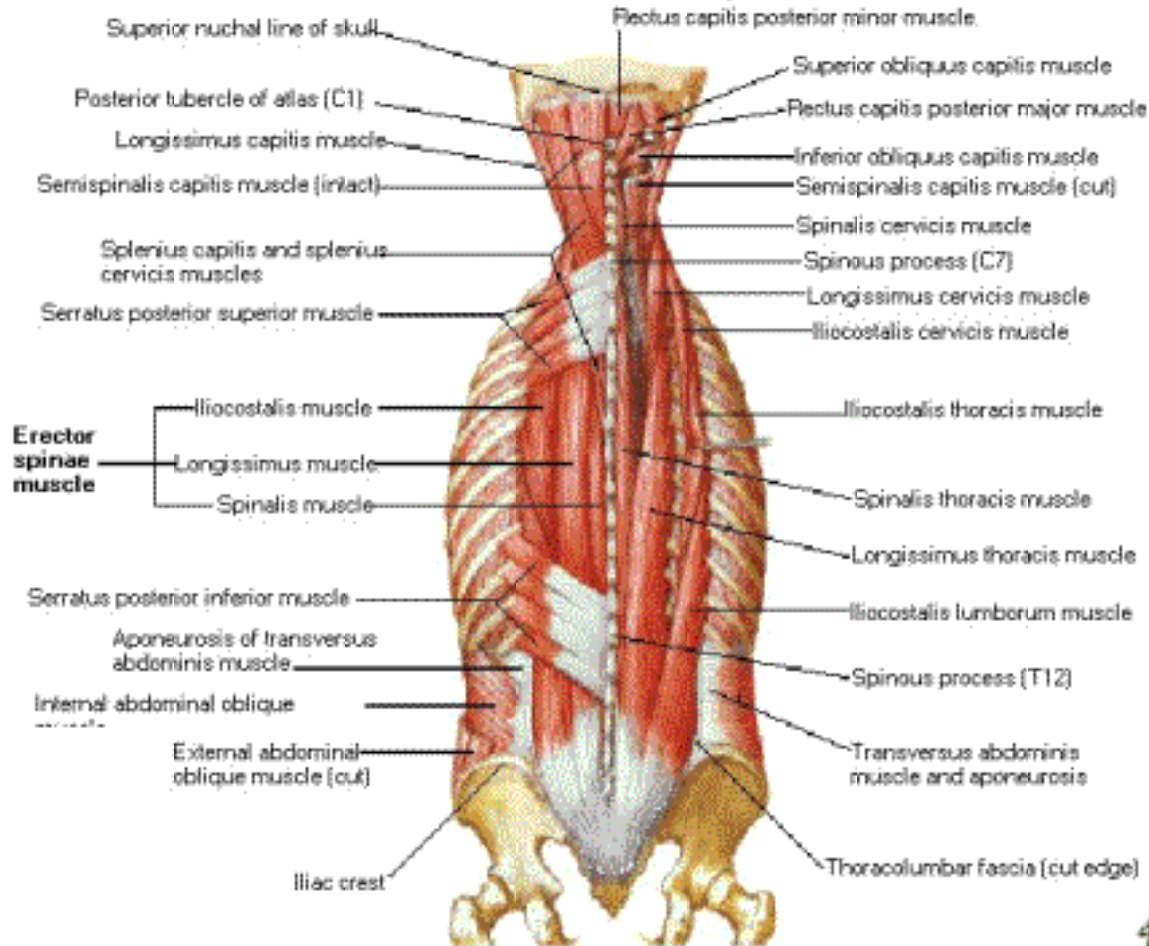


*F. Natta*  
 ©Never



# Muscles of Back

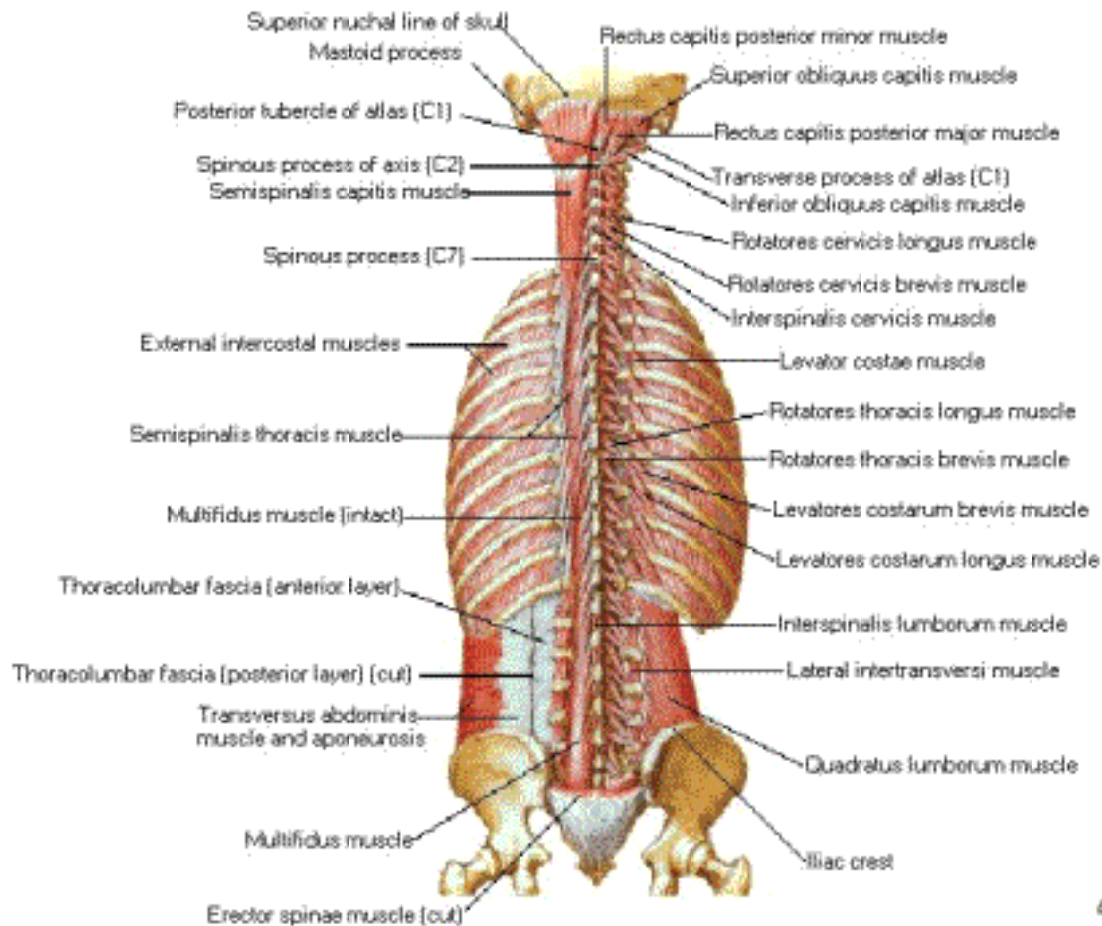
## Intermediate Layers



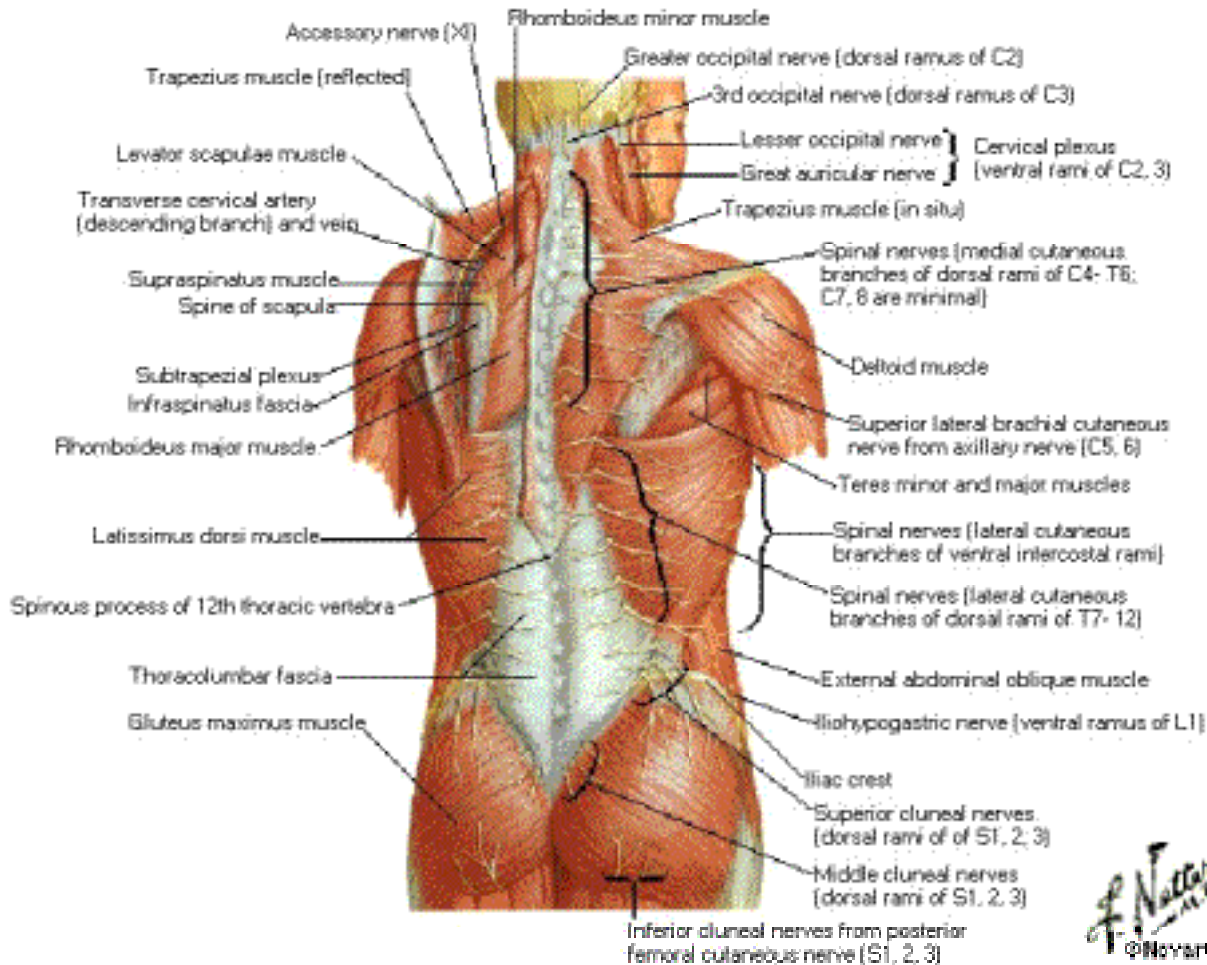
4

# Muscles of Back

## Deep Layers

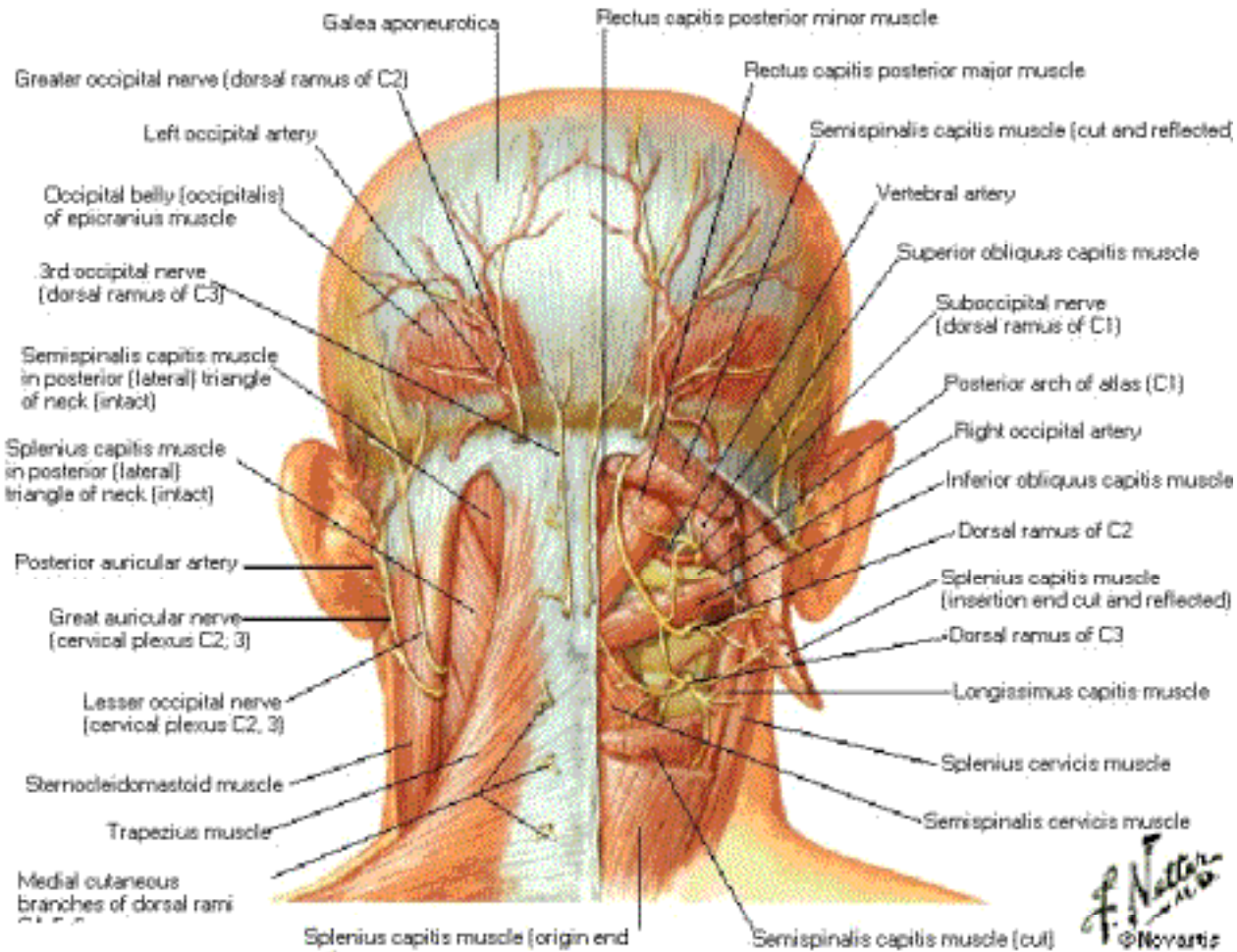


# Nerves of Back



*F. Netter*  
© Novart

# Suboccipital Triangle

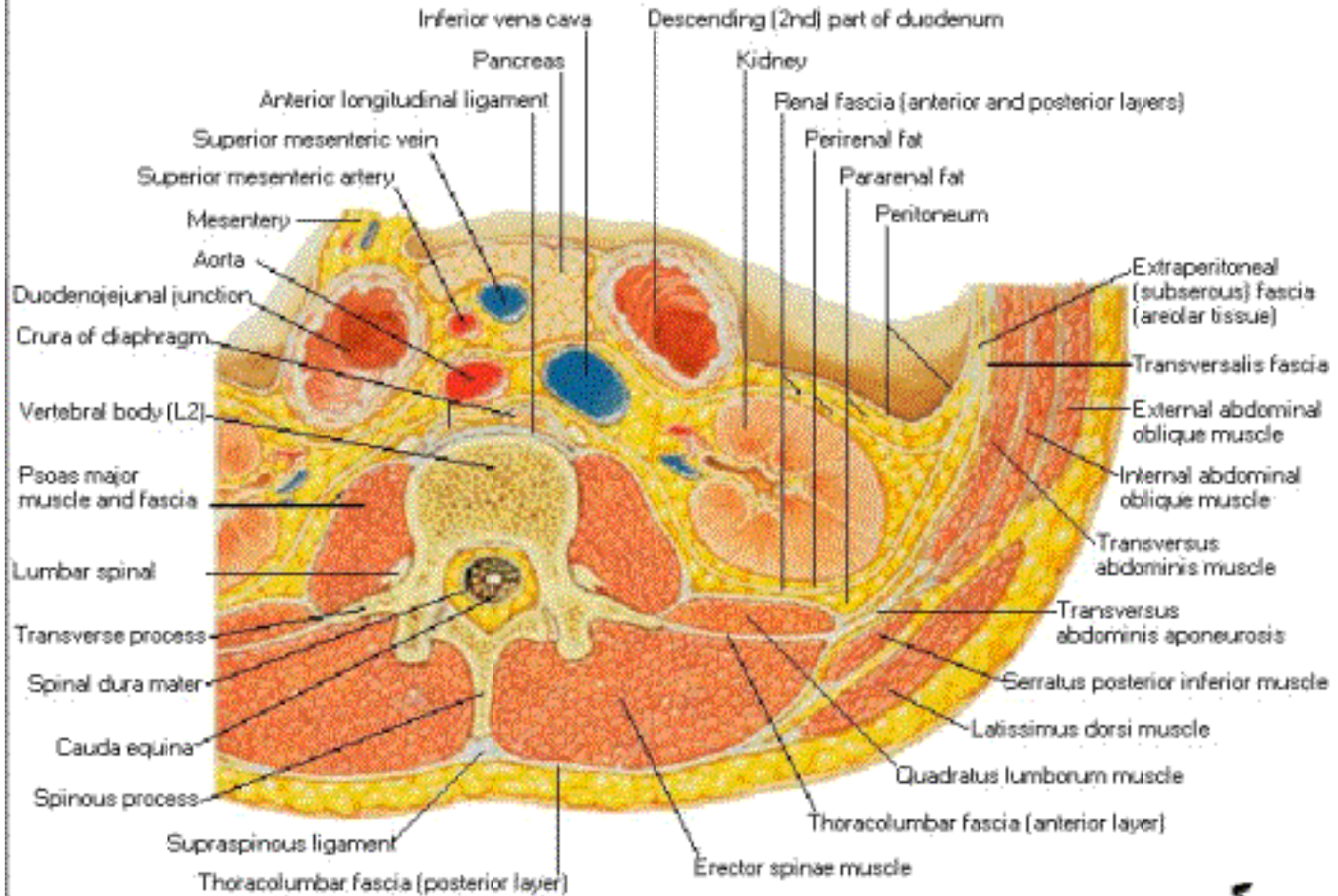


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© Novartis



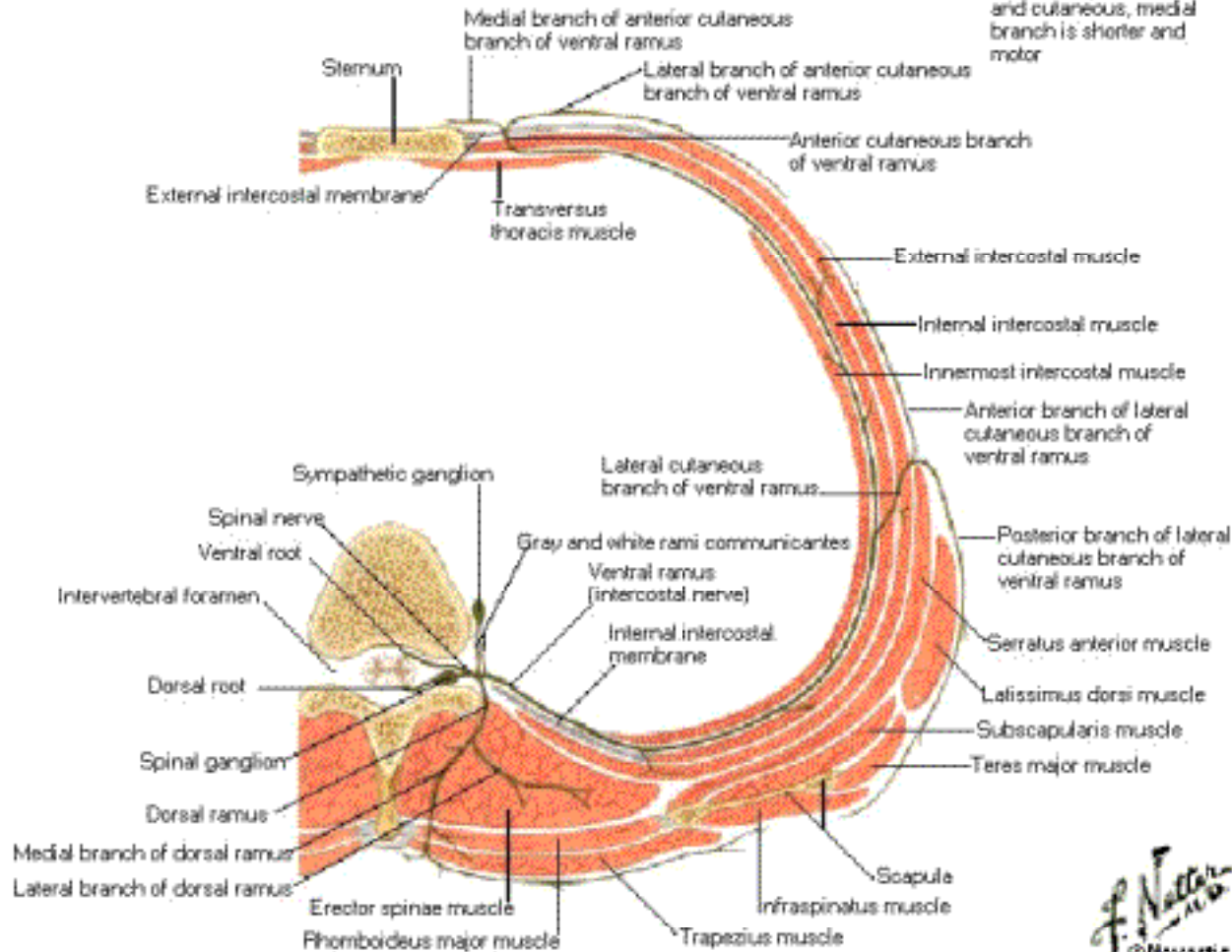
# Lumbar Region of Back

## Cross Section



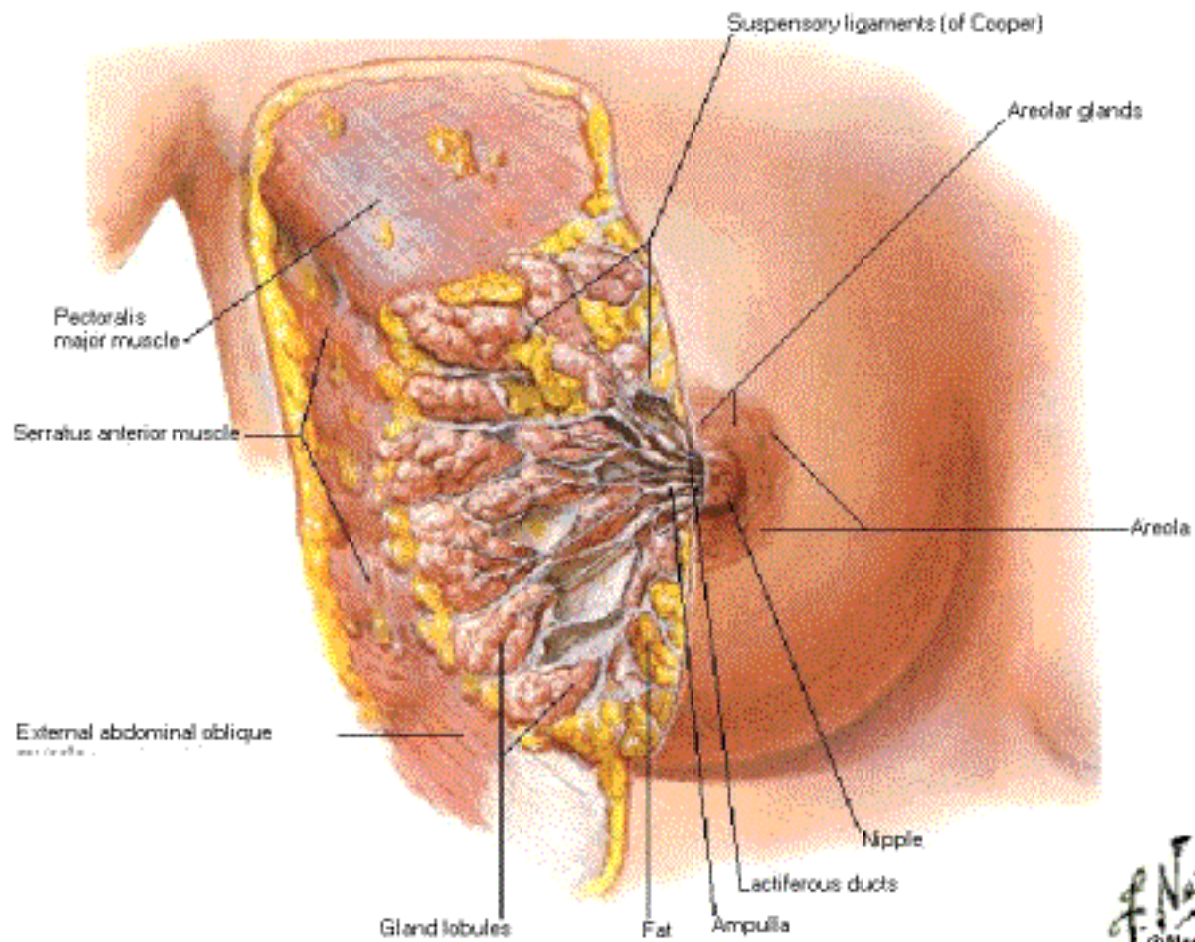
# Typical Thoracic Spinal Nerve

Note: in lower thoracic region lateral branch of dorsal ramus is longer and cutaneous, medial branch is shorter and motor



# Mammary Gland

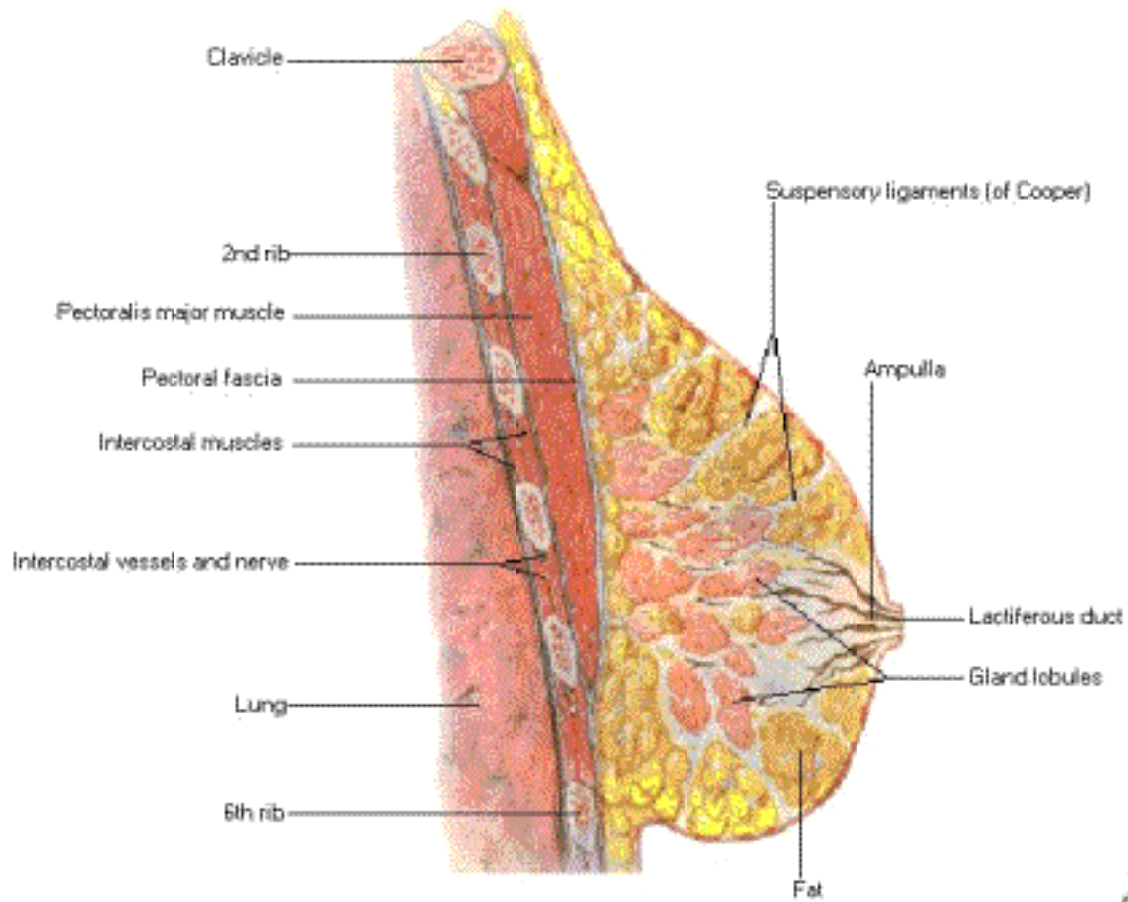
## Anterolateral Dissection



*f. n.*  
© No

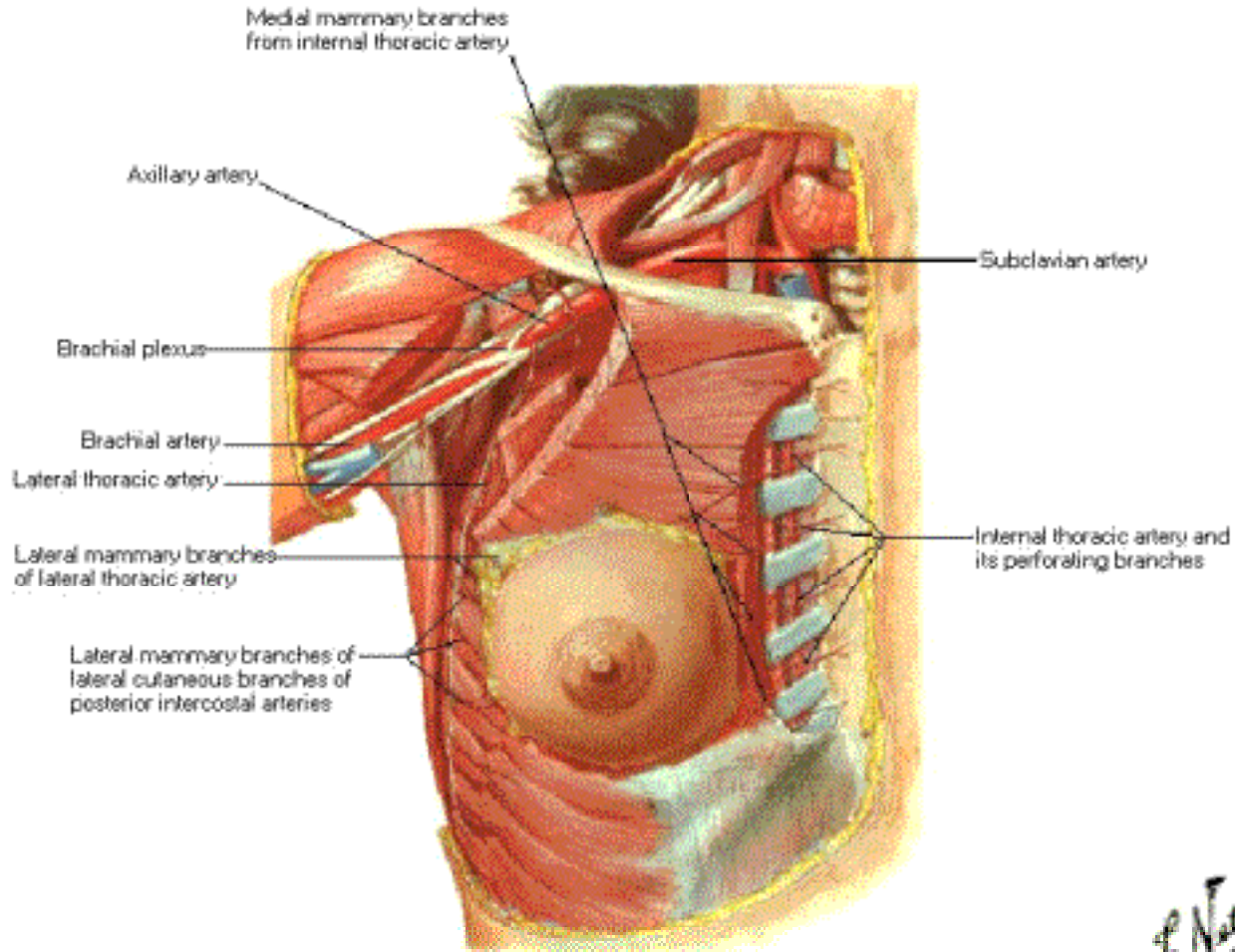
# Mammary Gland

## Sagittal Section

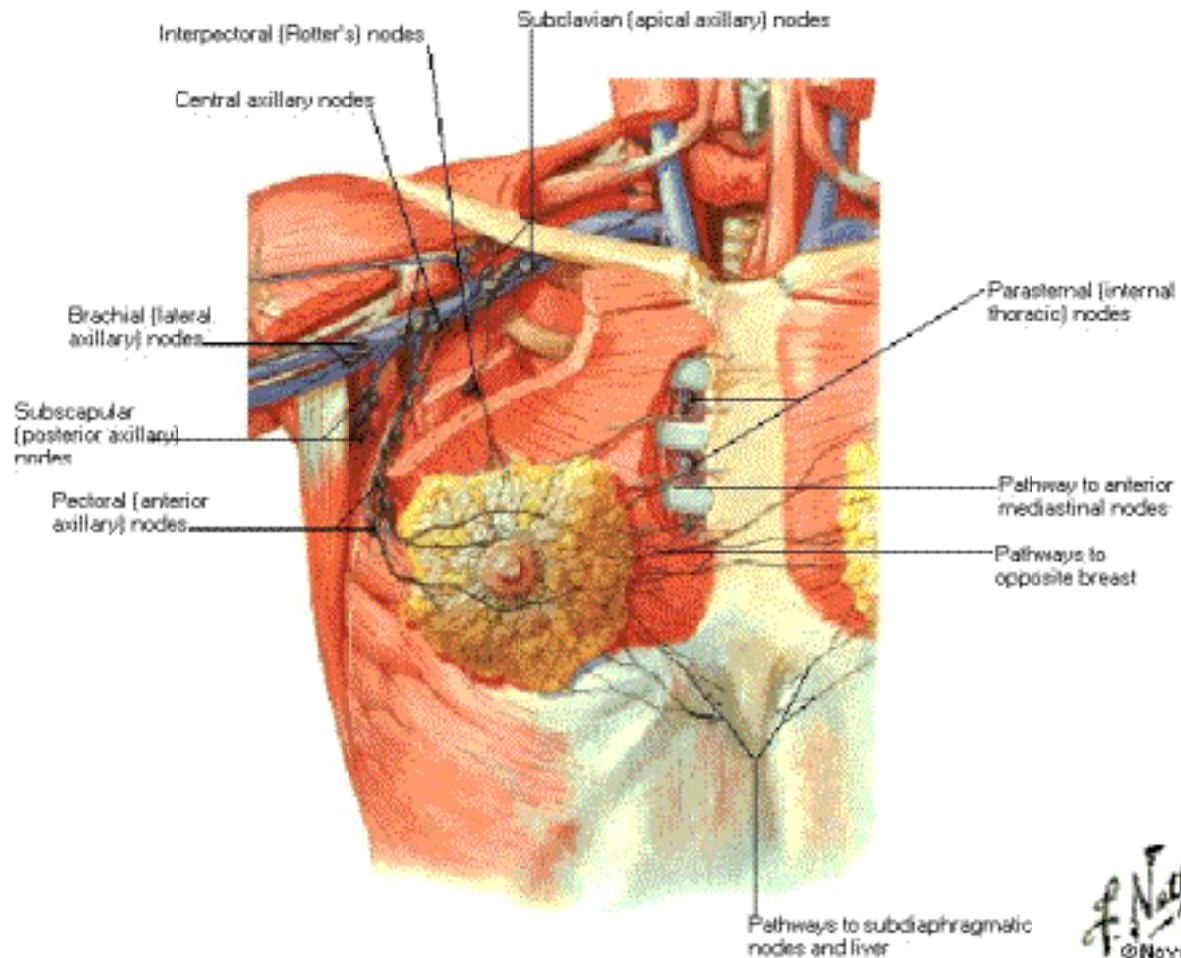




# Arteries of Mammary Gland

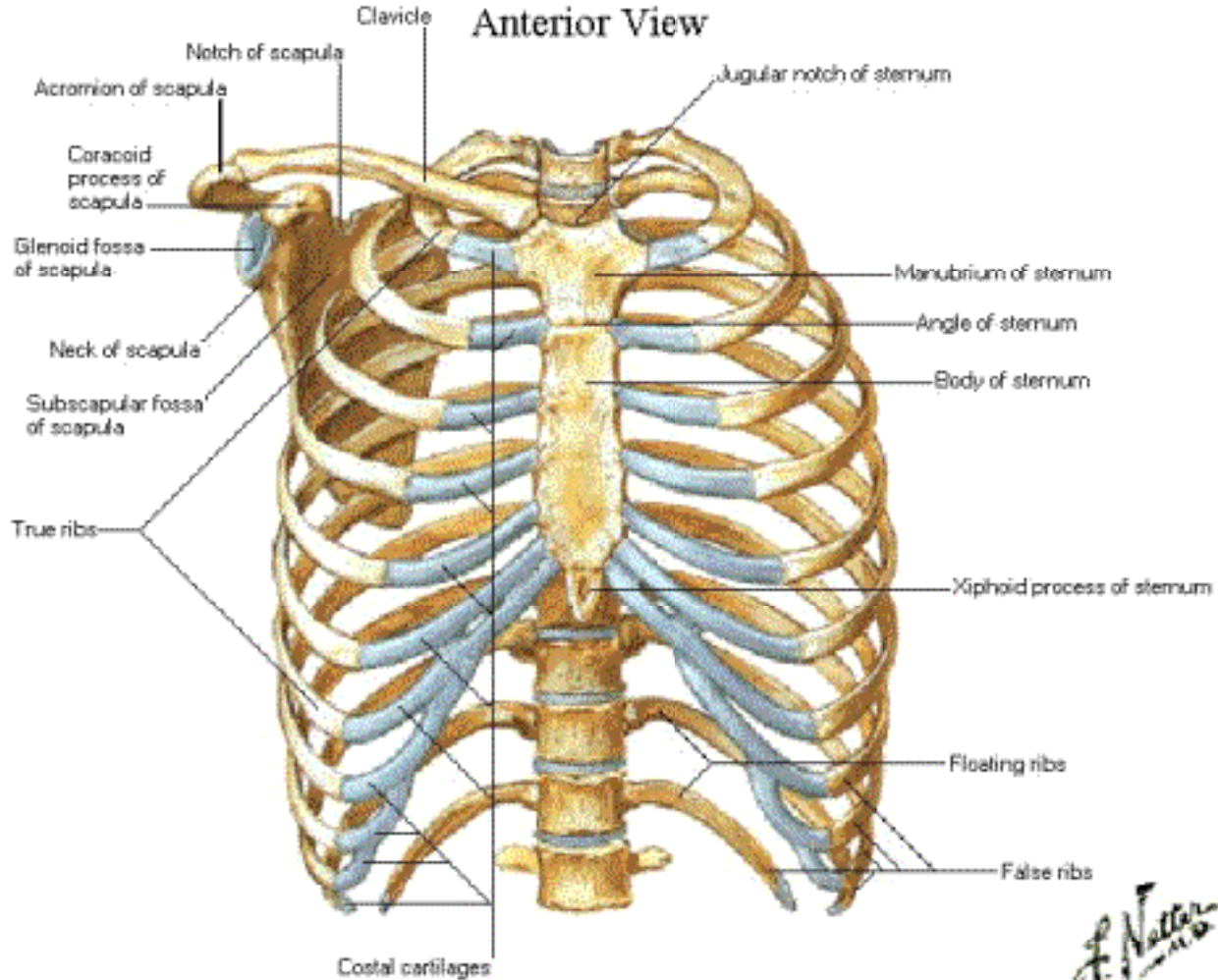


# Lymph Vessels and Nodes of Mammary Gland



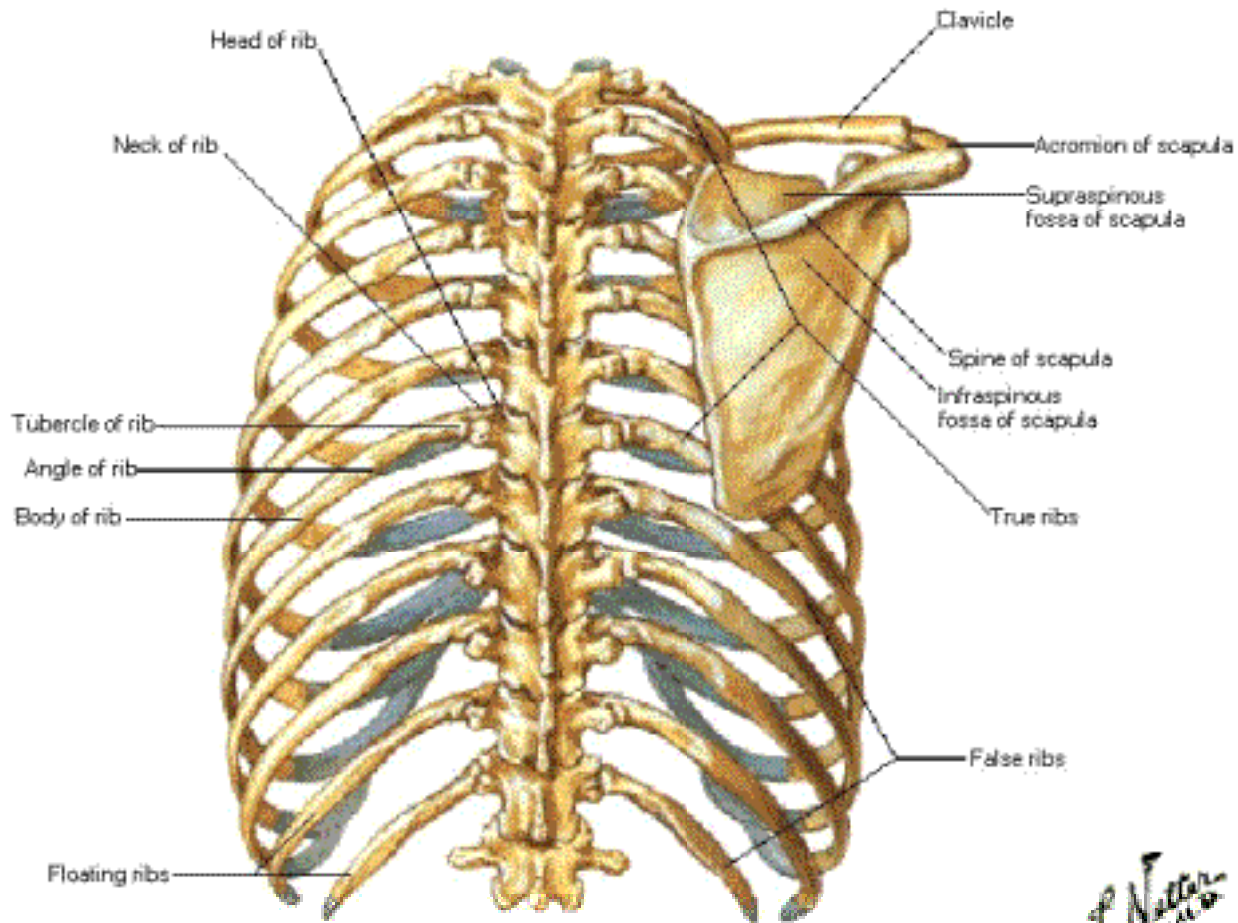
# Bony Framework of Thorax

## Anterior View



# Bony Framework of Thorax

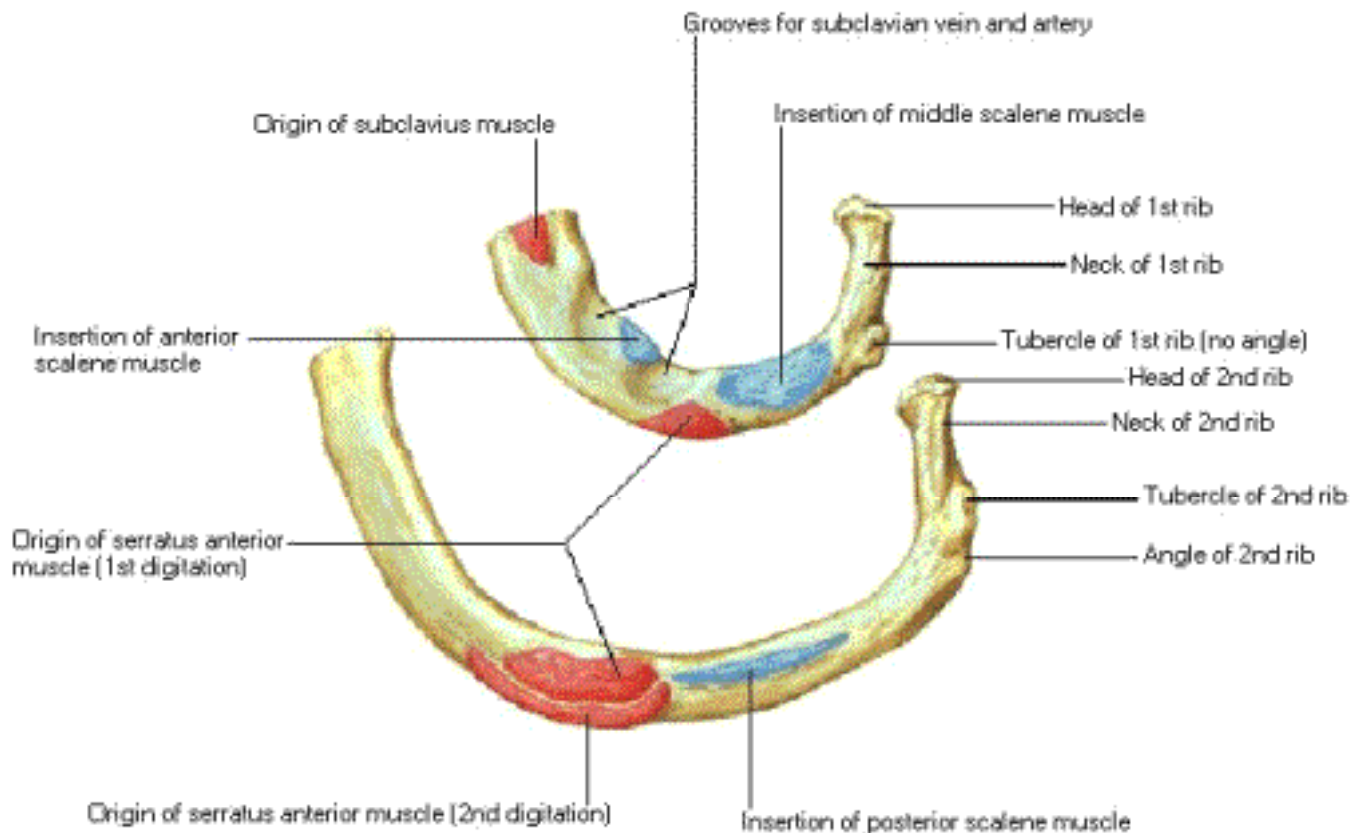
## Posterior View





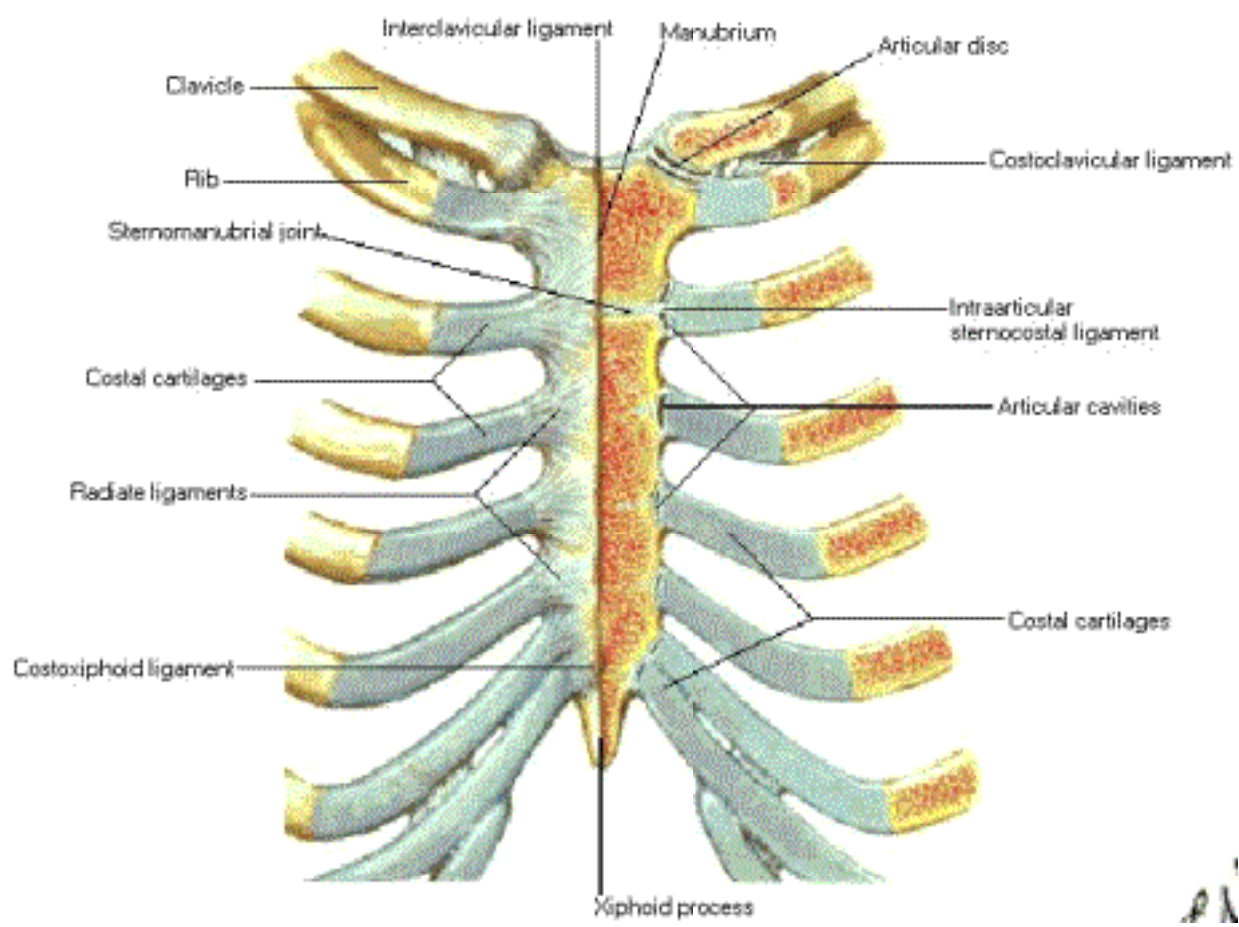
# Left 1st and 2nd Ribs

## Superior Views



# Sternocostal Articulations

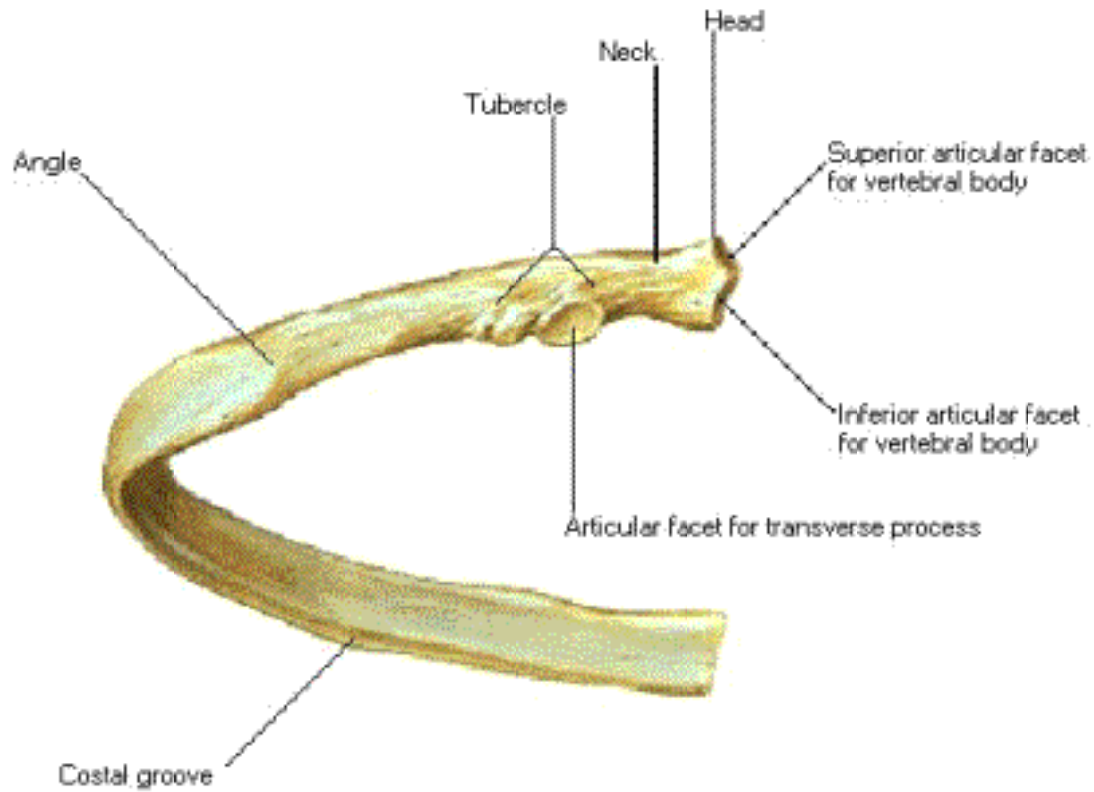
## Anterior View



PI

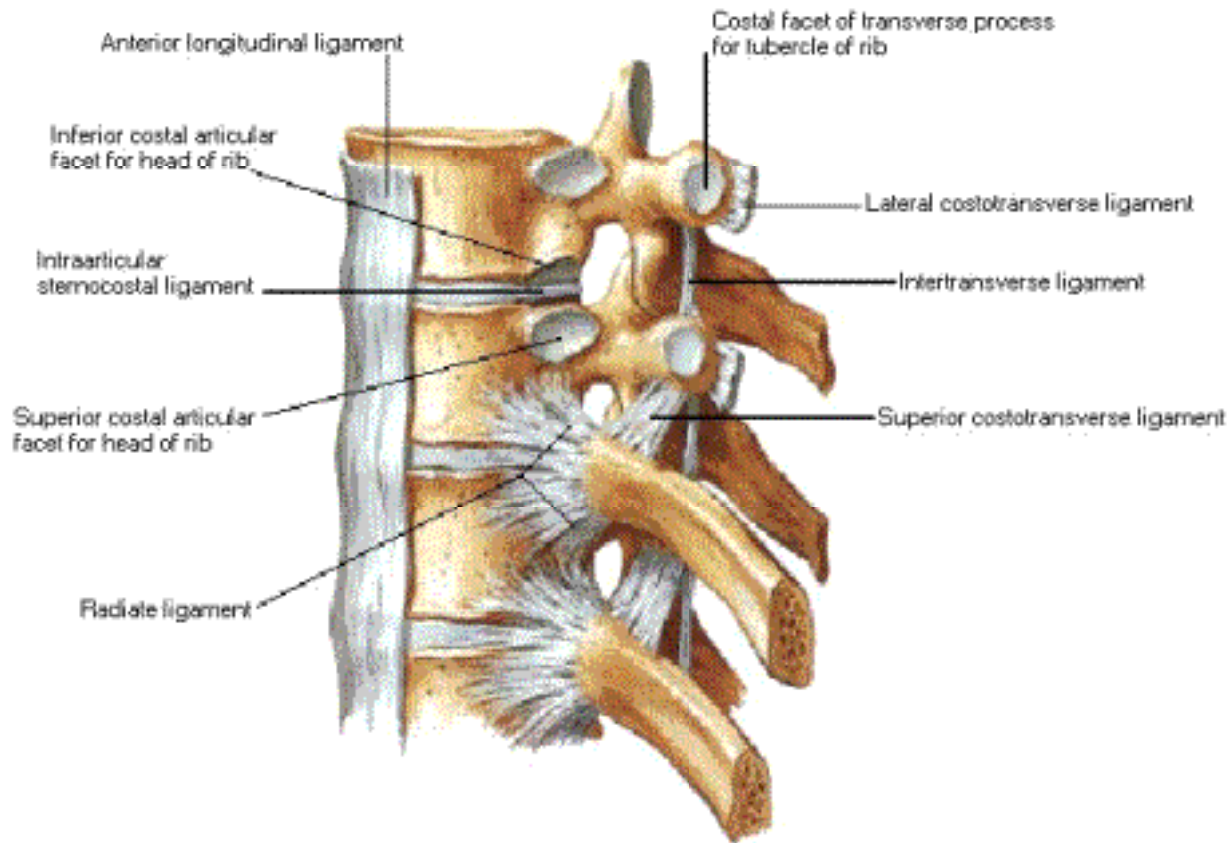
# Middle Rib

## Posterior View



# Costovertebral Joints

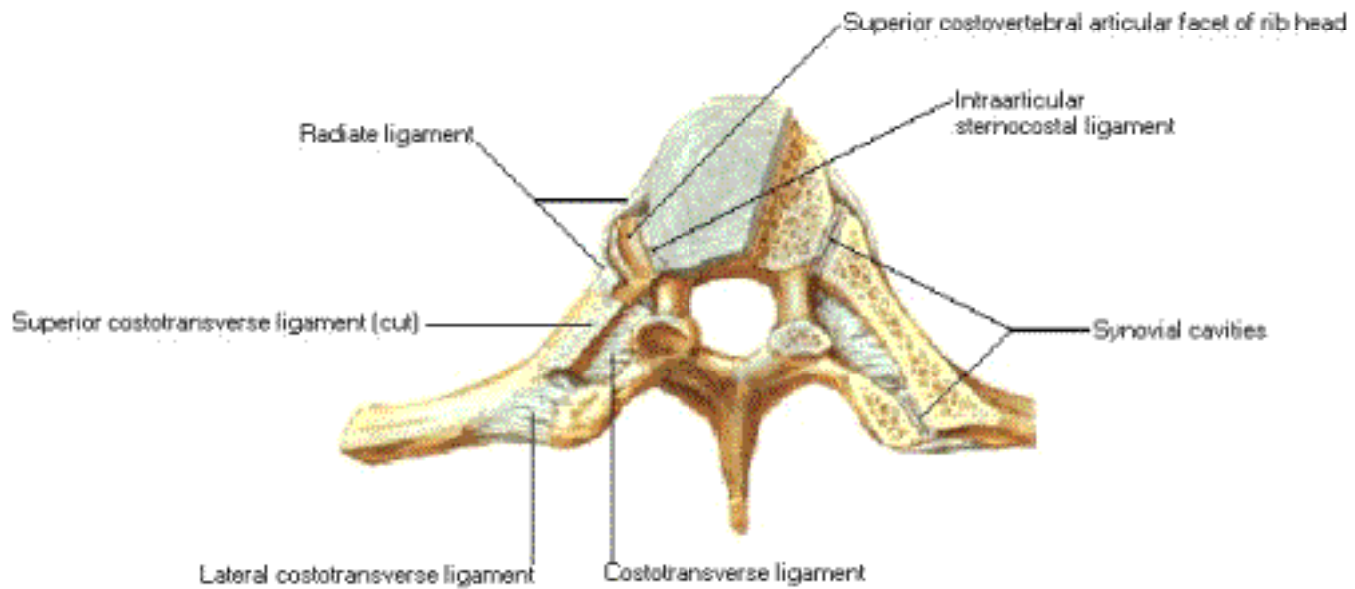
## Left Lateral View





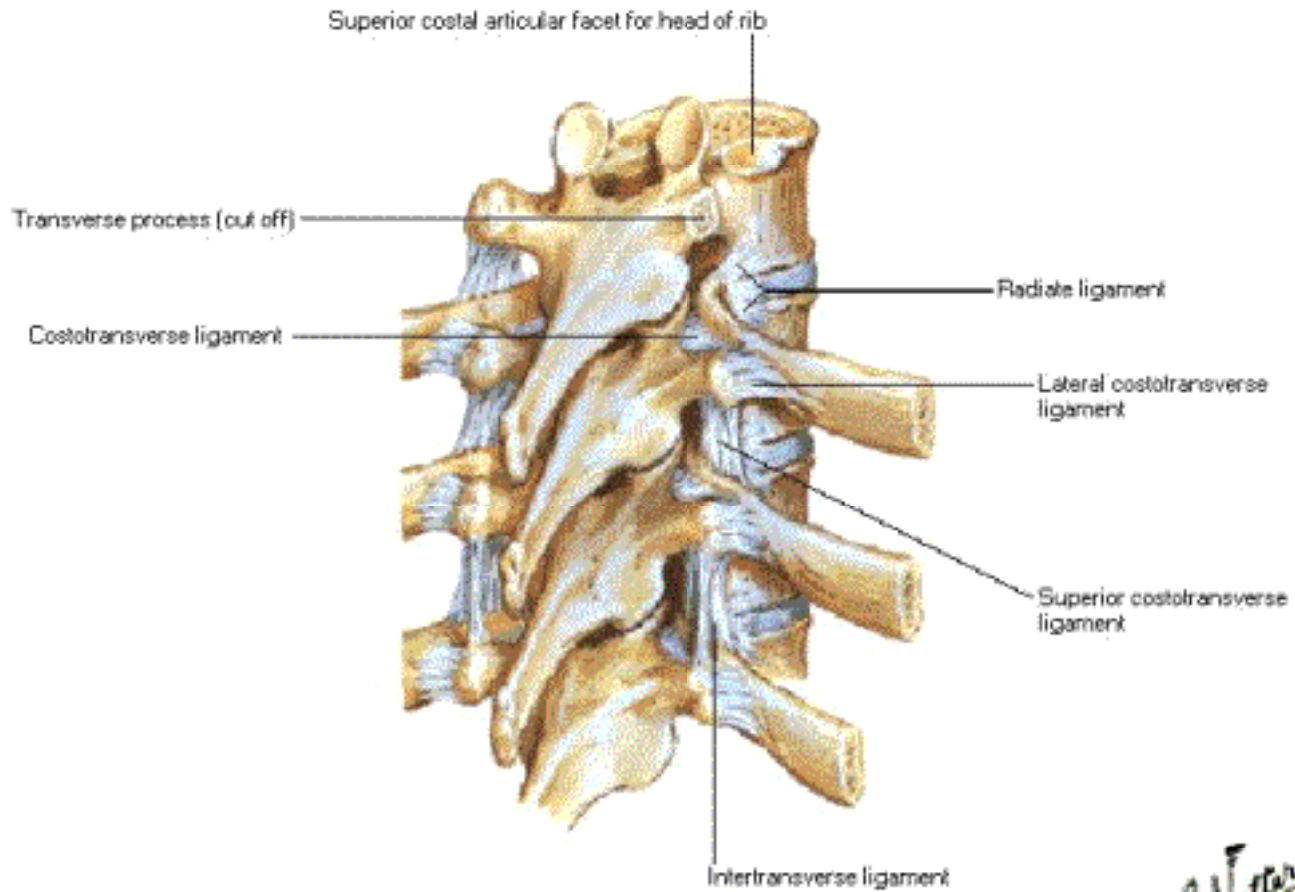
# Costovertebral Joints

## Transverse Section - Superior View



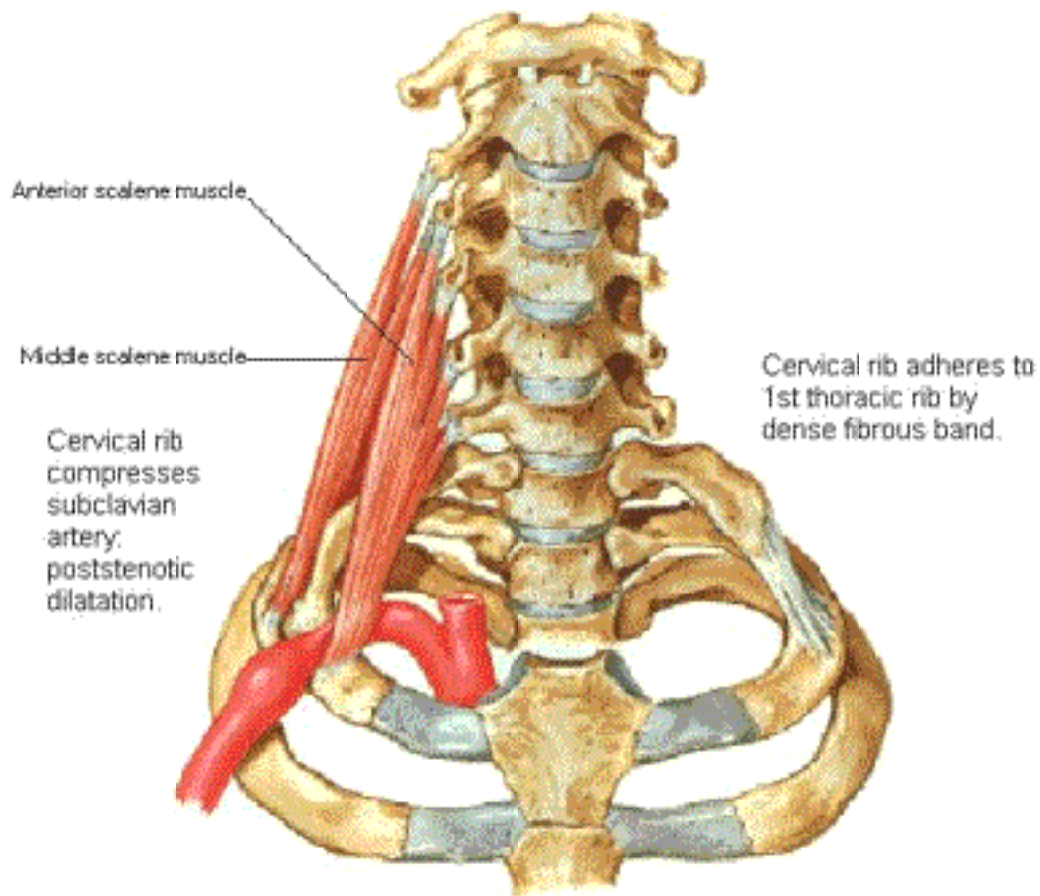
# Costovertebral Joints

## Right Posterolateral View

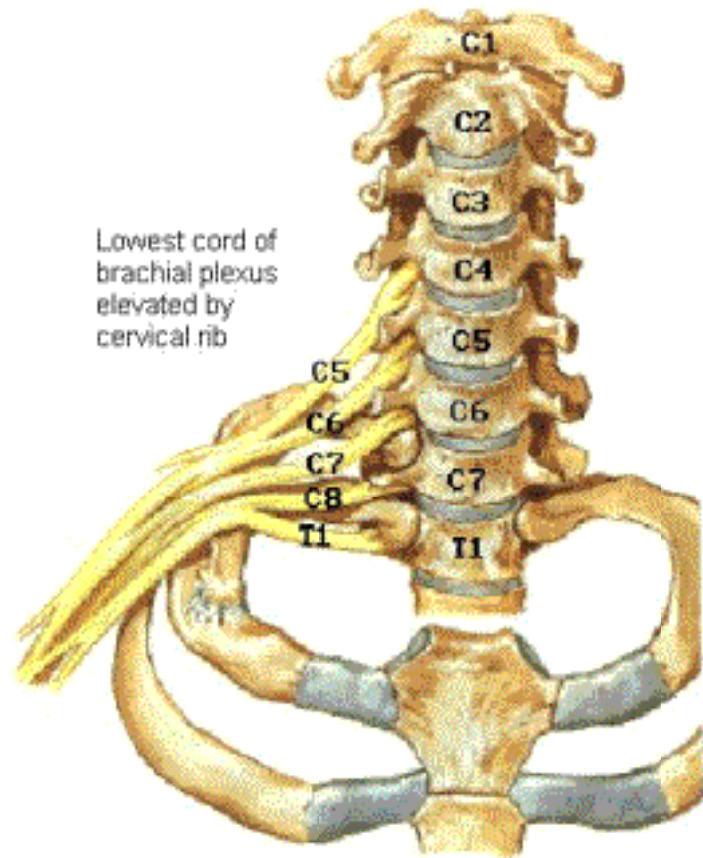


11/10/20

# Cervical Ribs and Related Anomalies 1

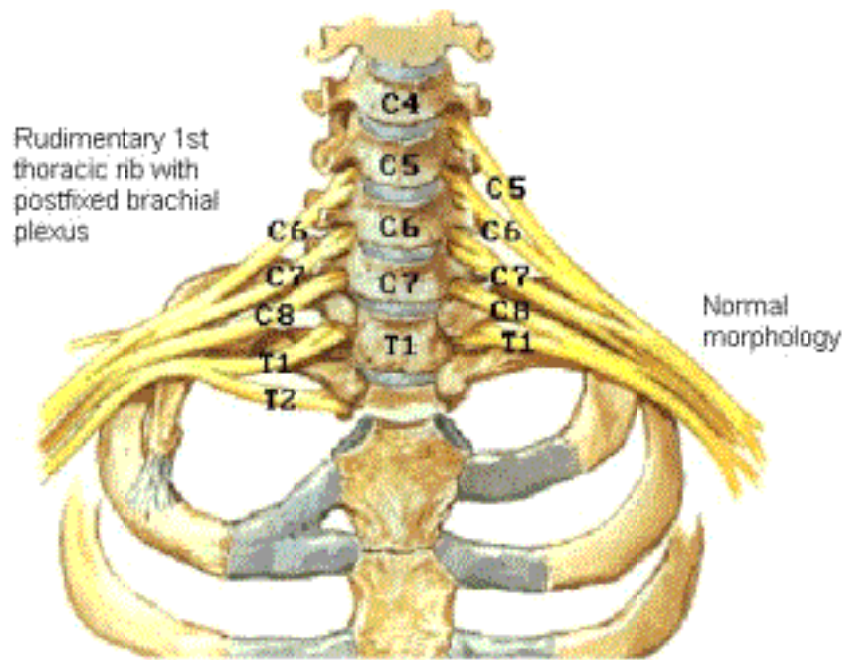


## Cervical Ribs and Related Anomalies 2



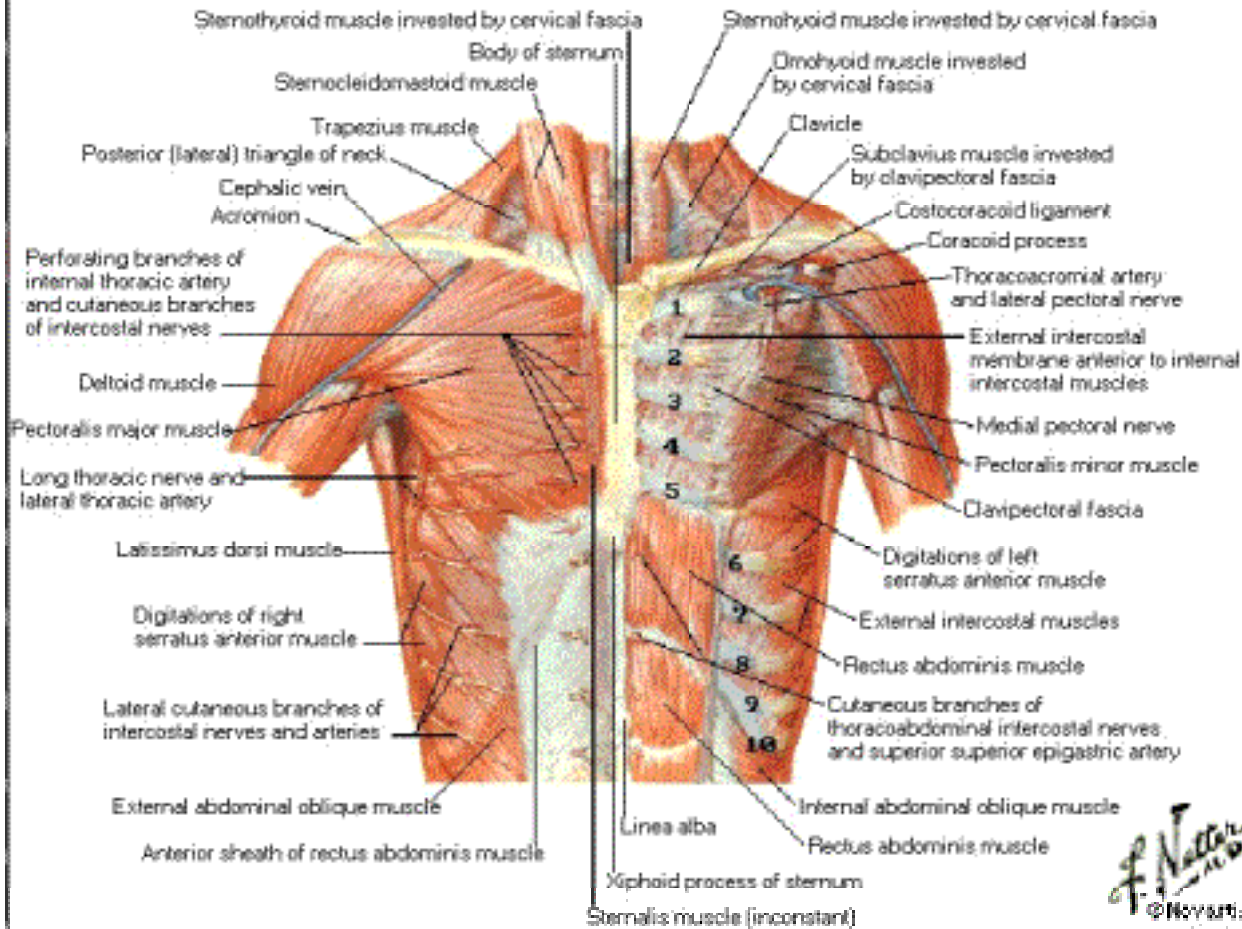


## Cervical Ribs and Related Anomalies 3



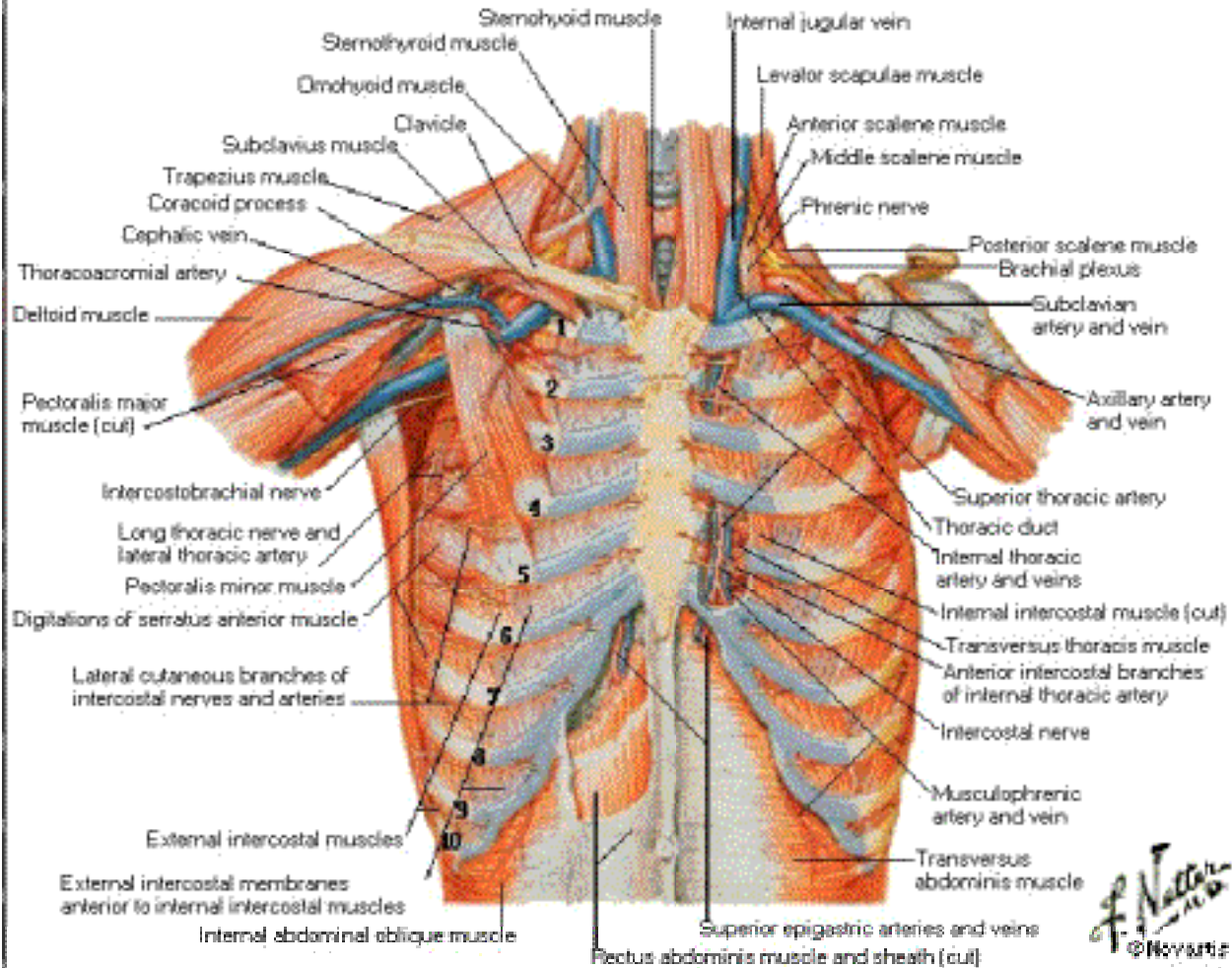
Note: cervical rib also often asymptomatic

# Anterior Thoracic Wall



*F. Netter*  
© H&W

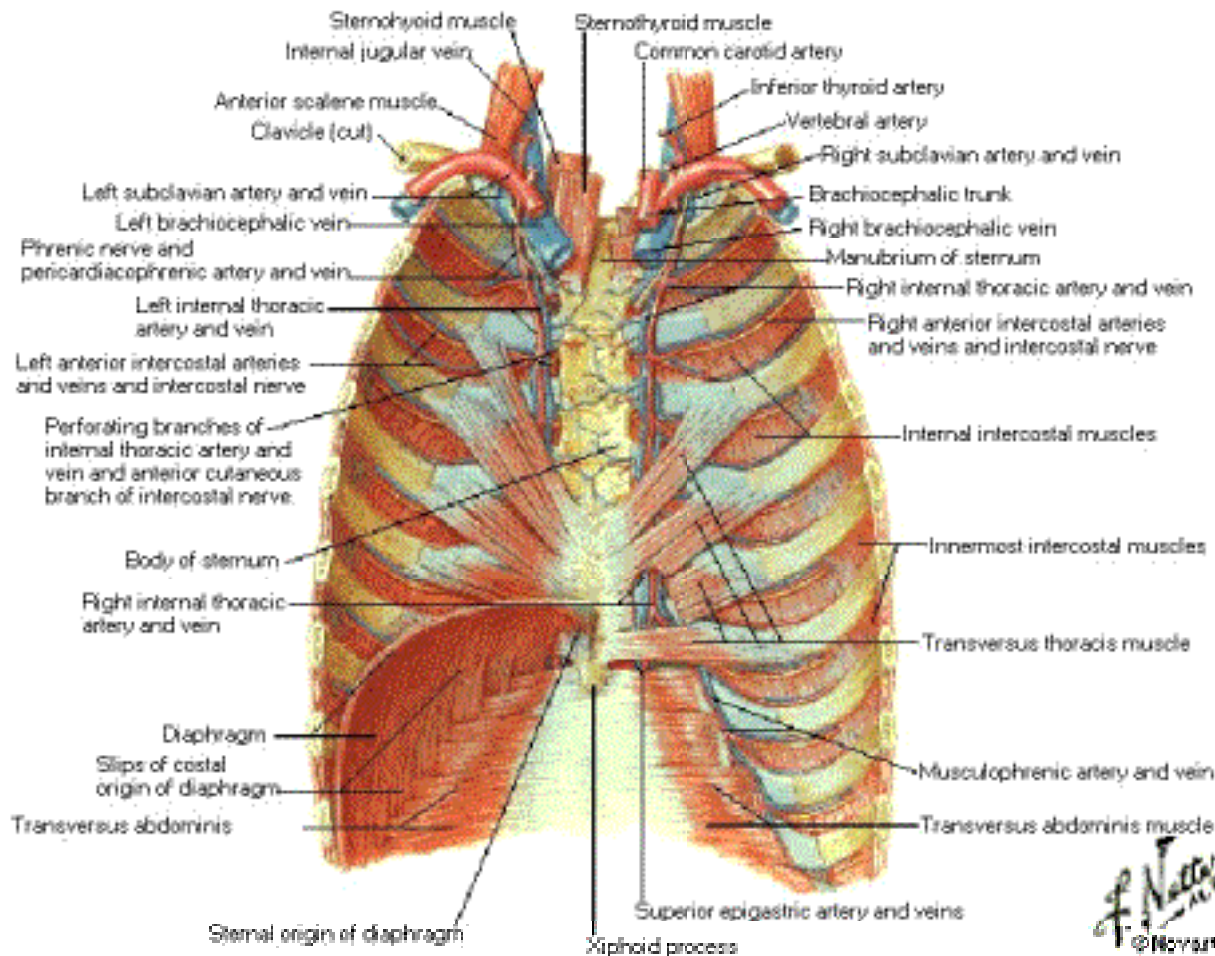
# Anterior Thoracic Wall [Continued]



*F. Netter*  
© 1997

# Anterior Thoracic Wall

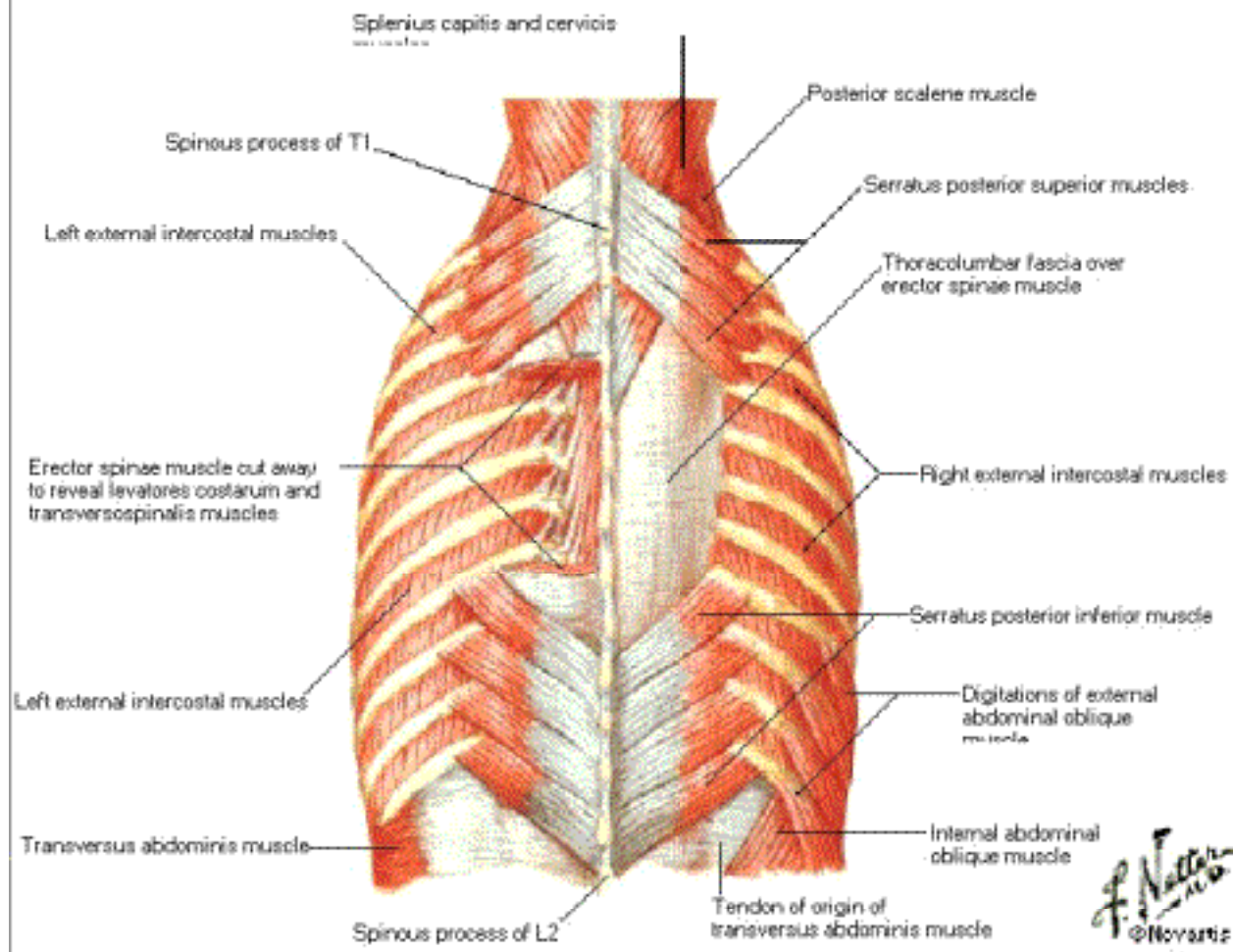
## Internal View



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M.D.  
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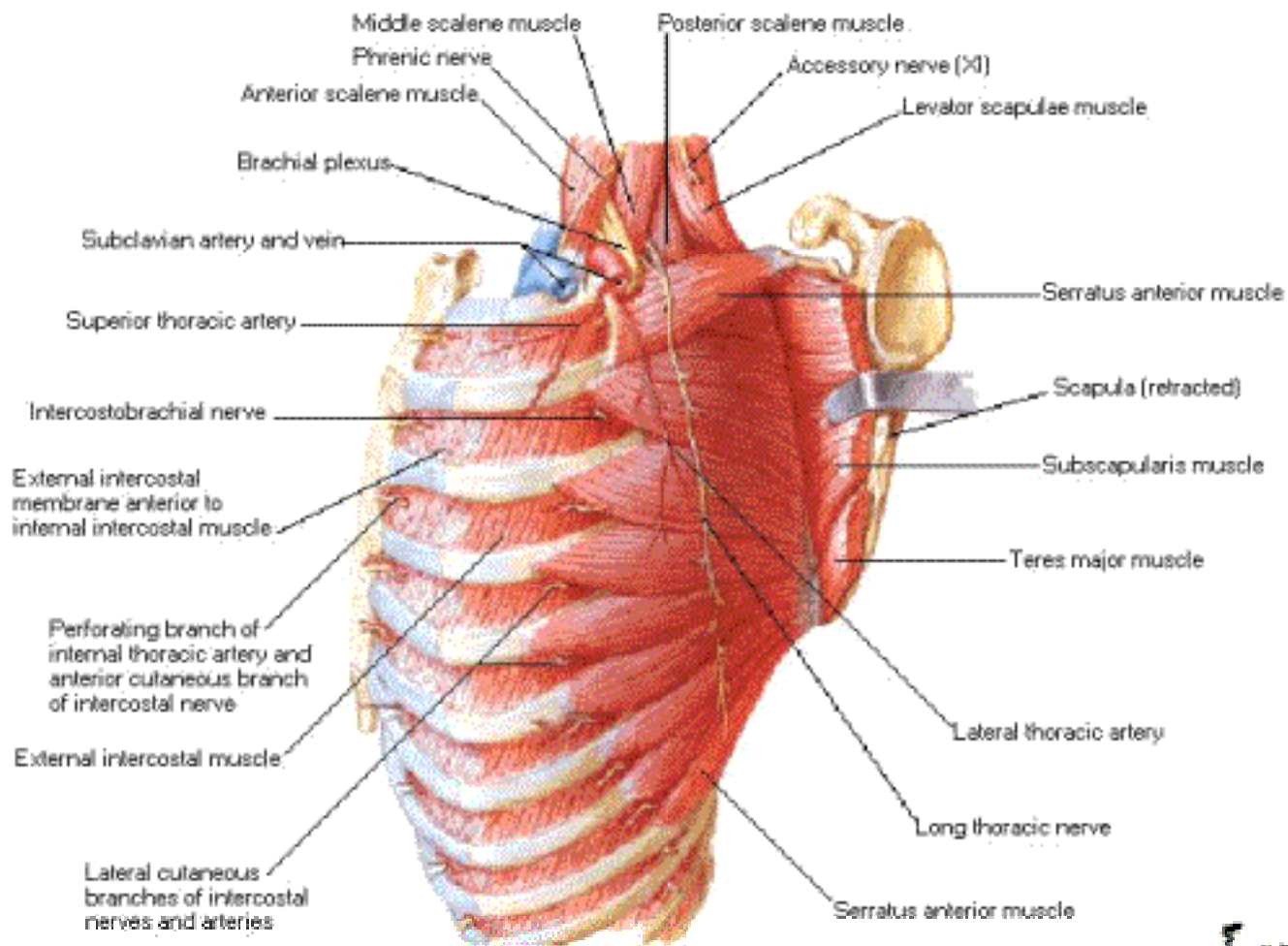


# Deep Posterior Thoracic Wall

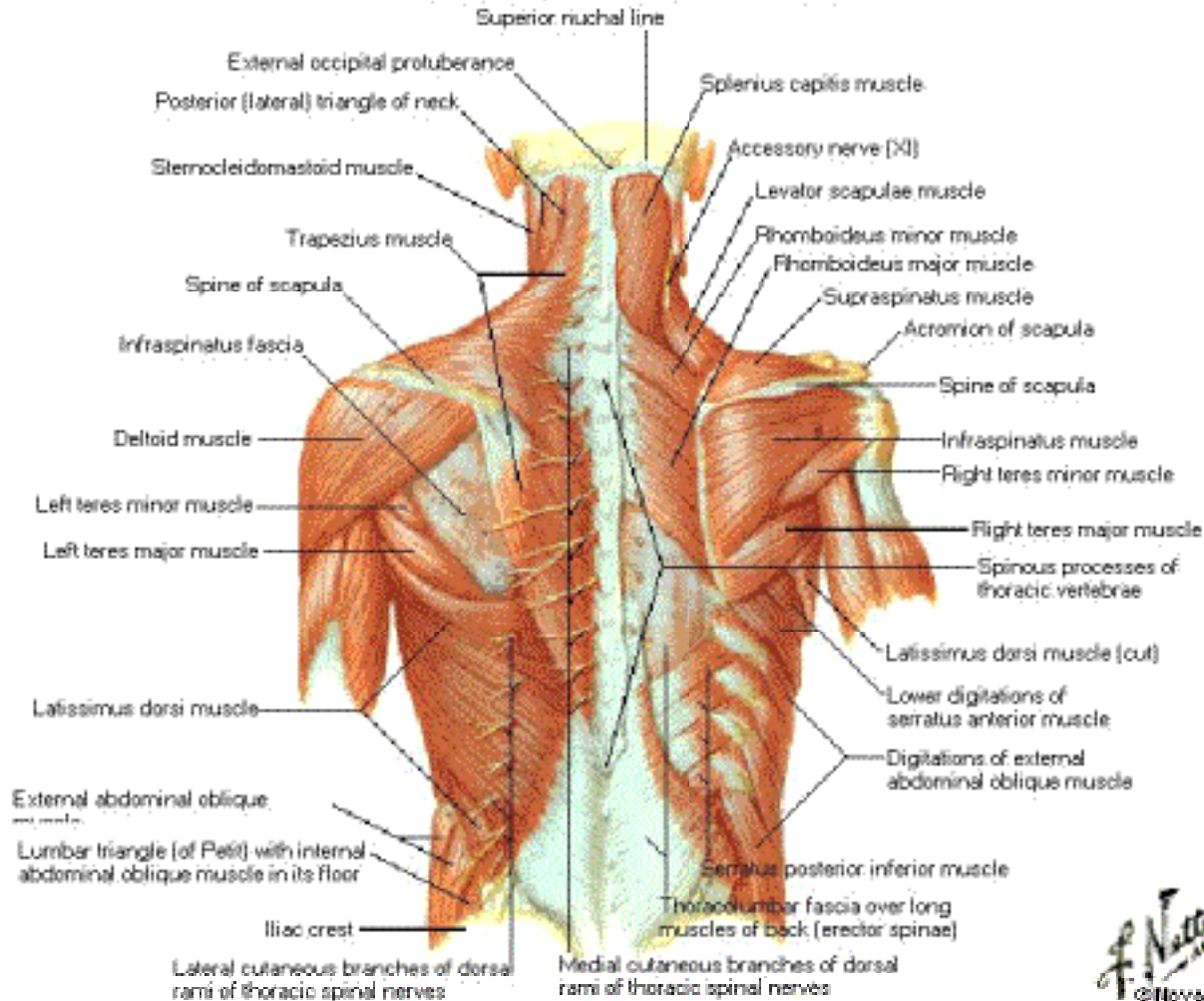


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# Lateral Thoracic Wall

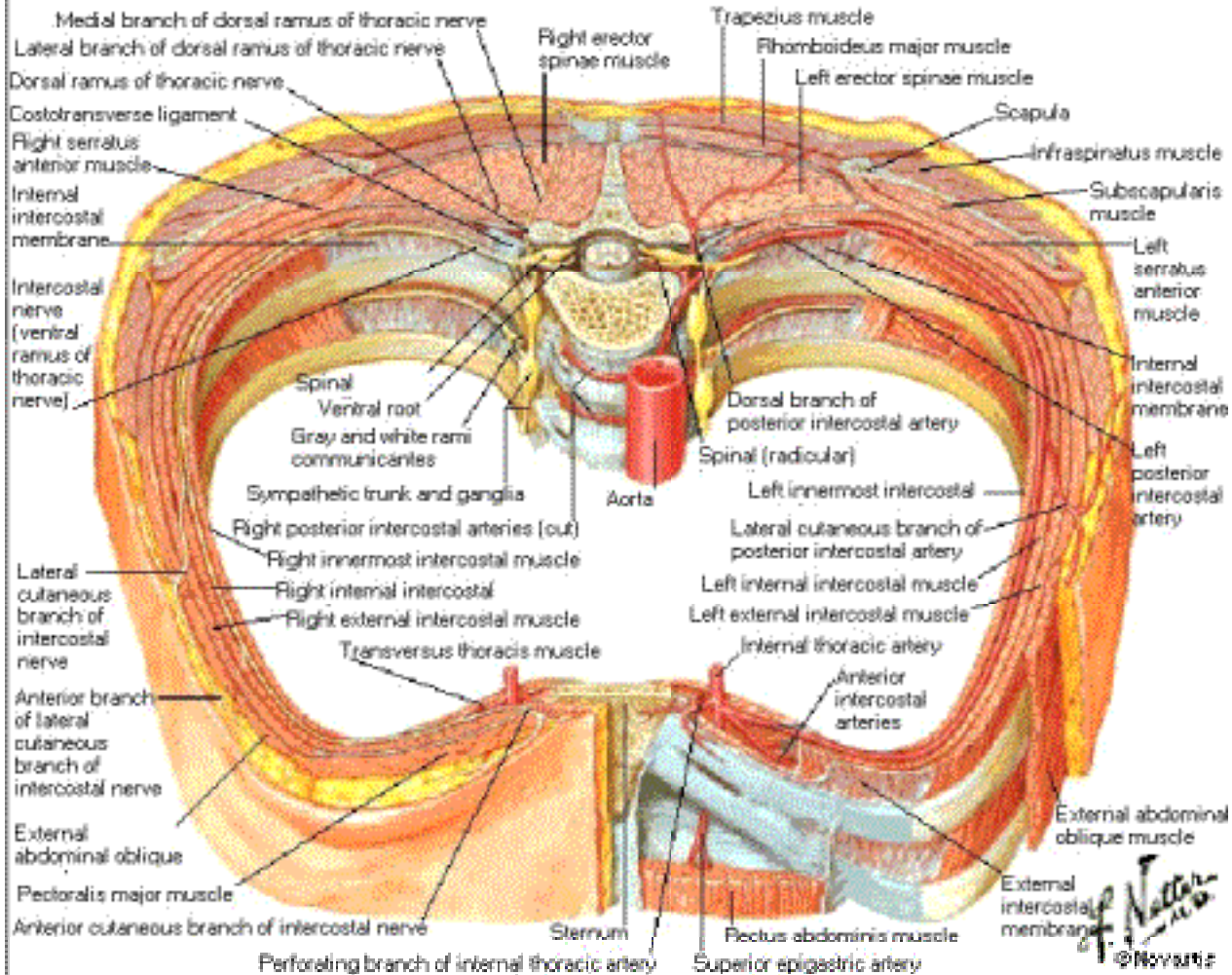


# Posterior Thoracic Wall



*F. Netter*  
© Netter

# Intercostal Nerves and Arteries

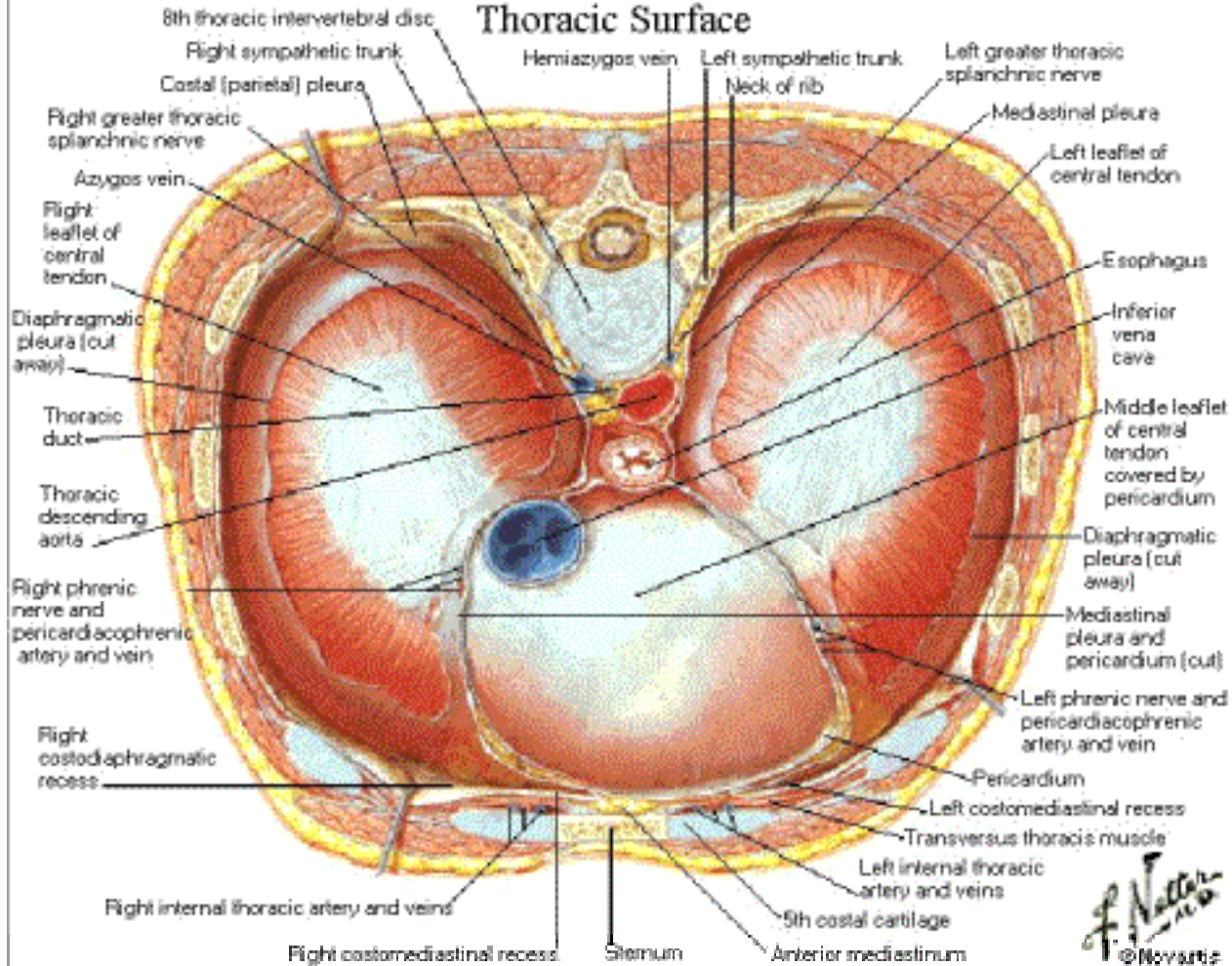


of Nature  
 © 2008



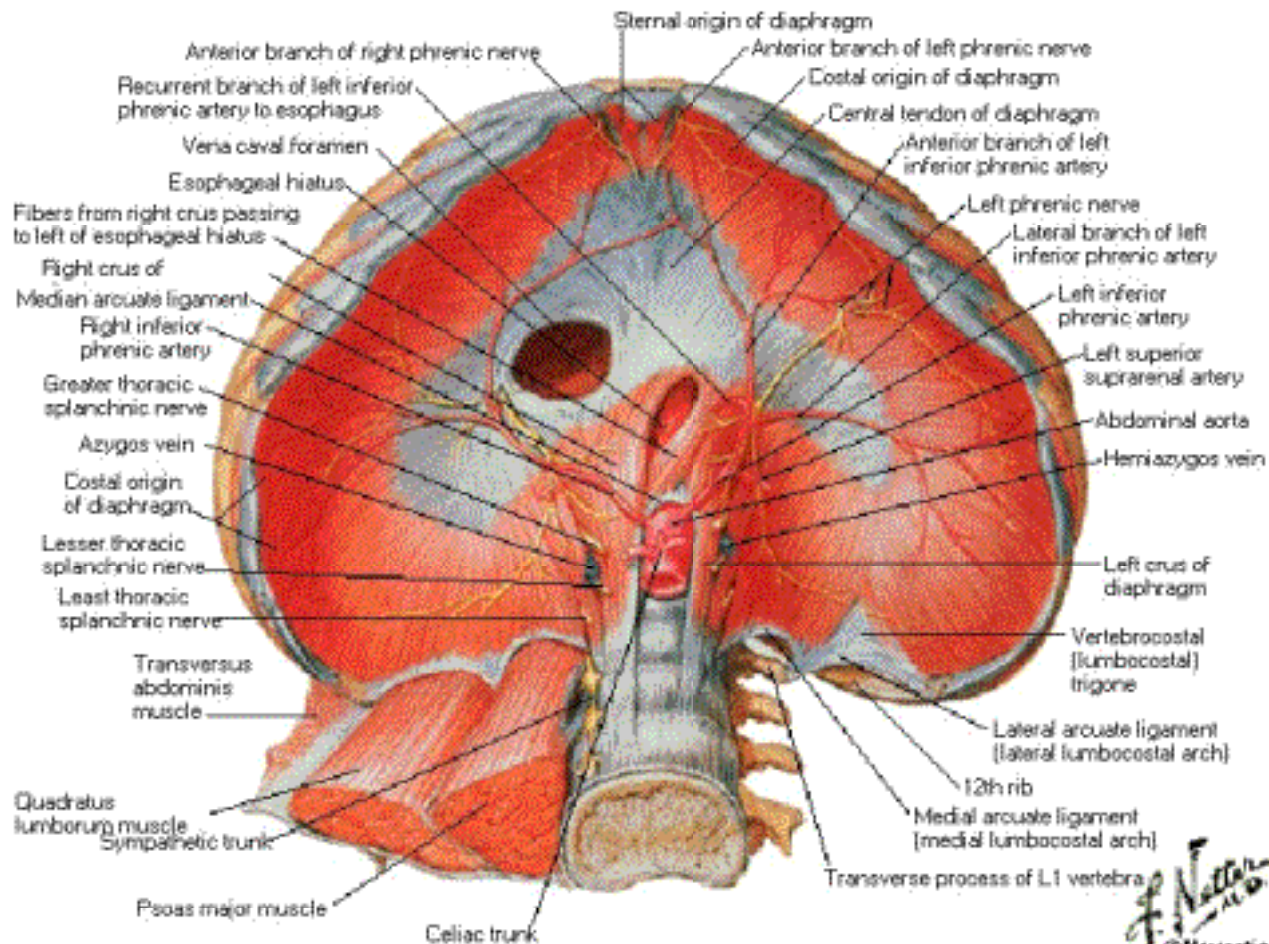
# Diaphragm

## Thoracic Surface

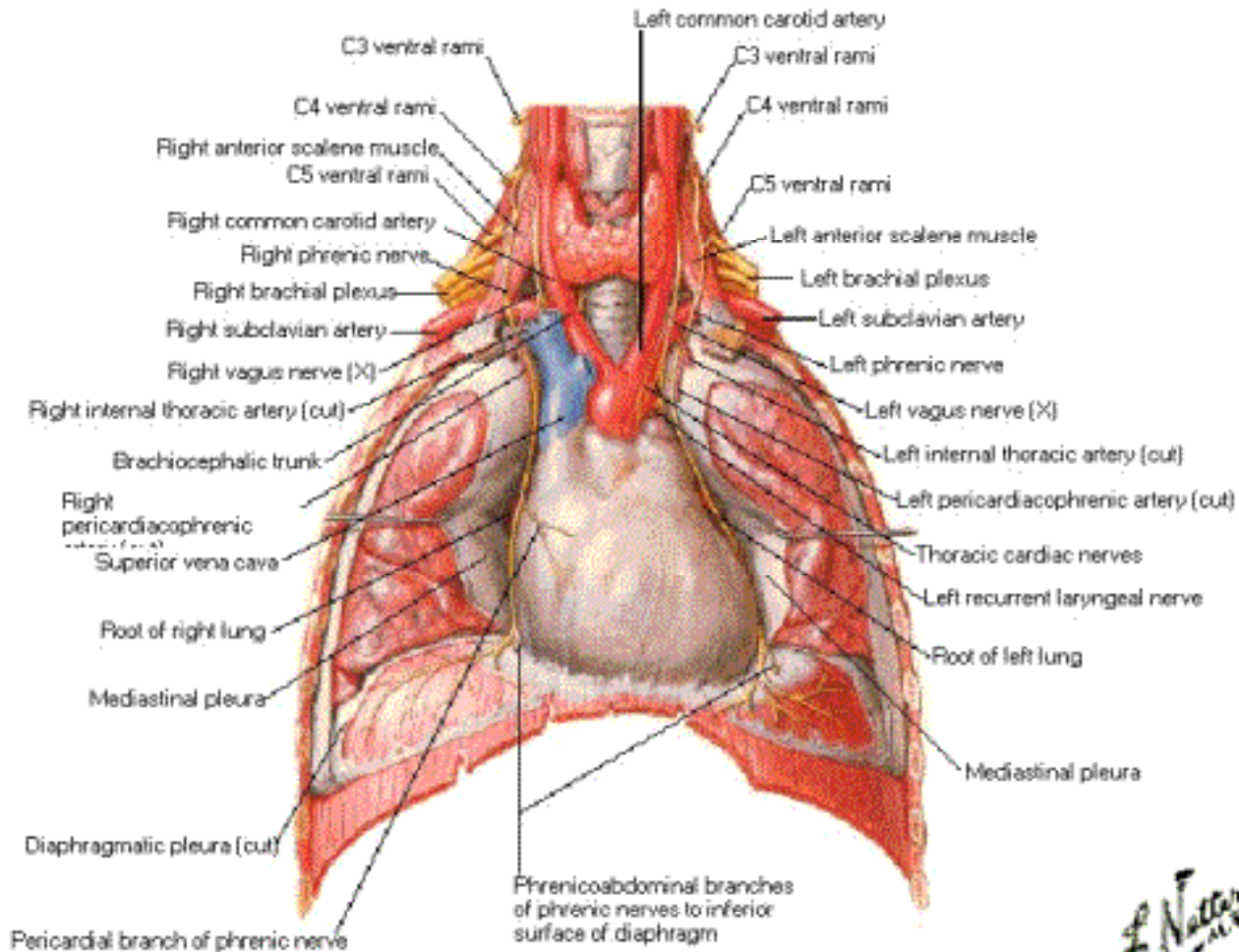


# Diaphragm

## Abdominal Surface

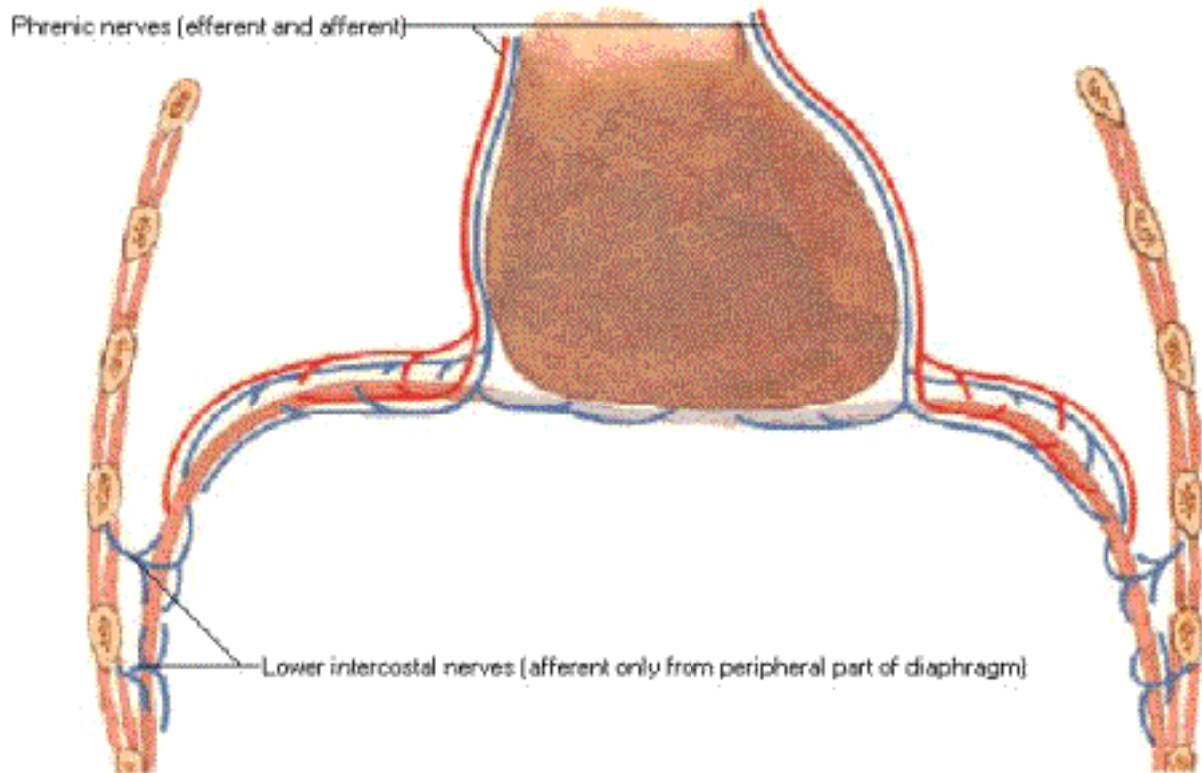


# Phrenic Nerve in Situ



*Dr. Natta*

# Phrenic Nerve Schema





# Muscles of Respiration

## Muscles of inspiration

### Accessory

**Sternocleidomastoid**  
 Sternocleidomastoid - This accessory muscle of inspiration elevates the sternum.

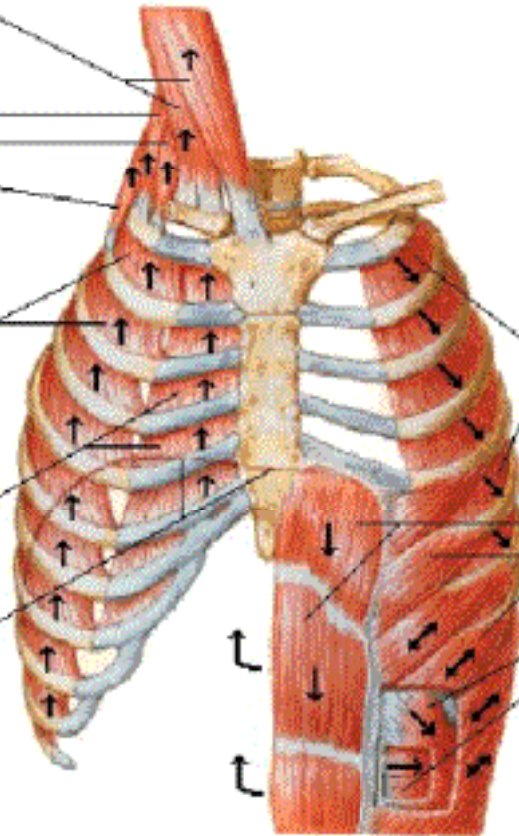
**Middle scalene**  
**Anterior scalene**  
**Posterior scalene**  
 Scalenes - These accessory muscles of inspiration elevate and fix the upper ribs.

### 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

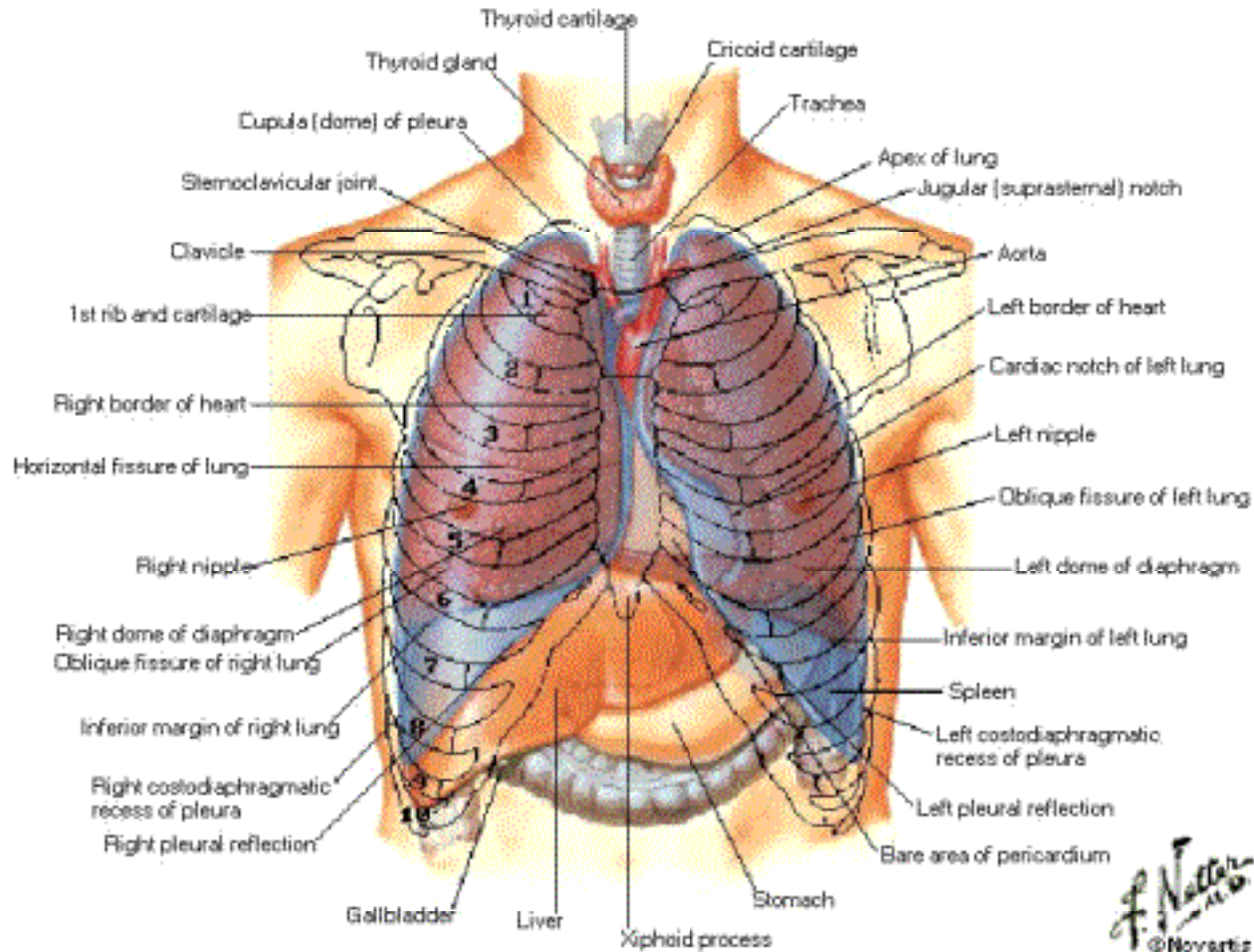
### Active breathing

**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.

# Topography of Lungs

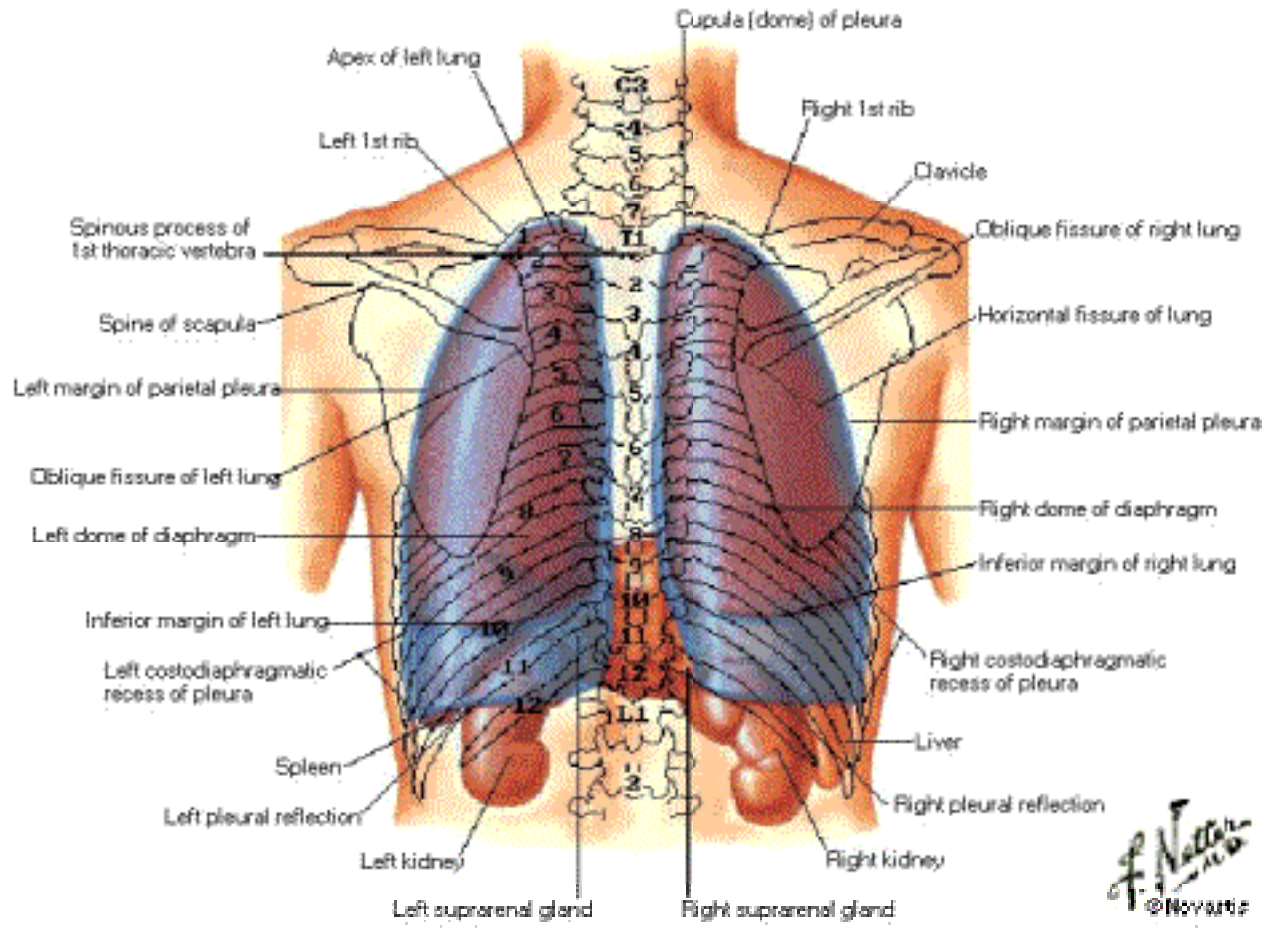
## Anterior View



*F. Netter M.D.*  
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# Topography of Lungs

## Posterior View

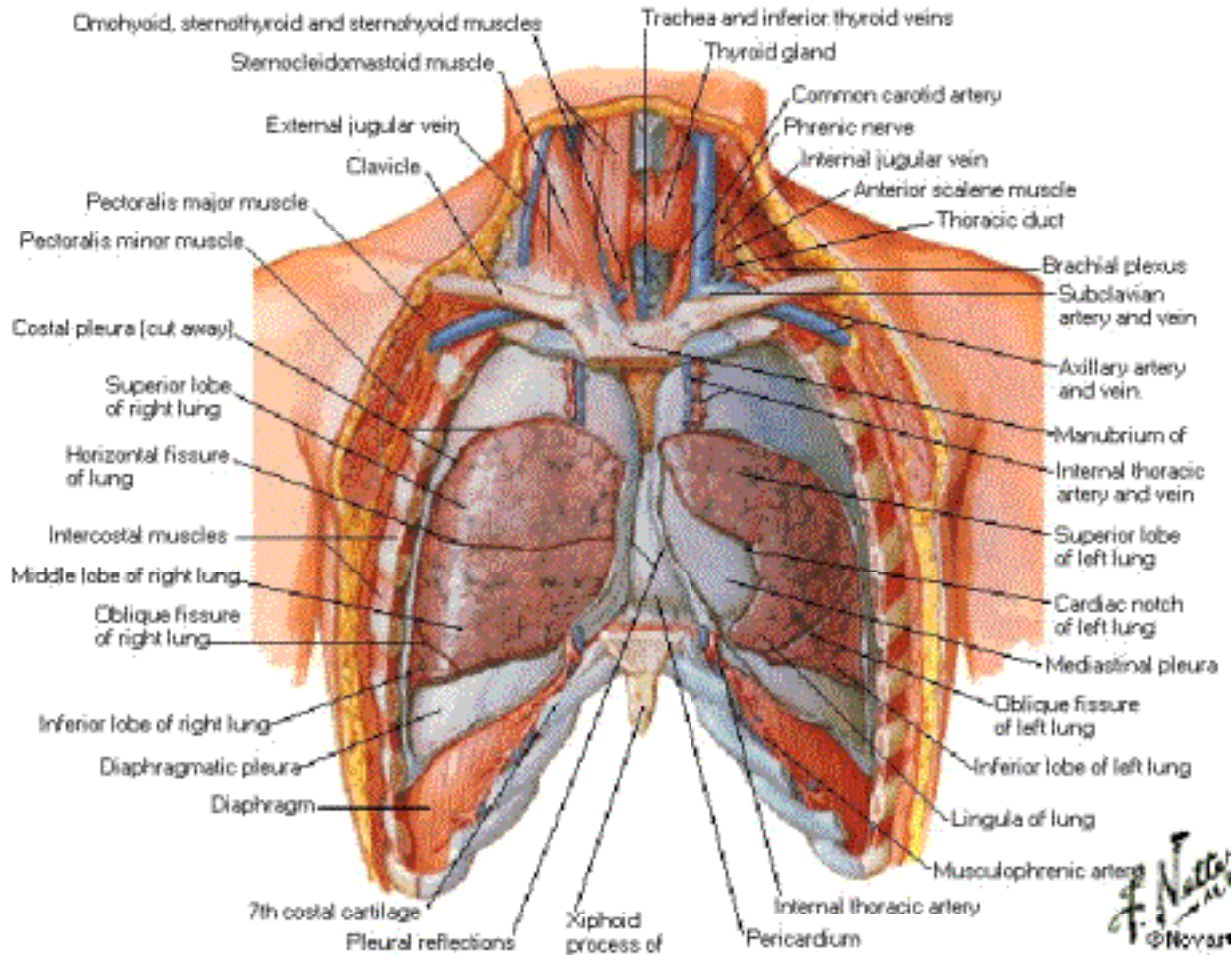


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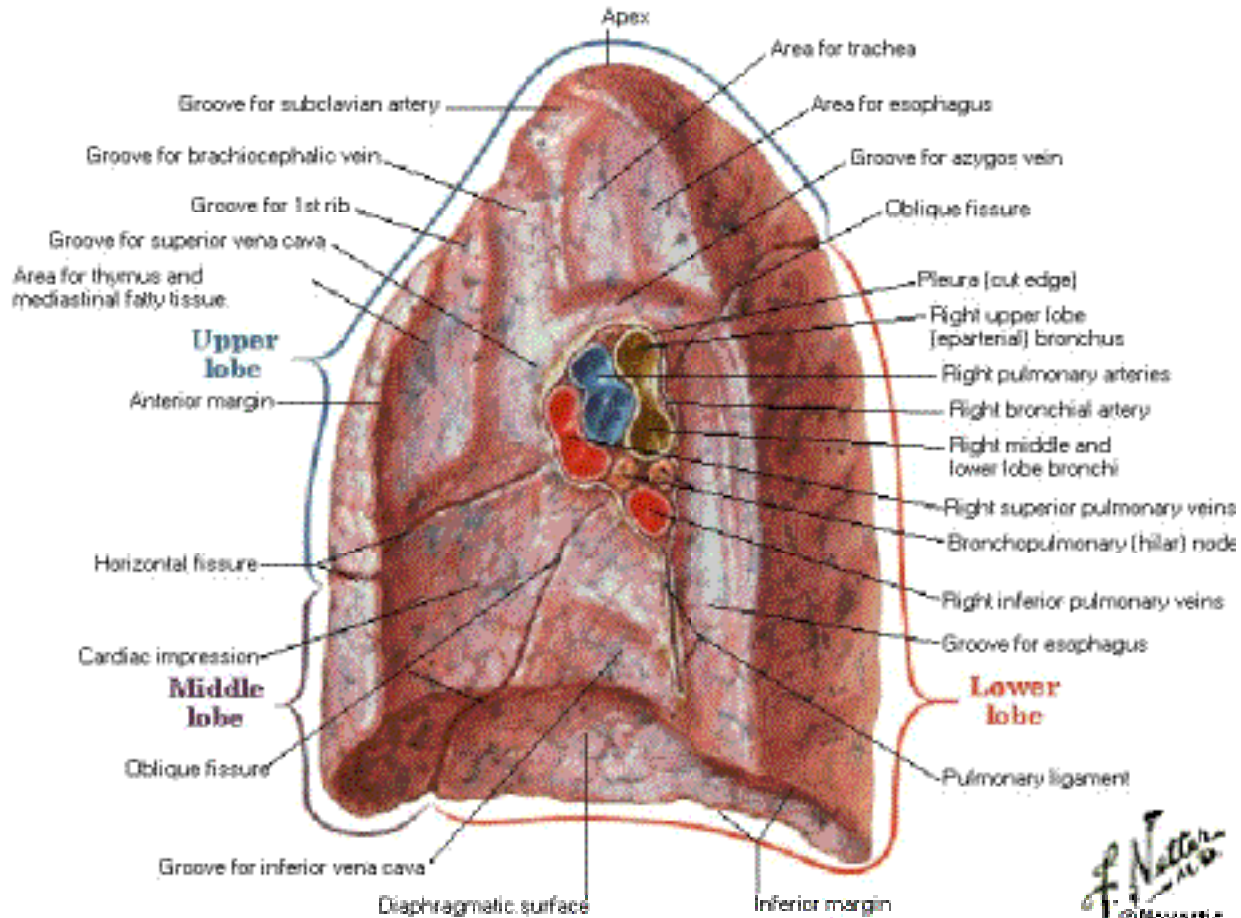
# Lungs in Situ

## Anterior View



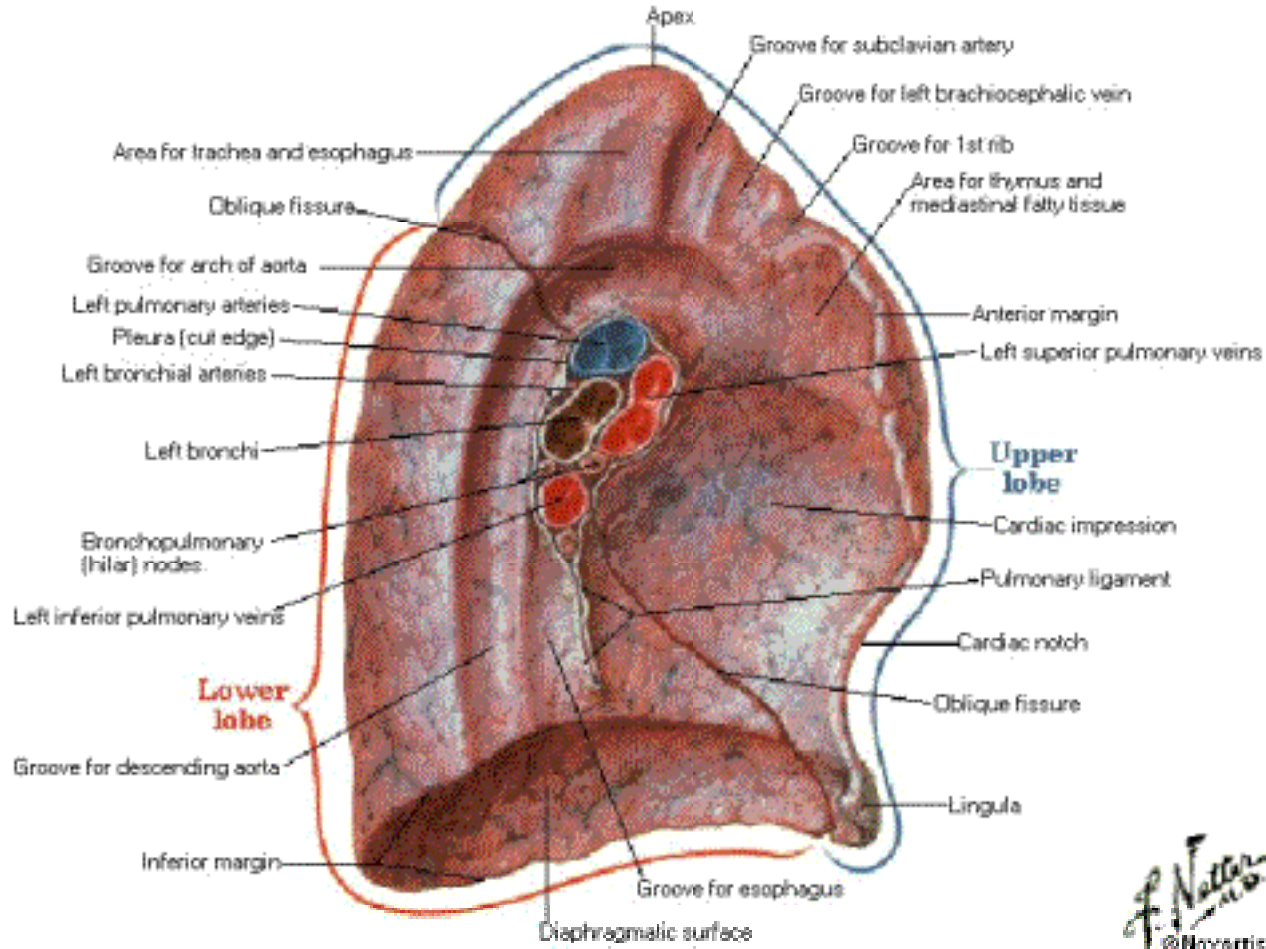


# Right Lung Medial View



*F. Netter M.D.*  
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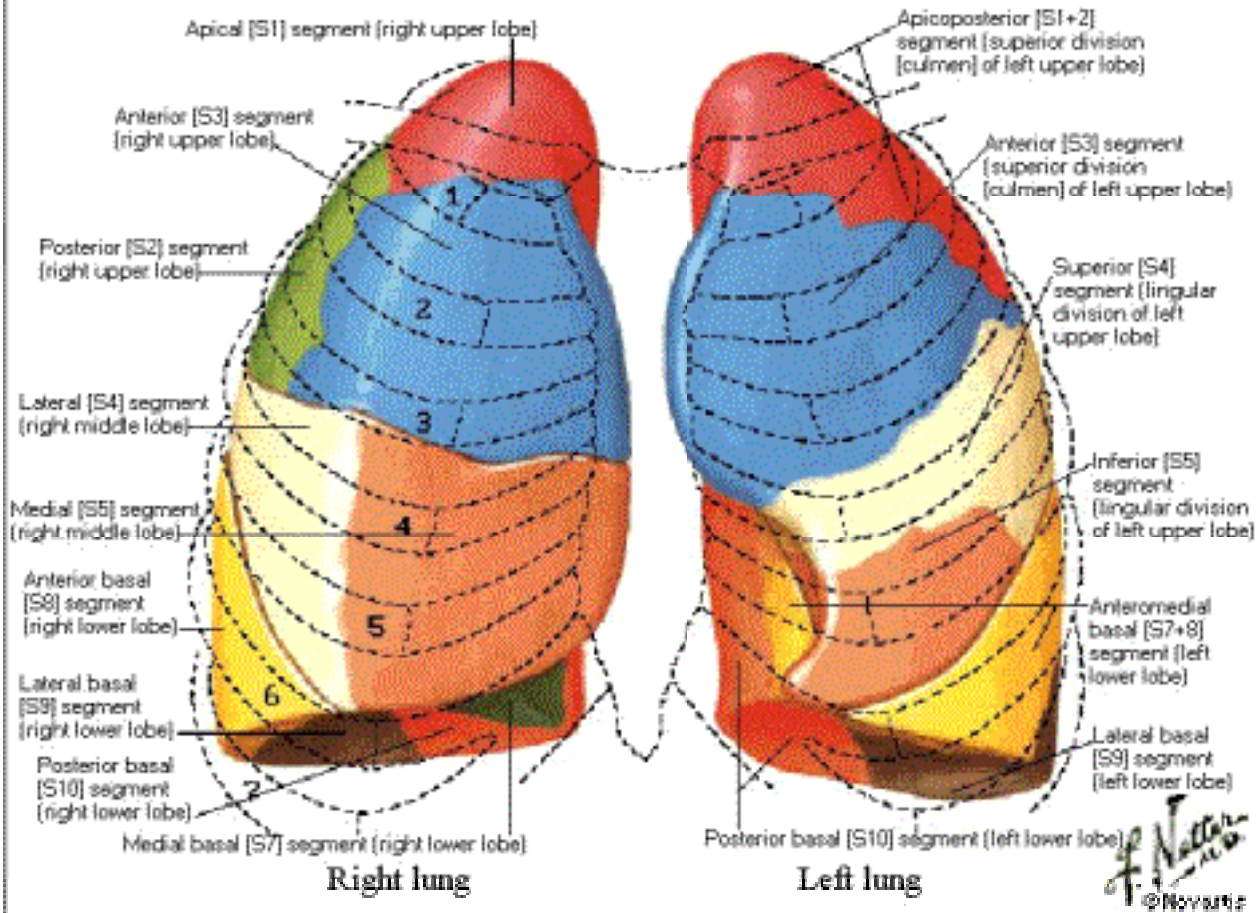
# Left Lung Medial View



*F. Netter M.D.*  
© Novartis

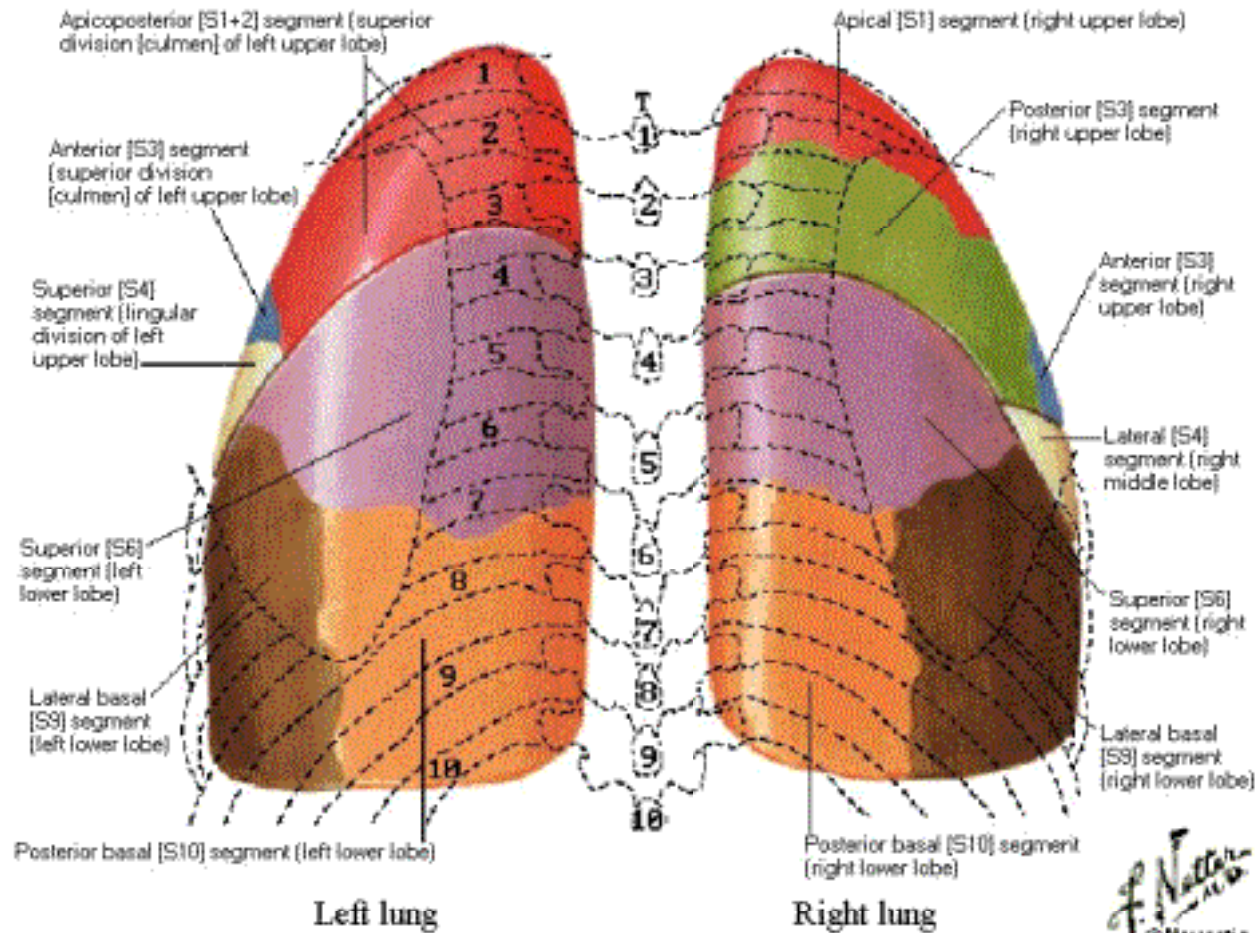
# Bronchopulmonary Segments

## Anterior View



# Bronchopulmonary Segments

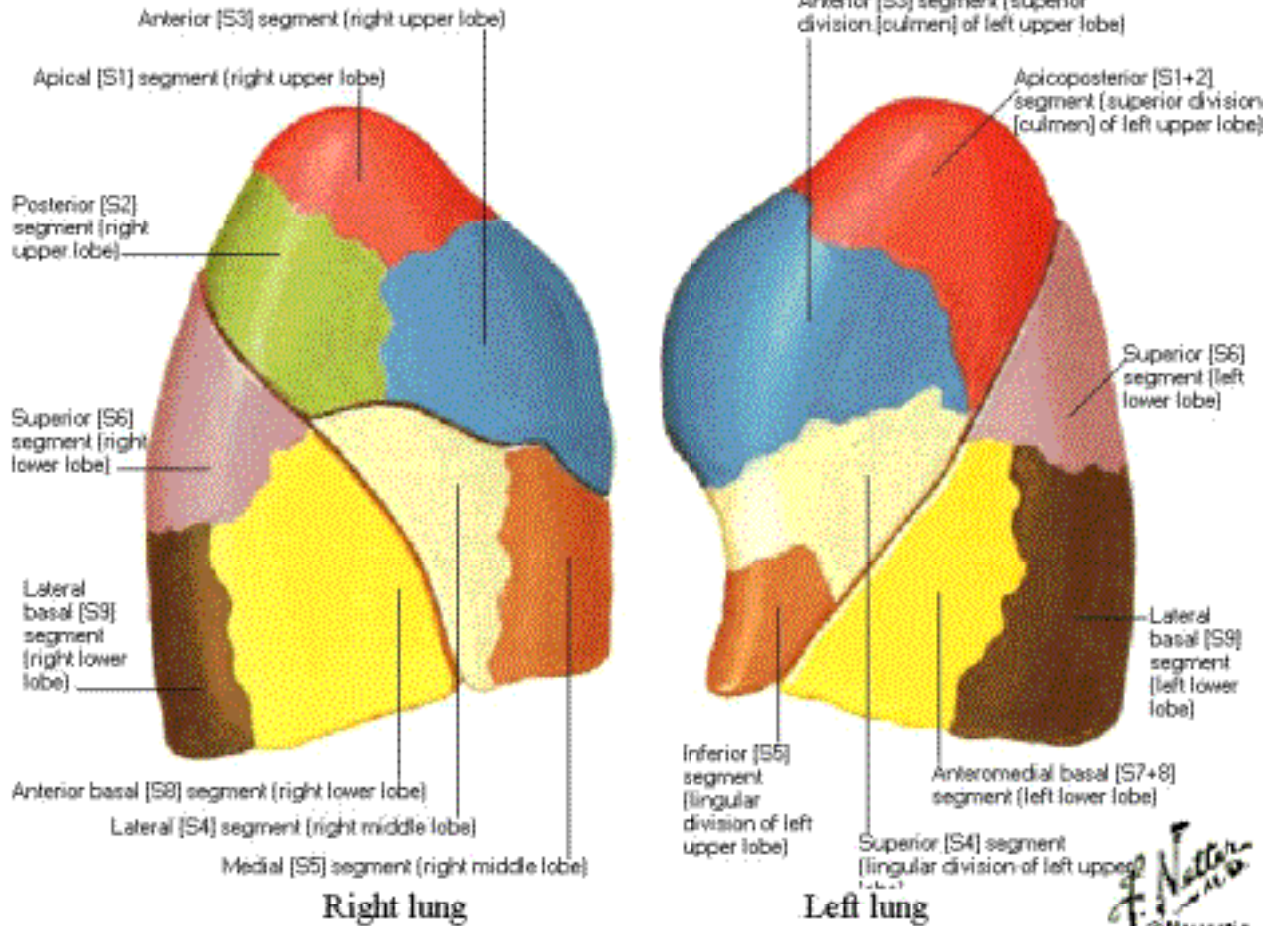
## Posterior View





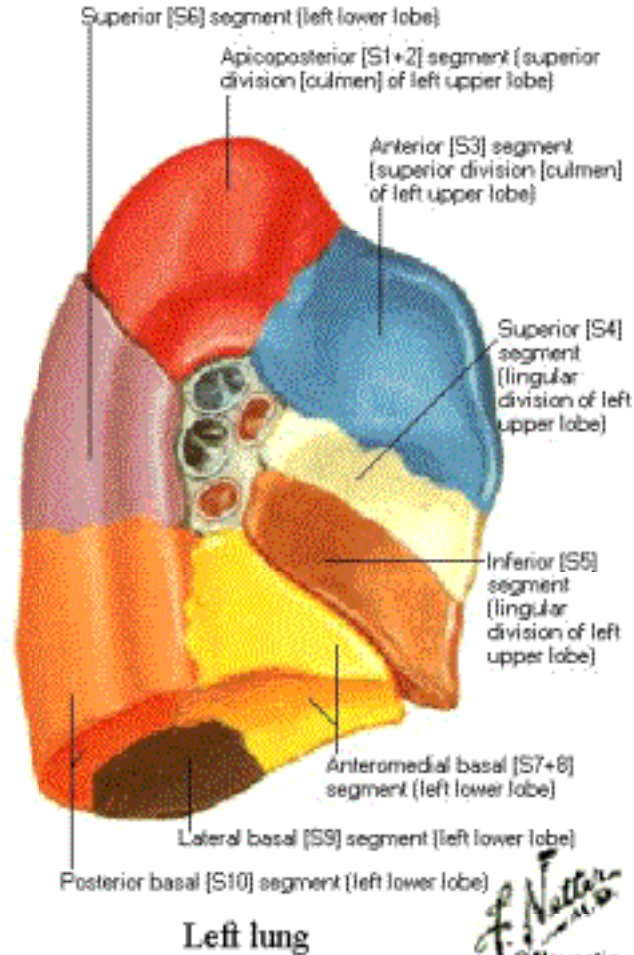
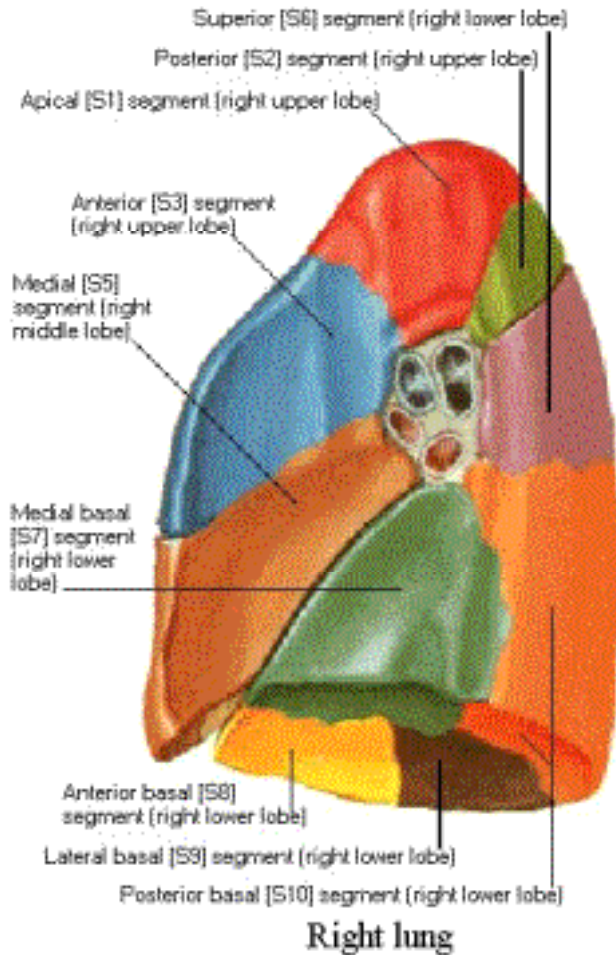
# Bronchopulmonary Segments

## Lateral Views



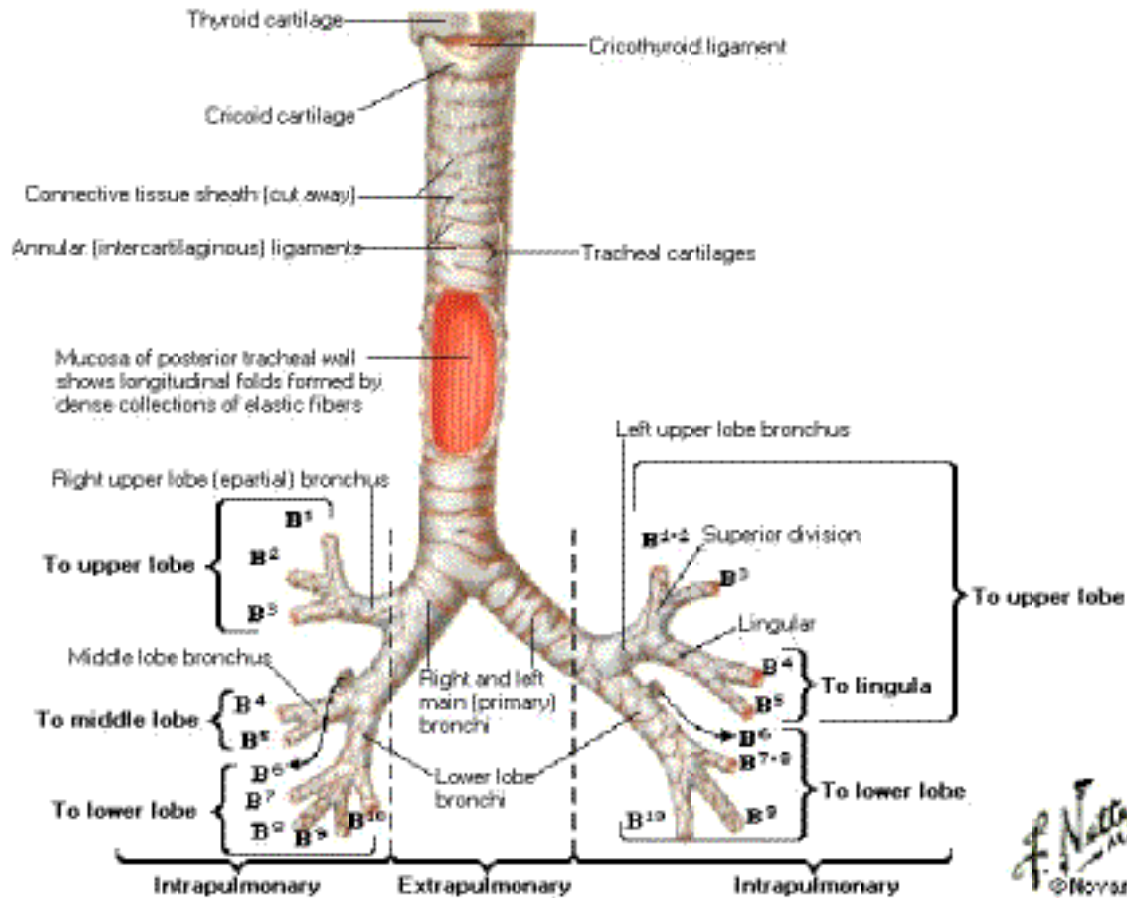
# Bronchopulmonary Segments

## Medial Views



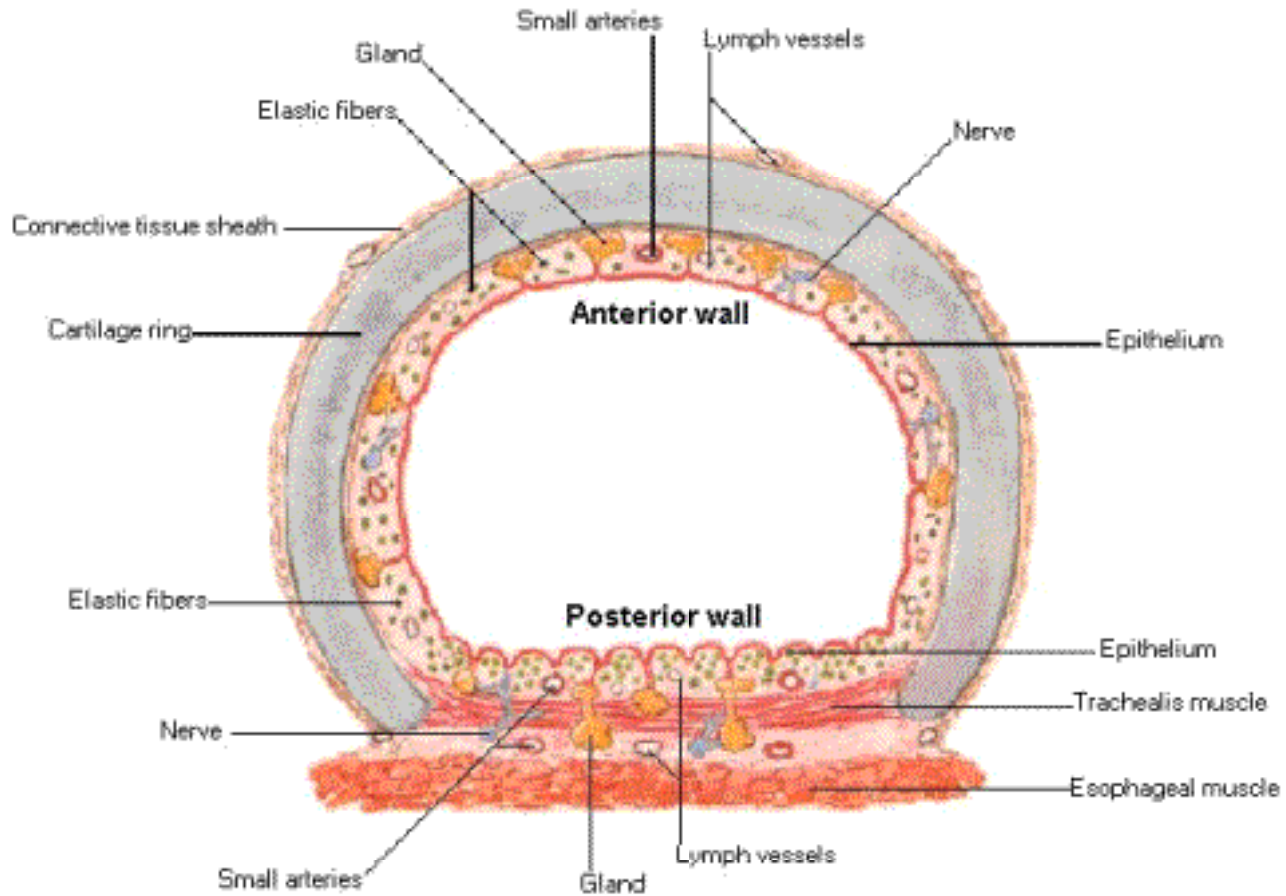
# Trachea and Major Bronchi

## Anterior View



# Trachea

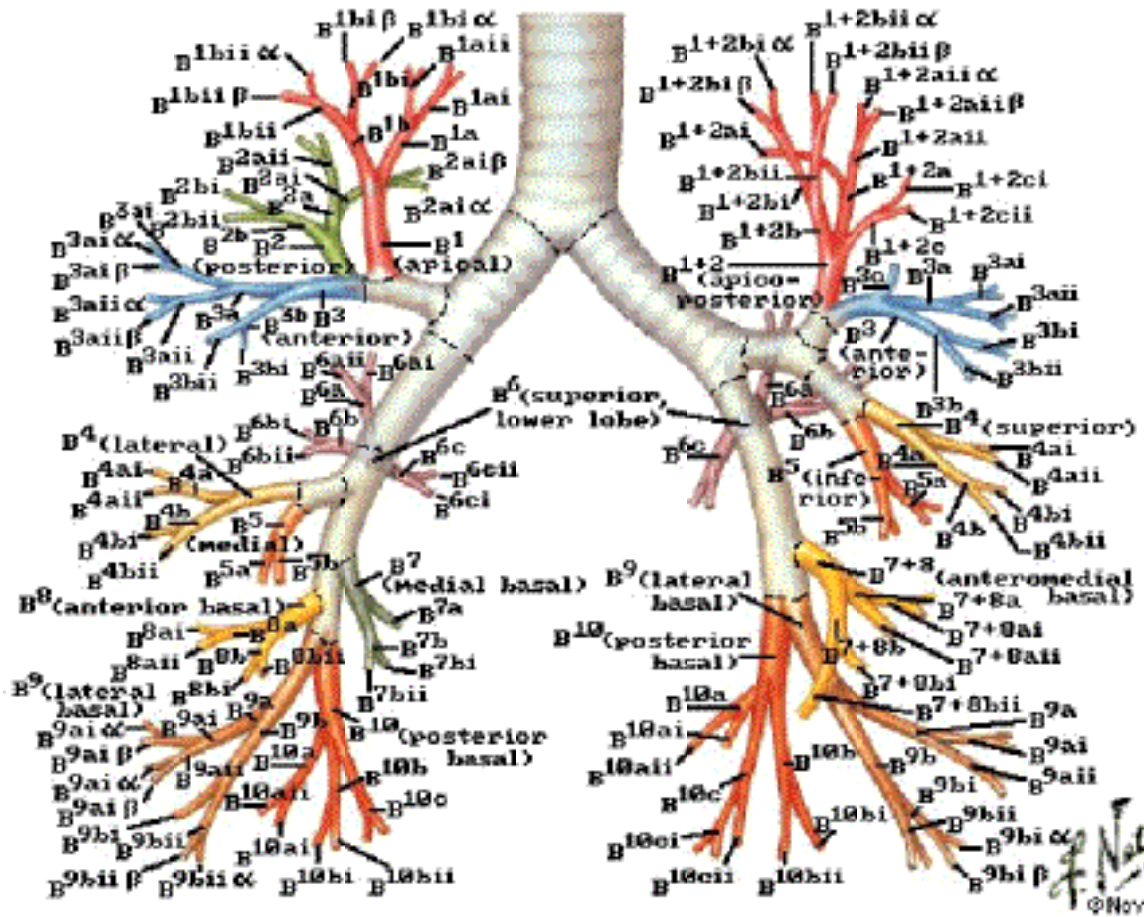
## Cross Section





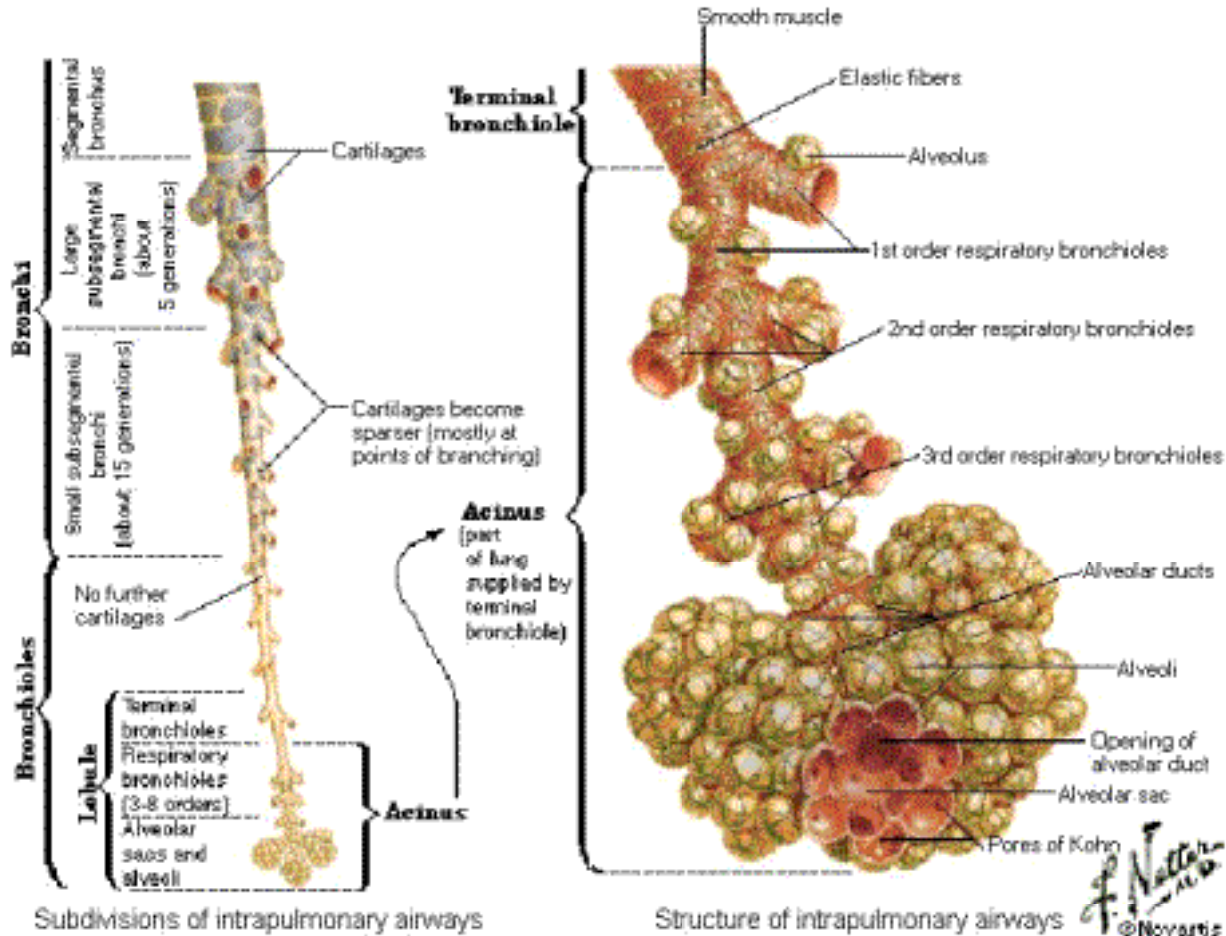
# Nomenclature of Bronchi

## Schema

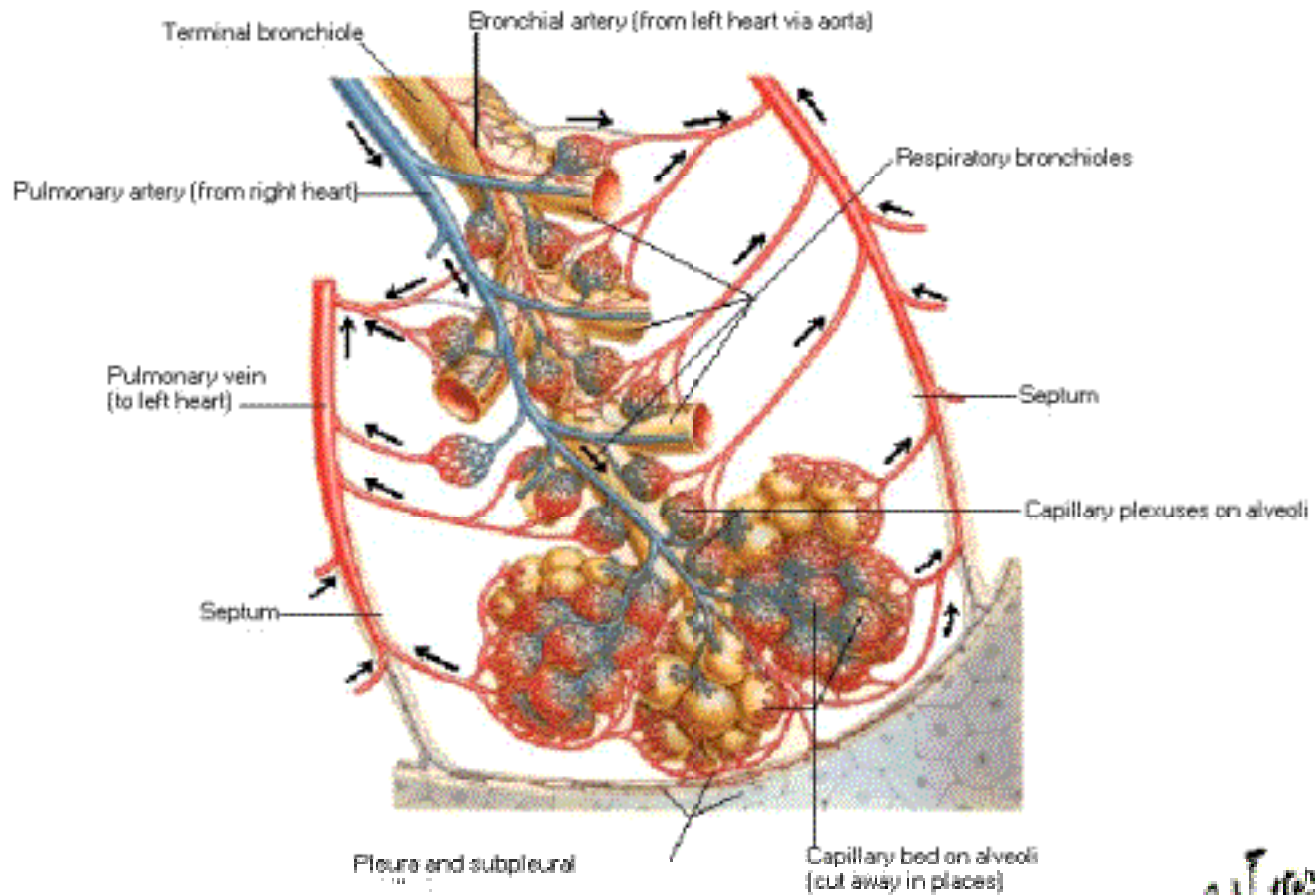


# Intrapulmonary Airways

## Schema

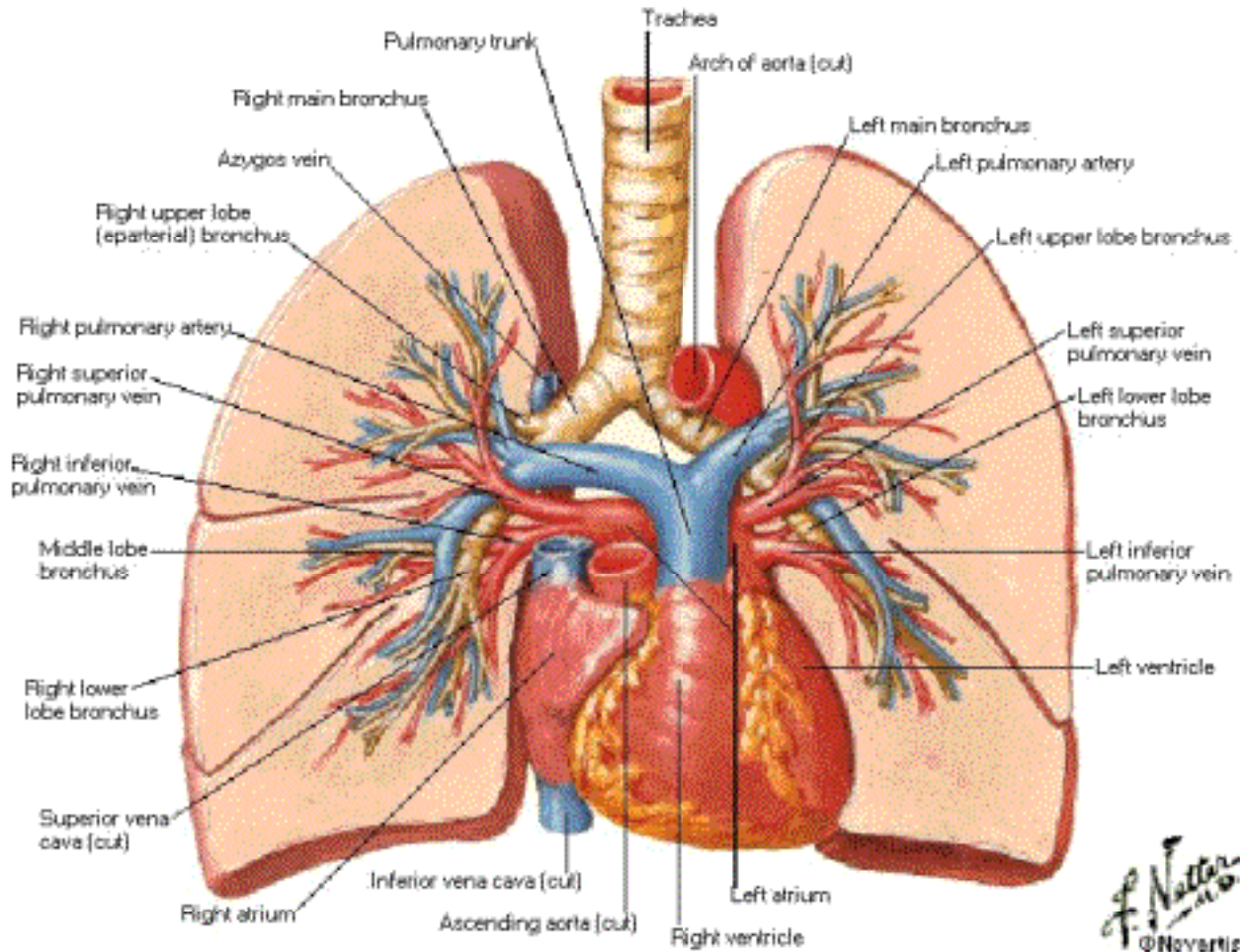


# Intrapulmonary Blood Circulation Schema



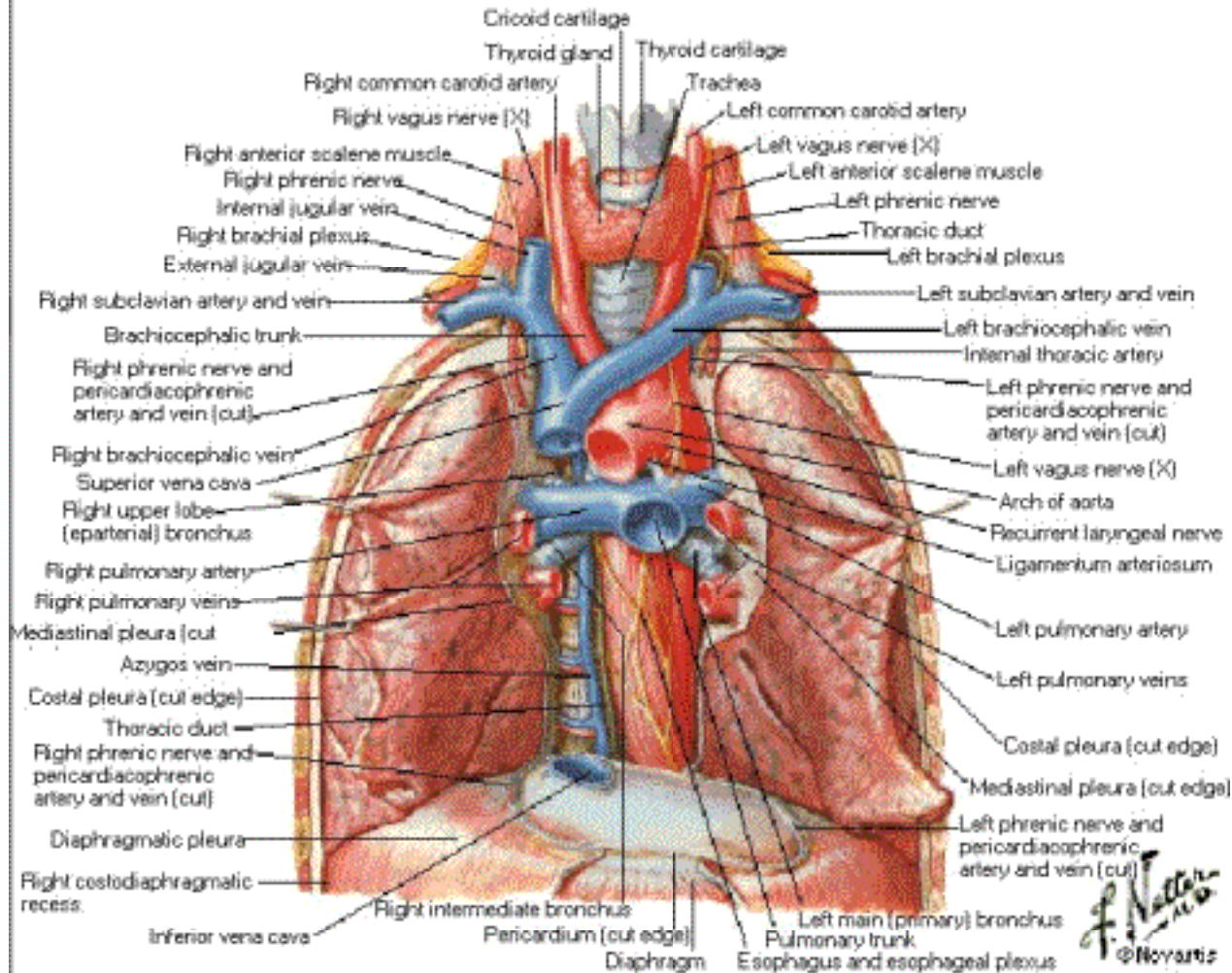
0 1.102

# Pulmonary Arteries and Veins

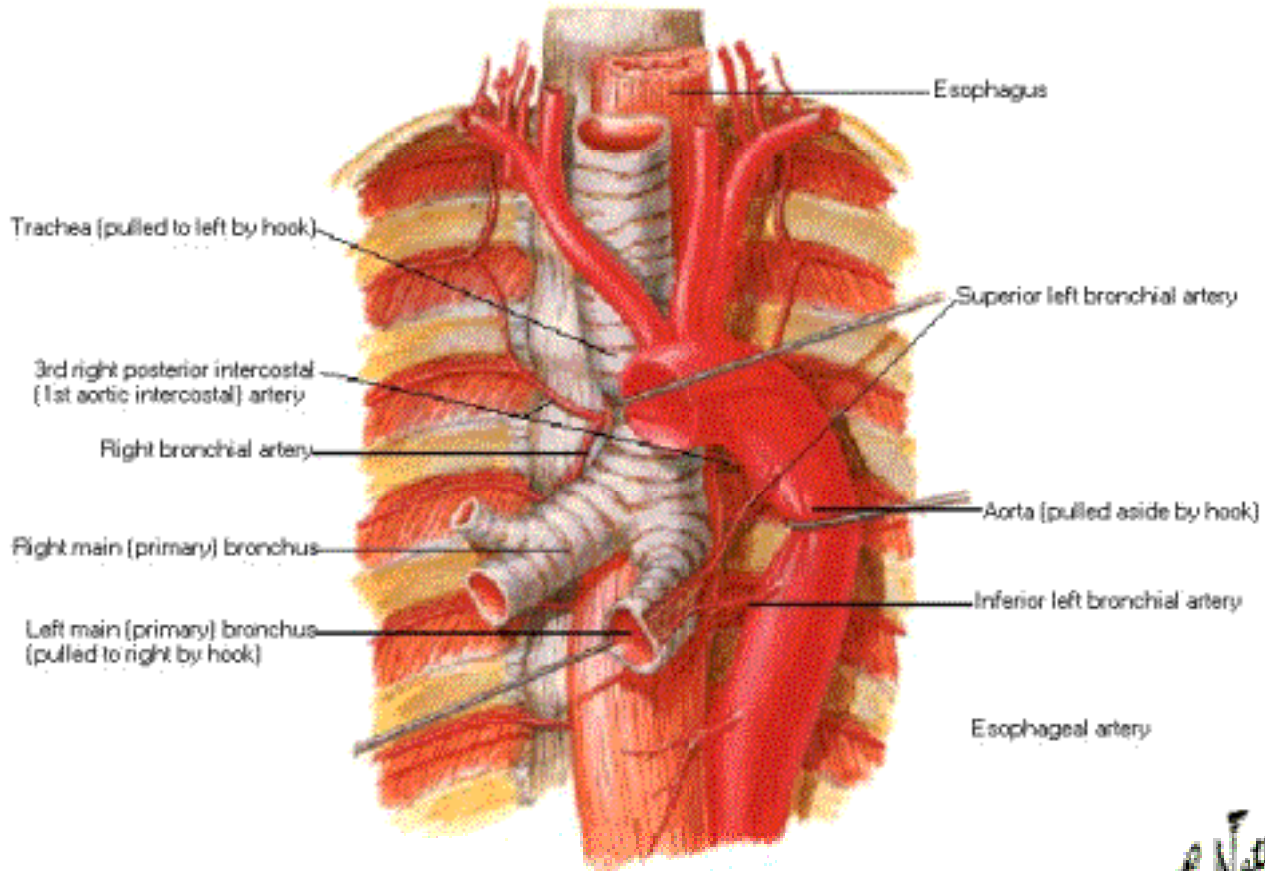




# Main Bronchi With Pulmonary Arteries and Veins in Situ

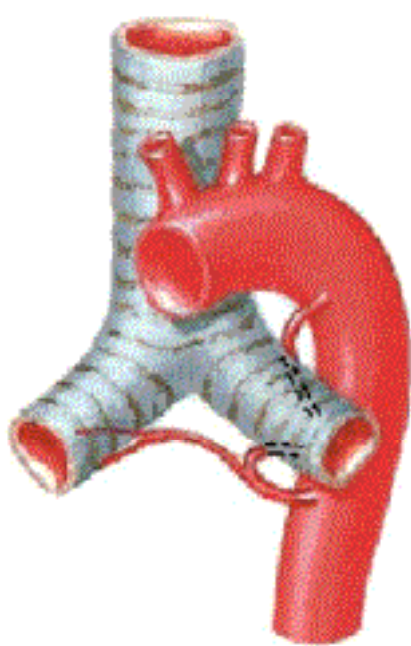


# Bronchial Arteries

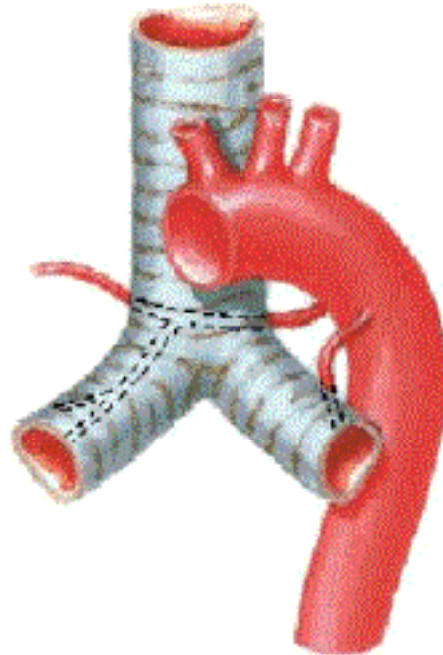


## Bronchial Arteries

### Variations

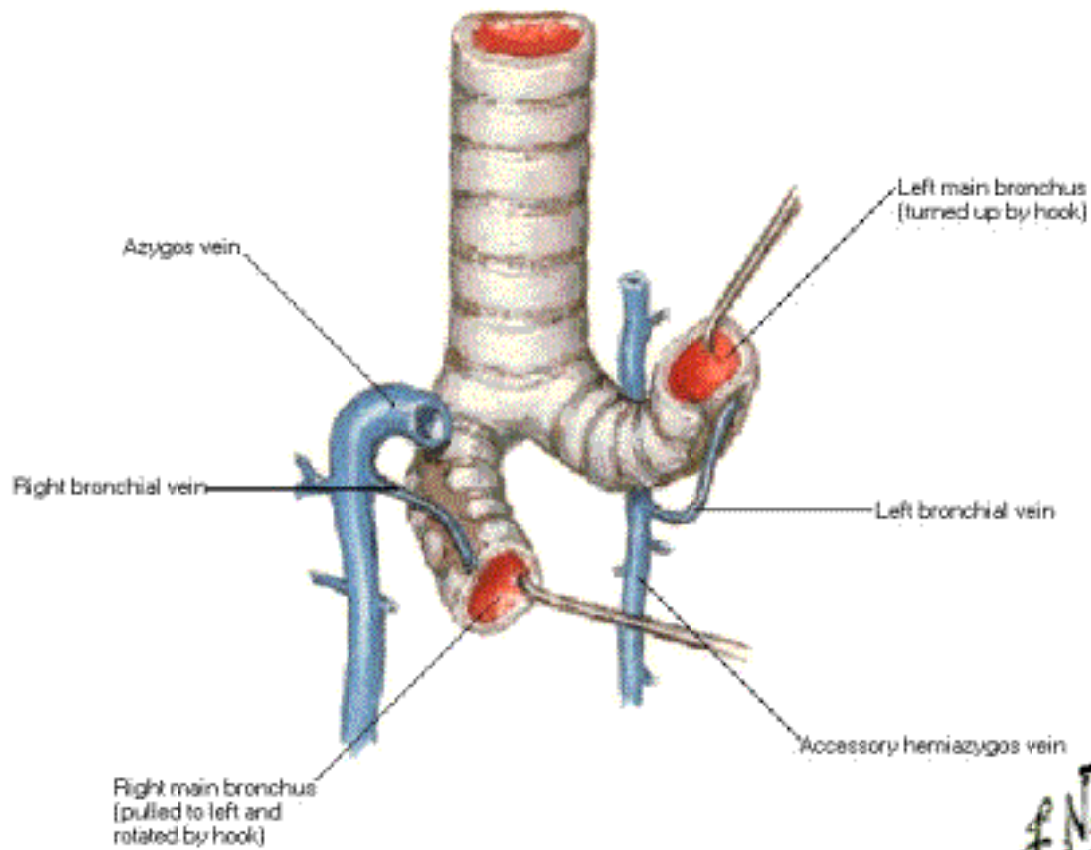


Right and left bronchial arteries originating from aorta by single stem



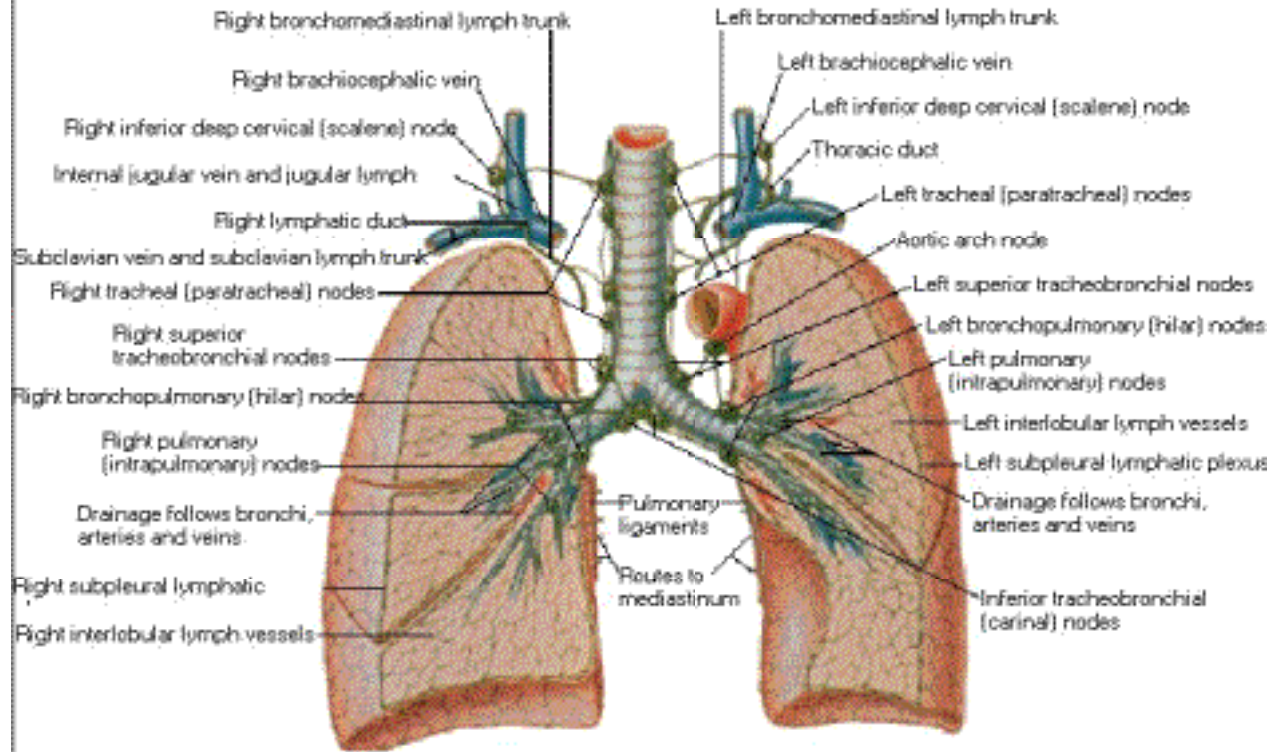
Only single bronchial artery to each bronchus (normally, two to left bronchus)

# Bronchial Veins





# Lymph Vessels and Nodes of Lung

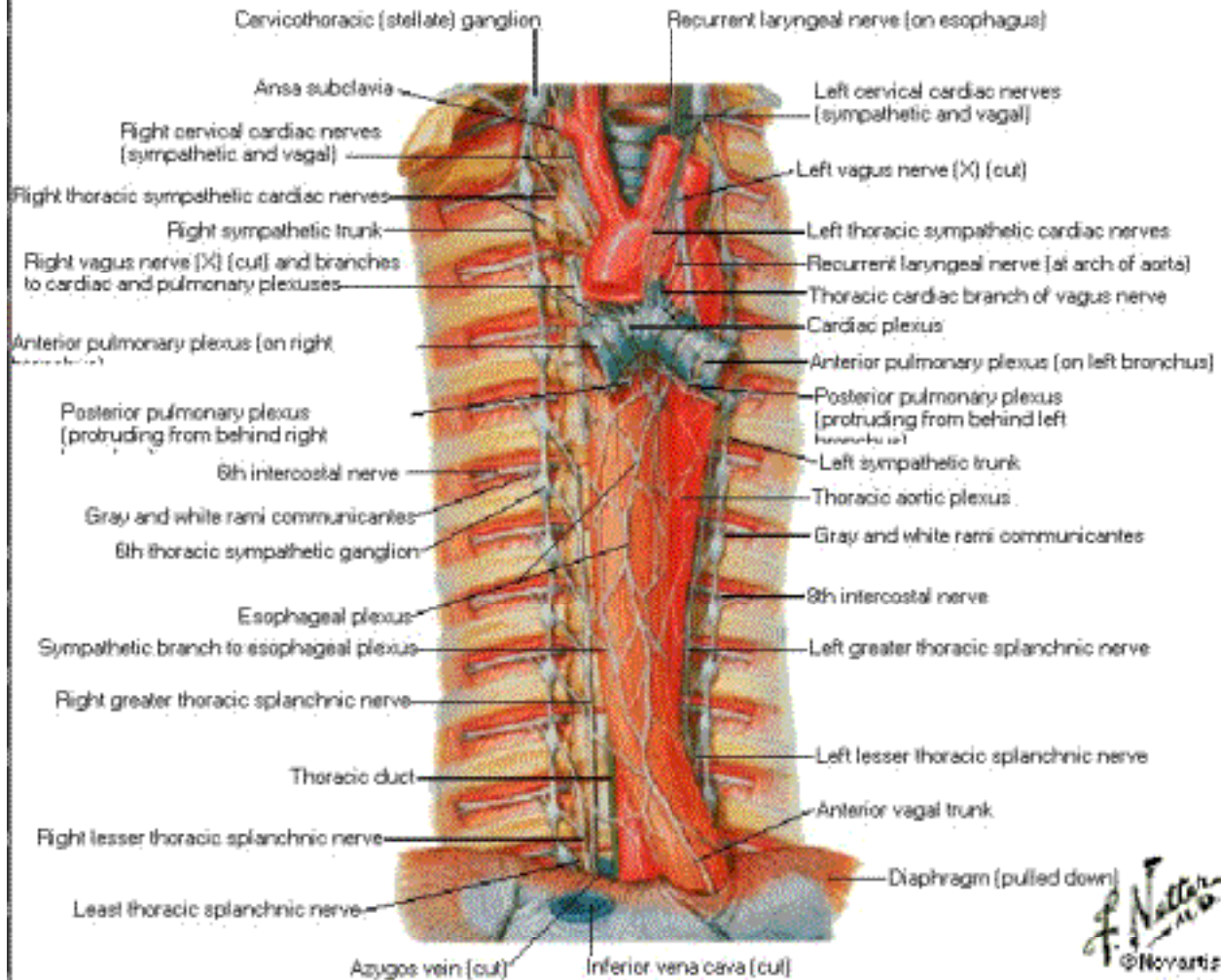


**Right lung:** All lobes drain to intrapulmonary and bronchopulmonary (hilar) nodes, then to inferior tracheobronchial (carinal) nodes, right superior tracheobronchial nodes and to right tracheal nodes on way to brachiocephalic vein via bronchomediastinal lymph trunk and/or scalene node.

**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.

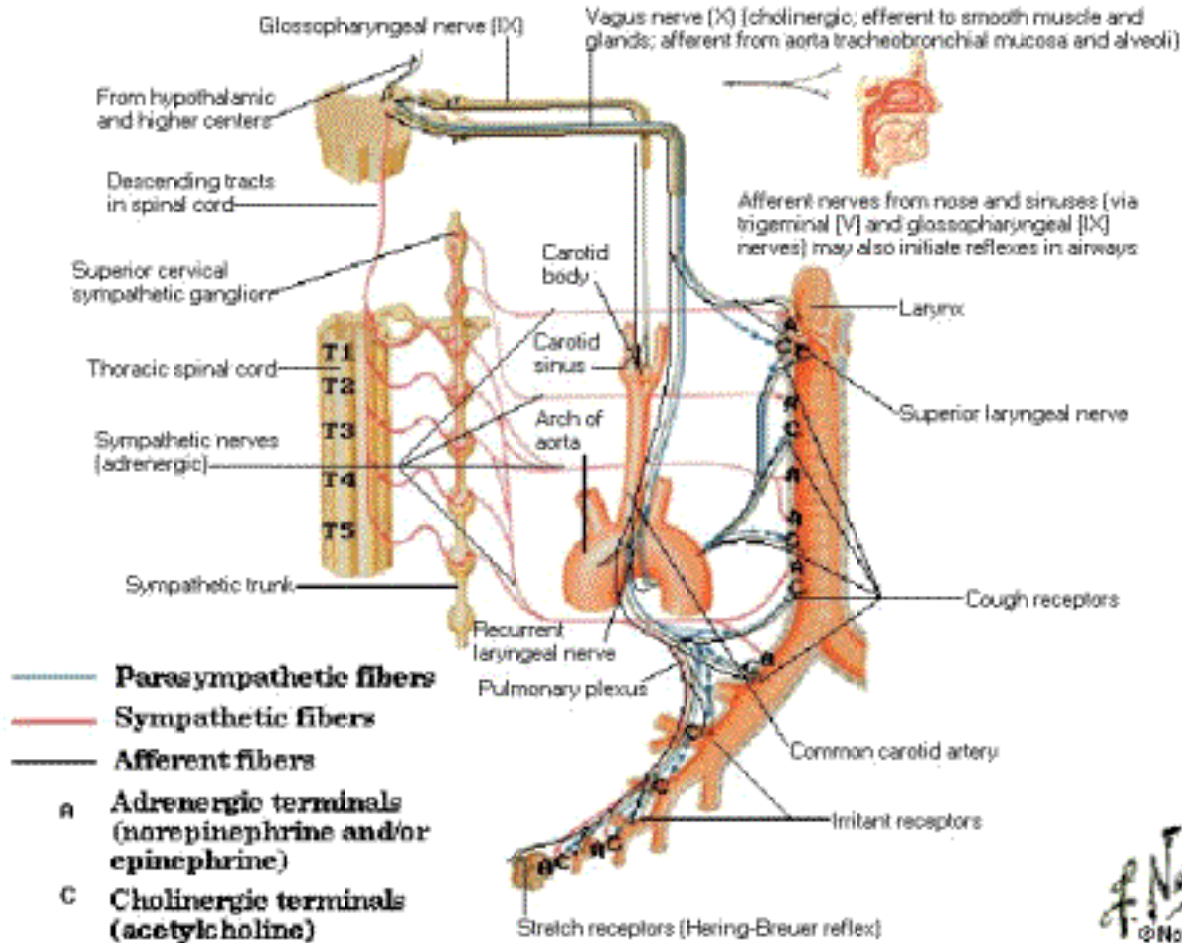
*F. Netter M.D.*  
© NOV 2012

# Autonomic Nerves in Thorax



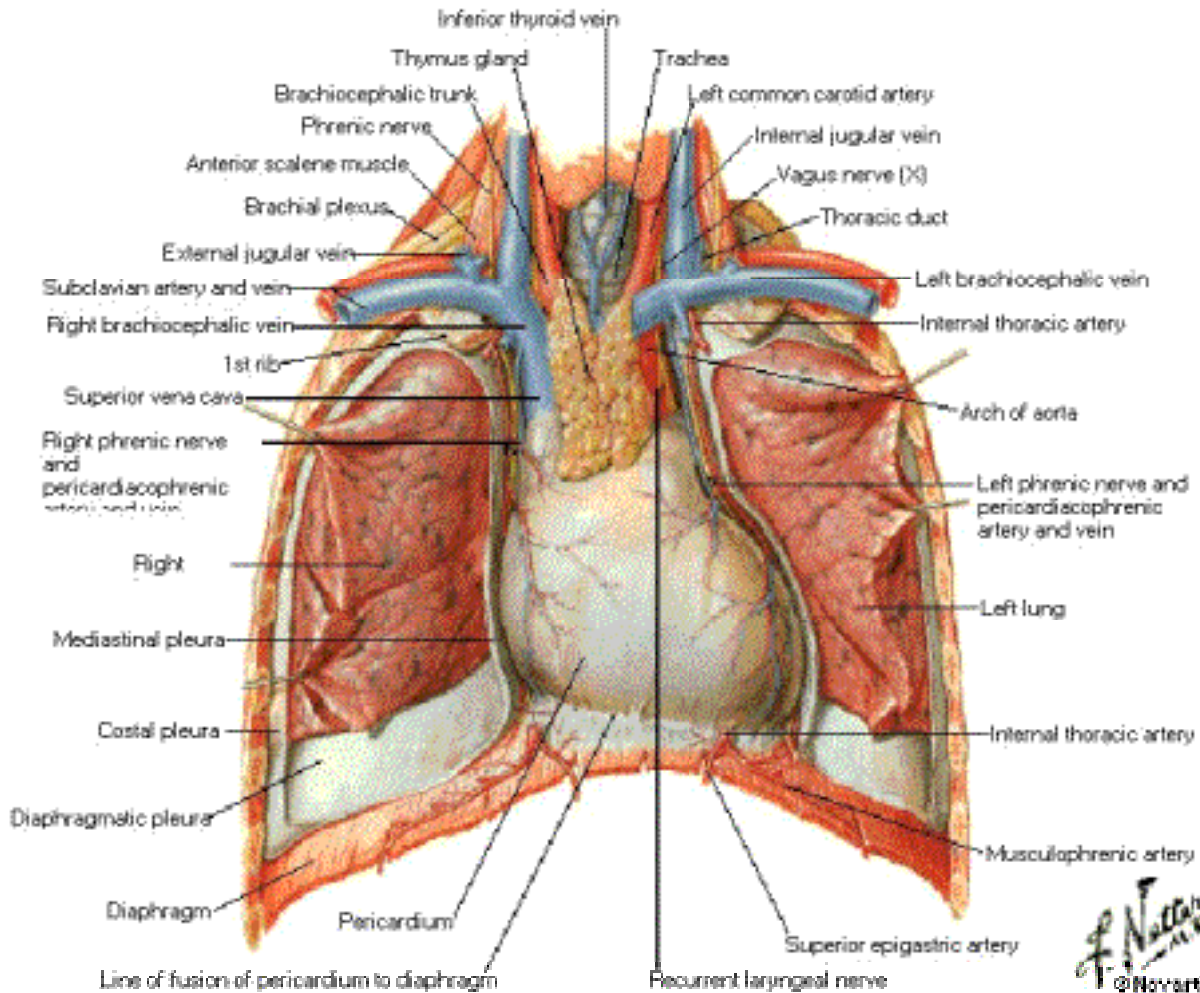
# Innervation of Tracheobronchial Tree

## Schema



*F. No.*  
© No.

# Heart in Situ

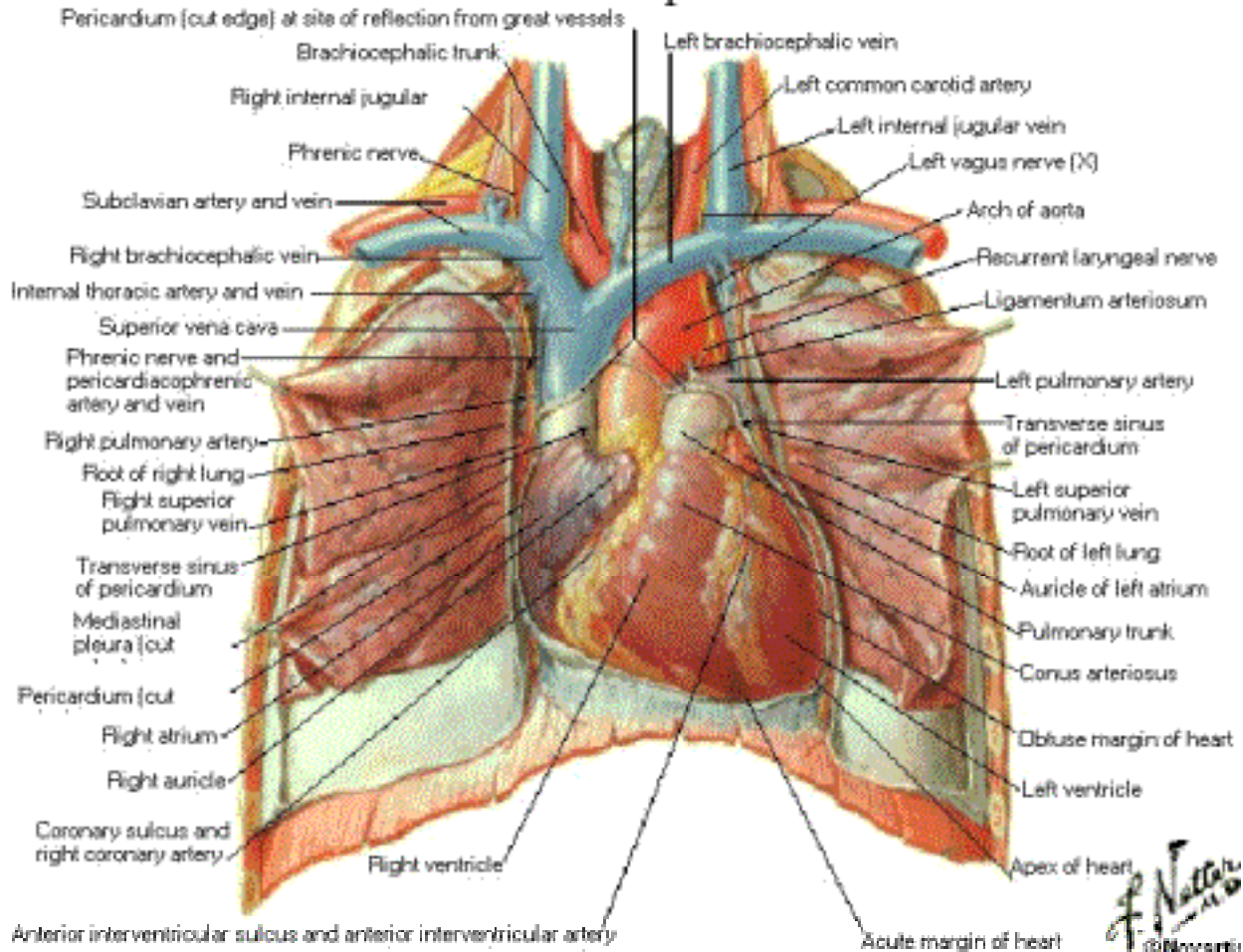


*F. Netter*  
M.D.  
© Novartis



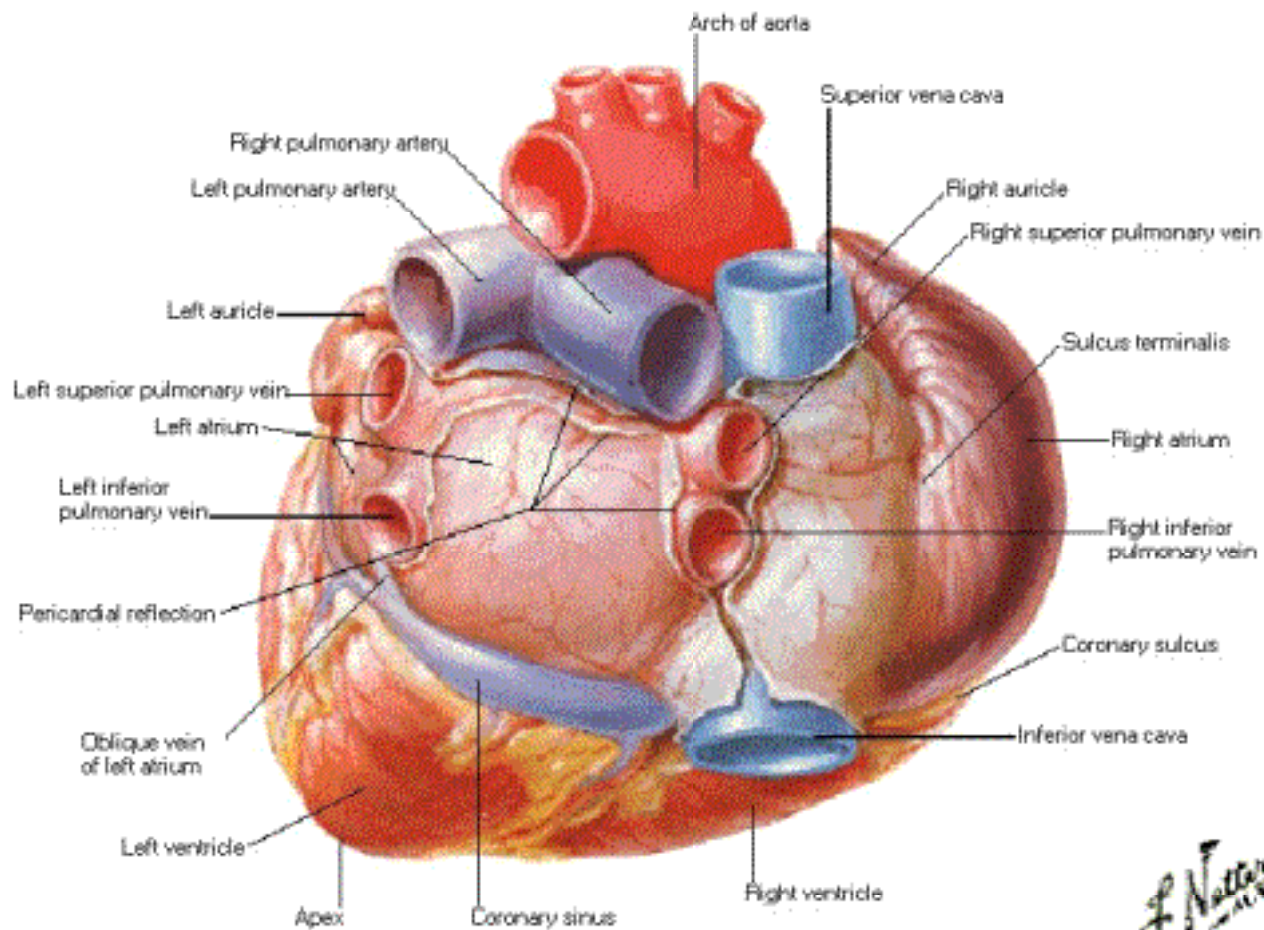
# Heart

## Anterior Exposure



# Heart - Basal Surface

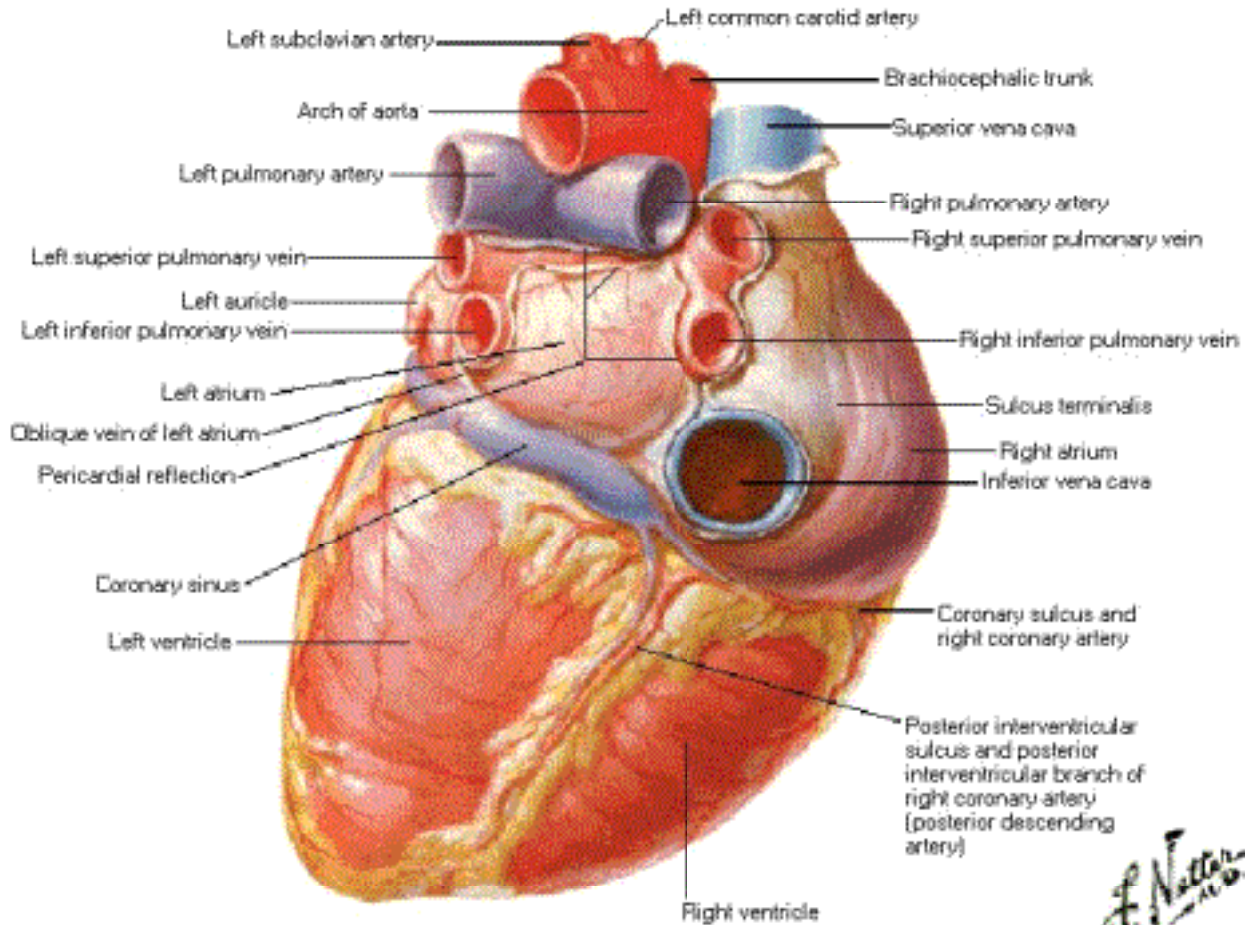
## Posterior View



*F. Netter  
M.D.*

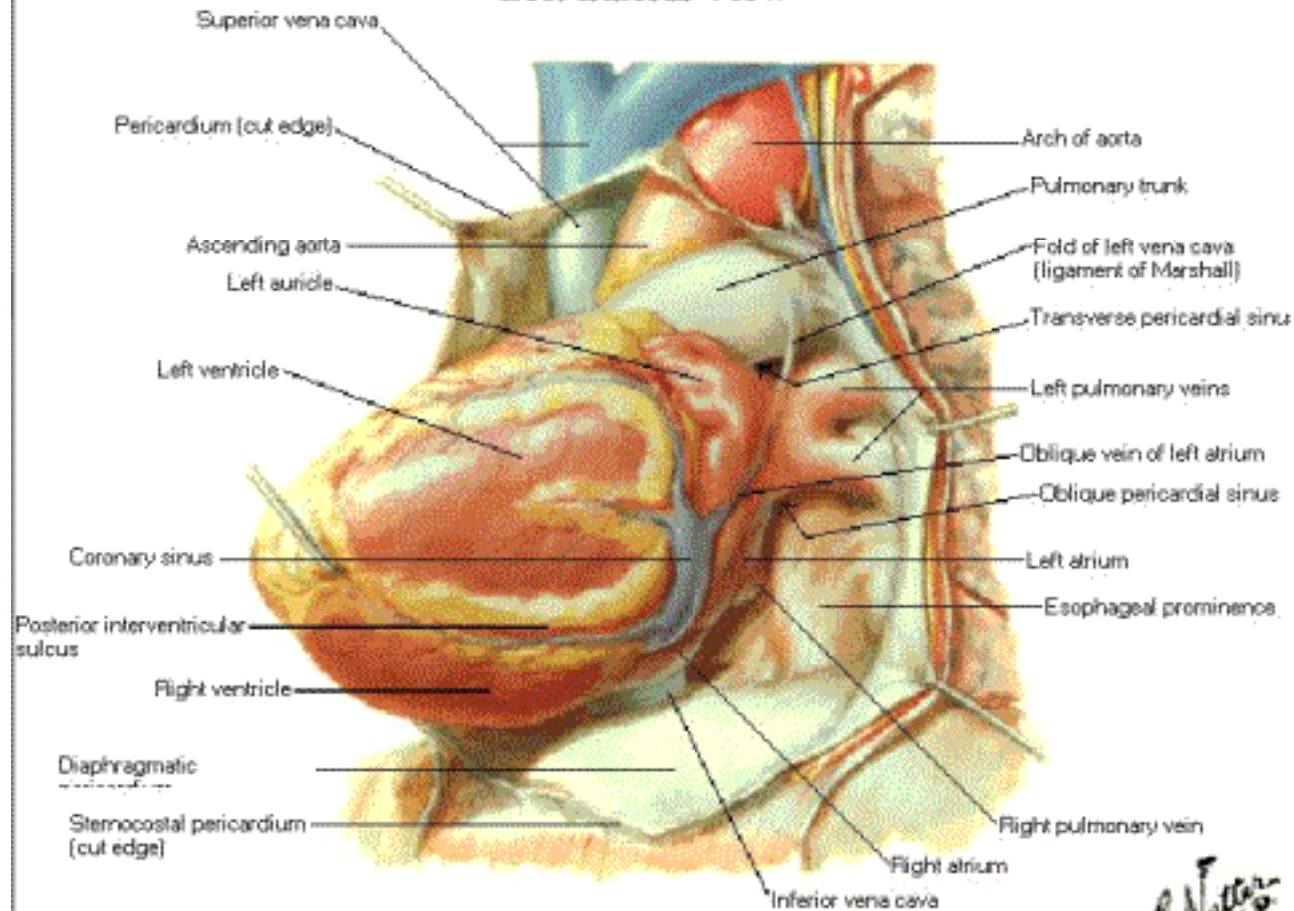
# Heart - Diaphragmatic Surface

## Posteroinferior View



# Pericardial Sac - Heart Drawn Out

## Left Lateral View



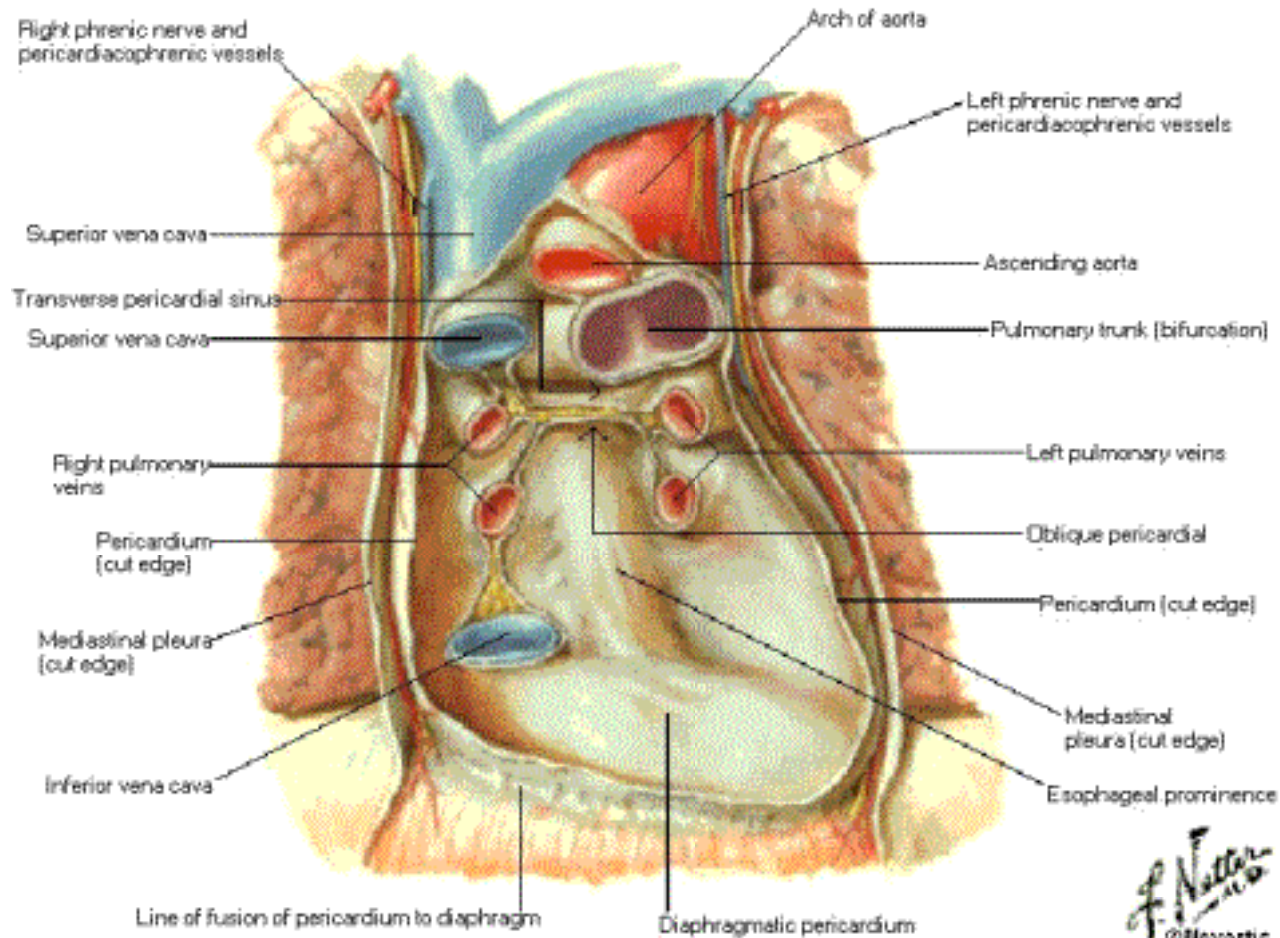
Heart drawn out of opened pericardial sac

*F. Netter M.D.*  
© 1989



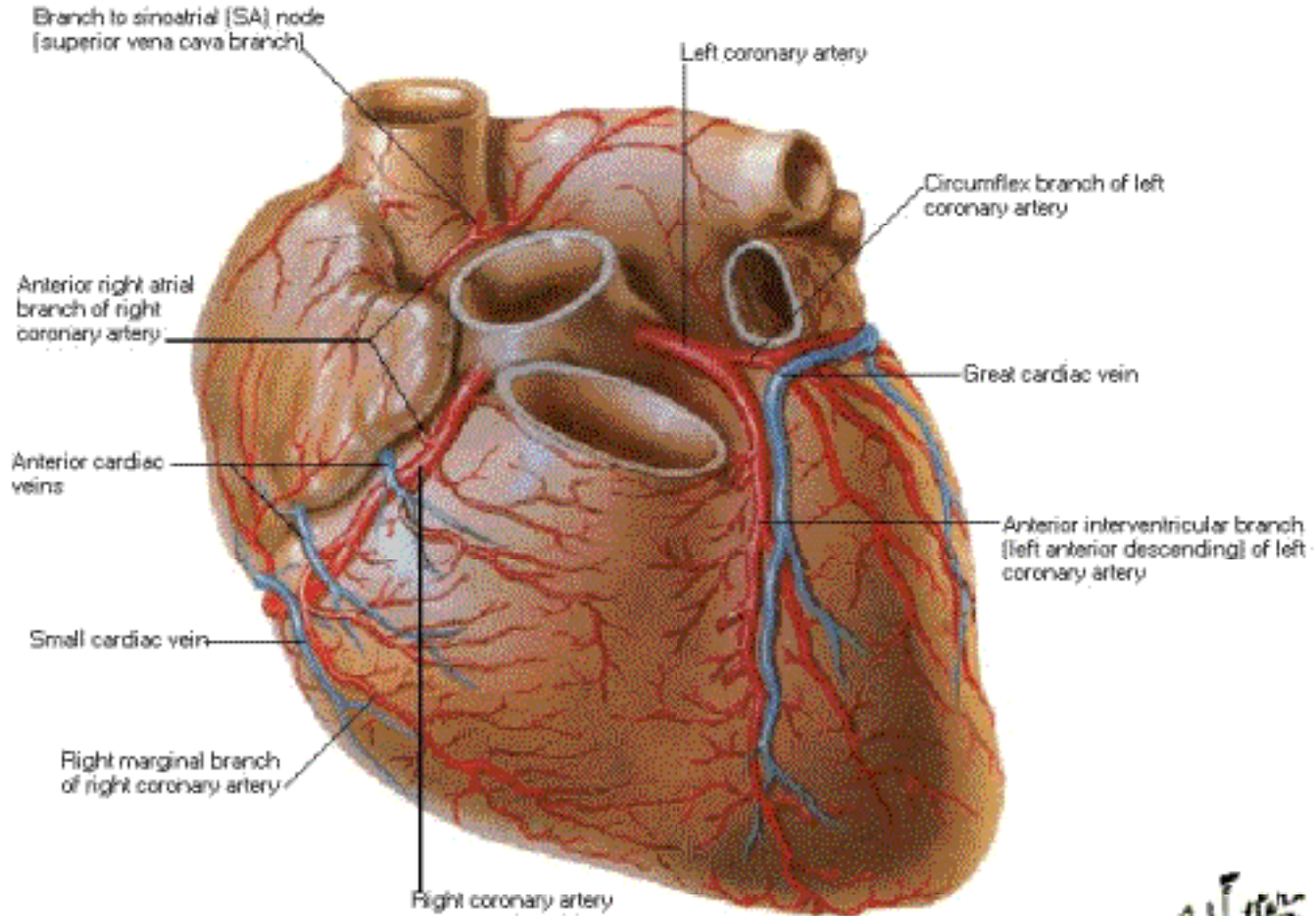
# Pericardial Sac - Heart Removed

## Anterior View



# Coronary Arteries and Cardiac Veins

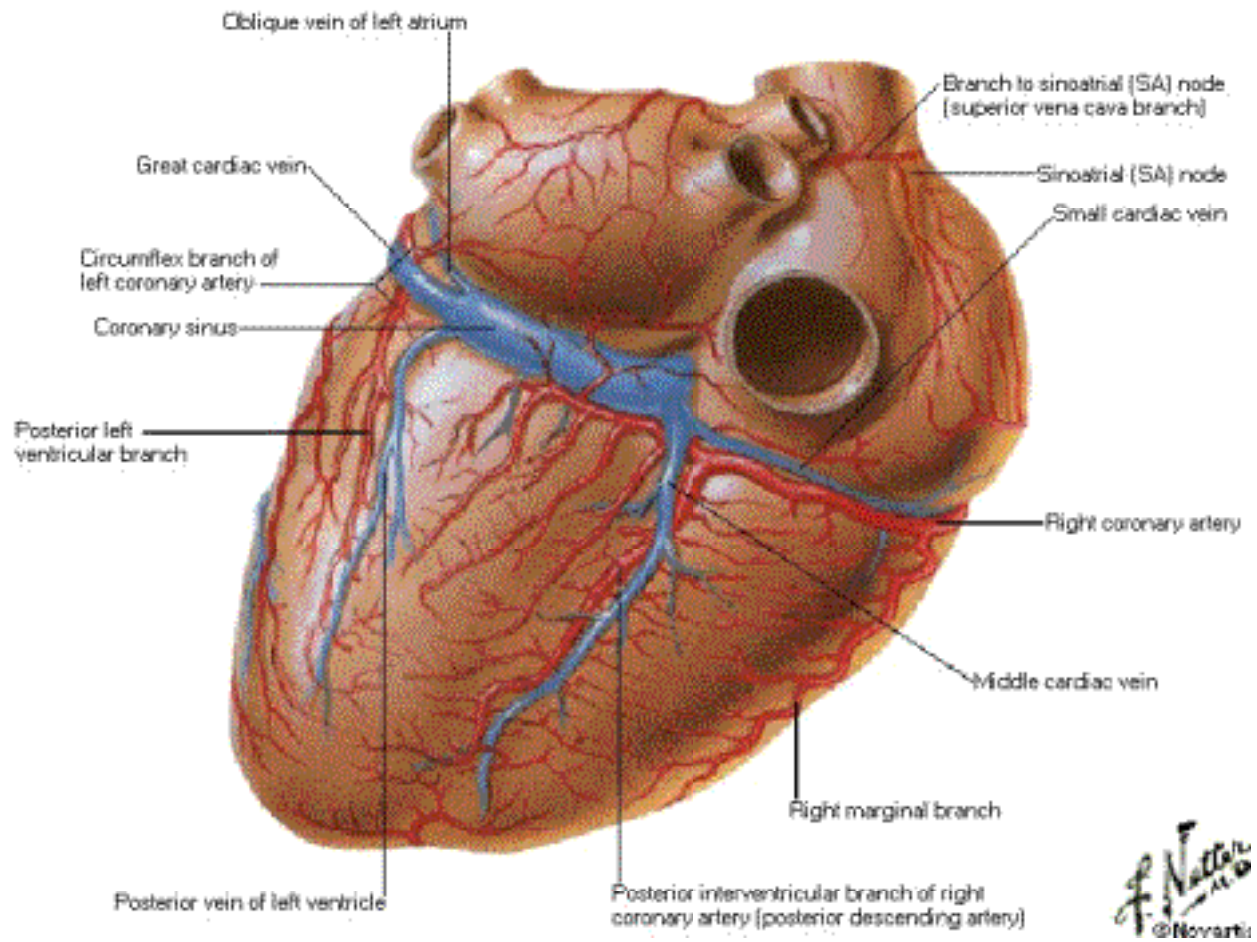
## Sternocostal Surface



*A. Netter M.D.*

# Coronary Arteries and Cardiac Veins

## Diaphragmatic Surface

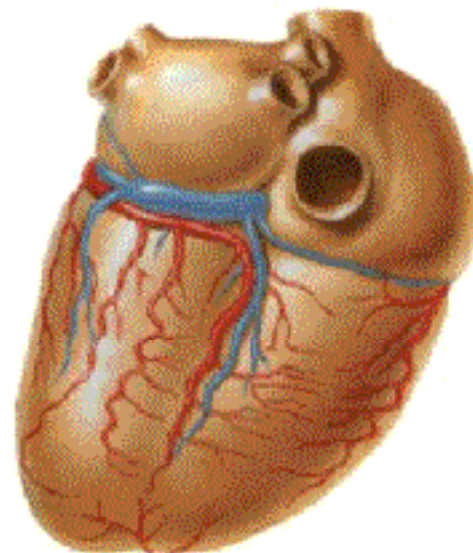
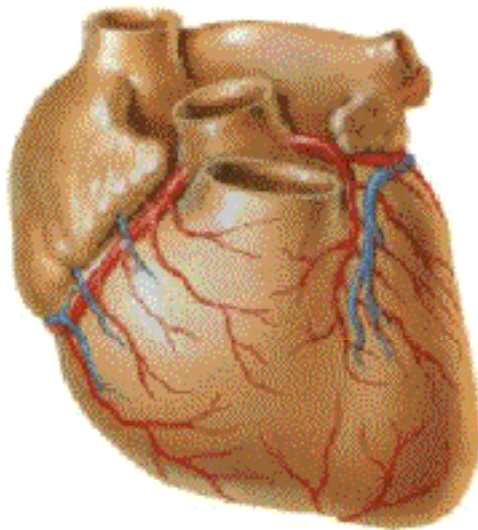


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# Coronary Arteries and Cardiac Veins

## Variations 1

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



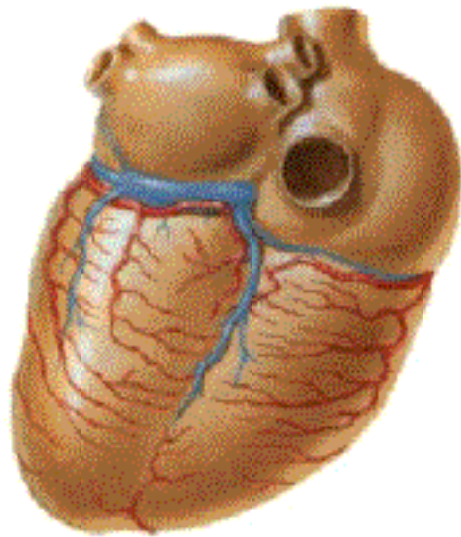
Anterior interventricular (left anterior descending) branch of left coronary artery very short. Apical part of sternocostal surface supplied by branches from posterior interventricular (posterior descending) branch of right coronary artery curving around apex.

*A. Netter*

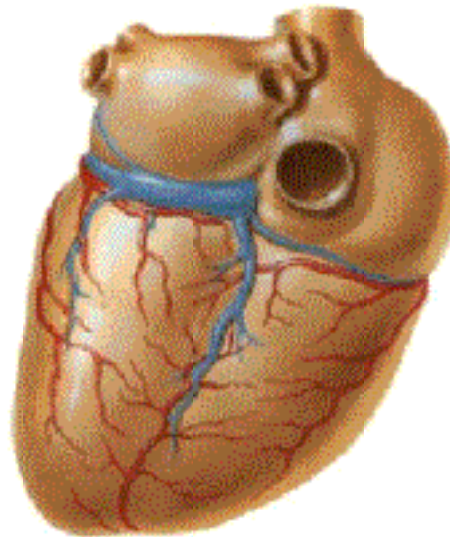


## Coronary Arteries and Cardiac Veins

### 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.

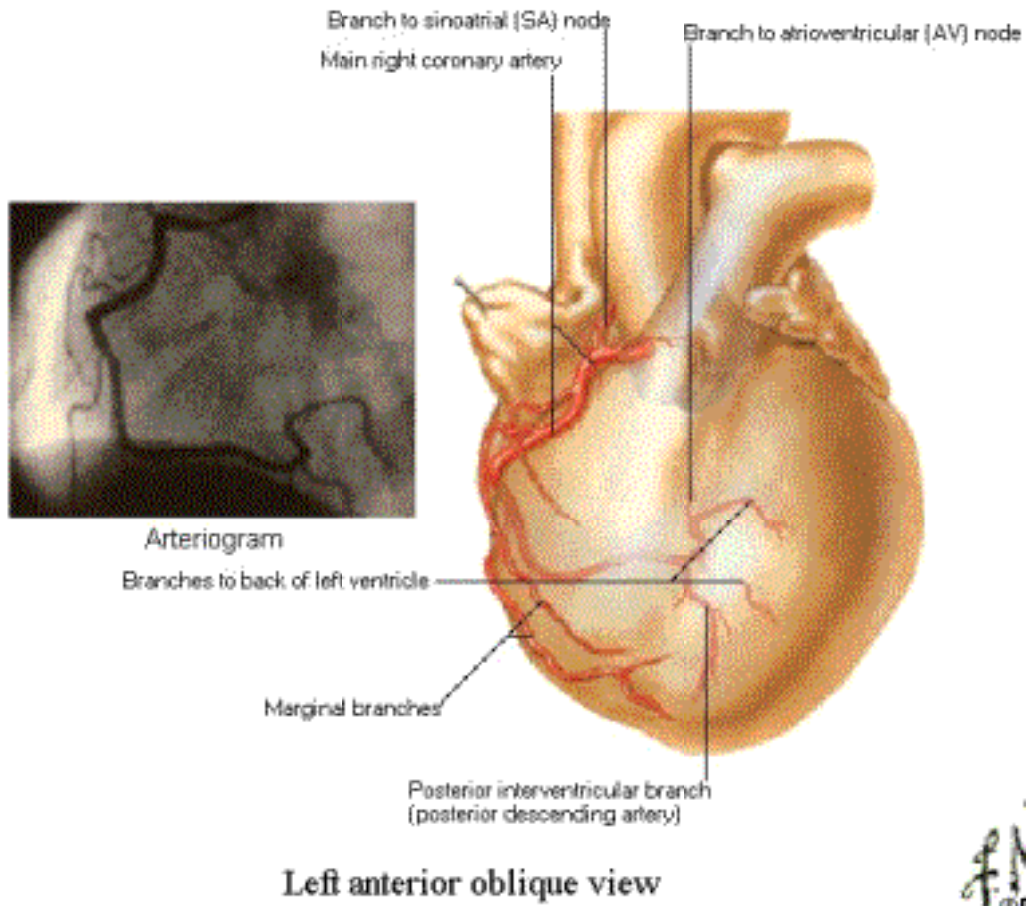


Posterior interventricular (posterior descending) branch absent. Area supplied chiefly by elongated anterior interventricular (left anterior descending) branch curving around apex.

A

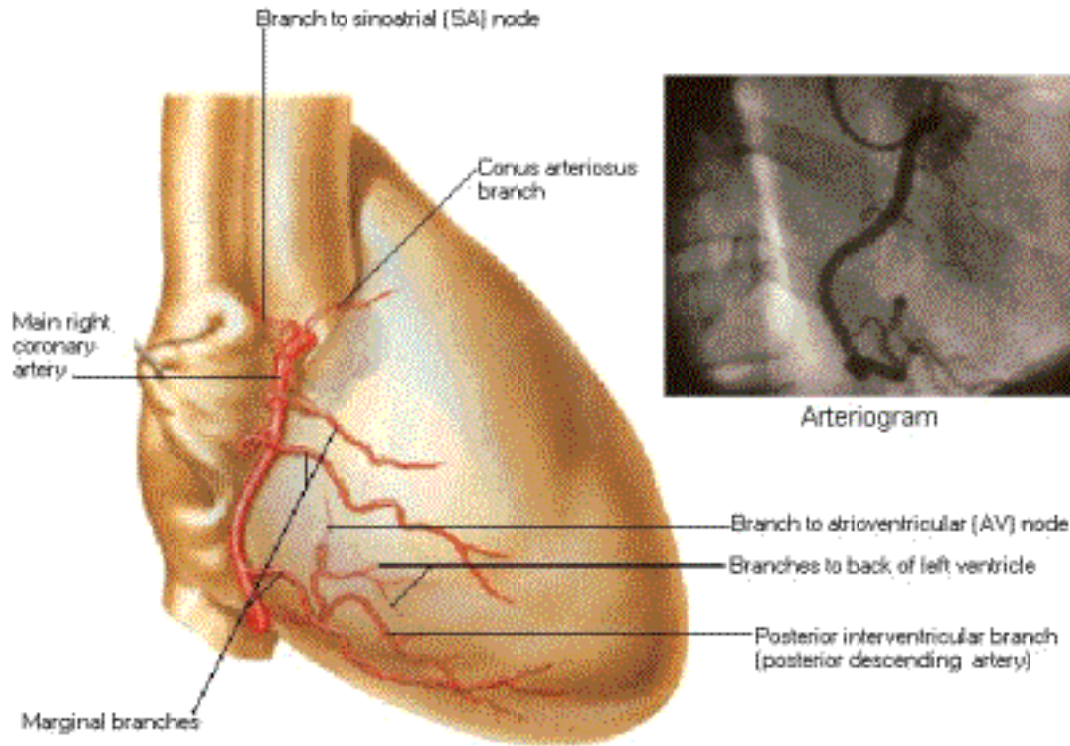
# Right Coronary Artery

## Arteriographic View 1



# Right Coronary Artery

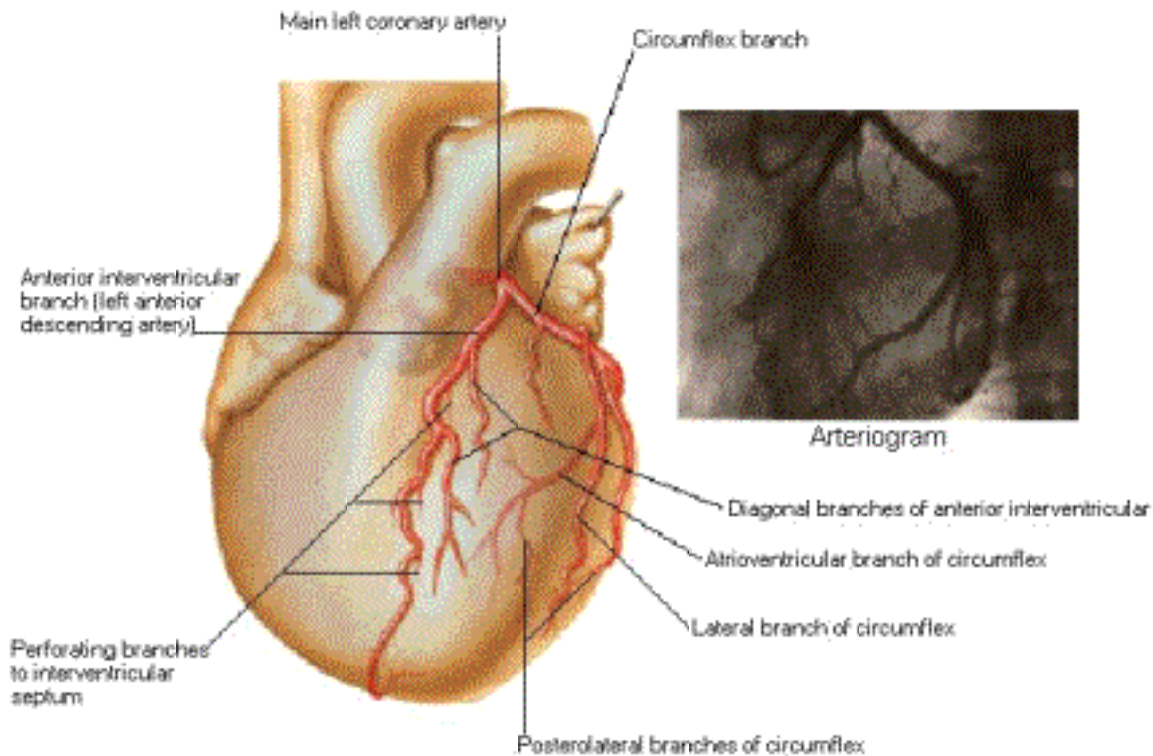
## Arteriographic View 2



Right anterior oblique view

# Left Coronary Artery

## Arteriographic View 1

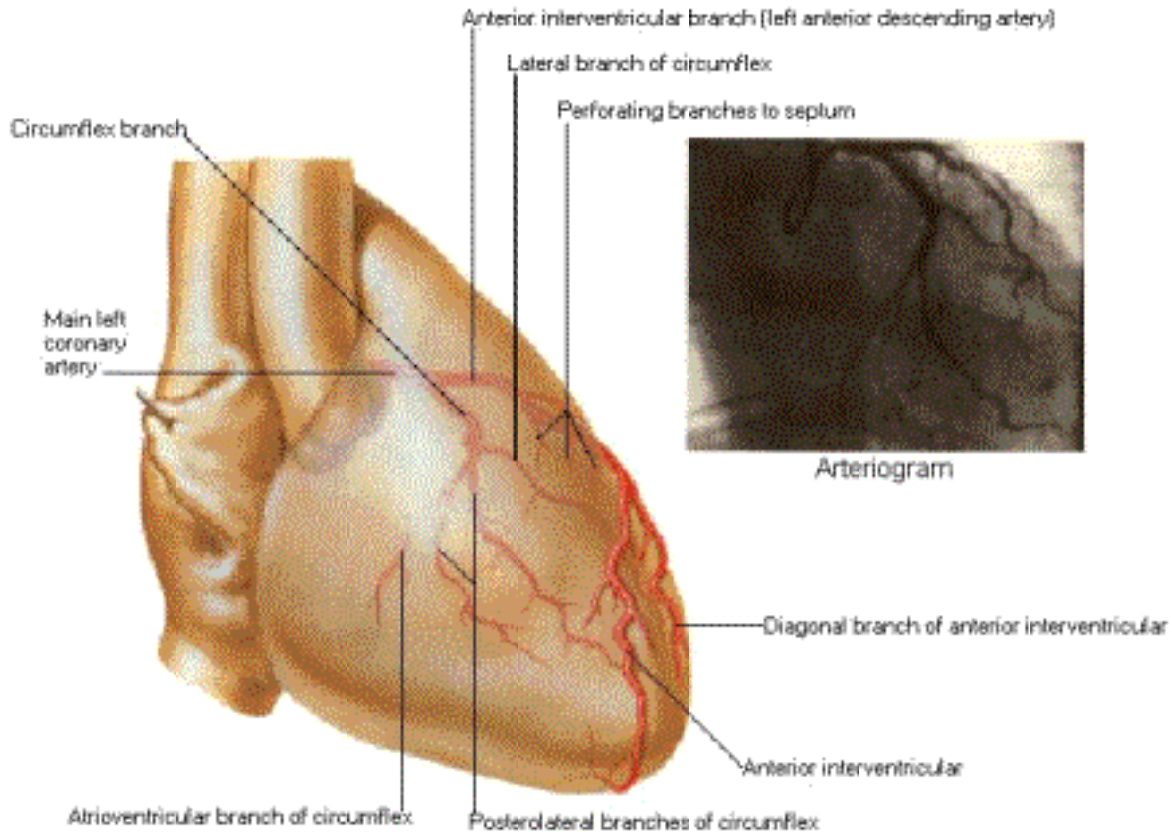


Left anterior oblique view





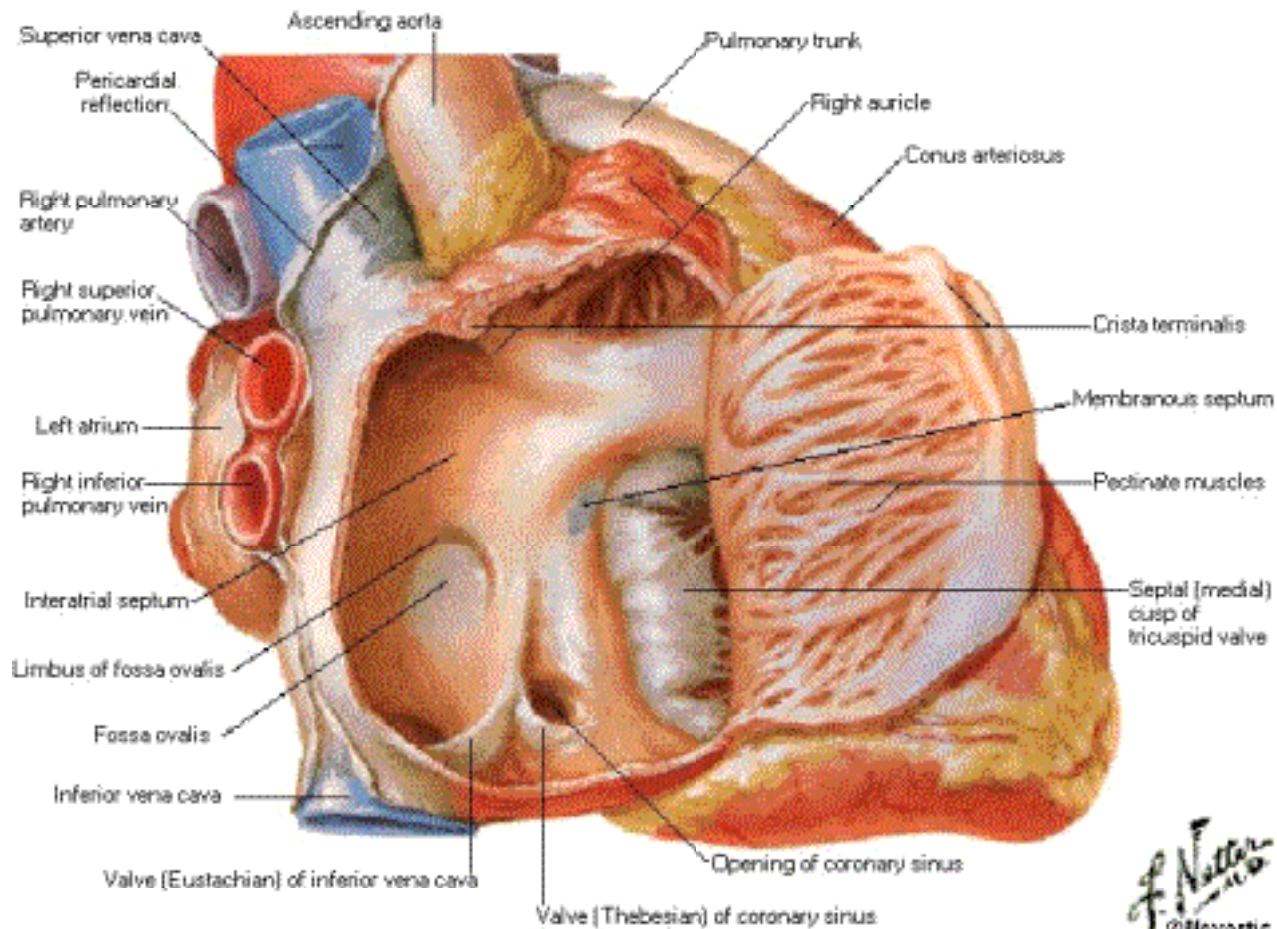
# Left Coronary Artery Arteriographic View 2



Right anterior oblique view

# Opened Right Atrium

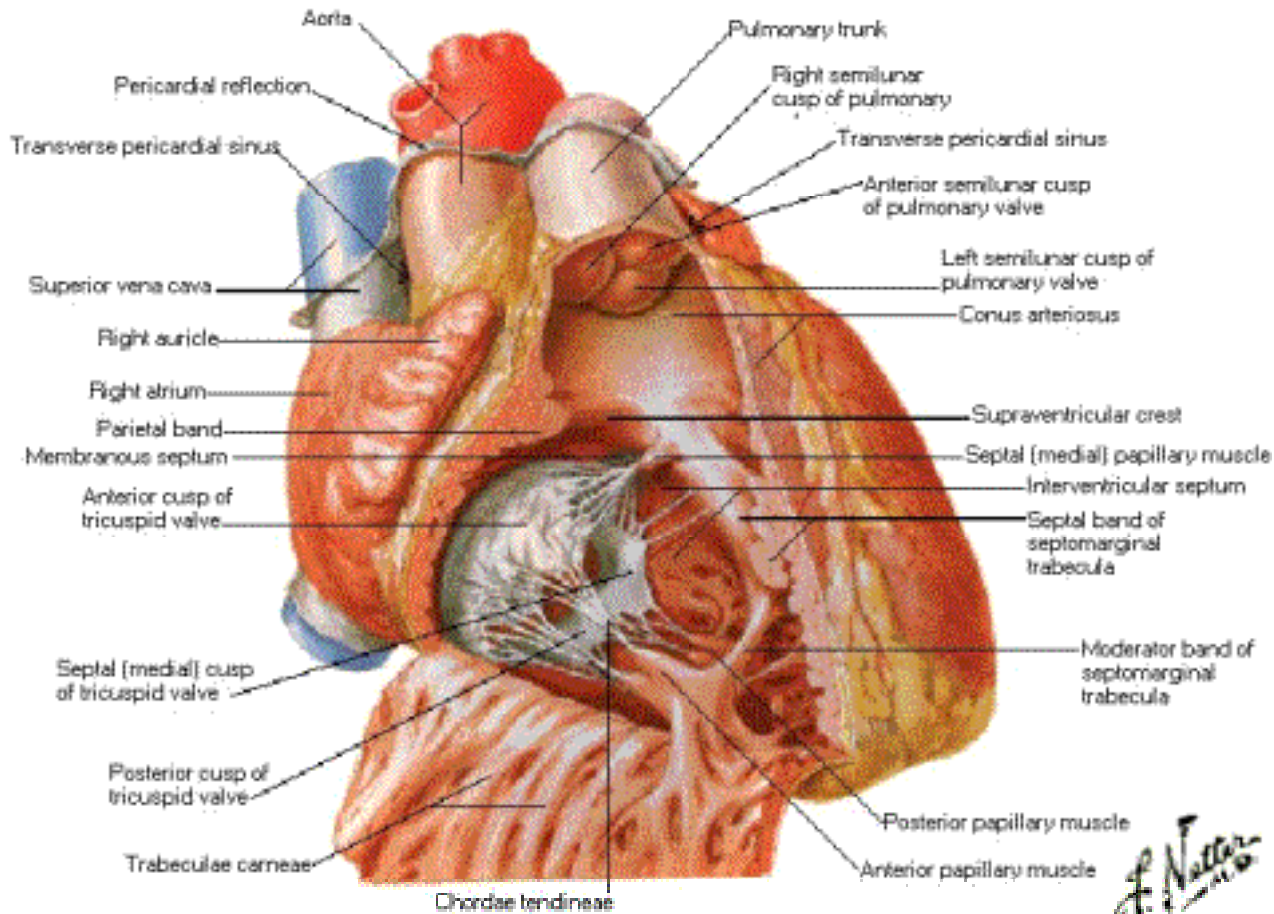
## Right Lateral View



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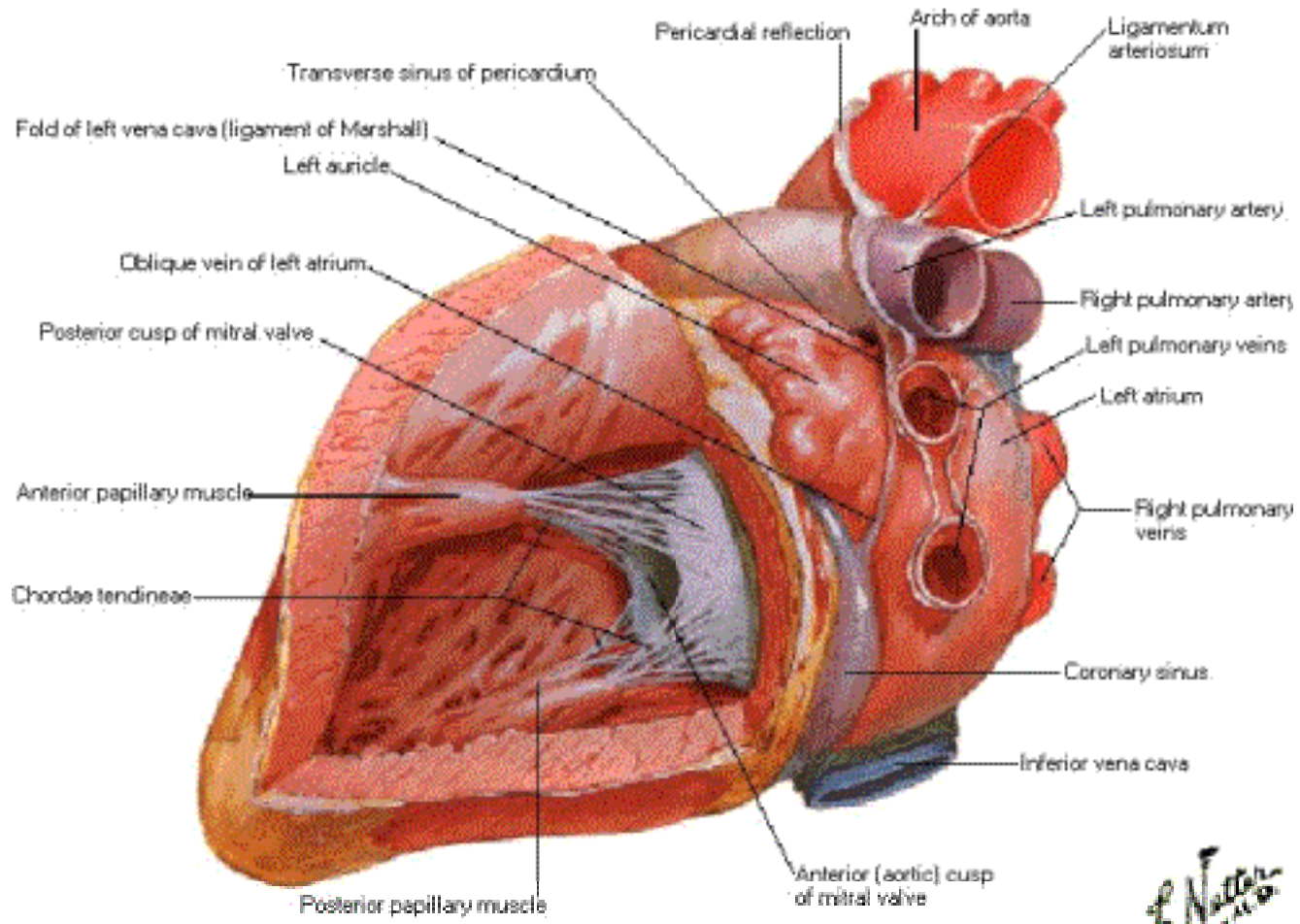
# Opened Right Ventricle

## Anterior View



# Left Ventricle

## Flap Opened in Posterolateral Wall

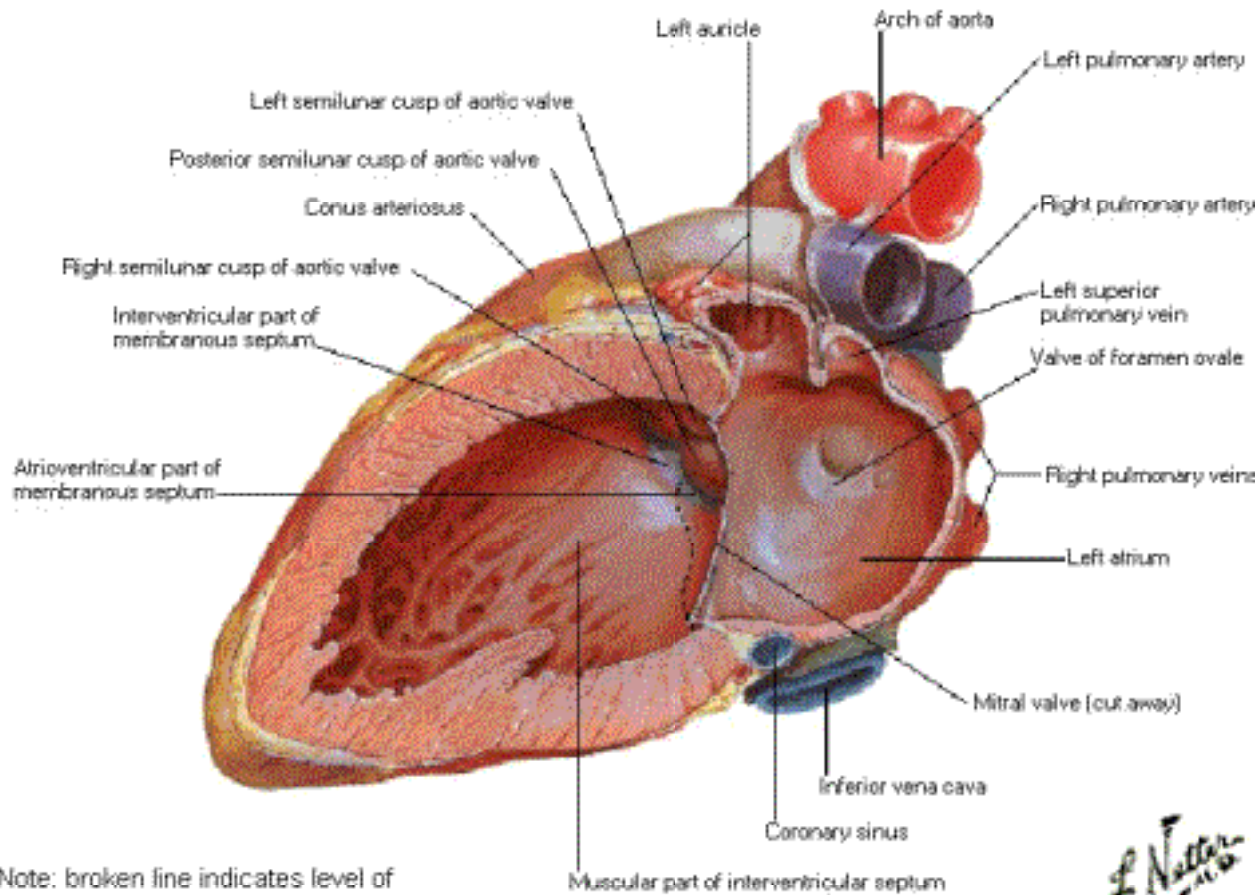


*Dr. Nigam*



# Left Atrium and Ventricle

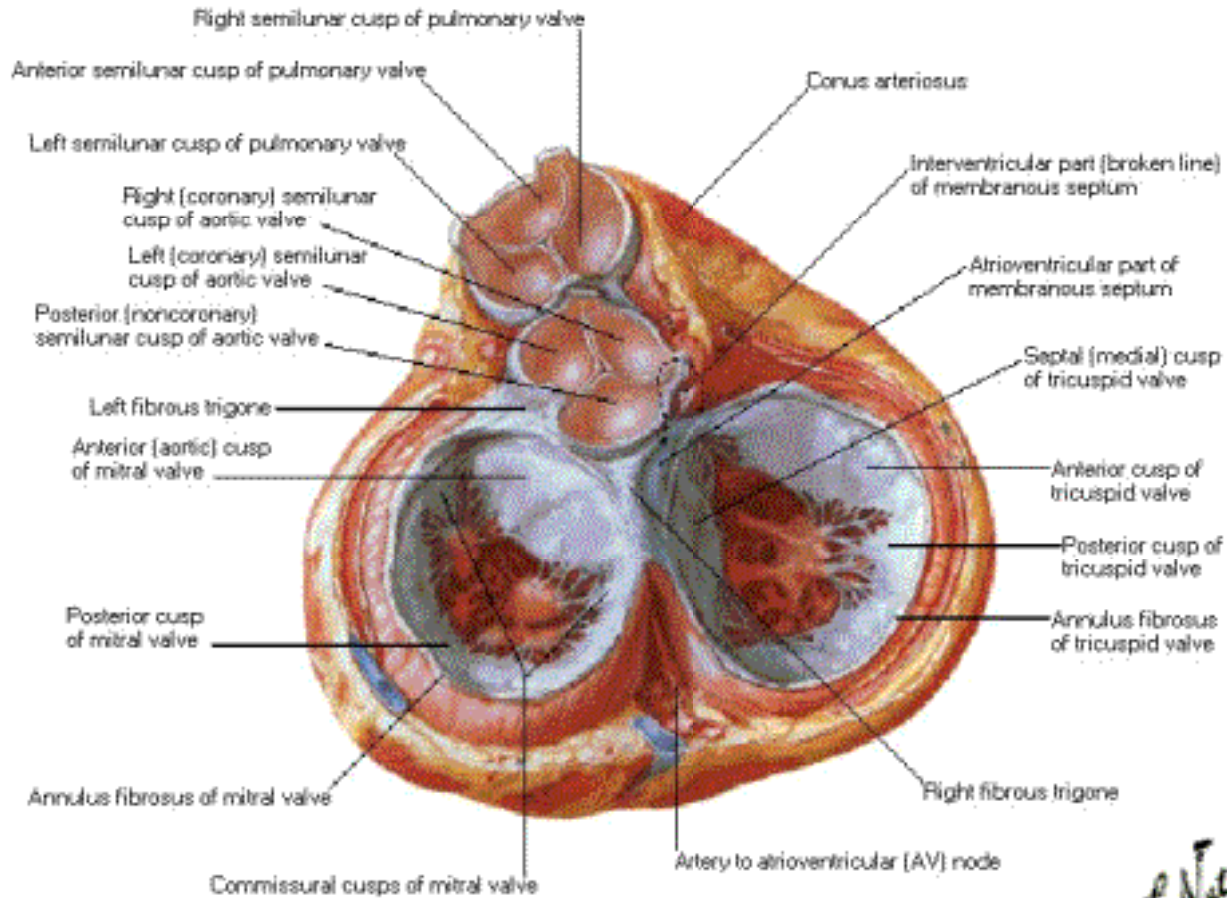
## Sectioned with Mitral Valve Cut Away



Note: broken line indicates level of origin of tricuspid valve

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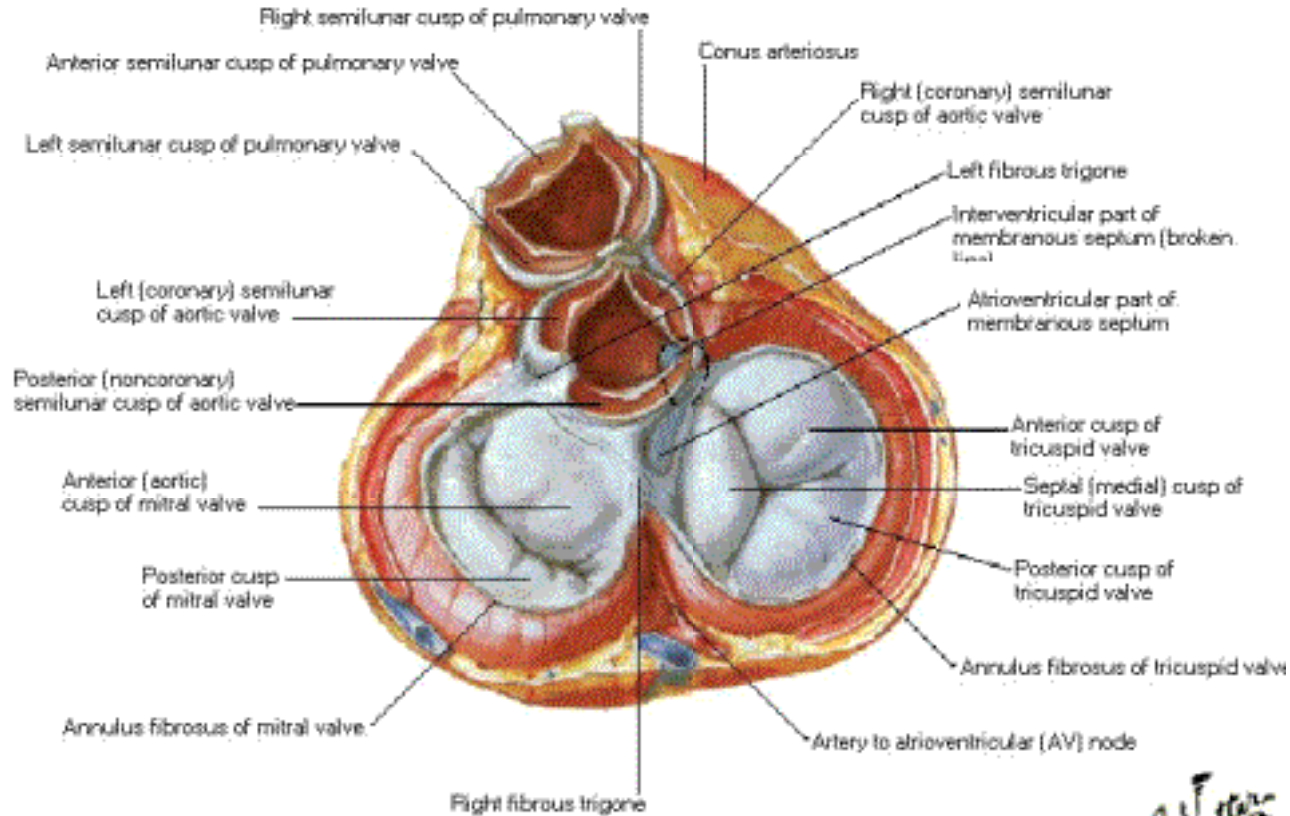
# Valves of Heart in Diastole



Viewed from base with atria removed

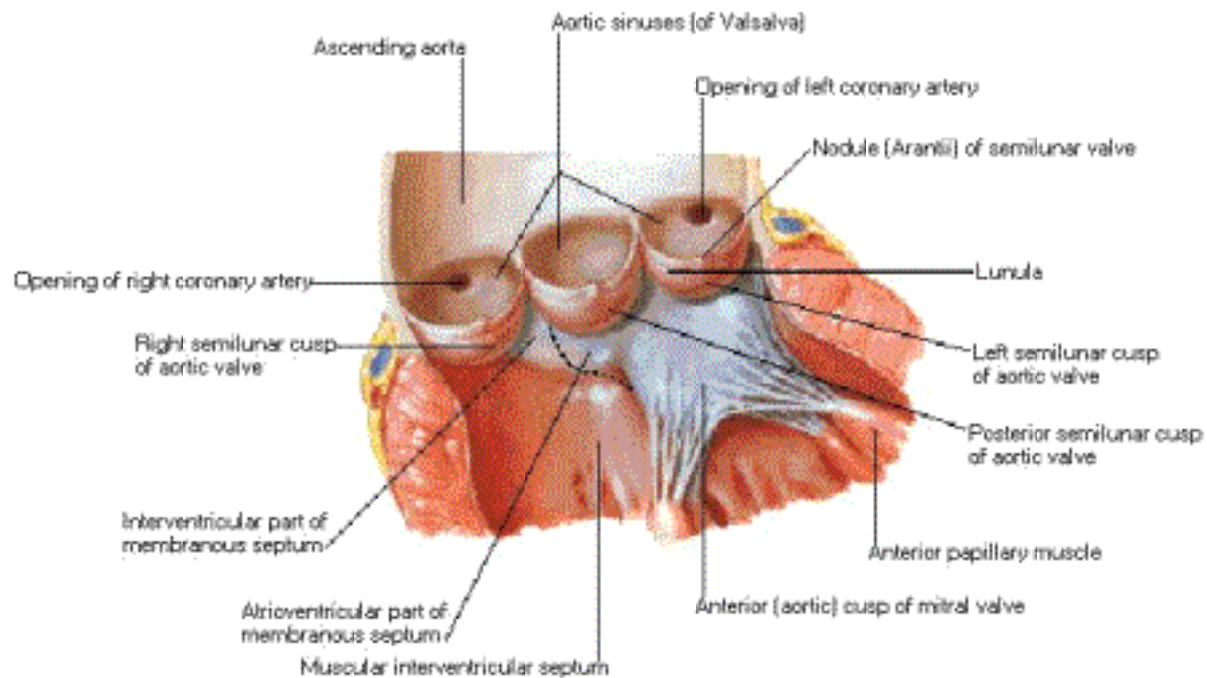
*F. Netto*  
M.D.

## Valves of Heart in Systole



Viewed from base with atria removed

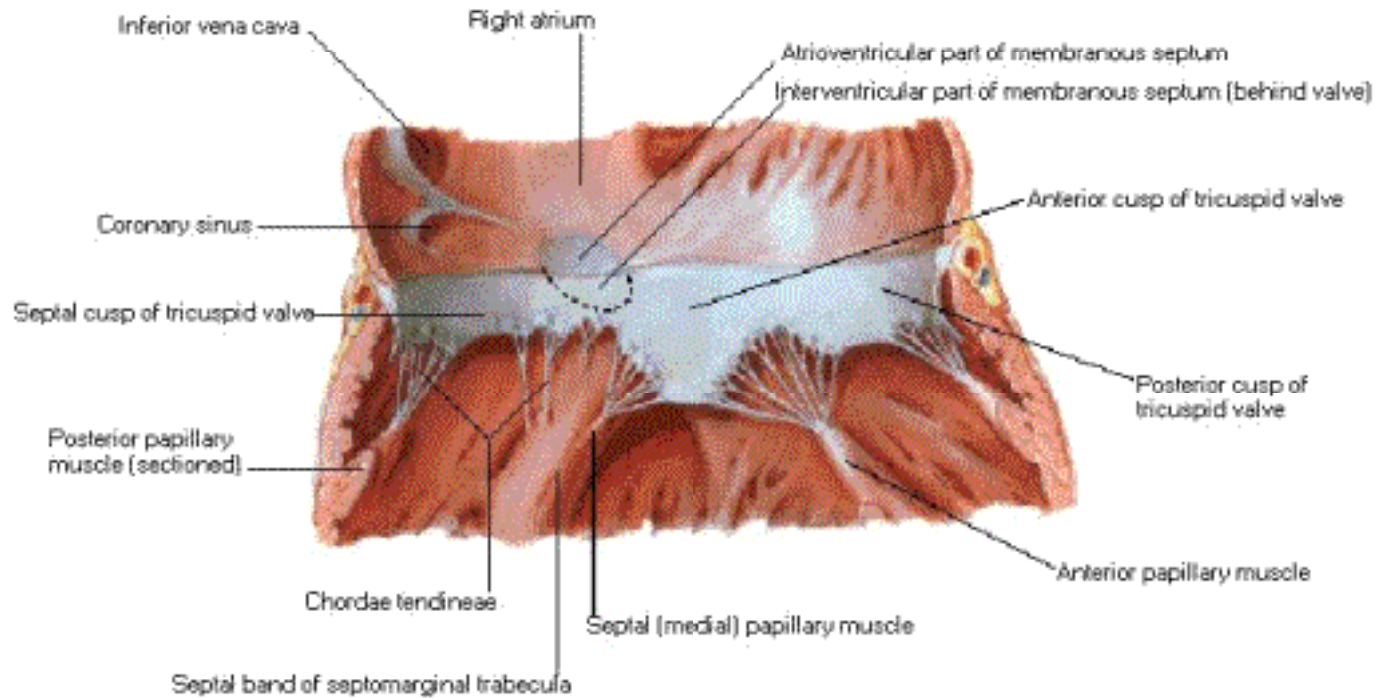
# Aortic Valve



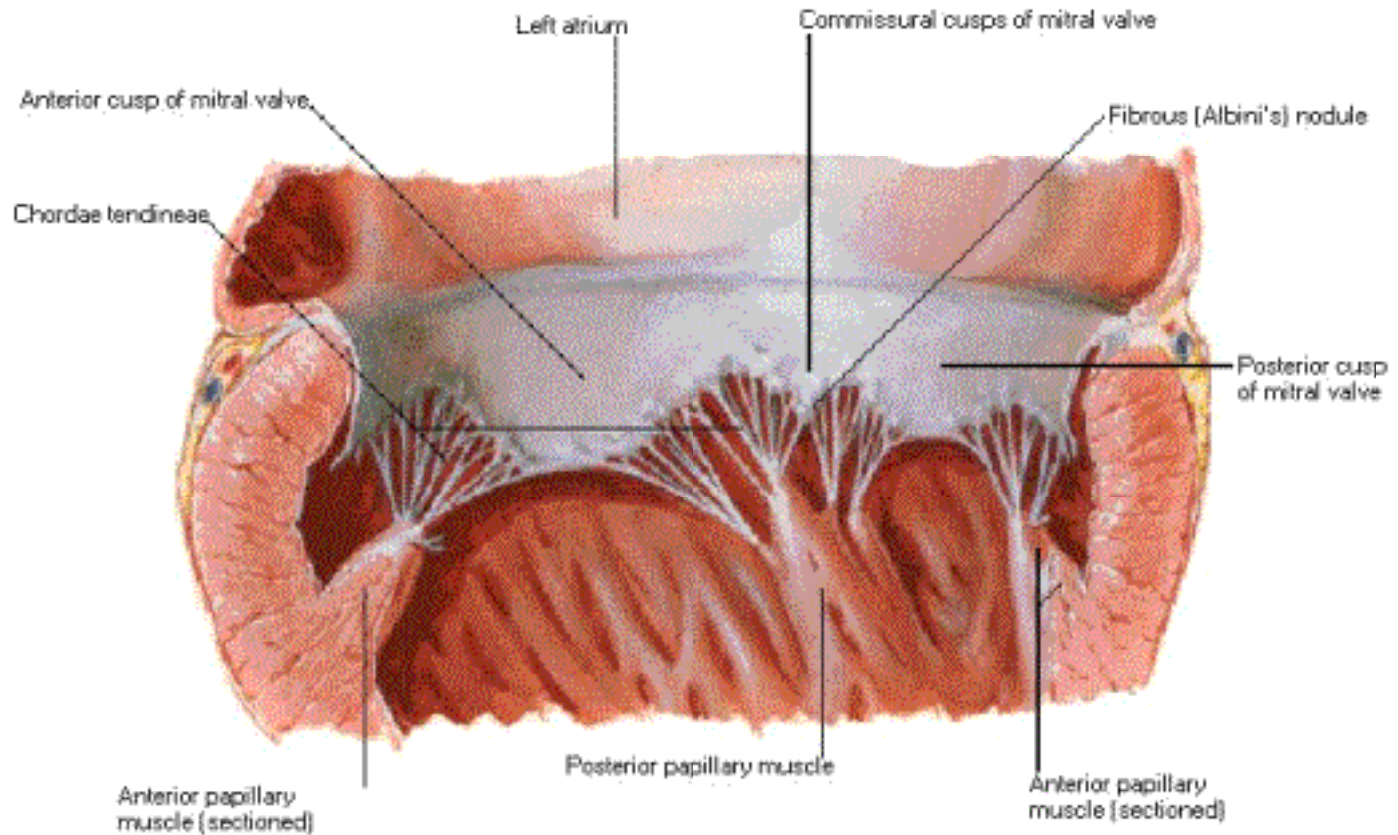
Note: broken line indicates level of origin of tricuspid valve on opposite side of septum.



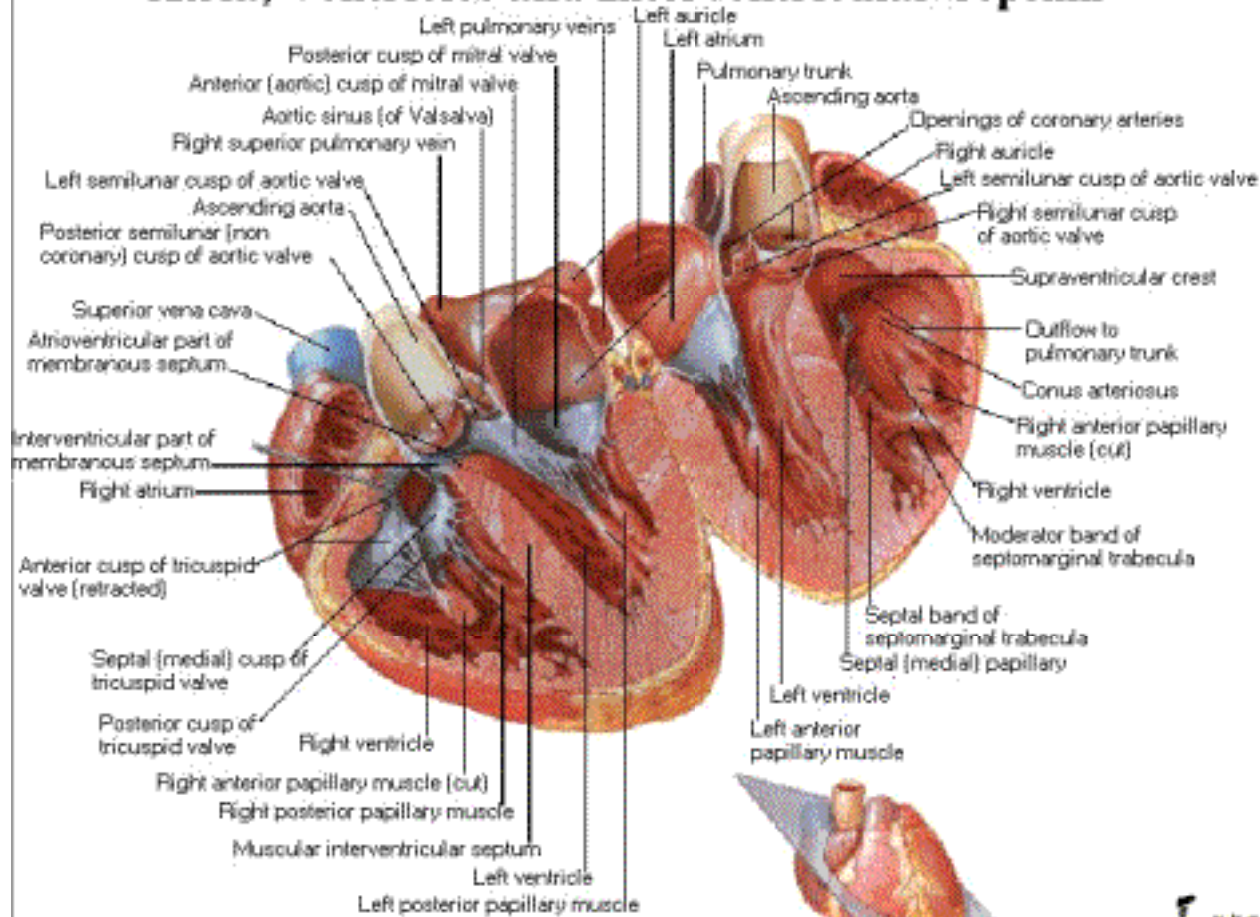
# Tricuspid [Right Atrioventricular] Valve



# Mitral [Left Atrioventricular] Valve



# Atria, Ventricles and Interventricular Septum

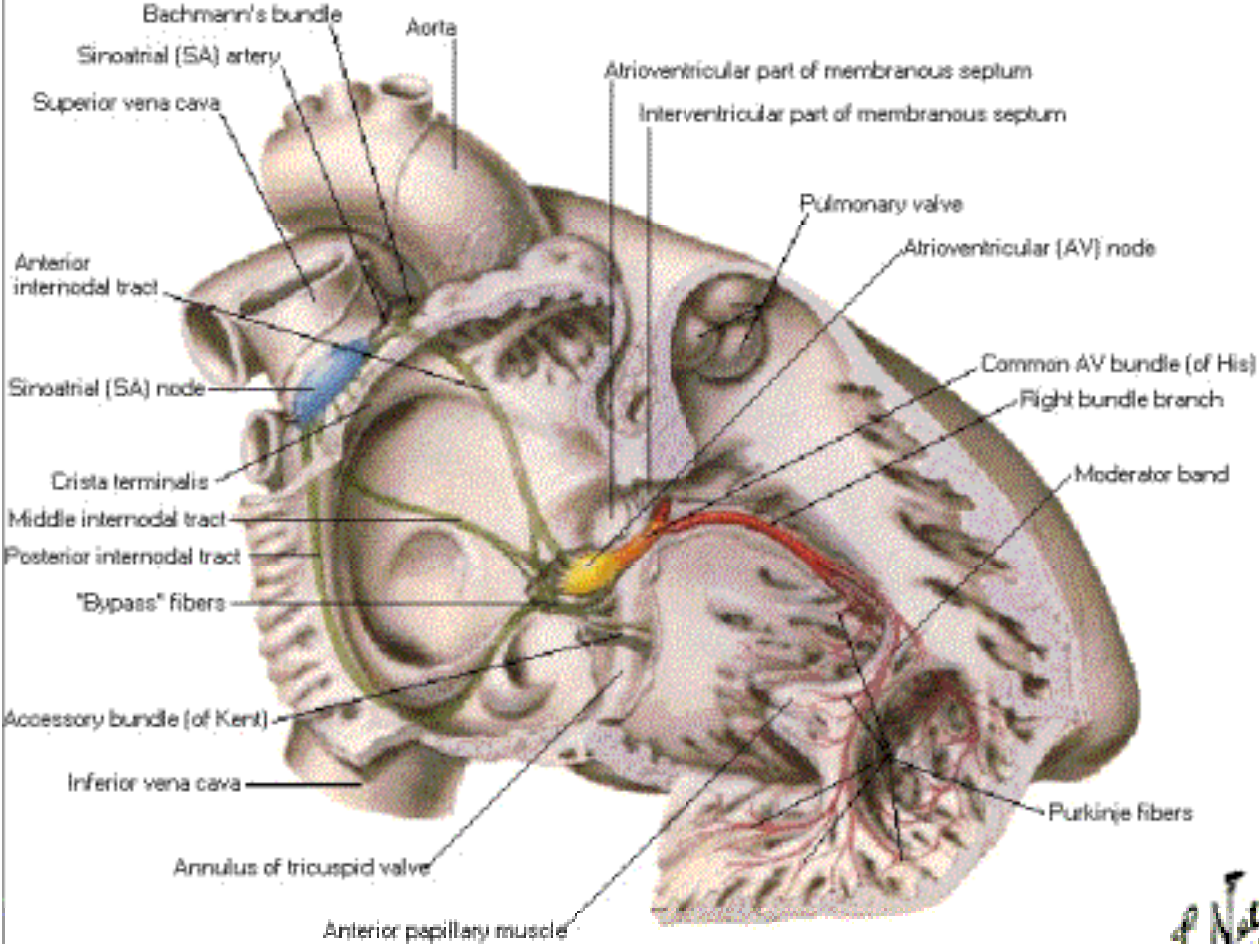


Note: broken line indicates line of attachment of septal leaflet of tricuspid valve.

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# Conduction System of Heart

## Right Side

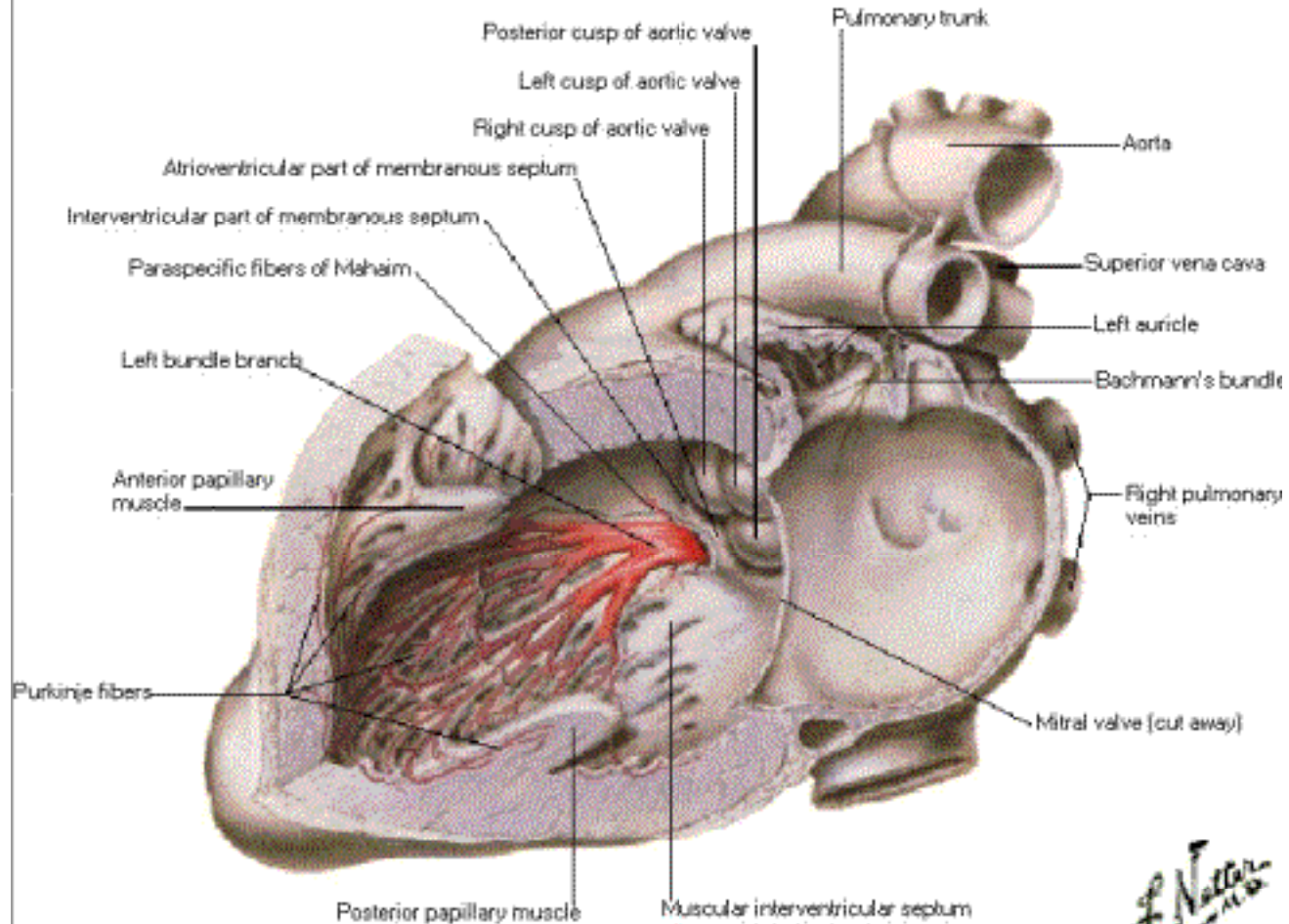


eNotes

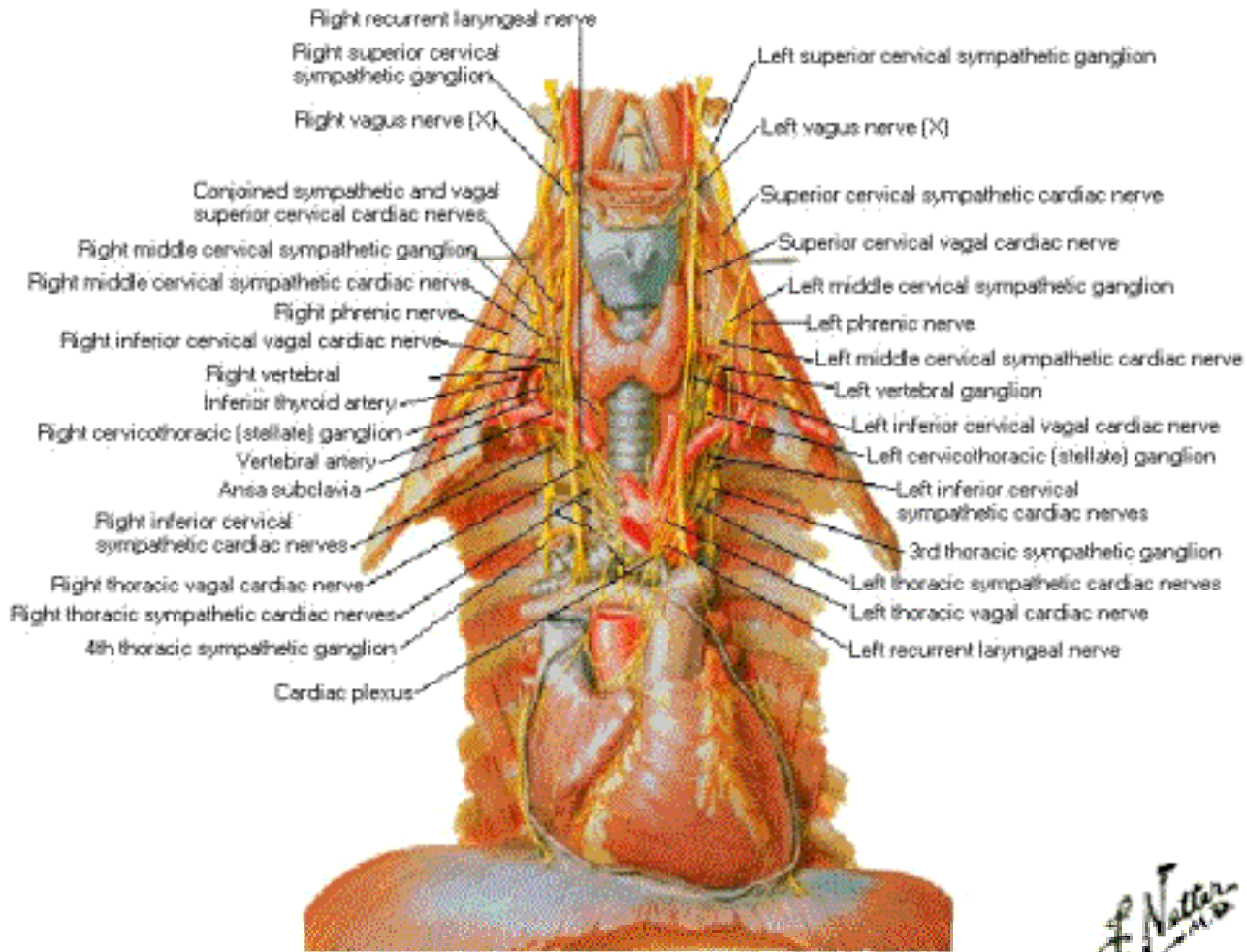


# Conduction System of Heart

## Left Side

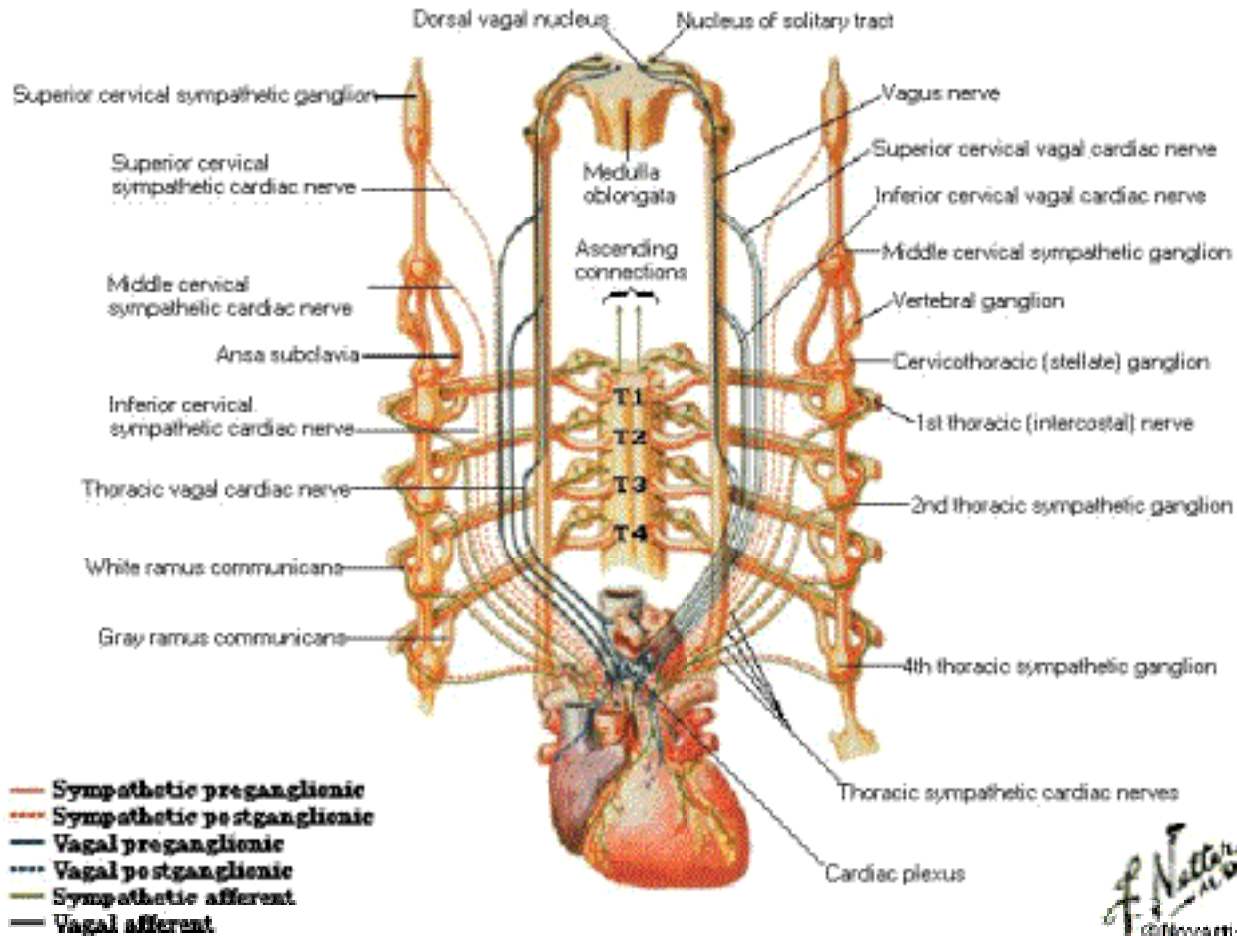


# Nerves of Heart



# Innervation of Heart

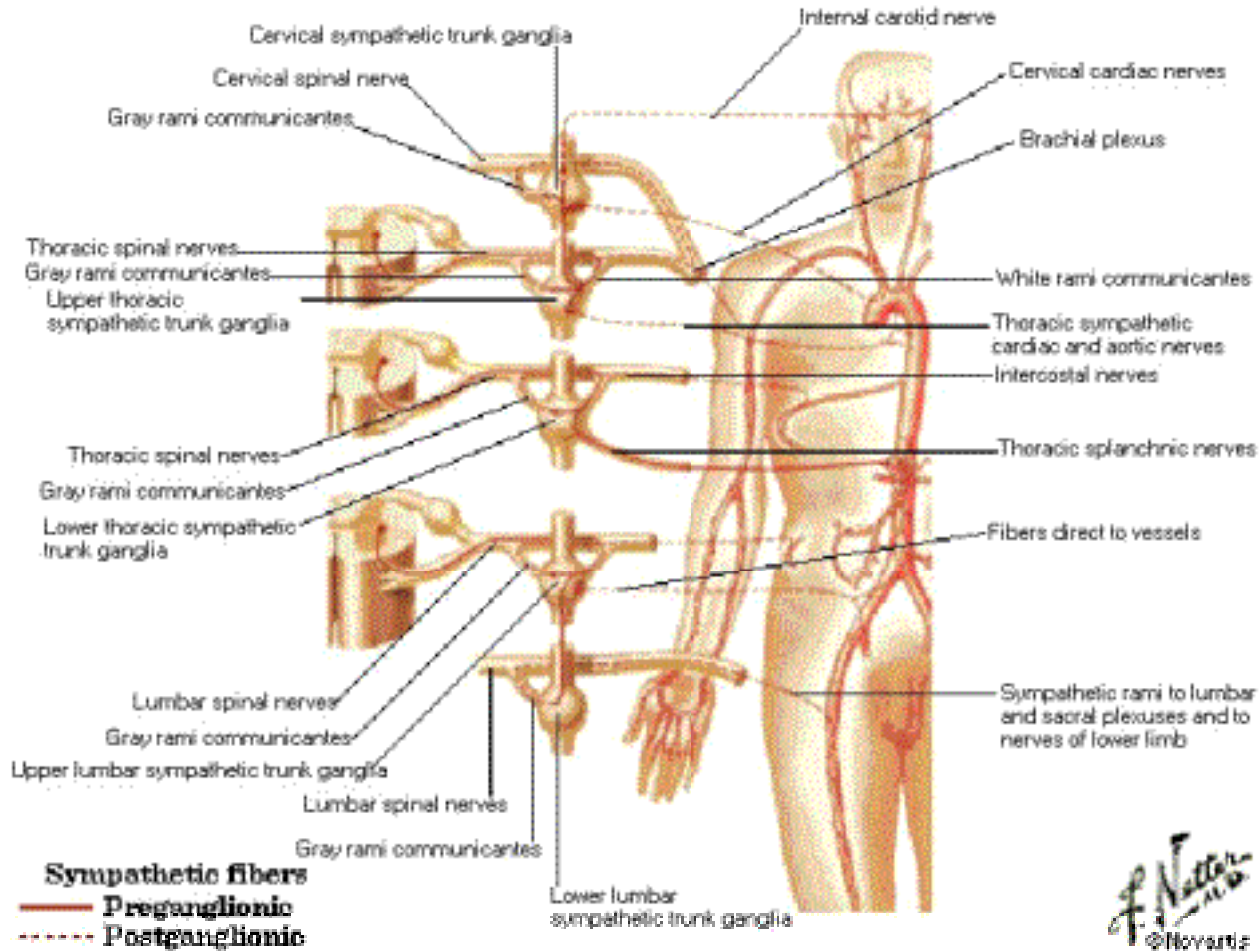
## Schema



F. Natta  
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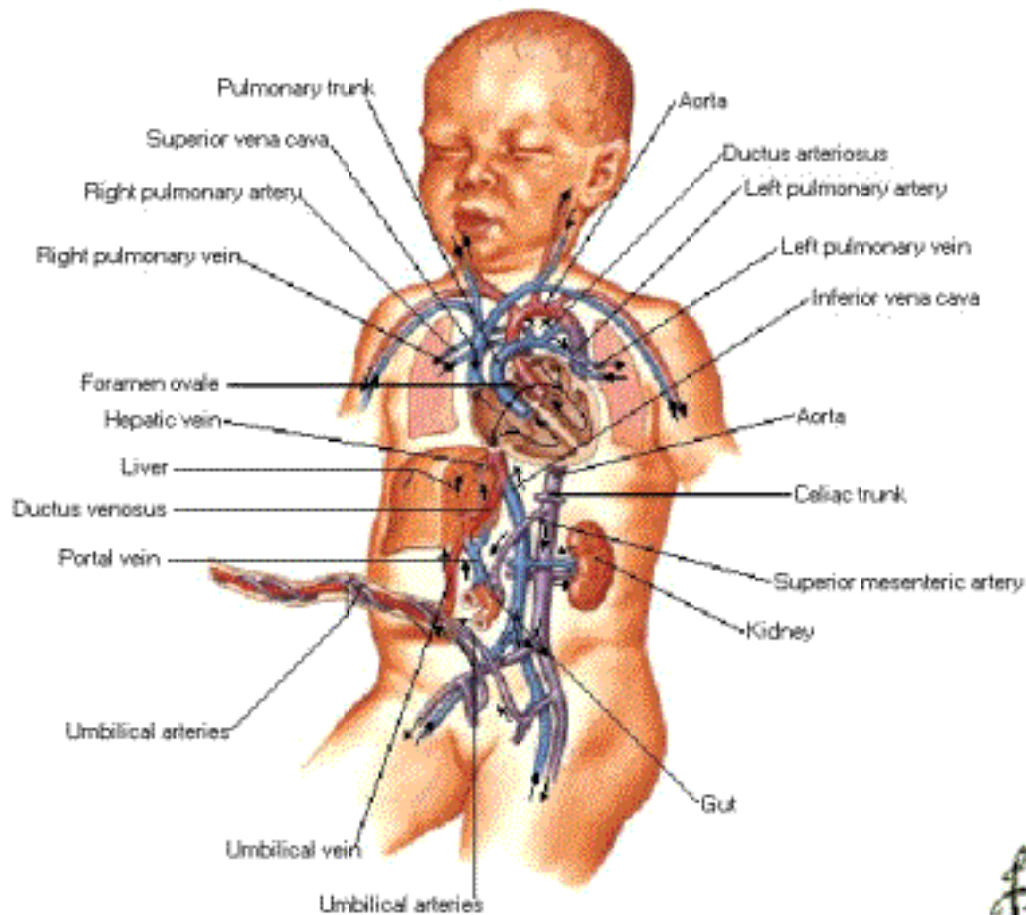
# Innervation of Blood Vessels

## Schema



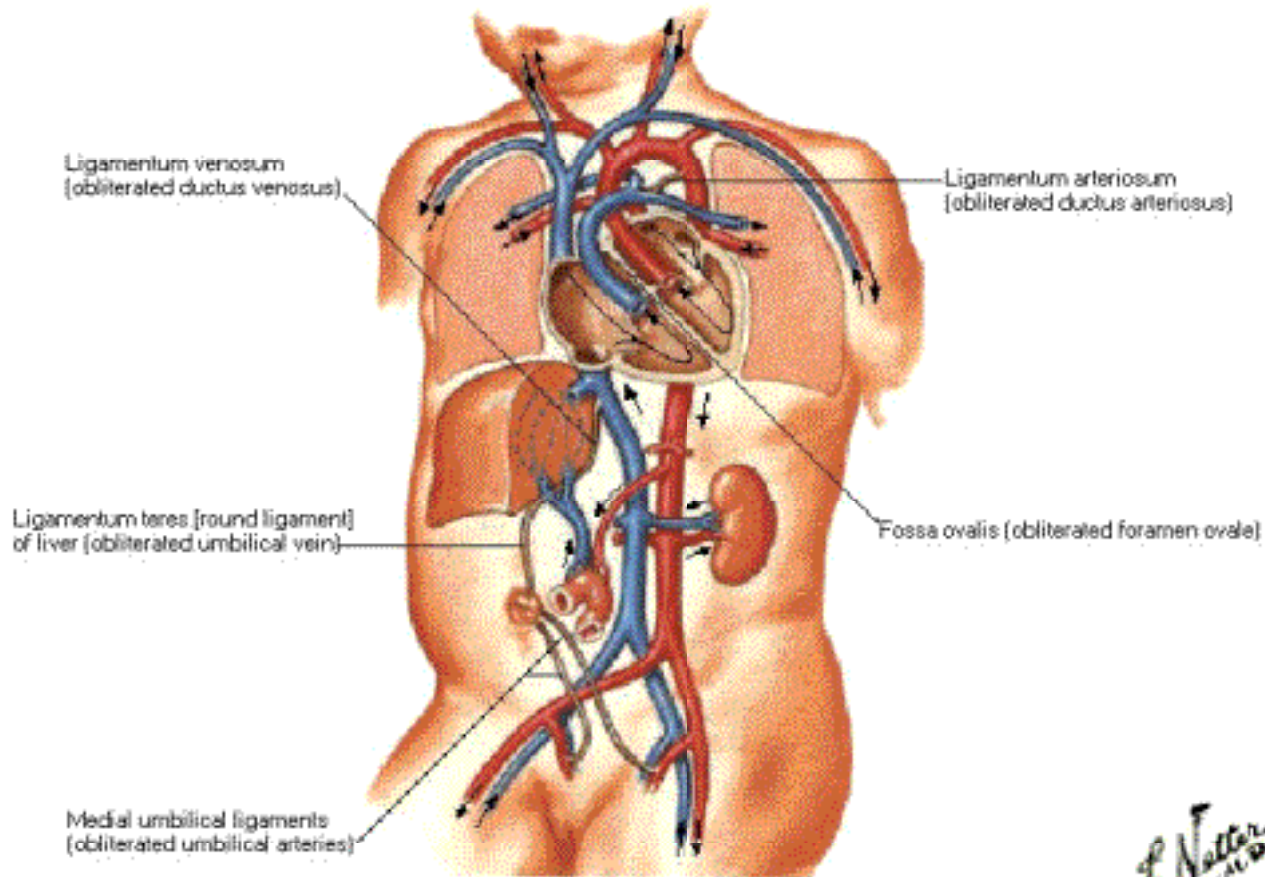


# Prenatal Circulation



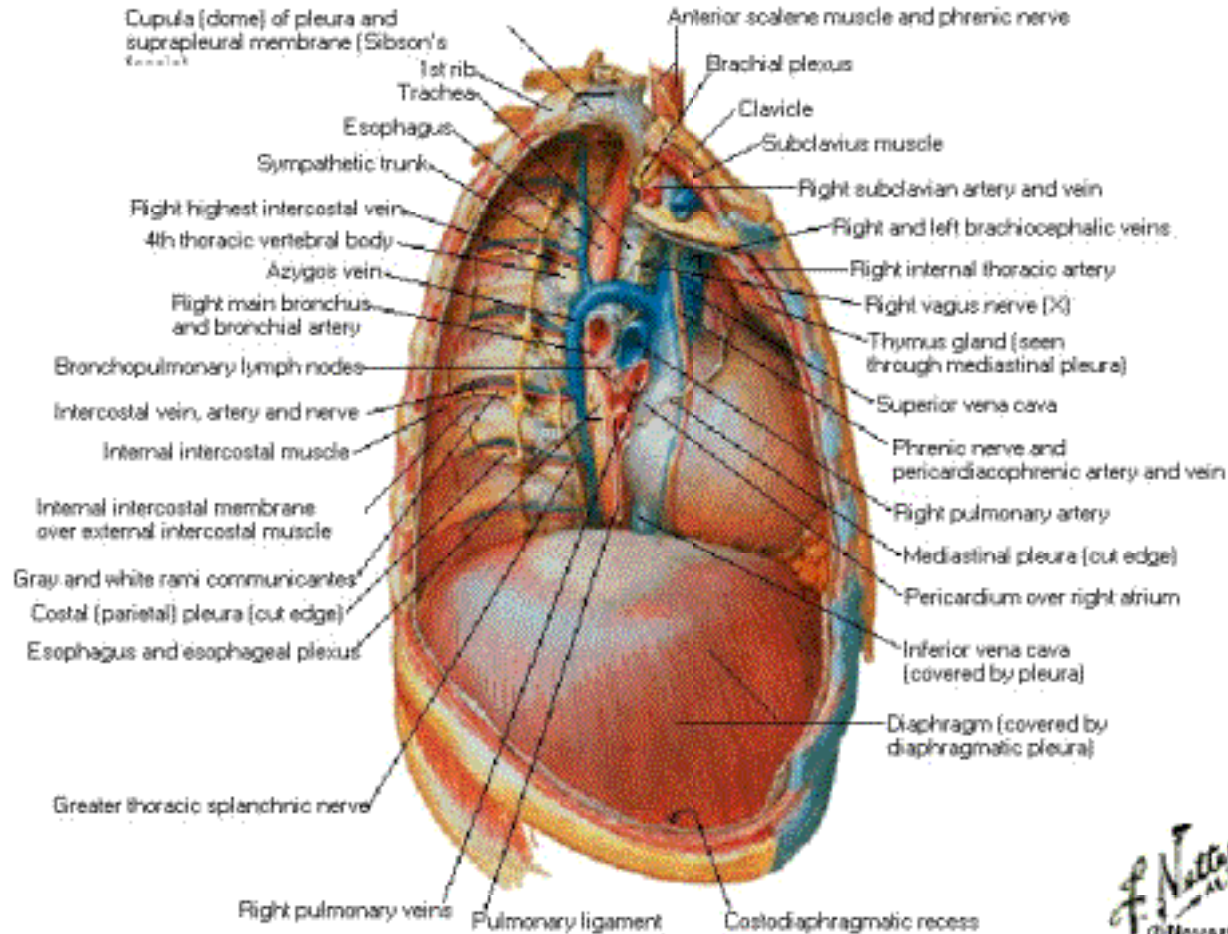
*L.*

# Postnatal Circulation



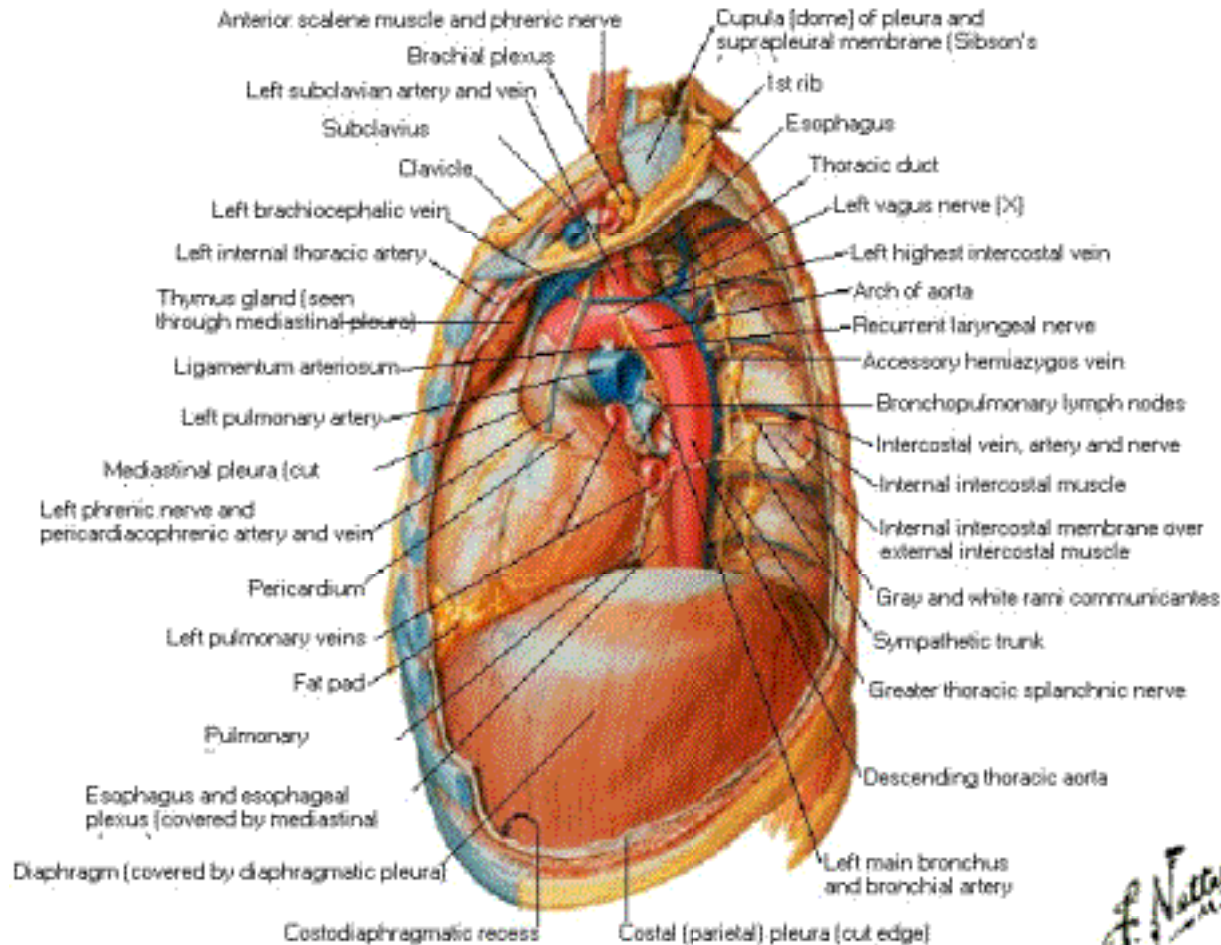
# Mediastinum

## Right Lateral View



# Mediastinum

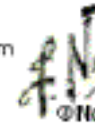
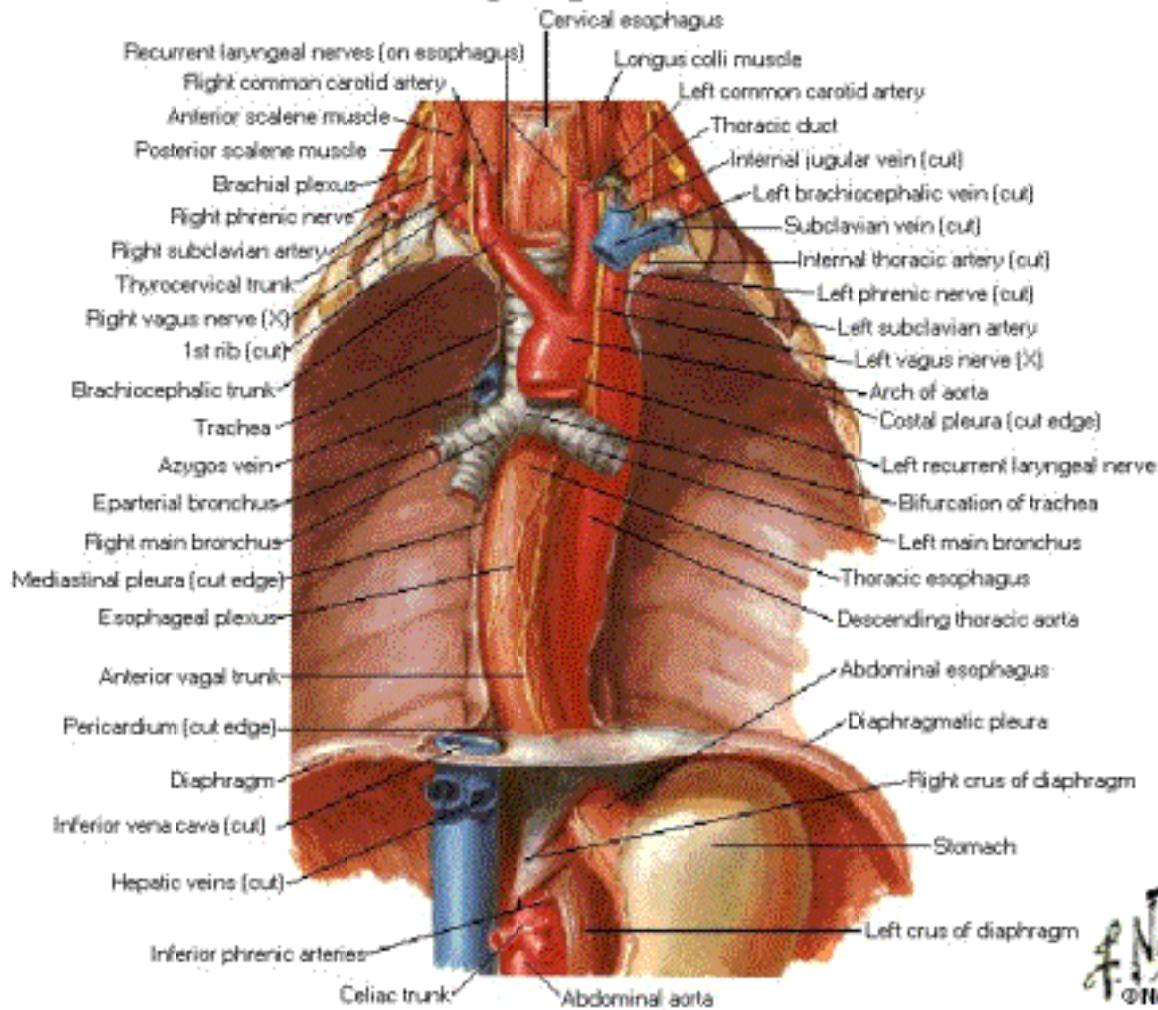
## Left Lateral View



*F. Netter*  
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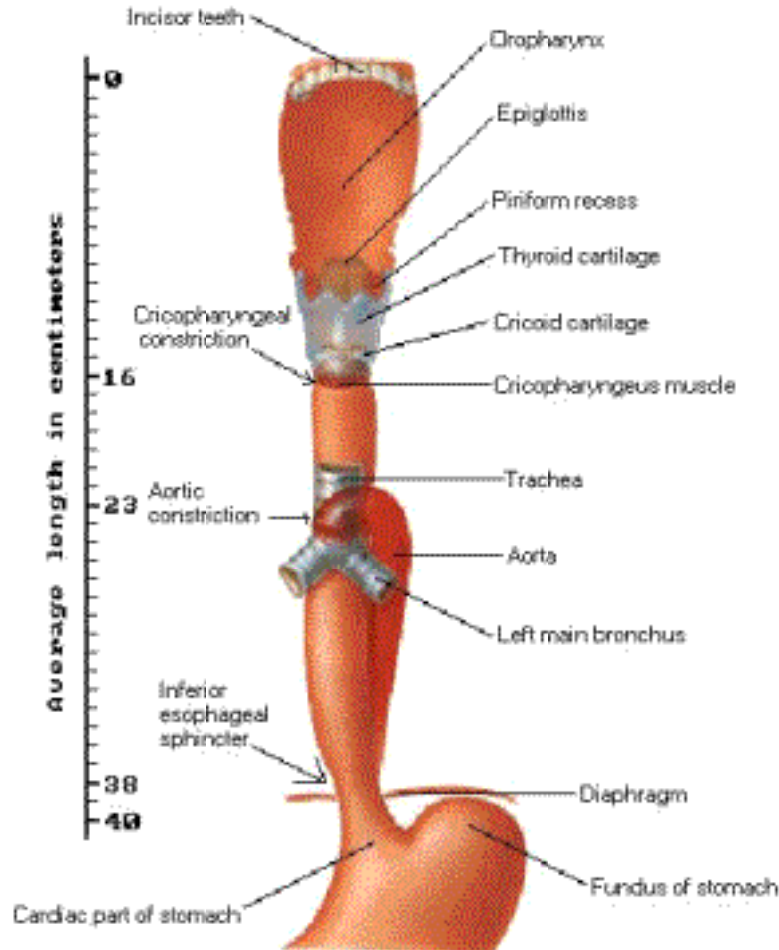


# Esophagus in Situ



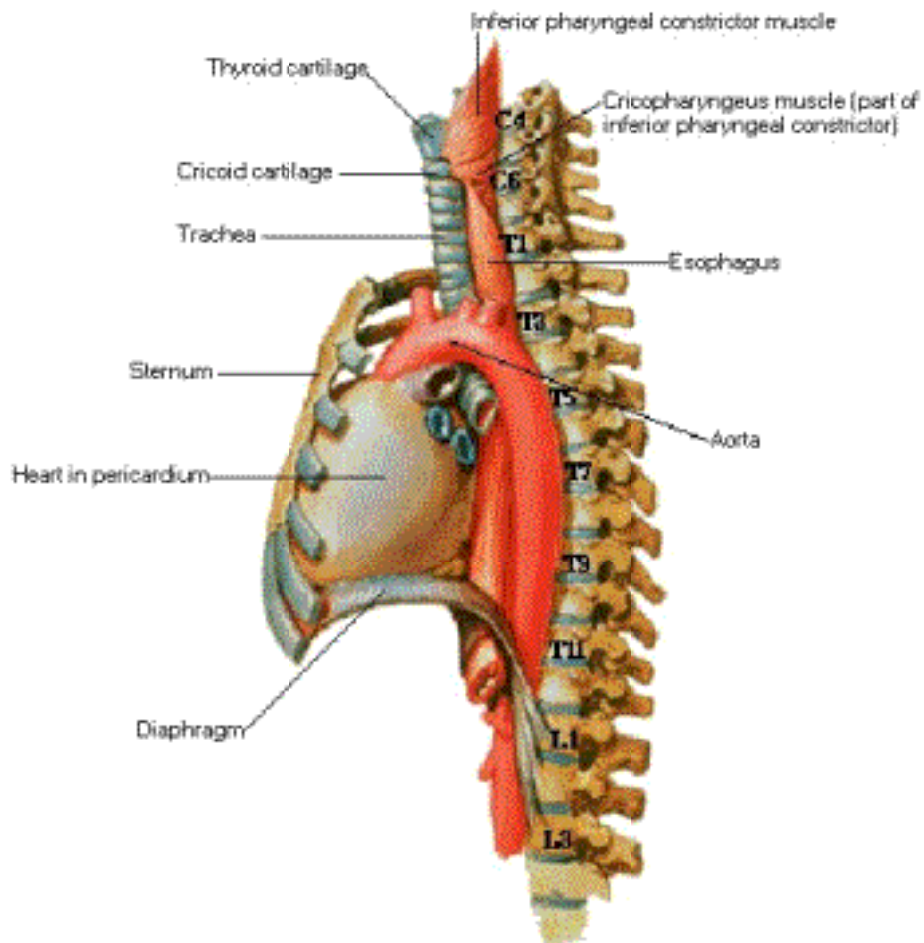
# Topography and Constrictions of Esophagus

## Schema - Anterior View

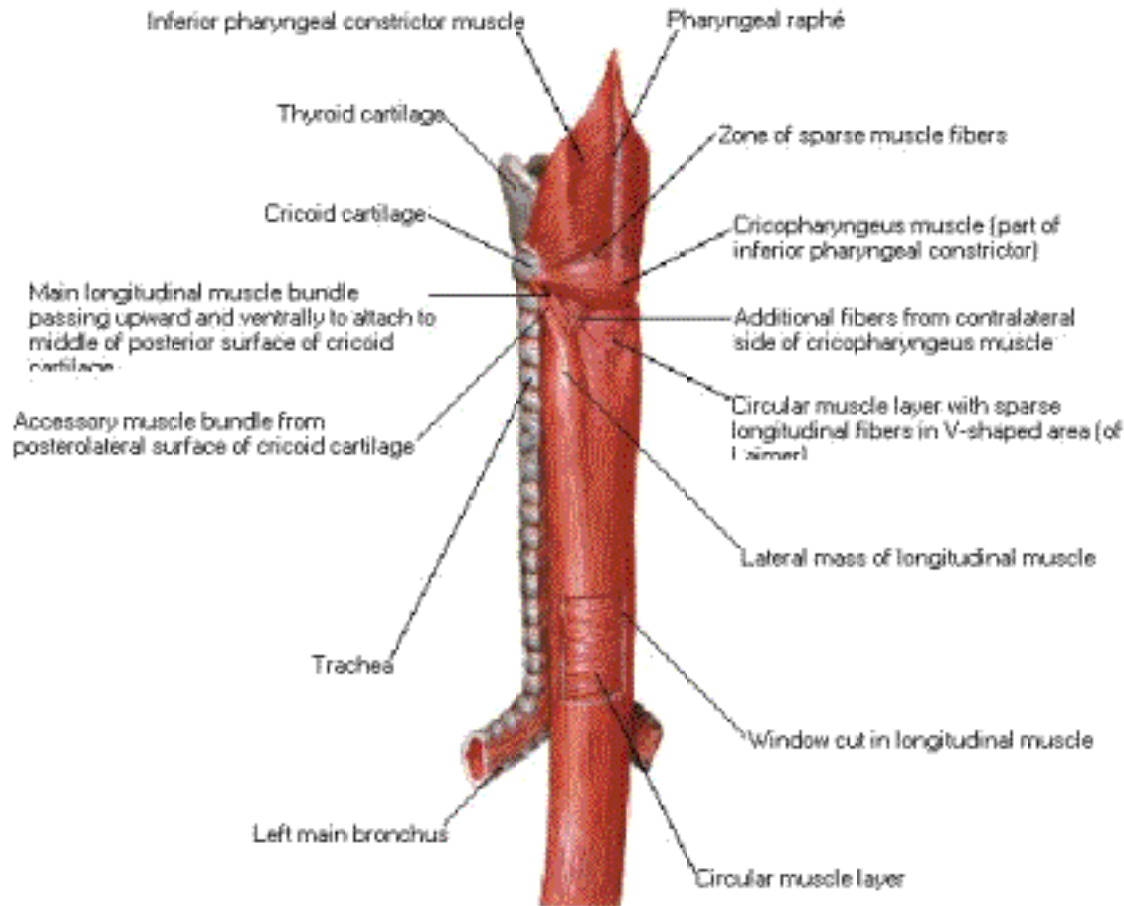


# Topography and Constrictions of Esophagus

## Lateral View

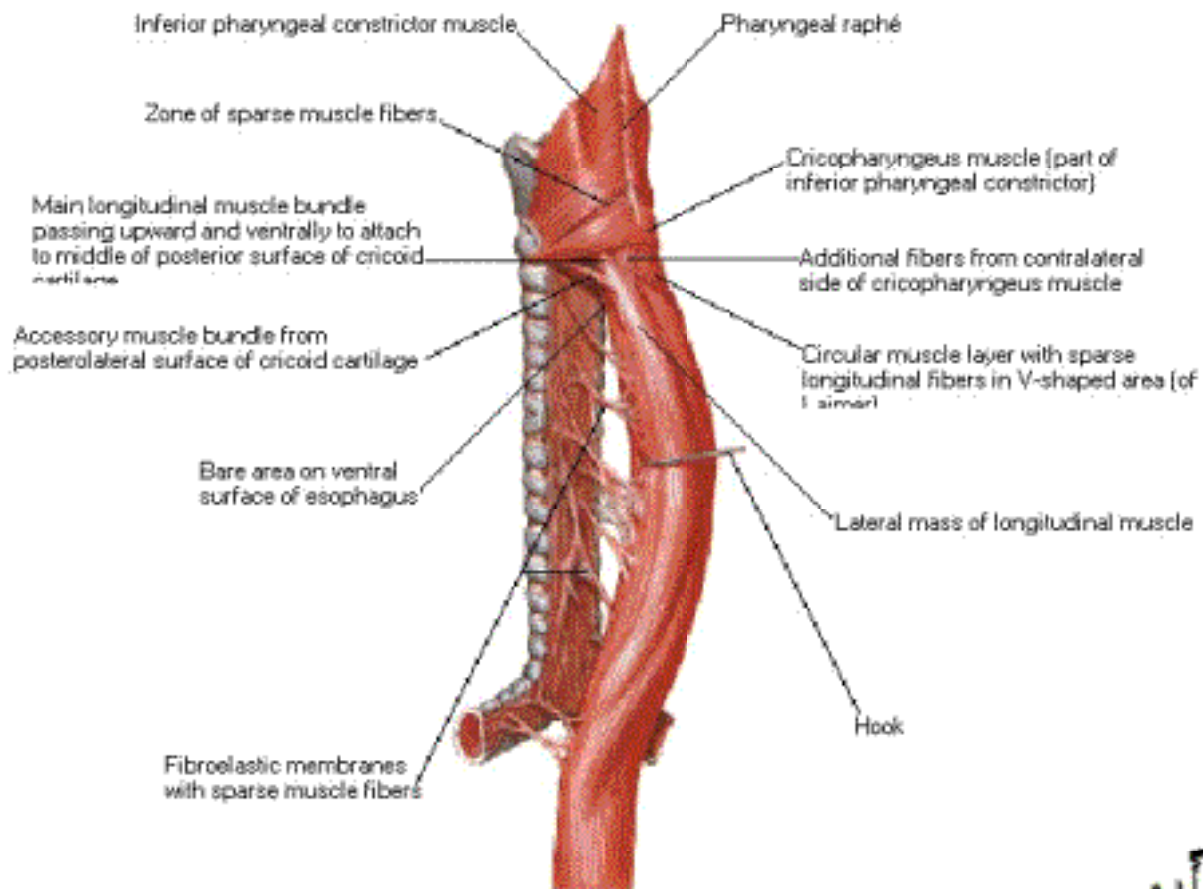


# Musculature of Esophagus 1

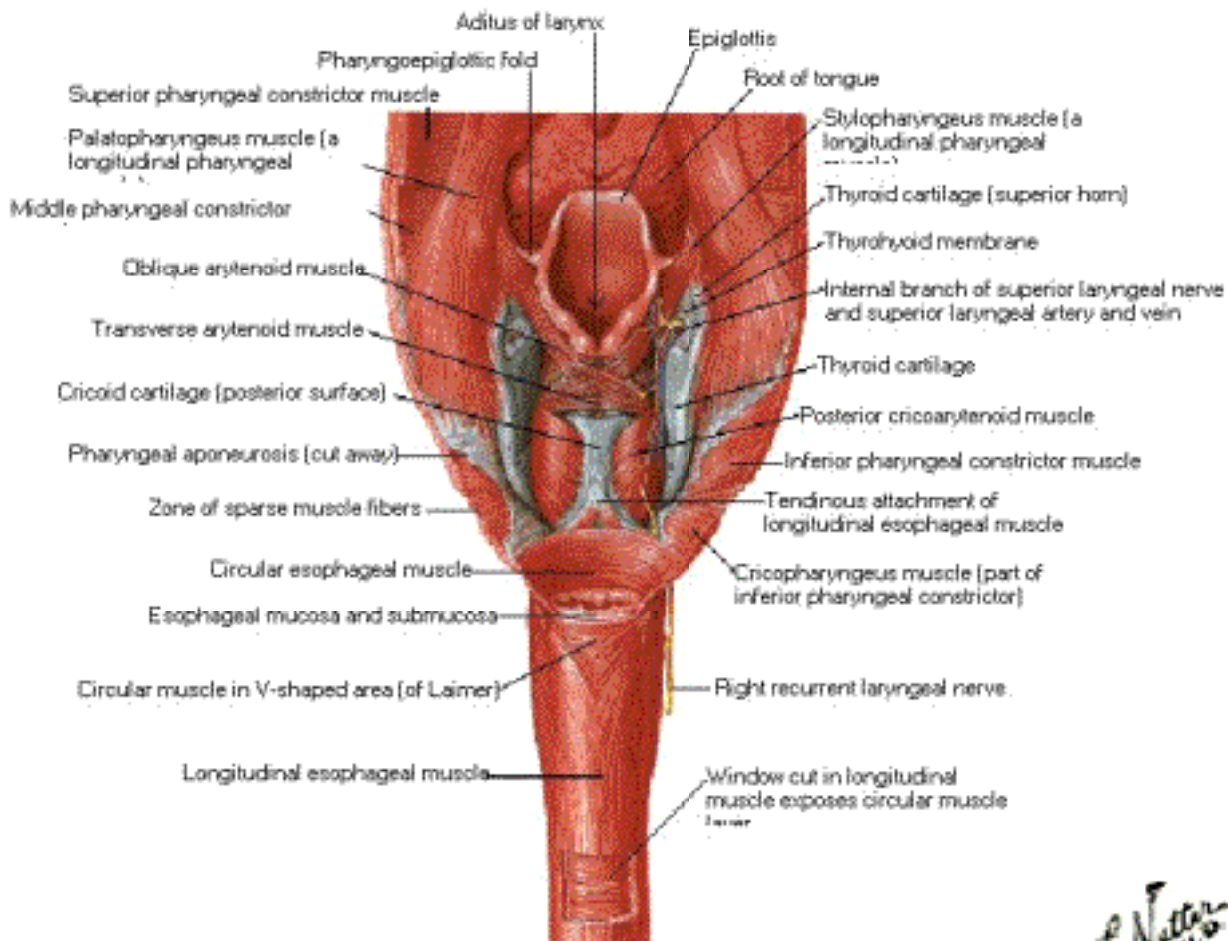




## Musculature of Esophagus 2



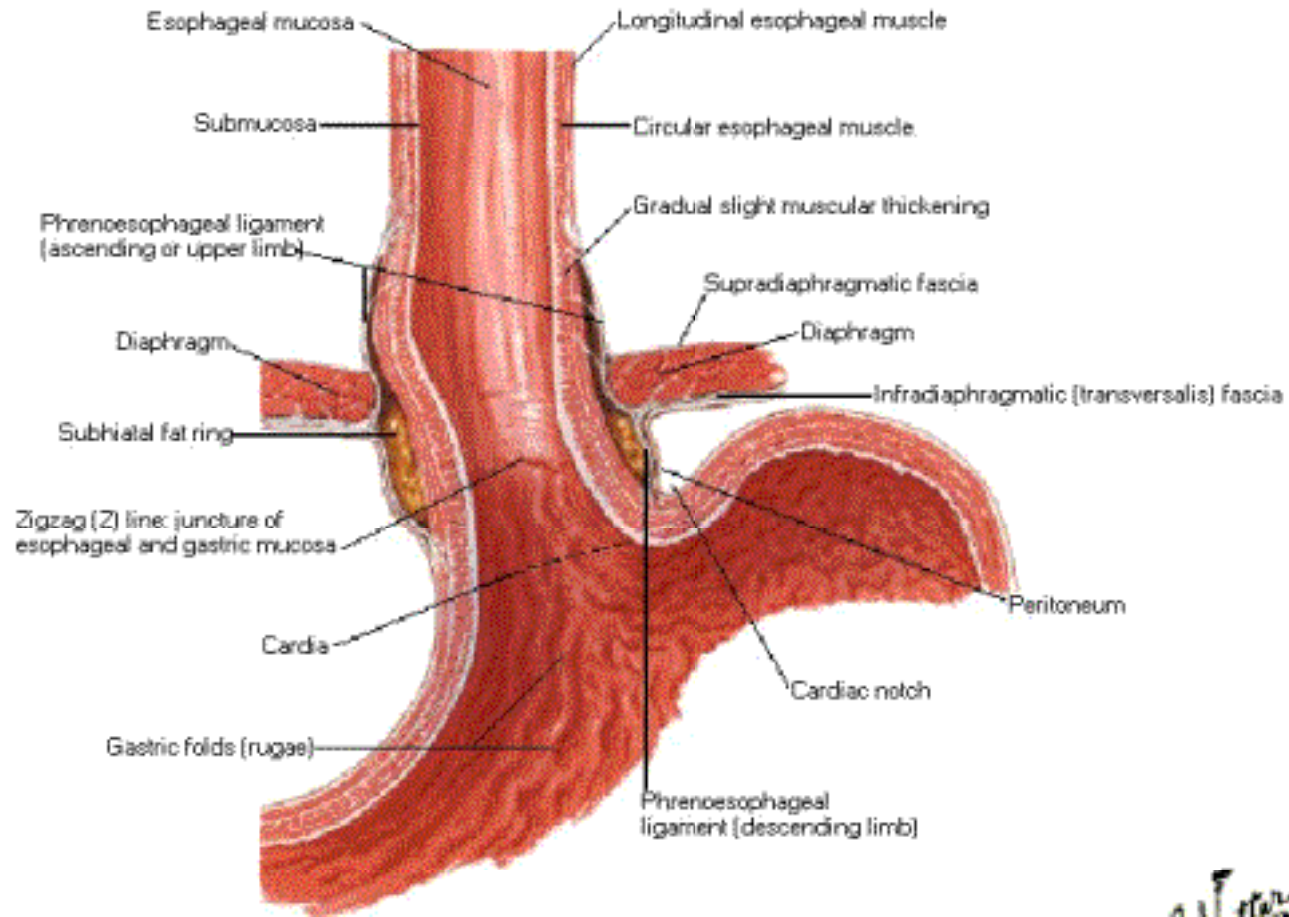
# Pharyngoesophageal Junction



Posterior view with pharynx opened and mucosa removed

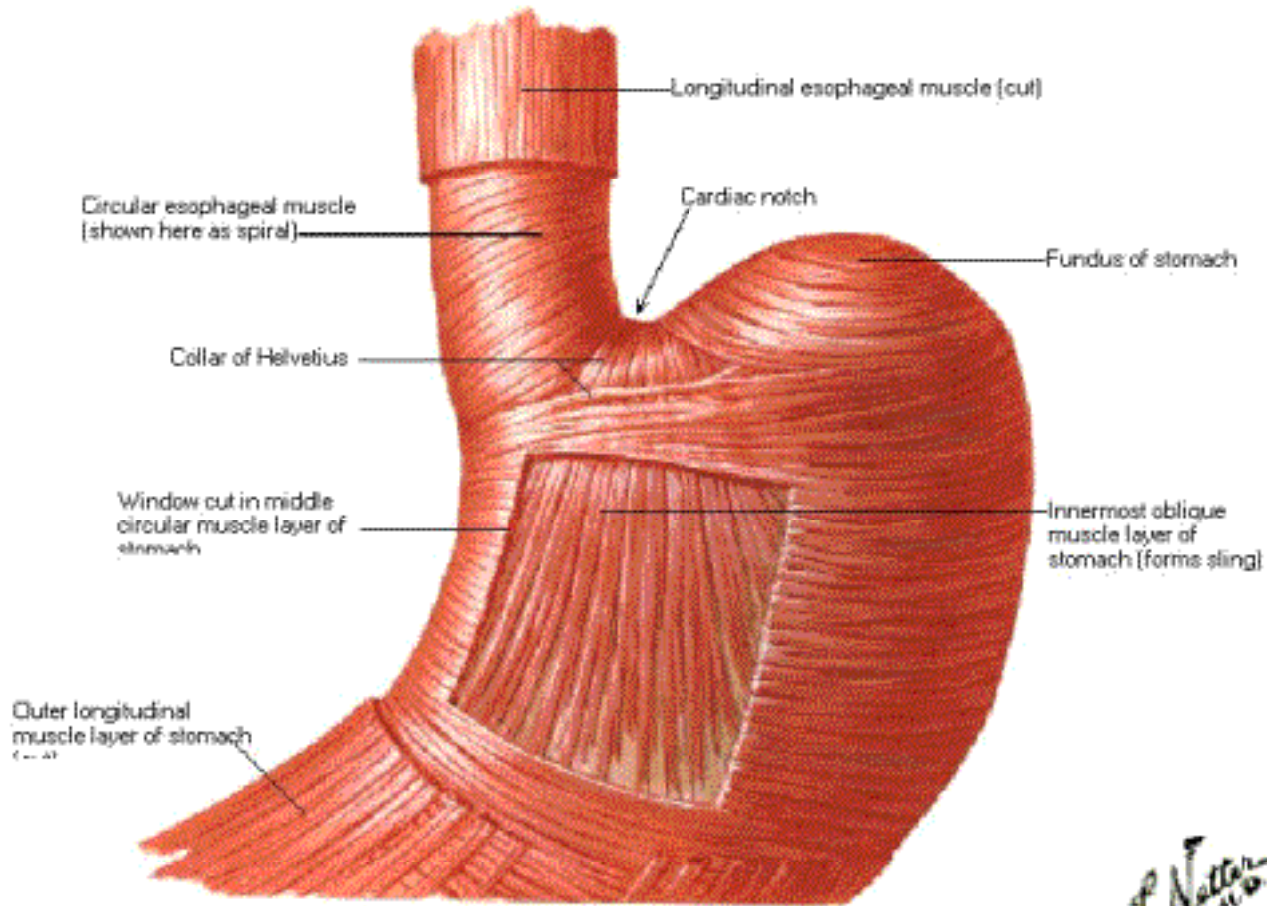
# Esophagogastric Junction

## Coronal Section



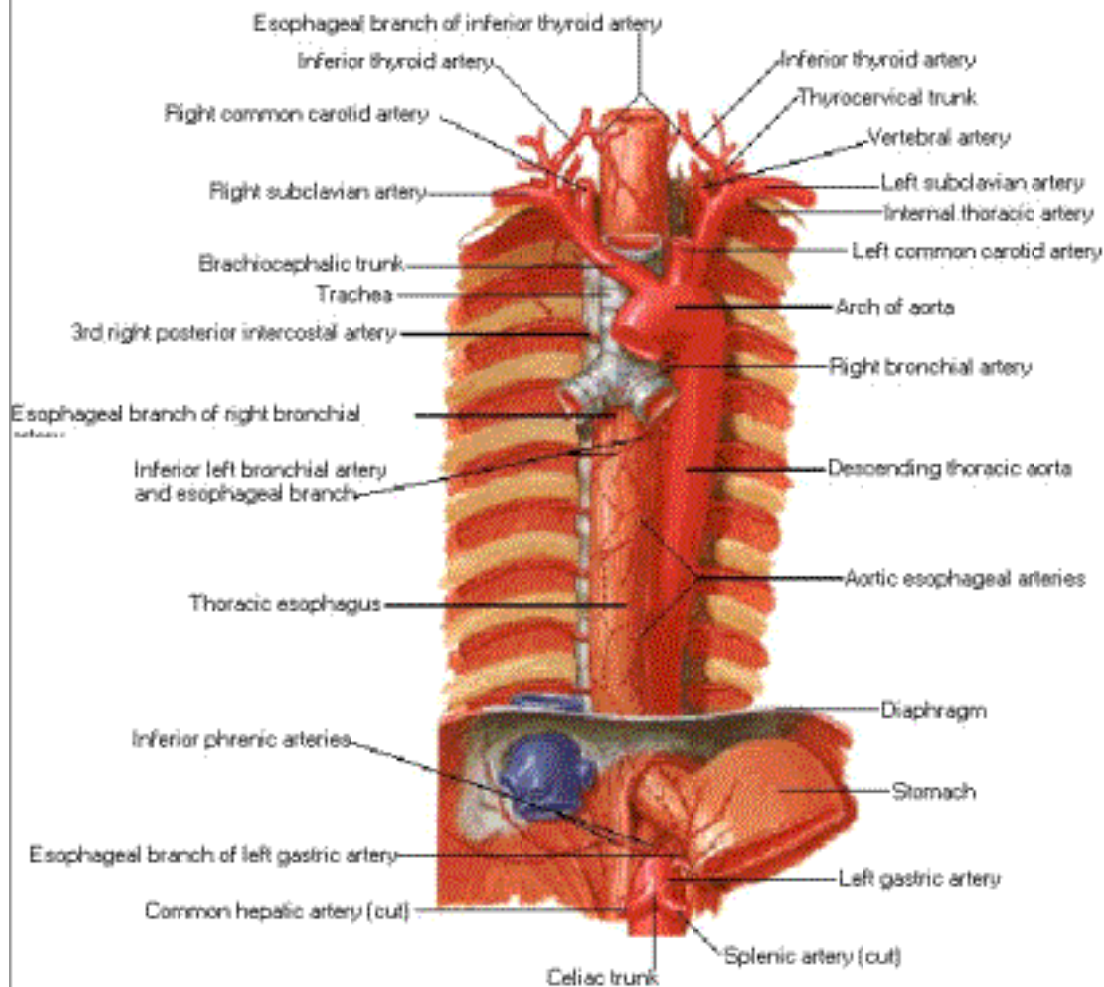
# Esophagogastric Junction

## Anterior View



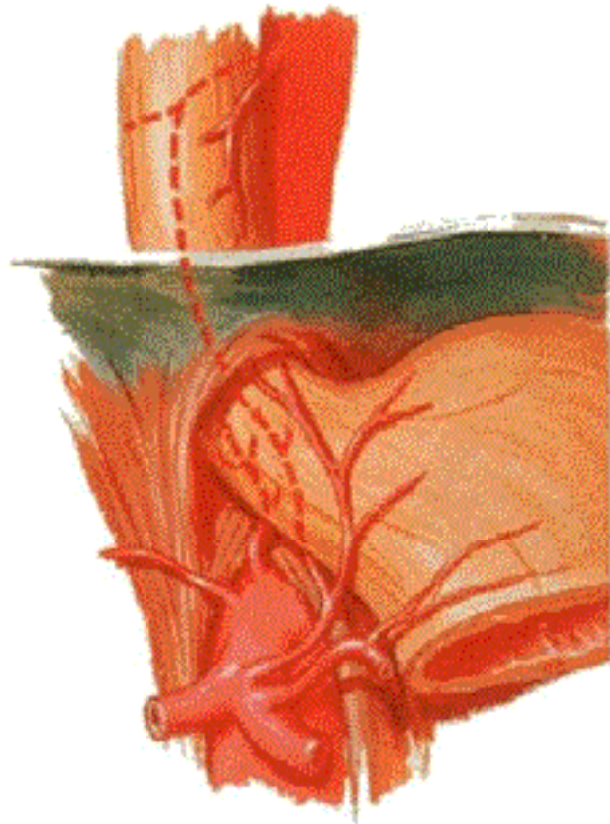


# Arteries of Esophagus



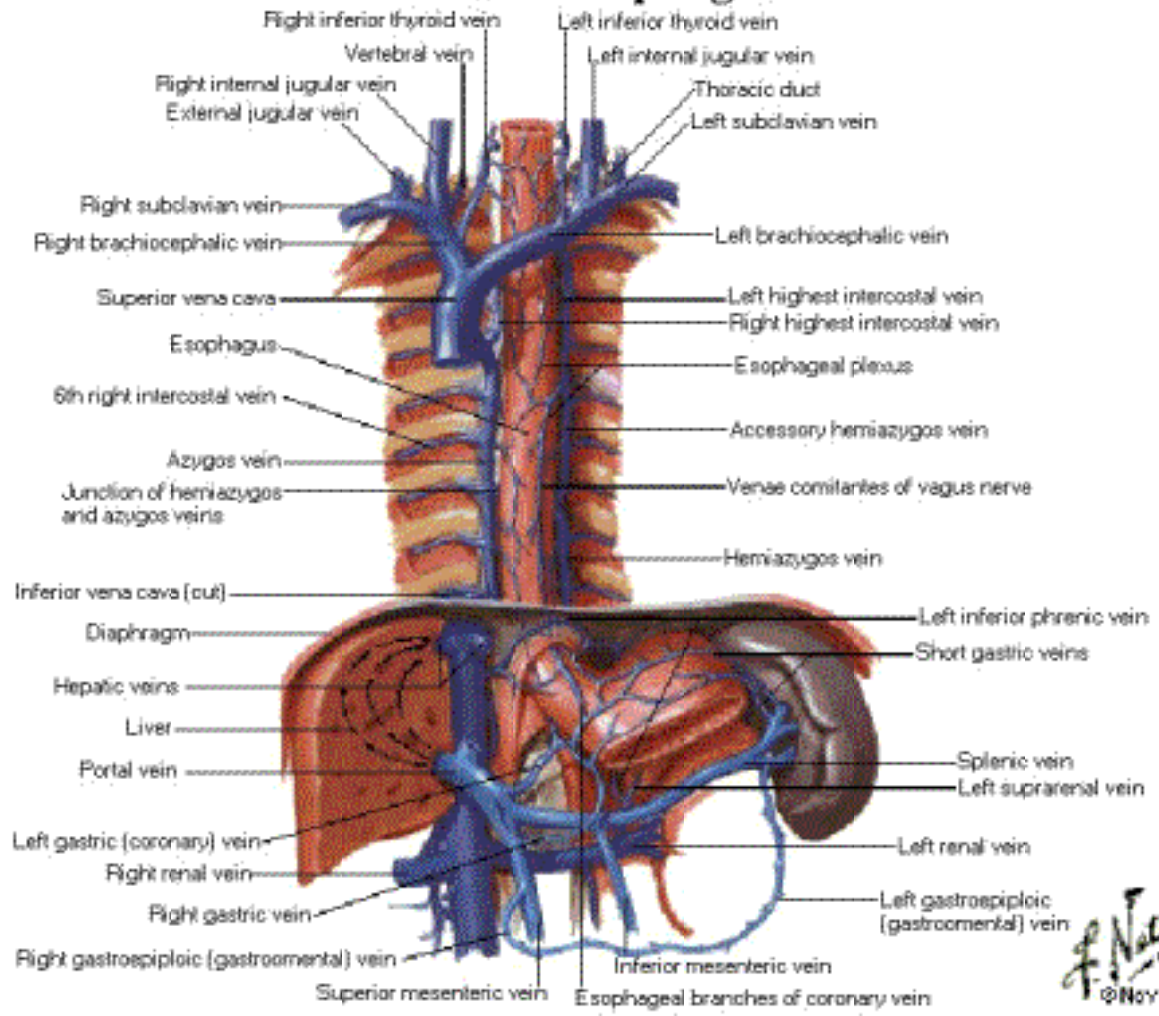
## Arteries of Esophagus

### 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.

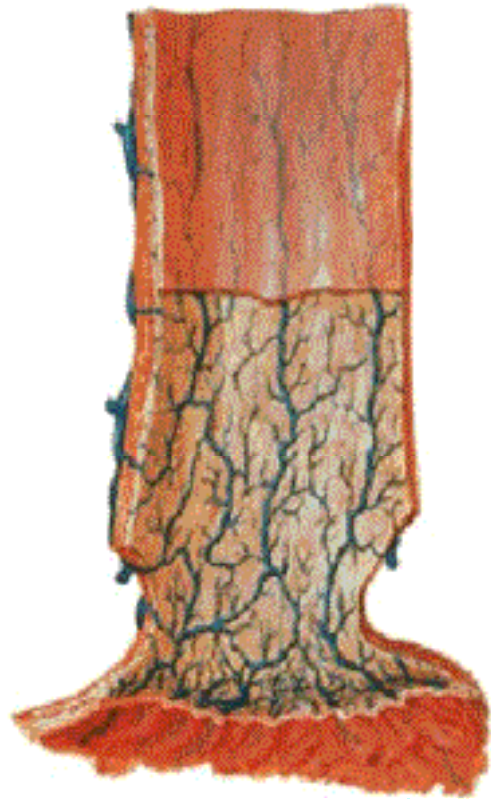
# Veins of Esophagus



*F. Nat*  
© Nov

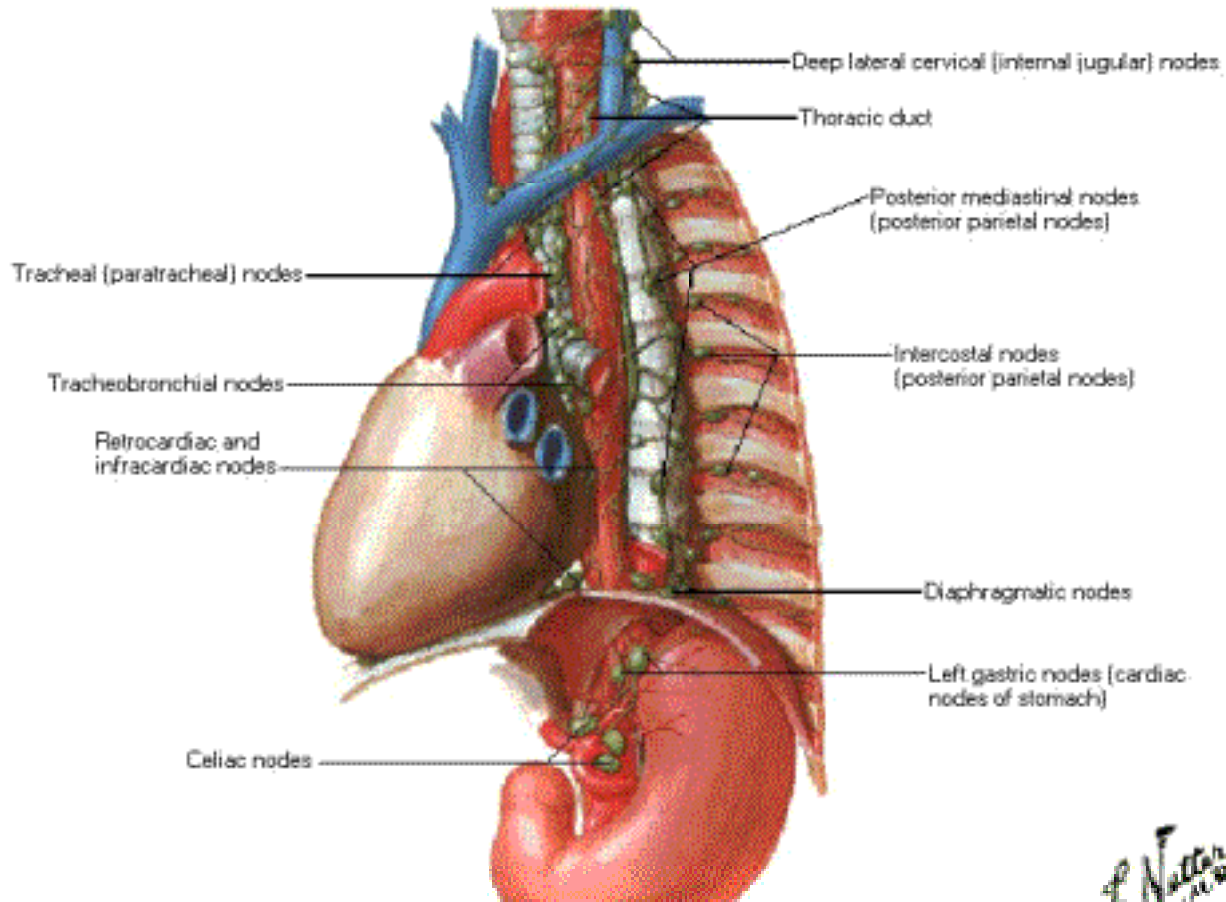
# **Veins of Esophagus**

Submucous Venous Plexus



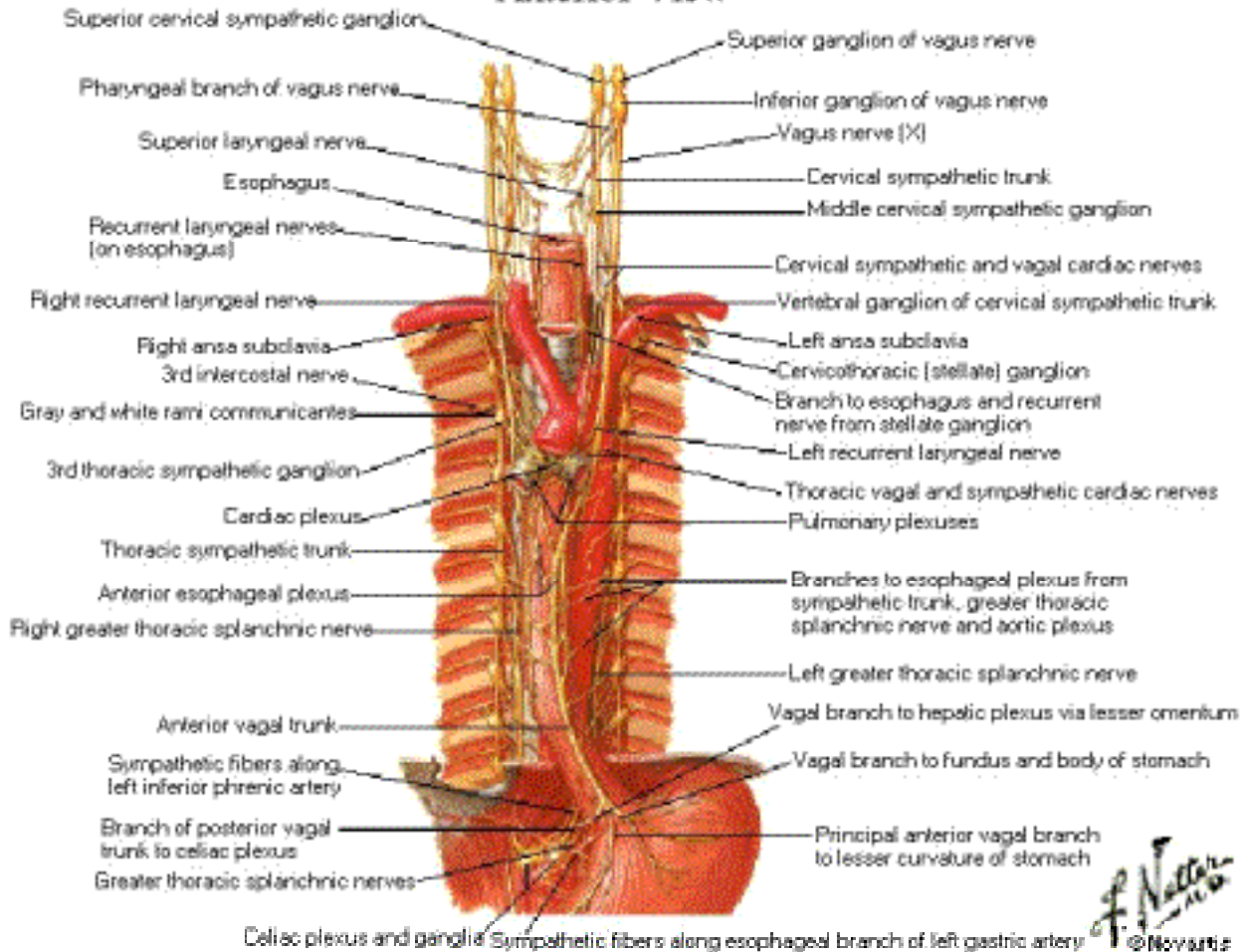


# Lymph Vessels and Nodes of Esophagus



# Nerves of Esophagus

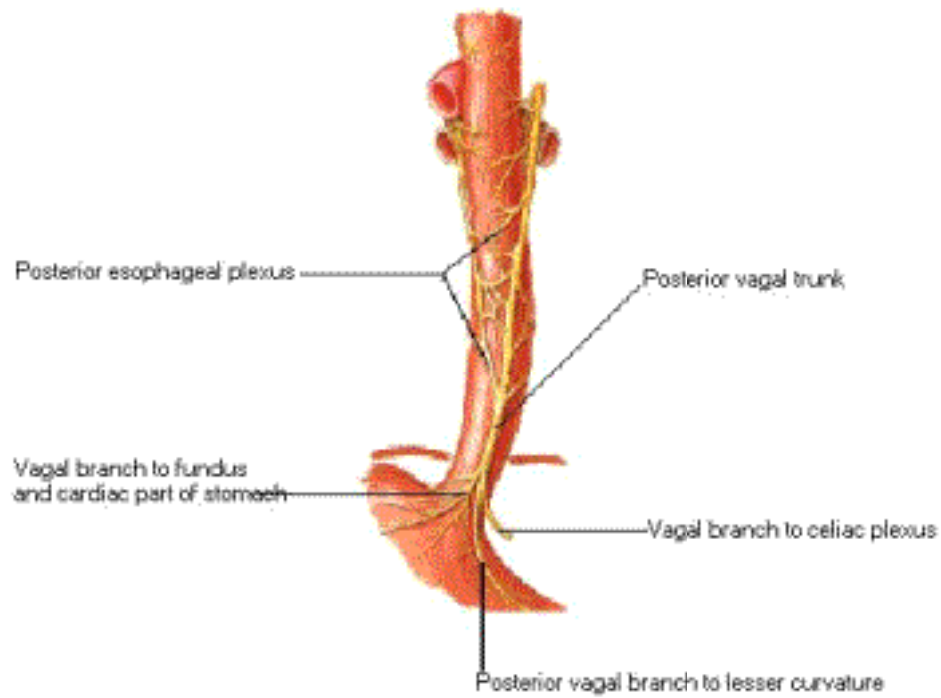
## Anterior View



*F. Netter M.D.*  
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# Nerves of Esophagus

## Posterior View



# Nerves of Esophagus

## Variations

Multiple anterior vagal trunks



Single anterior vagal trunk divides just above diaphragm



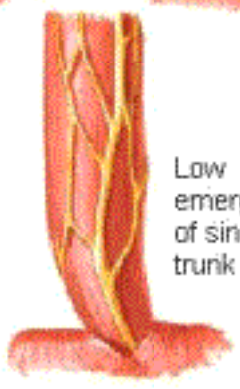
Multiple posterior vagal trunks



High emergence of single trunk



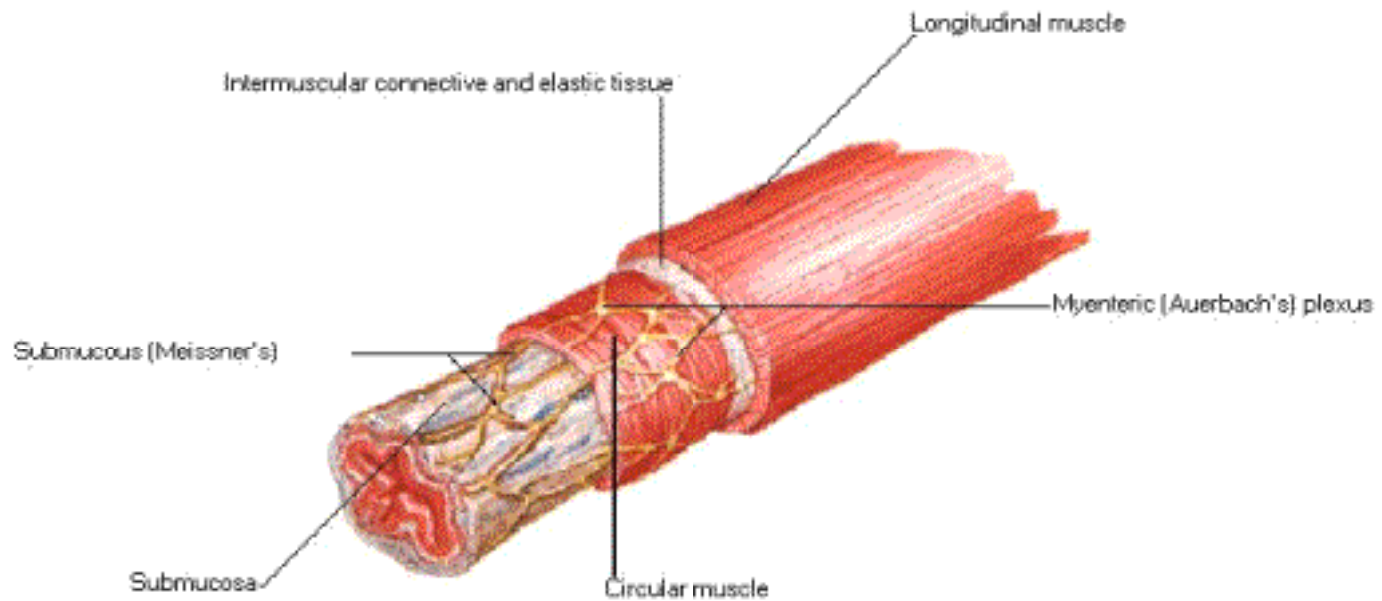
Low emergence of single trunk





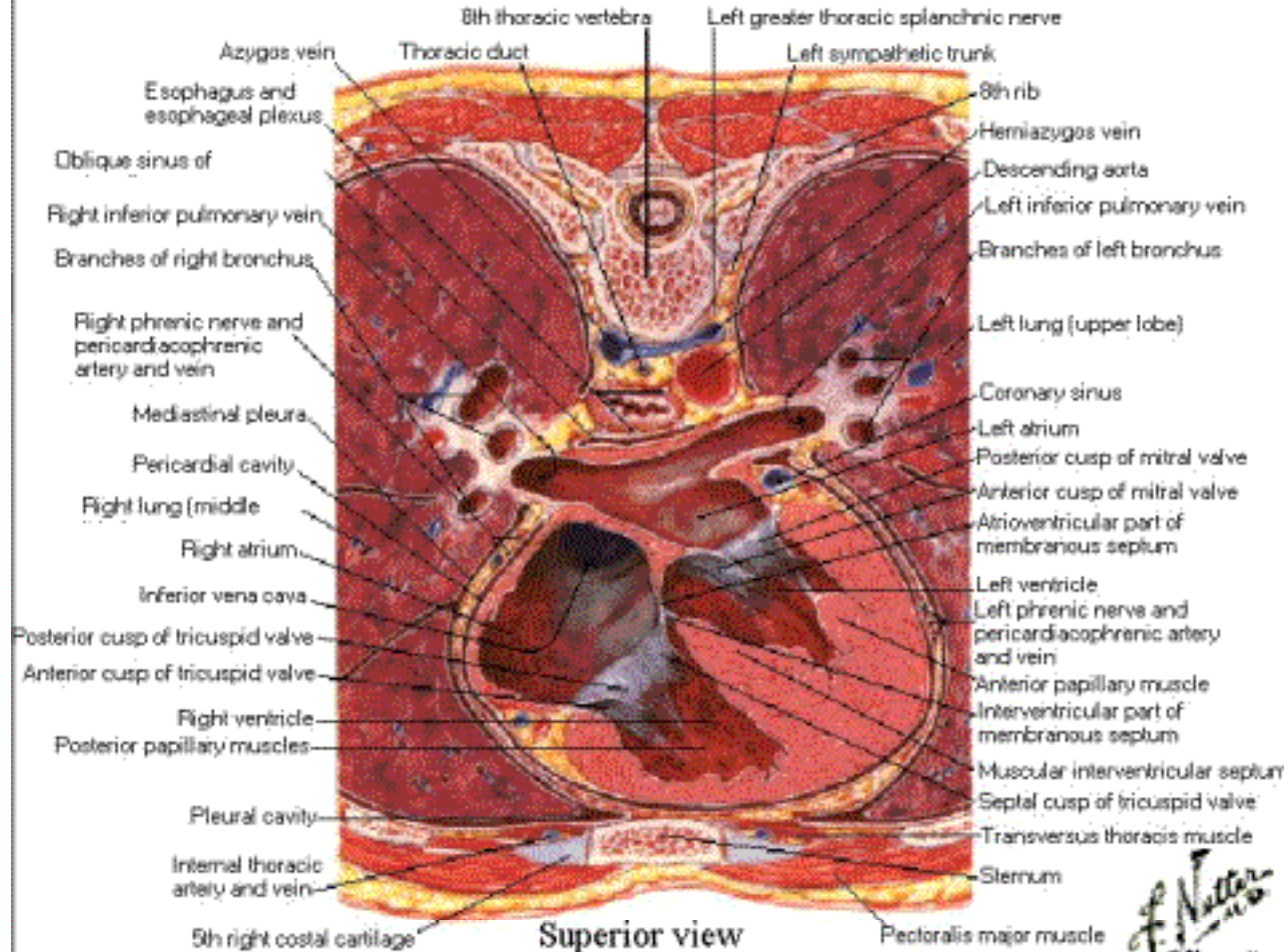
# Intrinsic Nerves of Esophagus

## Schema

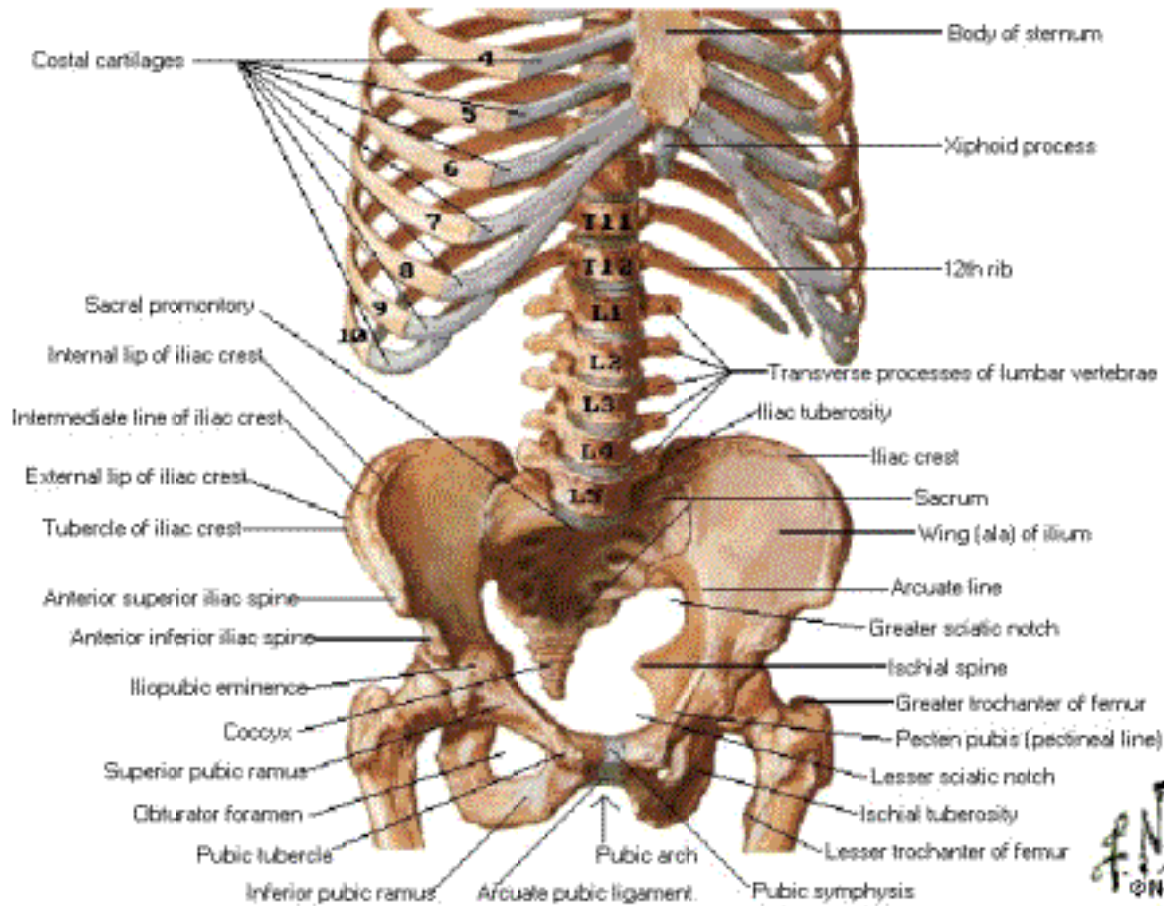


# Mediastinum

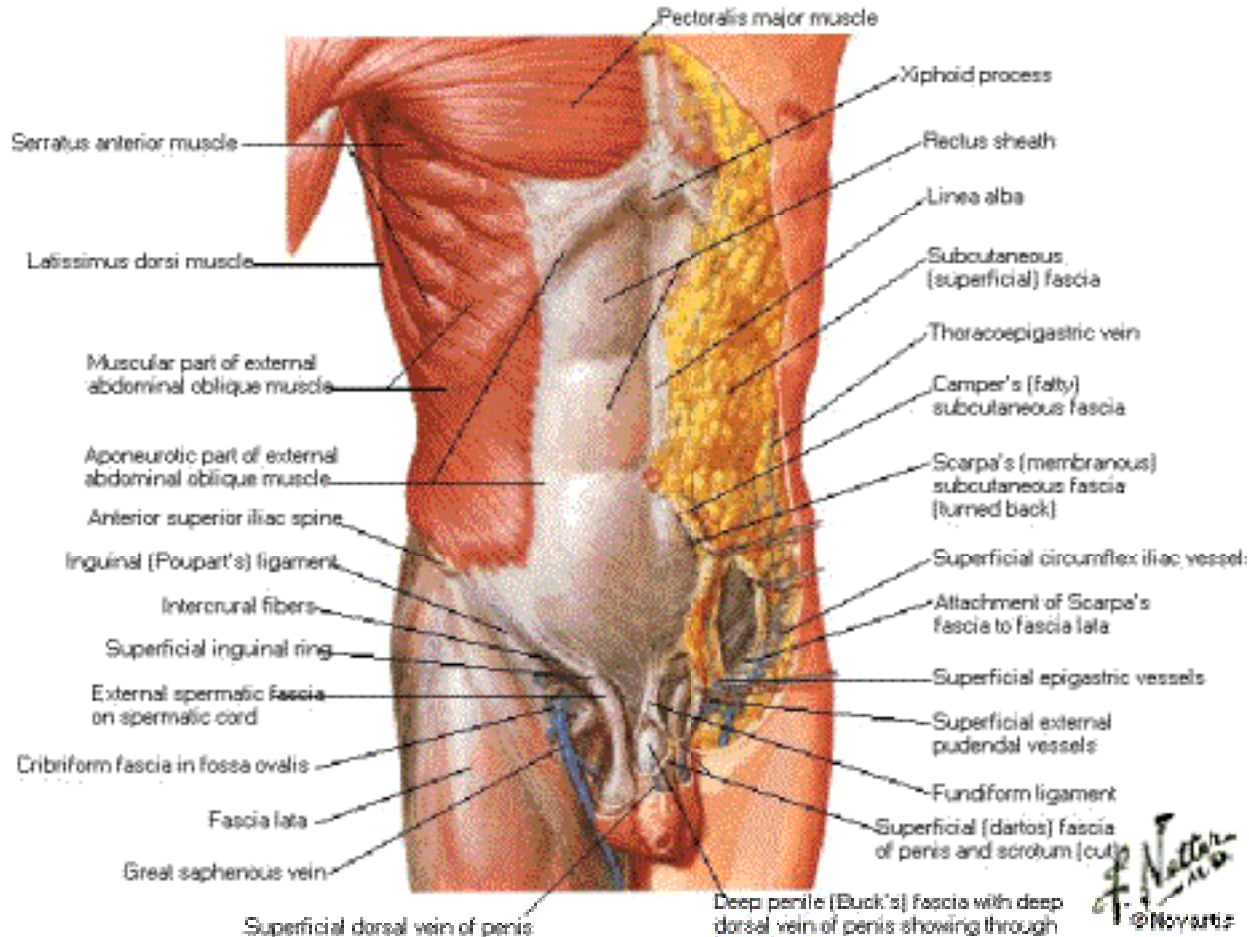
## Cross Section



# Bony Framework of Abdomen



# Anterior Abdominal Wall Superficial Dissection

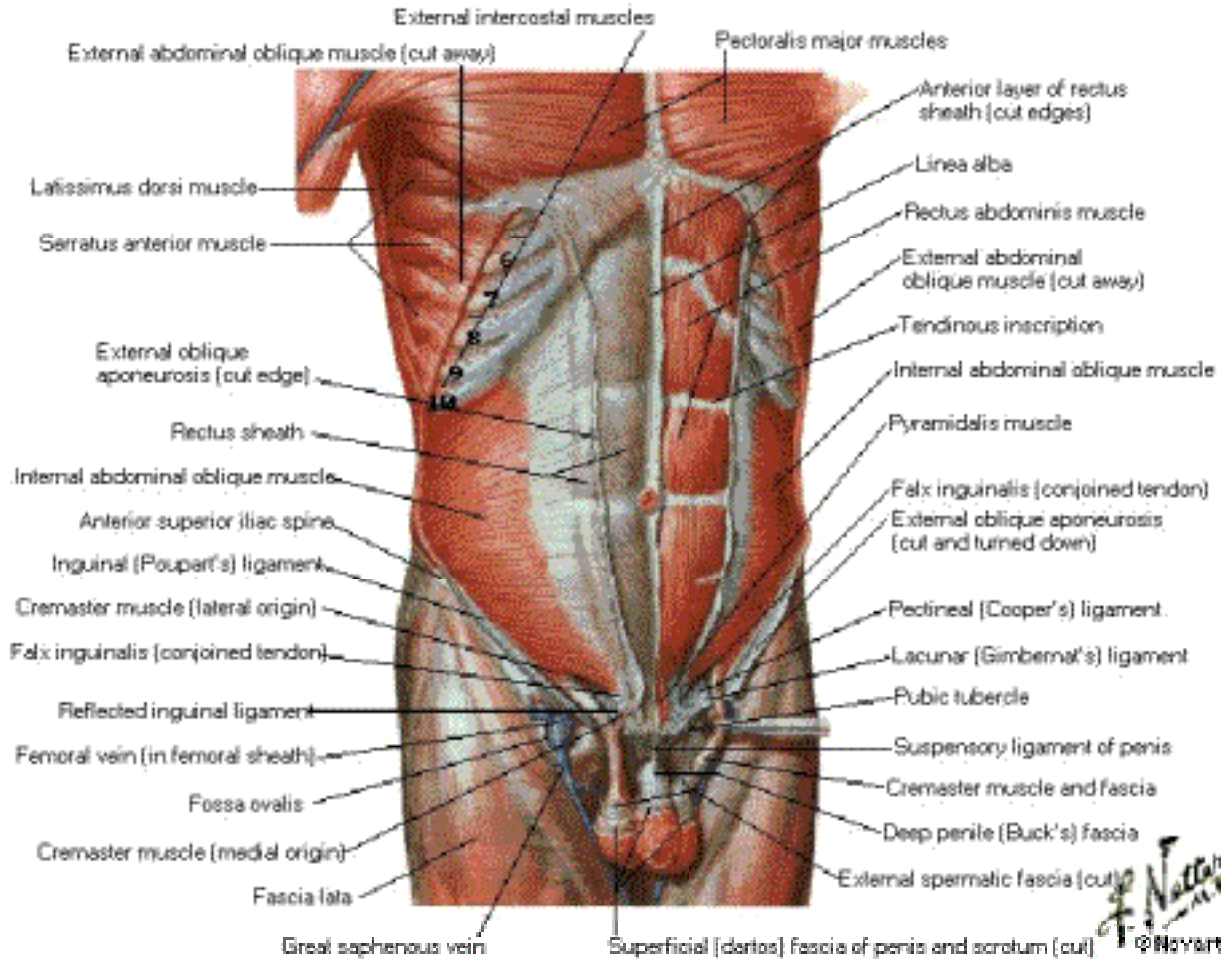


*of Nature*  
 © NoVirtu



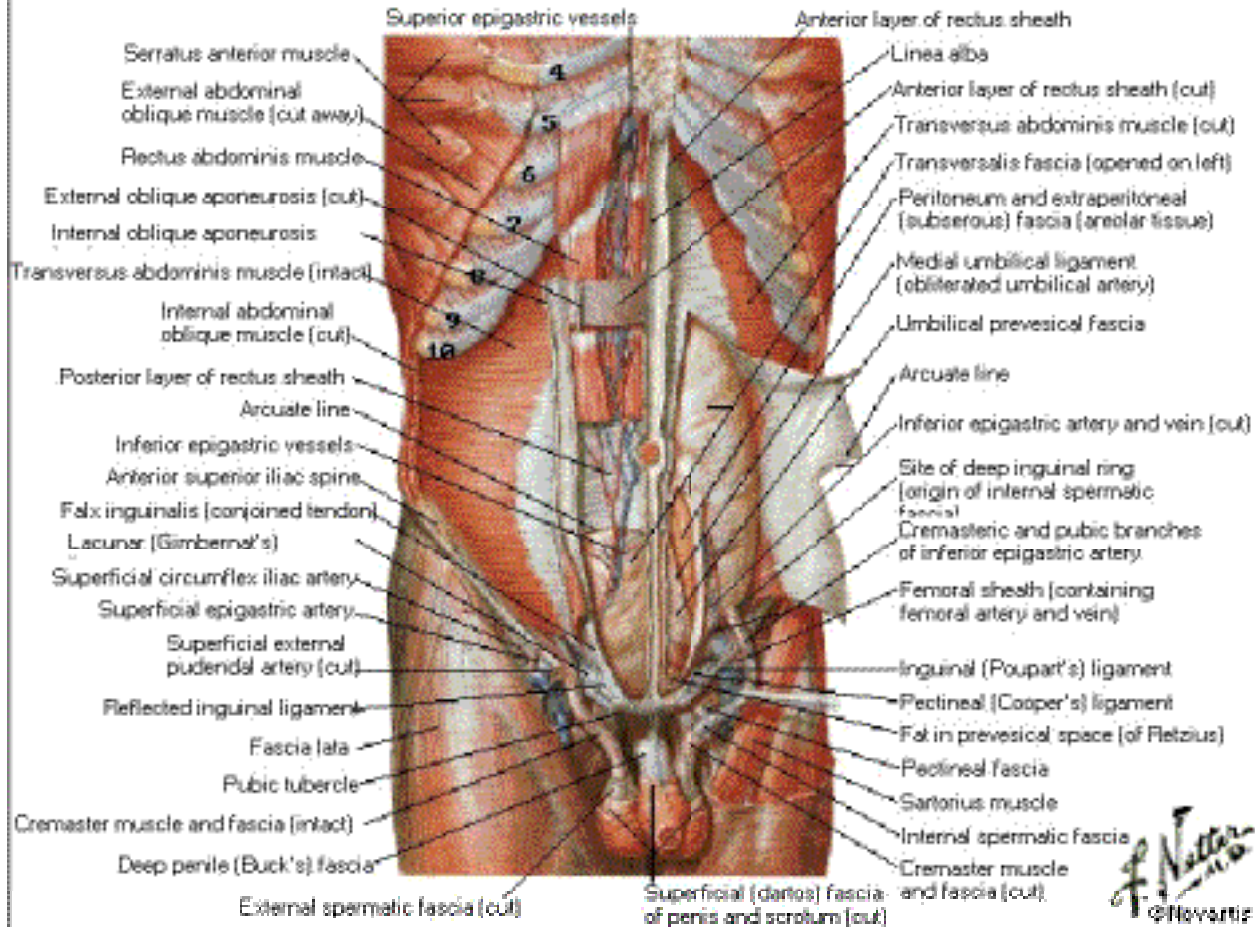
# Anterior Abdominal Wall

## Intermediate Dissection



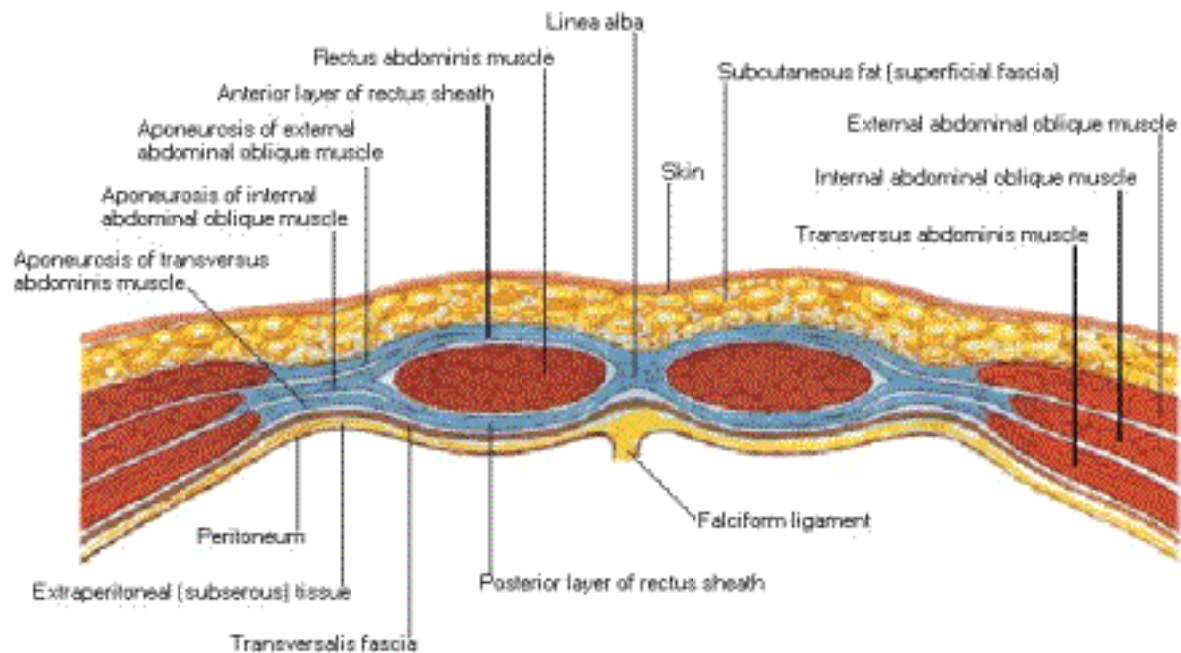
# Anterior Abdominal Wall

## Deep Dissection



# Rectus Sheath

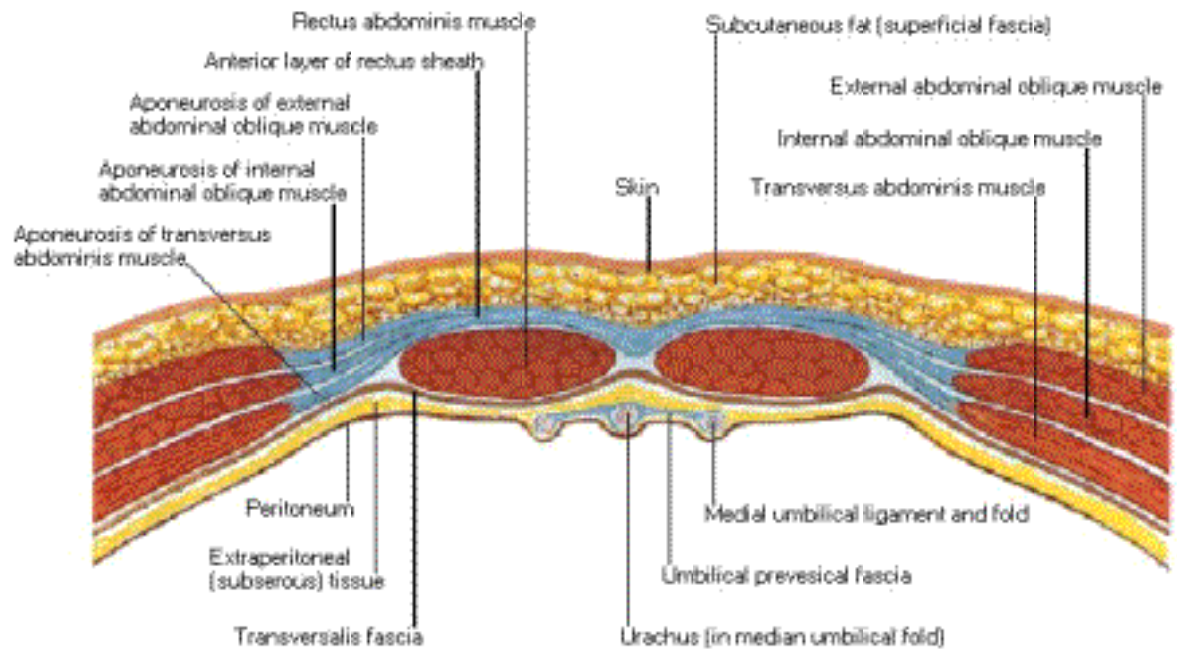
## Cross Section Above Arcuate Line



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

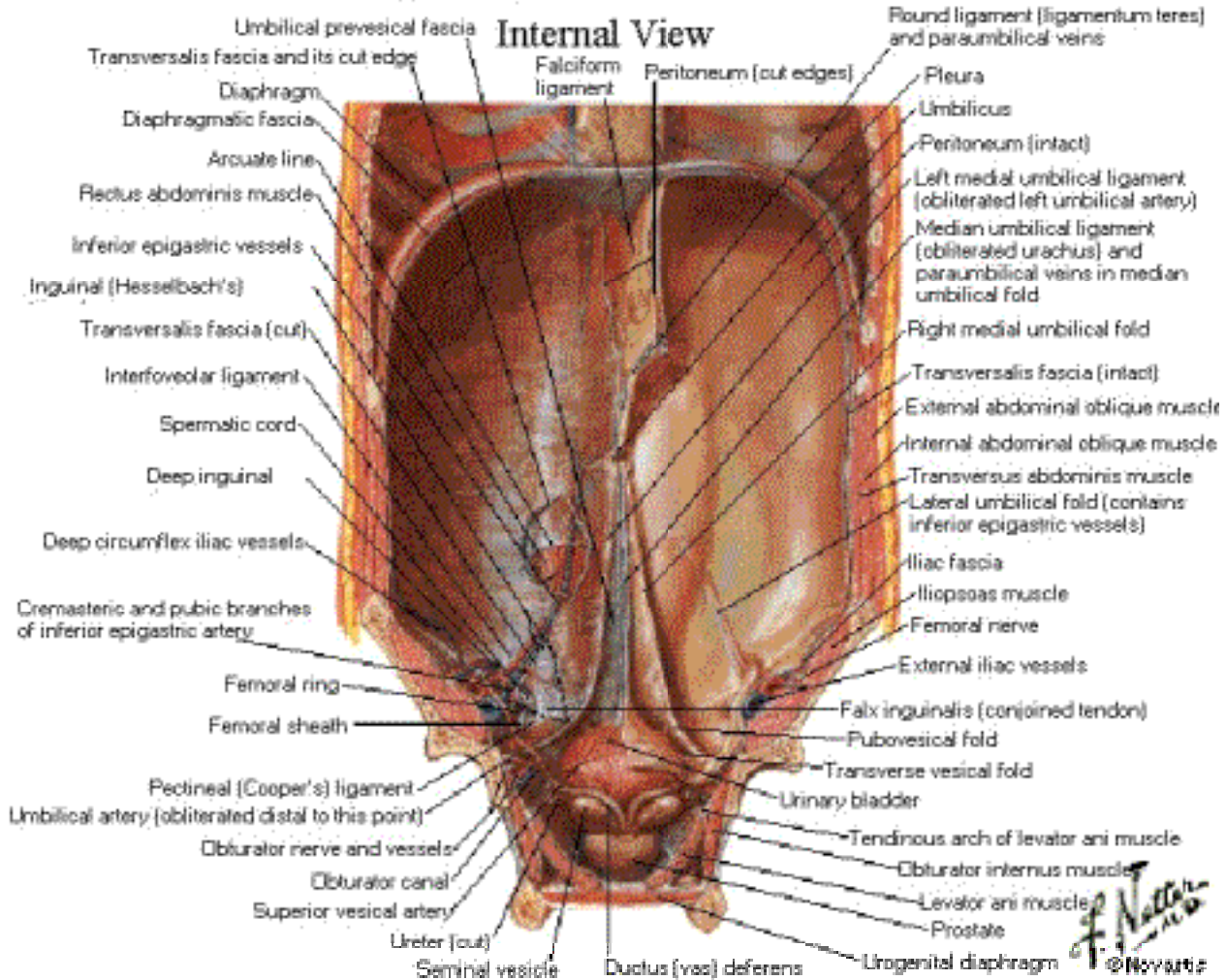


Aponeurosis of internal abdominal oblique muscle does not split at this level but passes completely anterior to rectus abdominis muscle and is fused there with both aponeurosis of external abdominal oblique muscle and that of transversus abdominis muscle. Thus posterior wall of rectus sheath is absent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

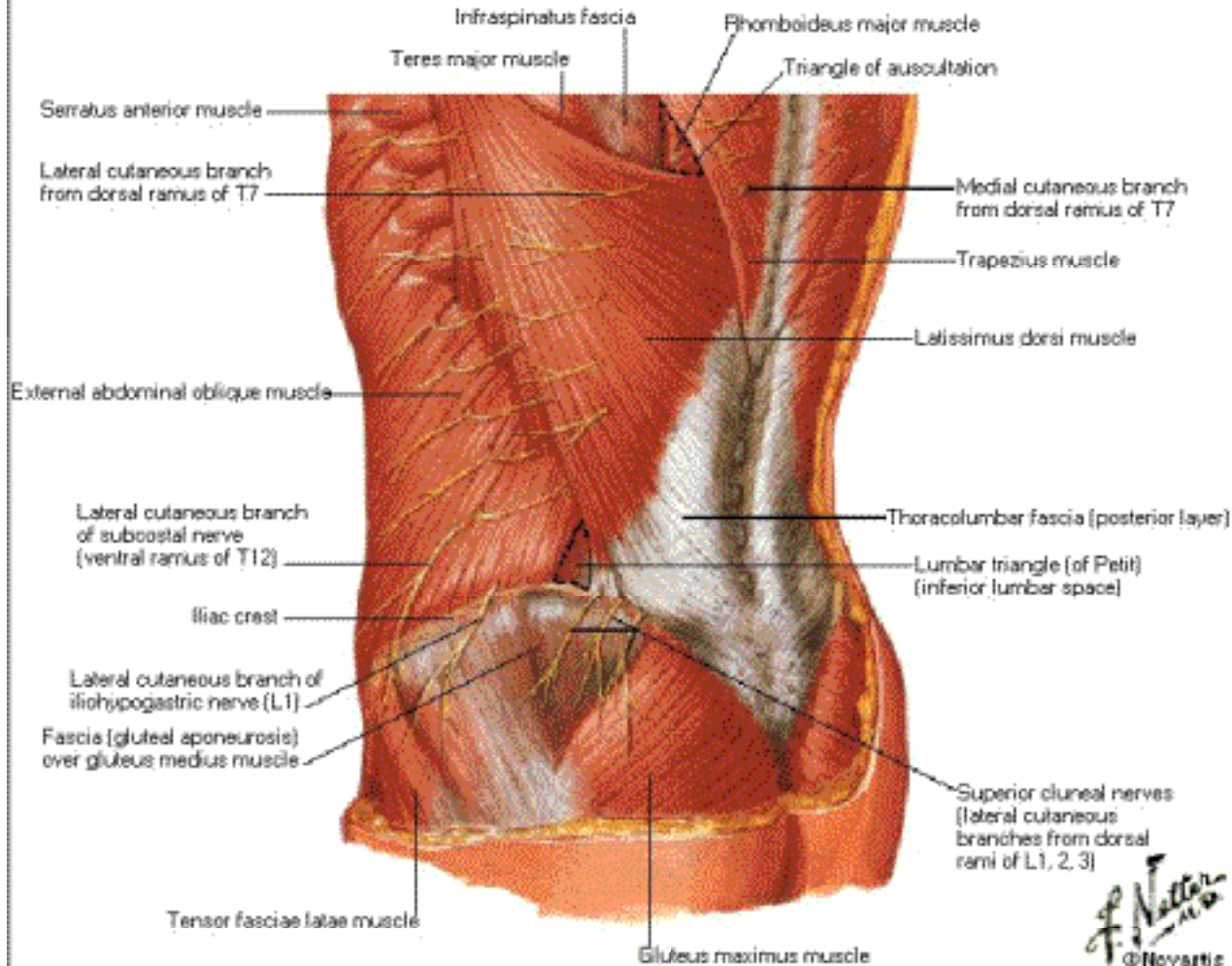




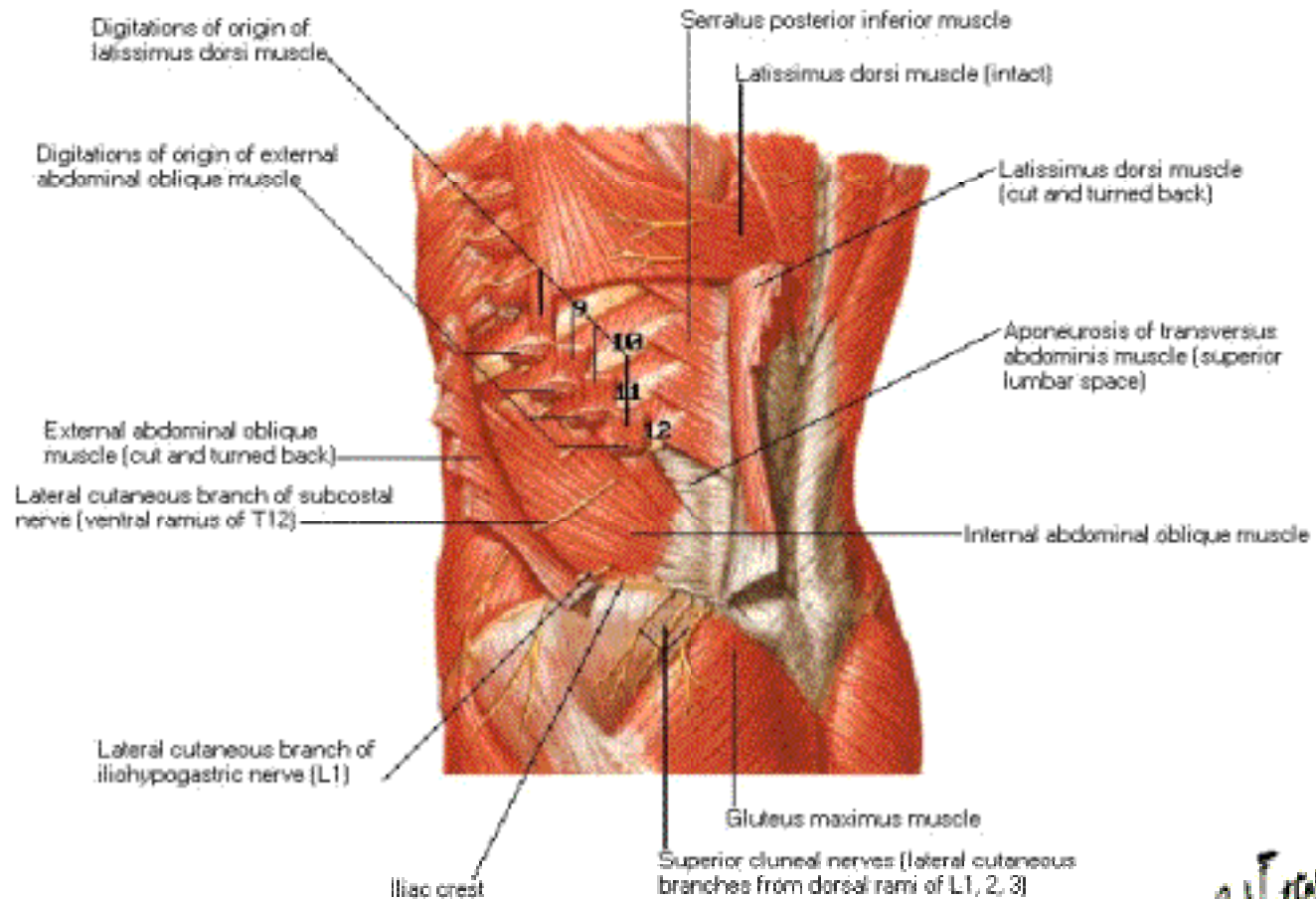
# Anterior Abdominal Wall



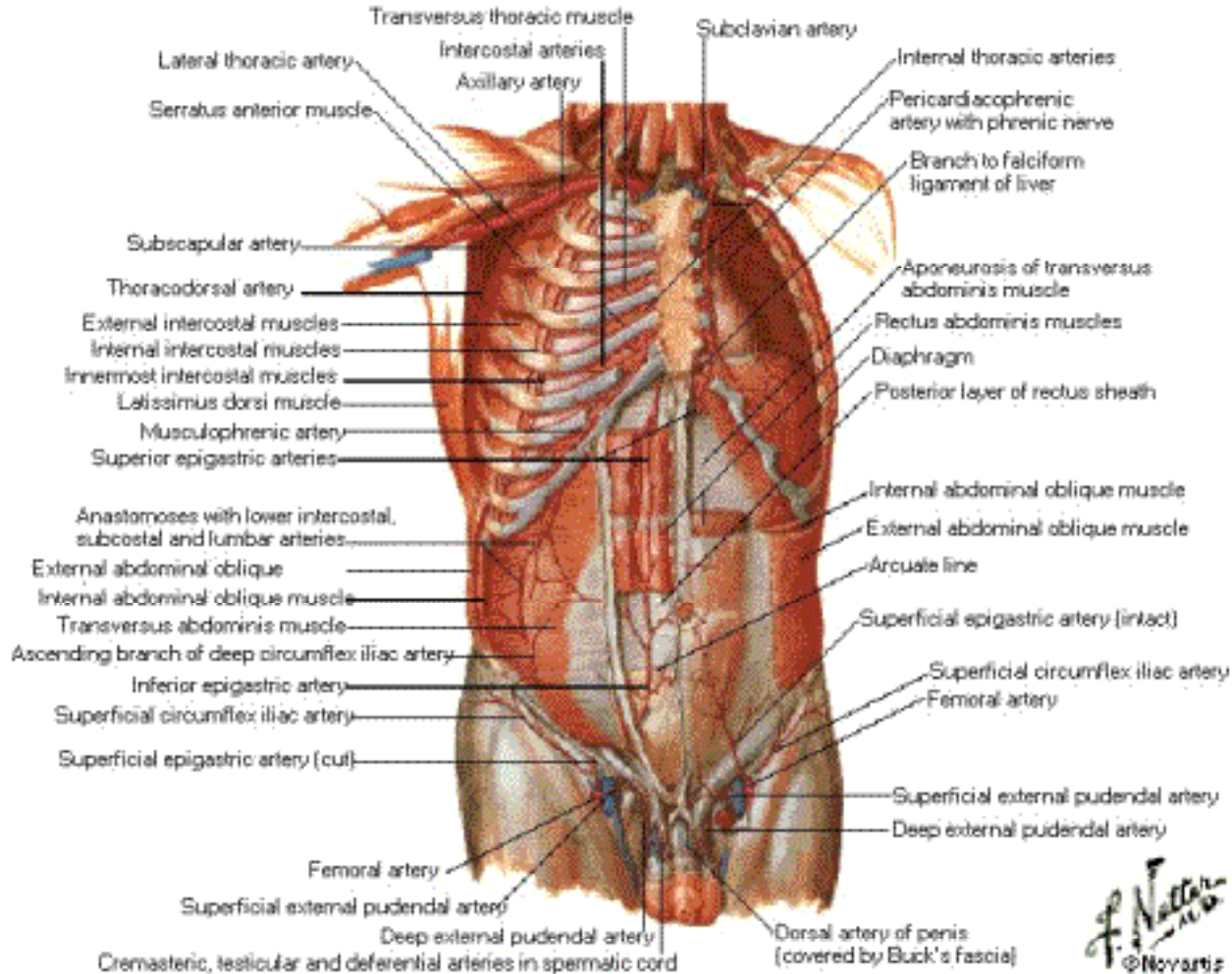
# Posterolateral Abdominal Wall



# Posterolateral Abdominal Wall [Continued]



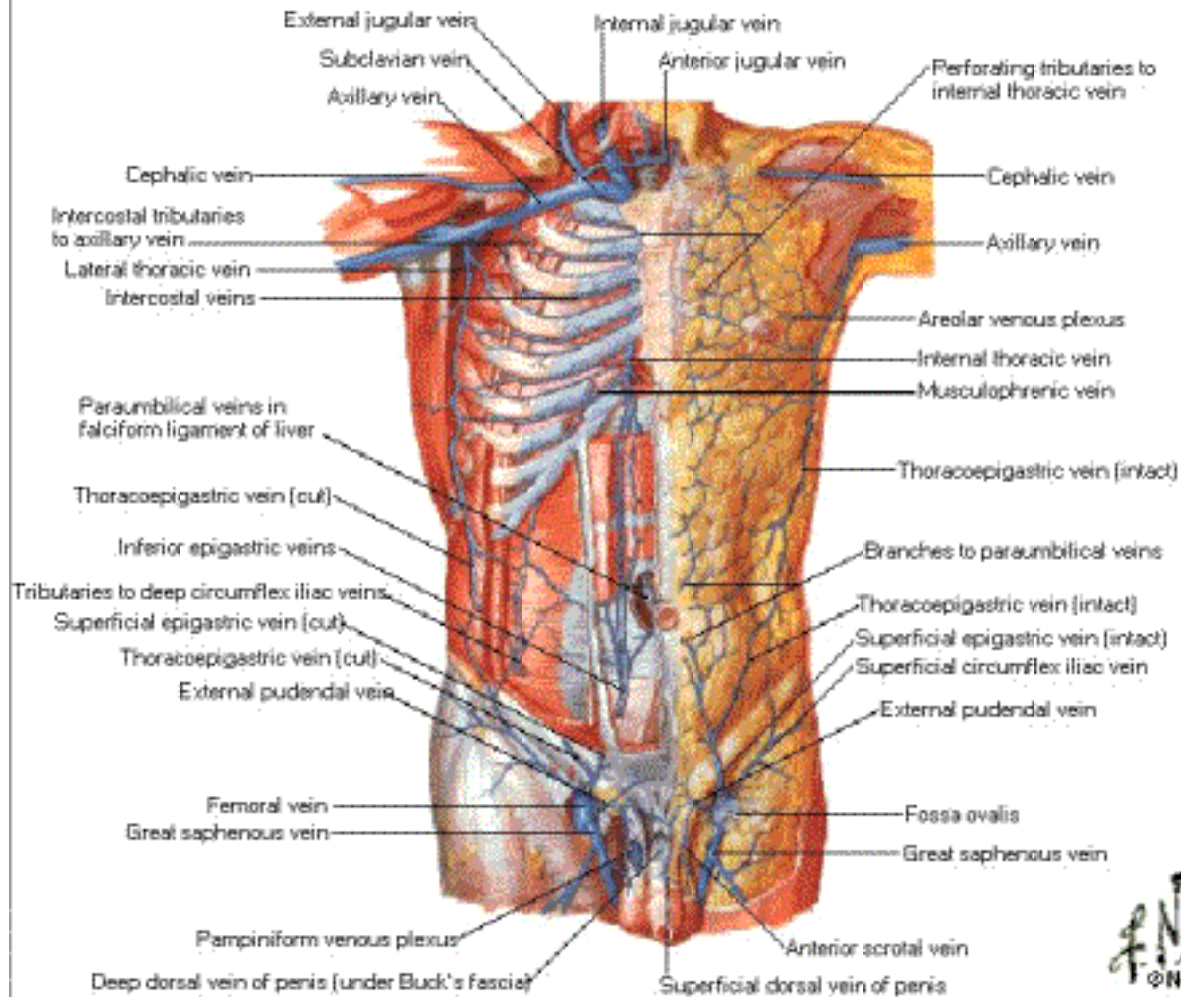
# Arteries of Anterior Abdominal Wall



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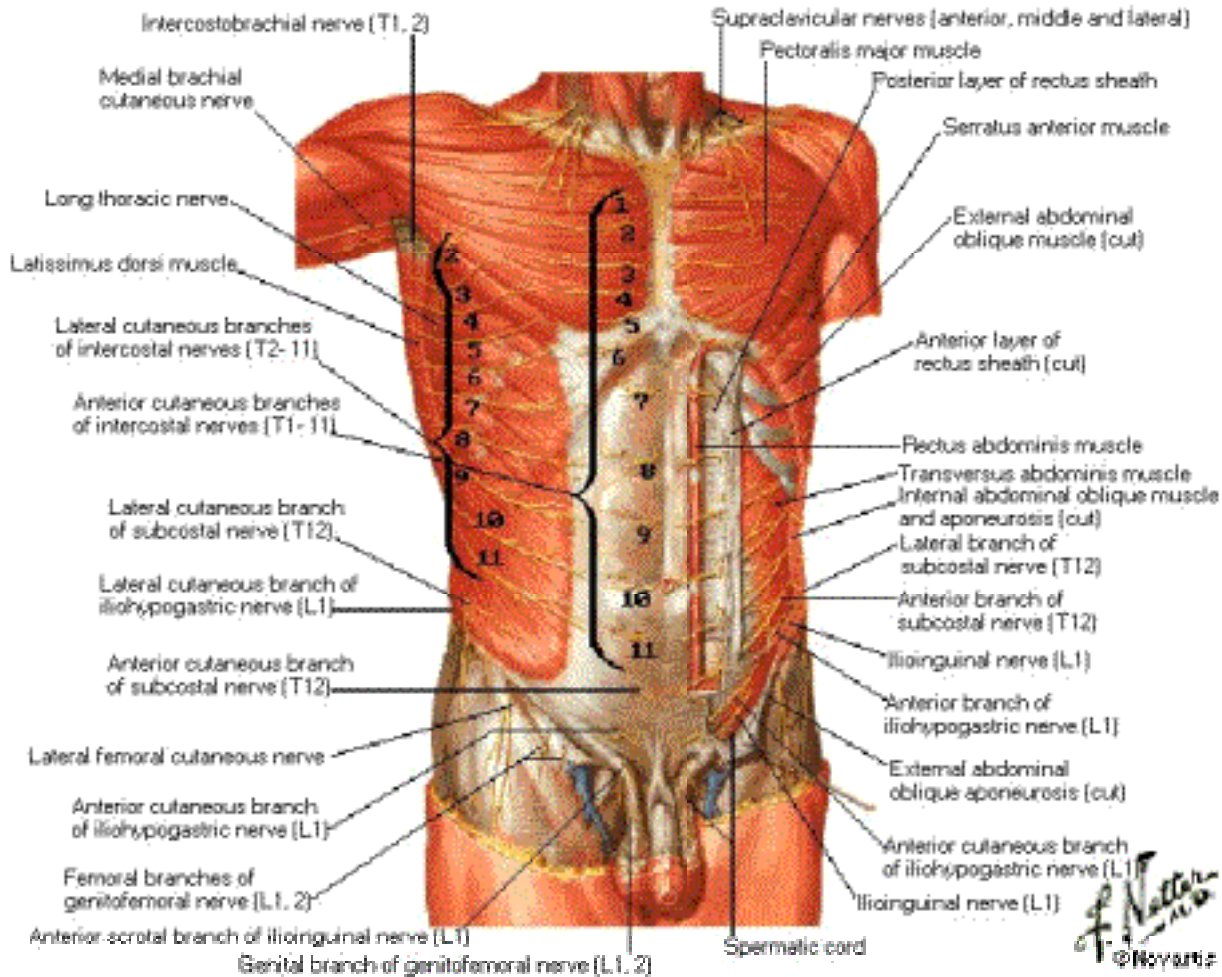


# Veins of Anterior Abdominal Wall

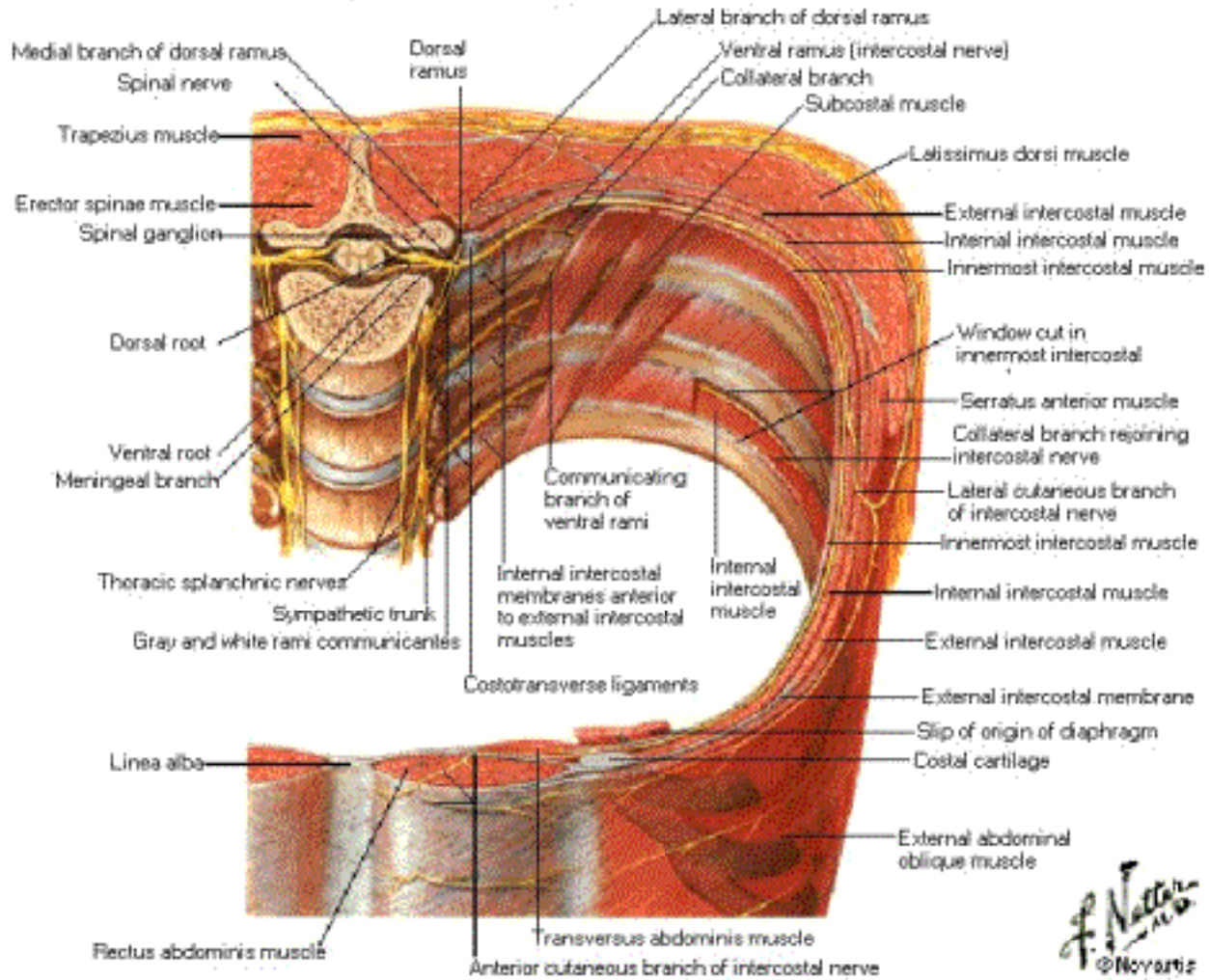


*f. No.*  
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# Nerves of Anterior Abdominal Wall



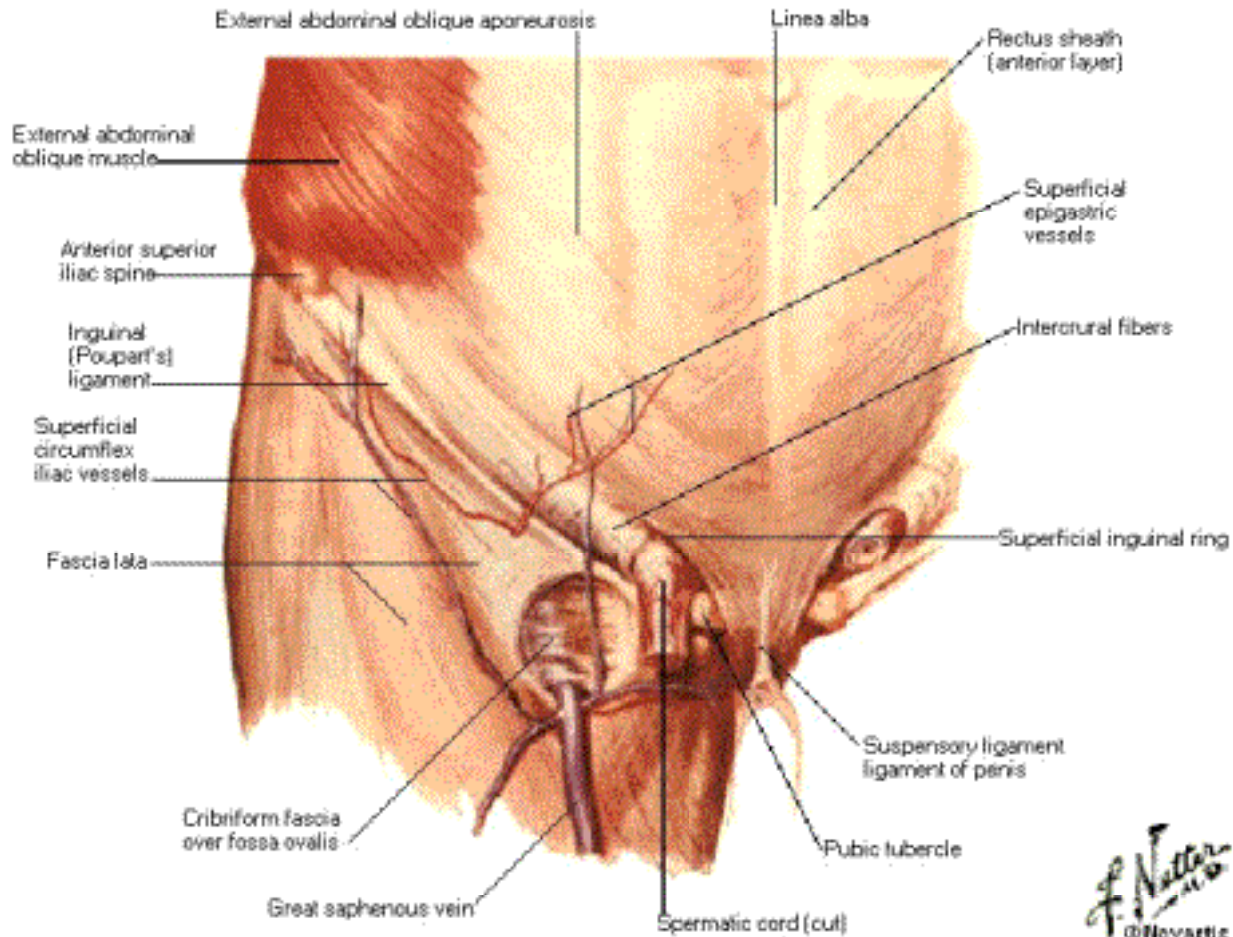
# Thoracoabdominal Nerves



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# Inguinal and Femoral Regions

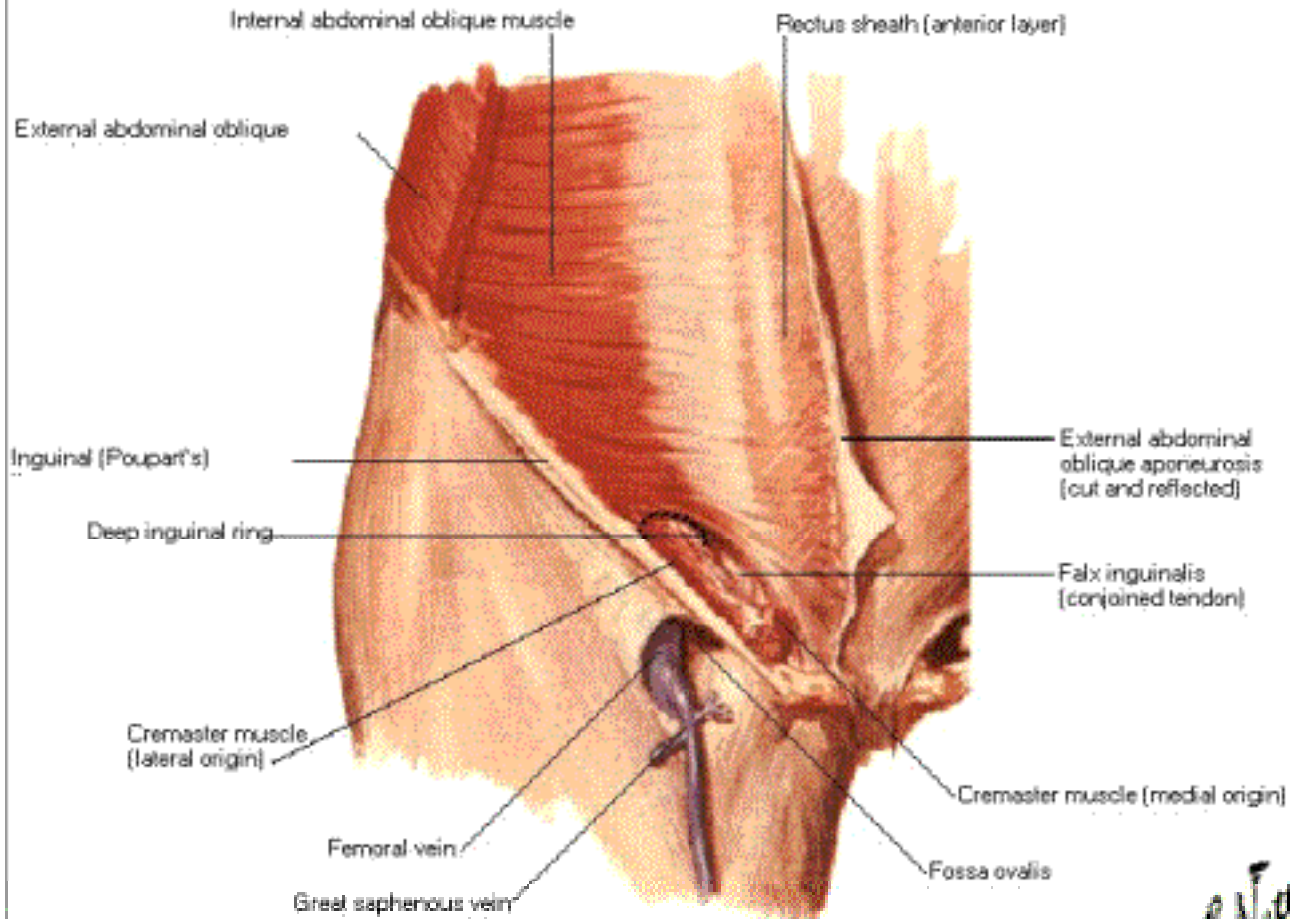
## Subcutaneous Fascia Removed





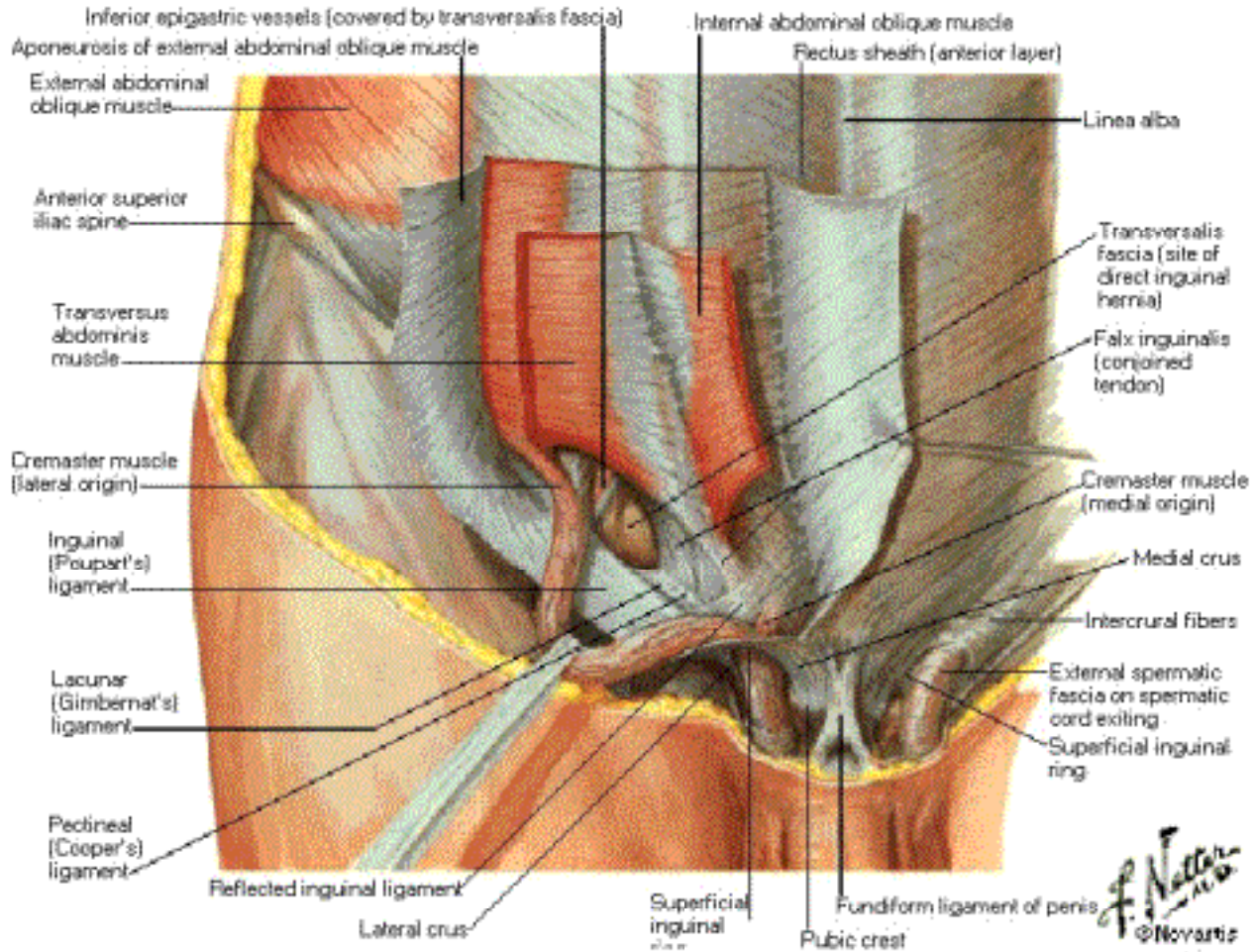
# Inguinal and Femoral Regions

## Cribriform Fascia Removed



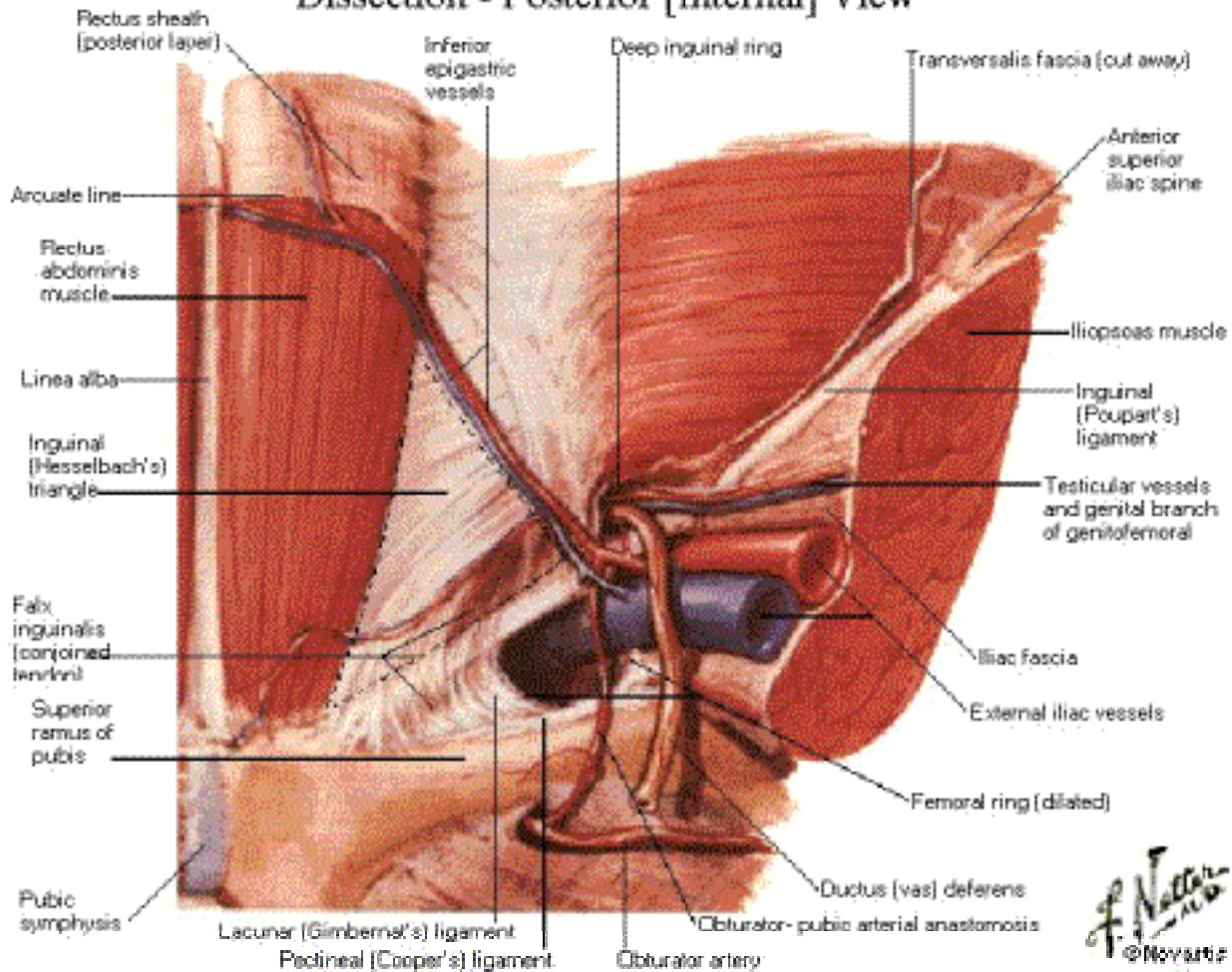
# Inguinal Region

## Dissection - Anterior View



# Inguinal Region

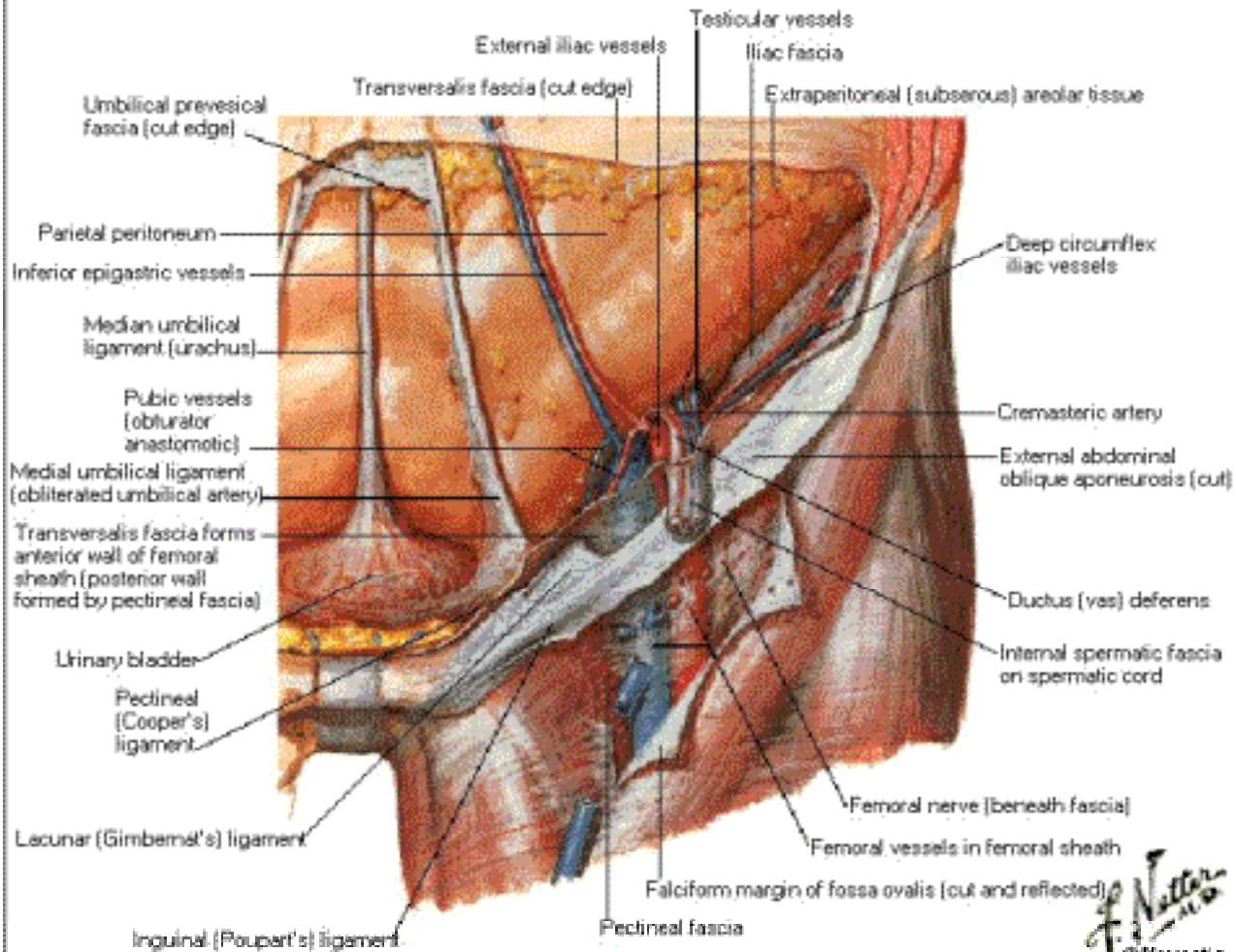
## Dissection - Posterior [Internal] View



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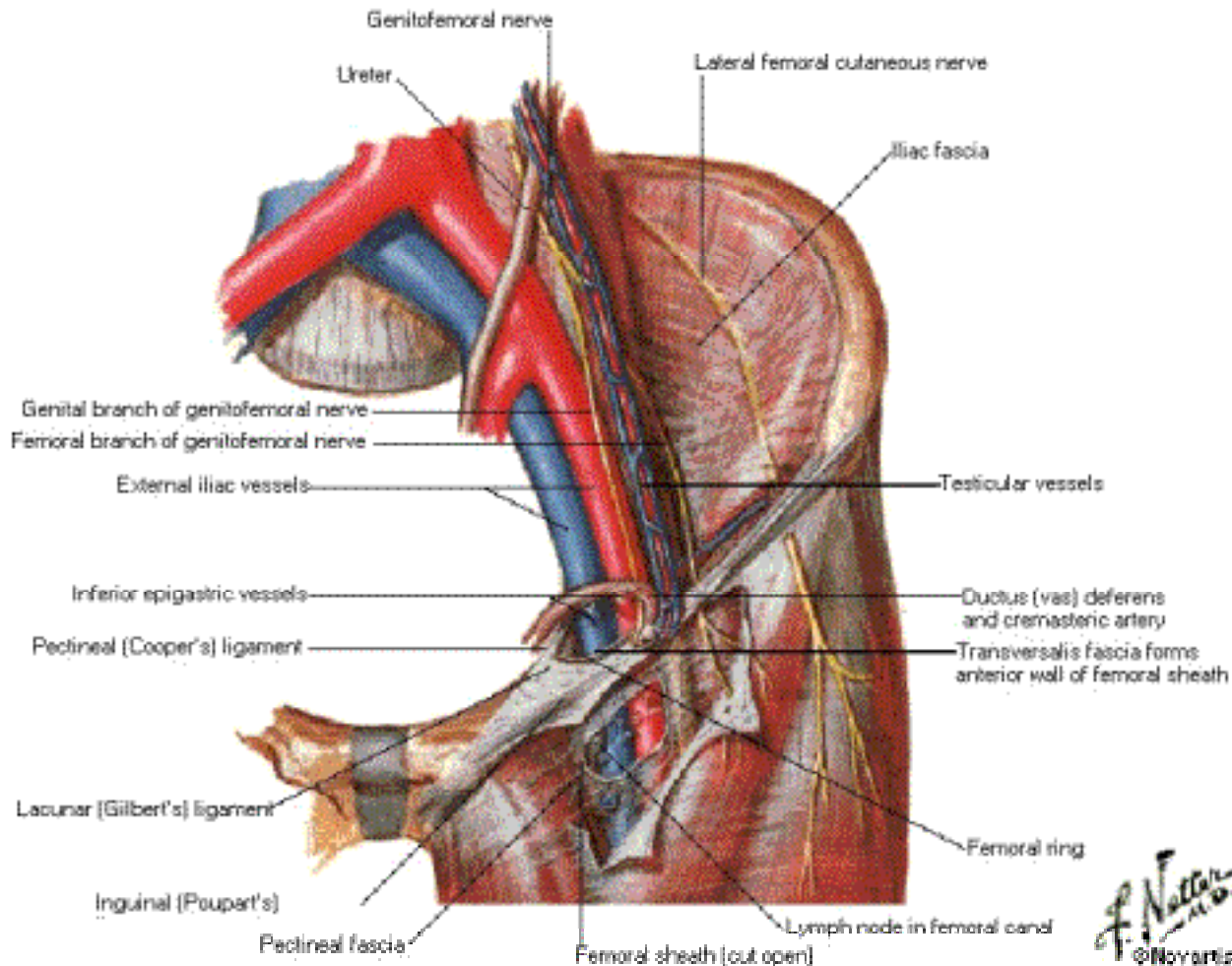


# Femoral Sheath and Inguinal Canal

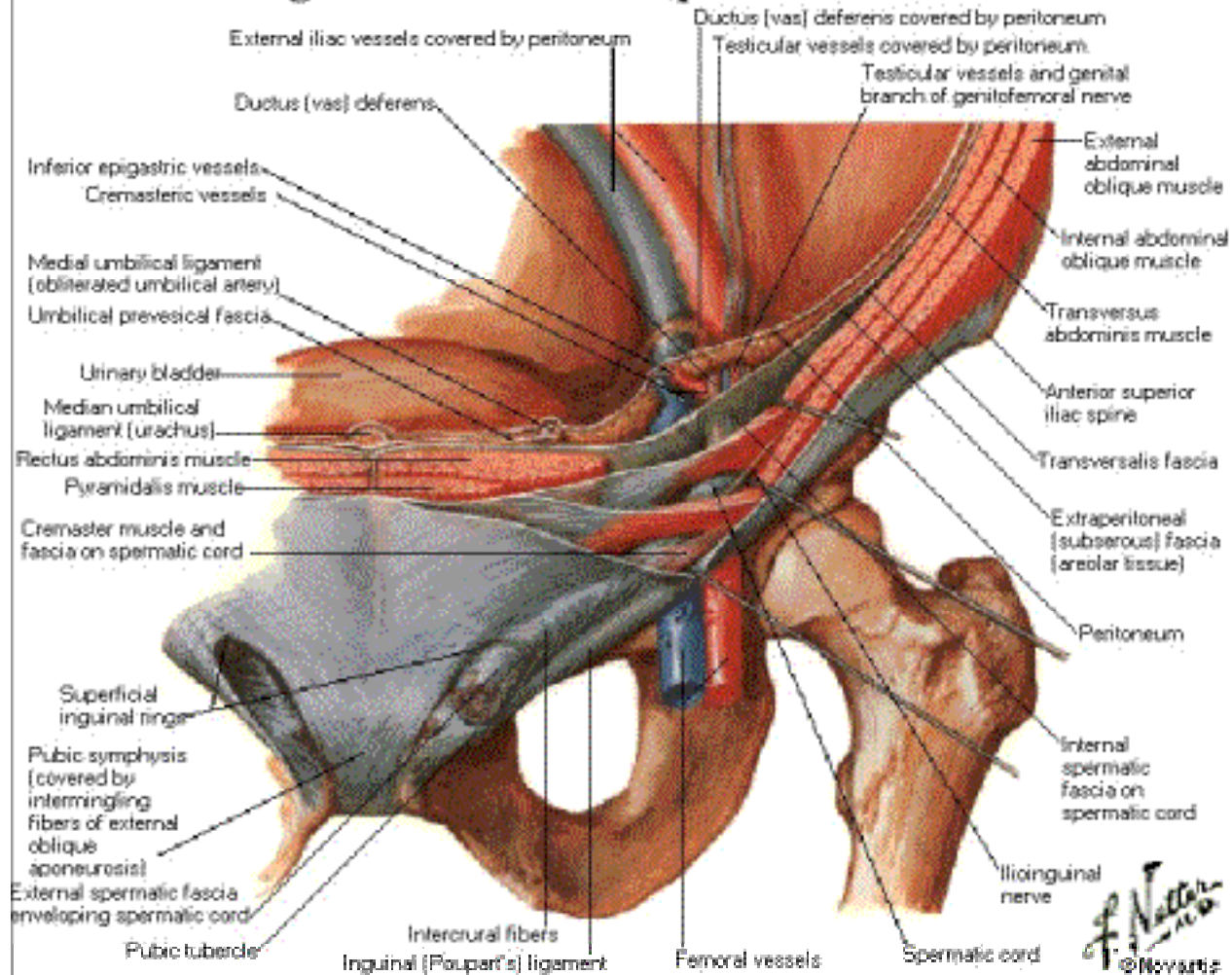




# Femoral Sheath and Inguinal Canal [Deep]

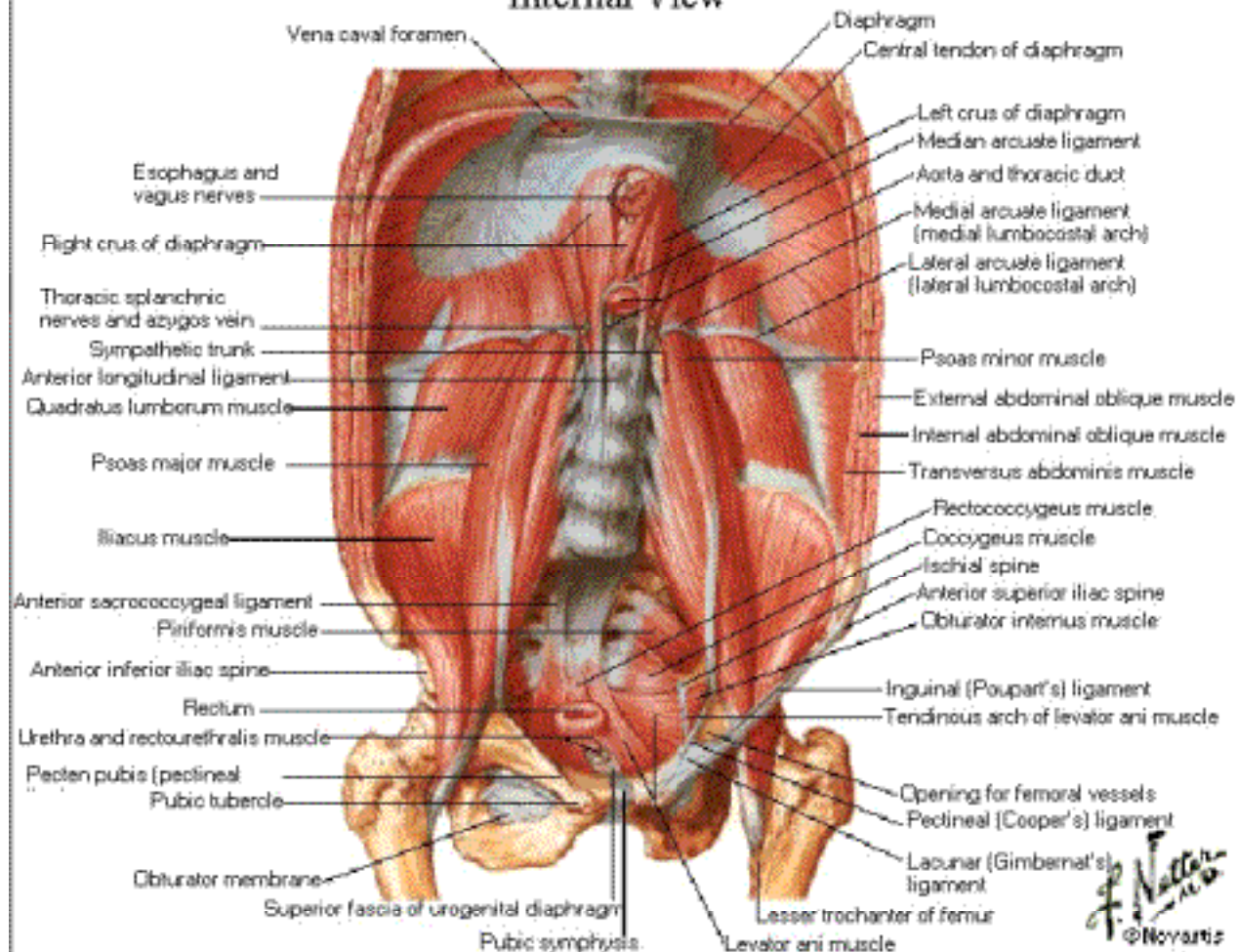


# Inguinal Canal and Spermatic Cord



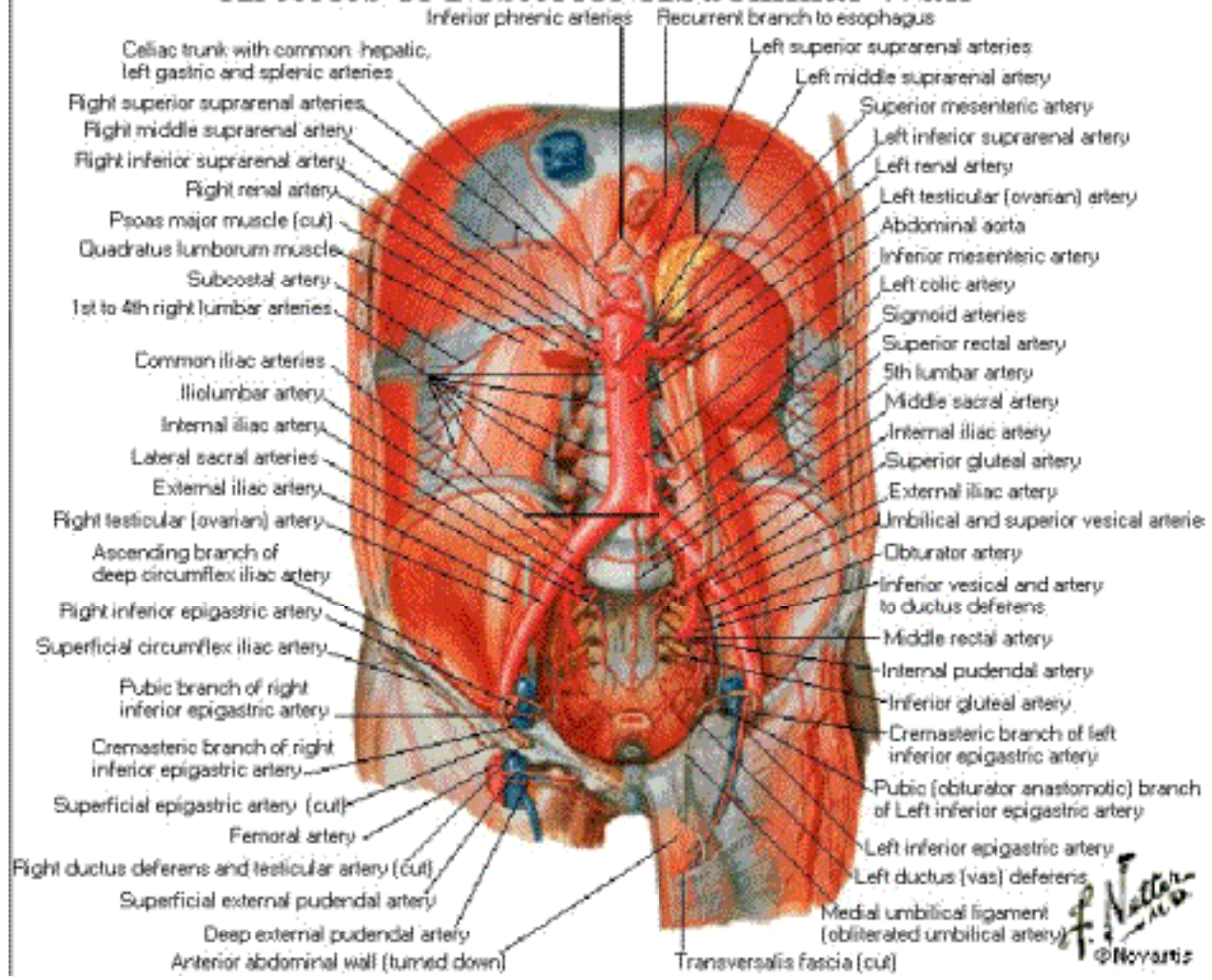
# Posterior Abdominal Wall

## Internal View





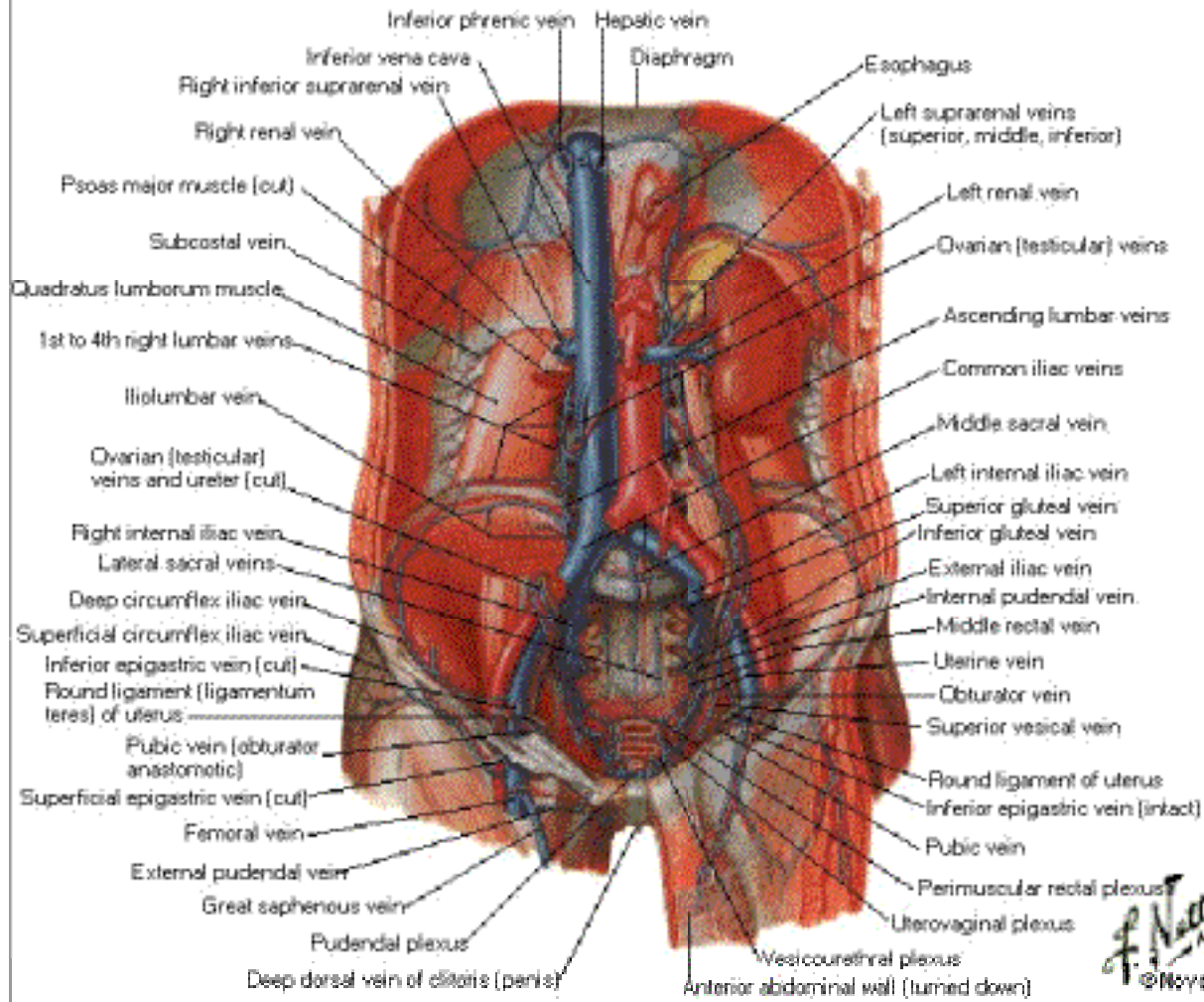
# Arteries of Posterior Abdominal Wall



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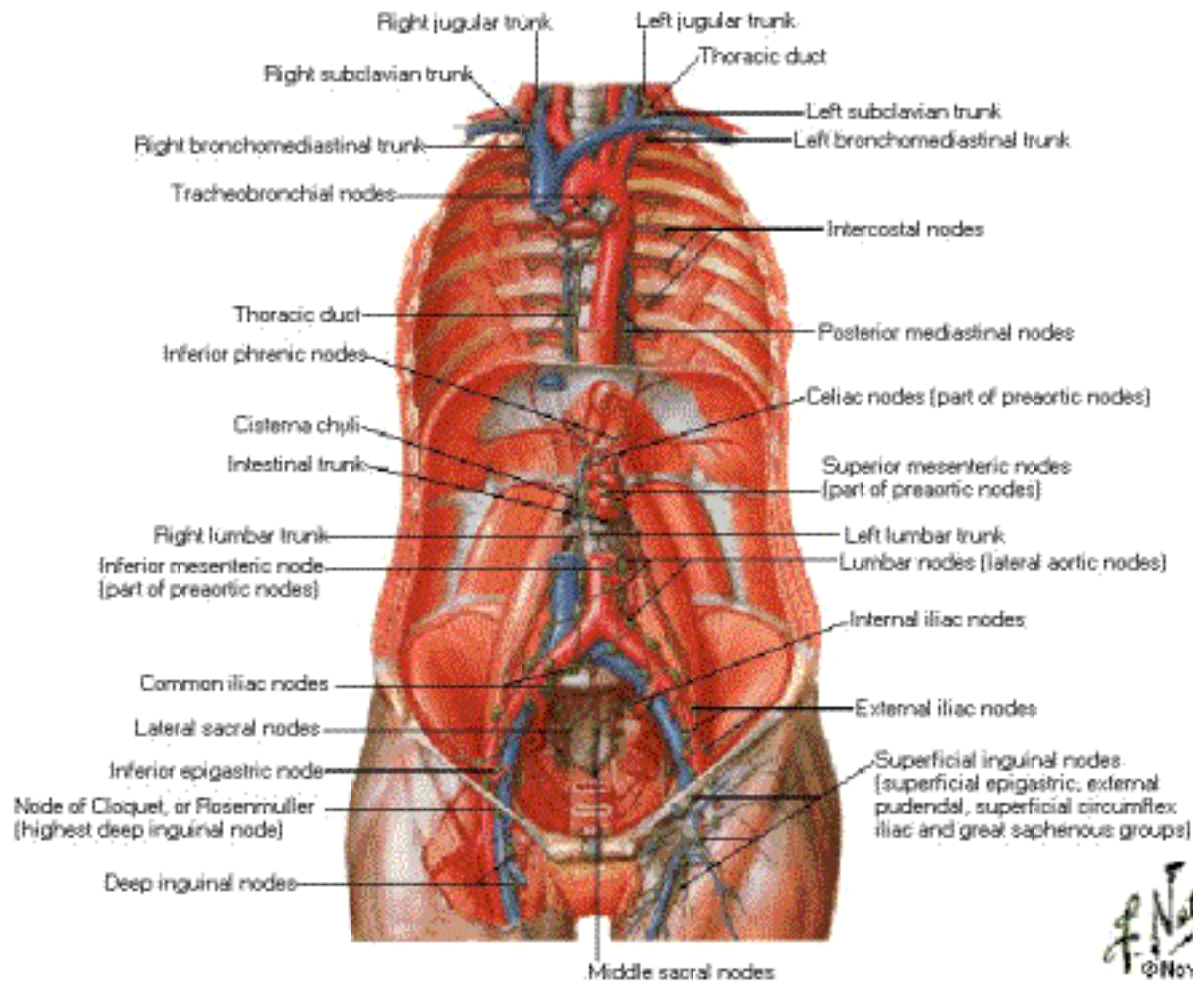


# Veins of Posterior Abdominal Wall

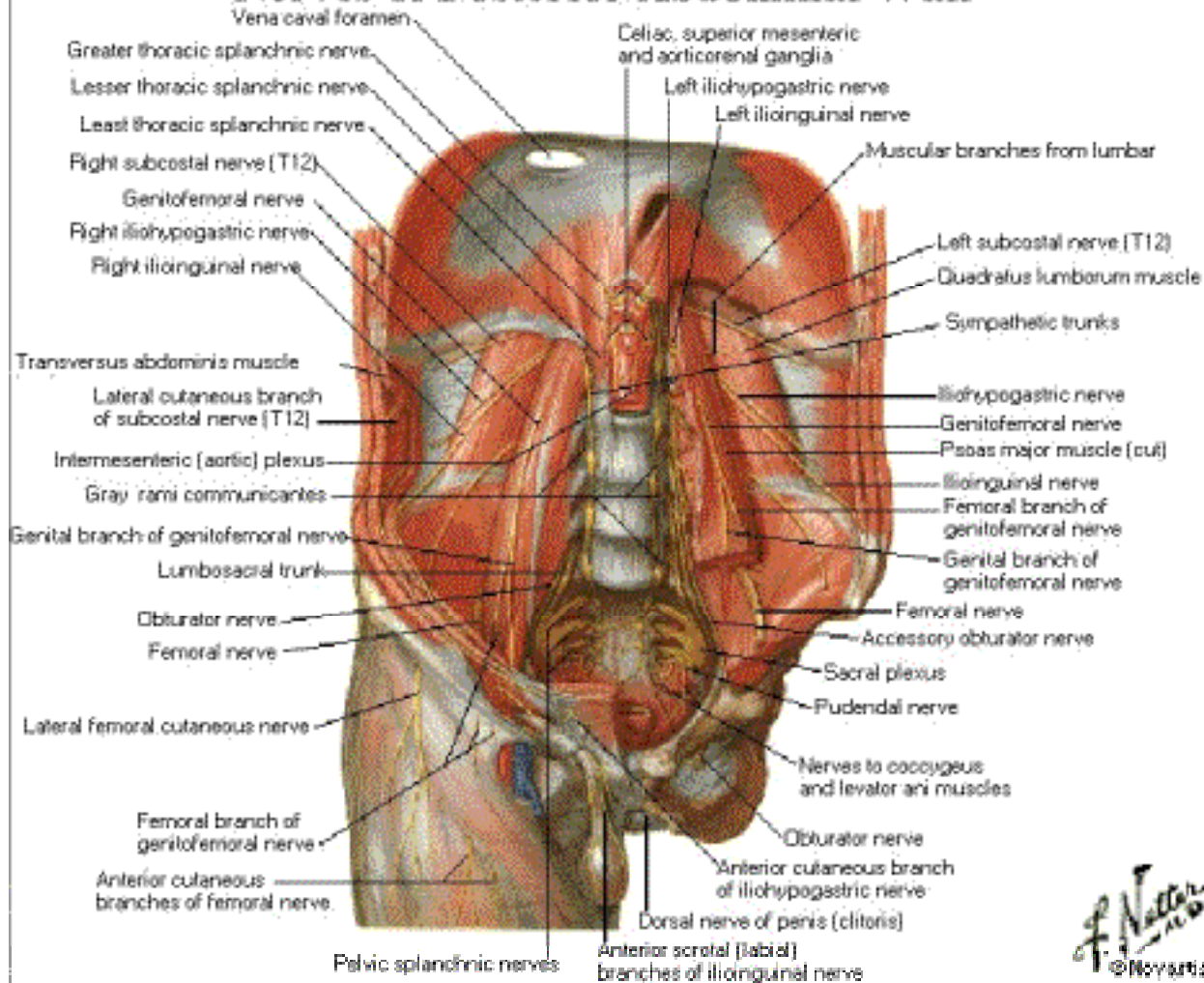


*F. Netter M.D.*  
© 1996

# Lymph Vessels and Nodes of Posterior Abdominal Wall

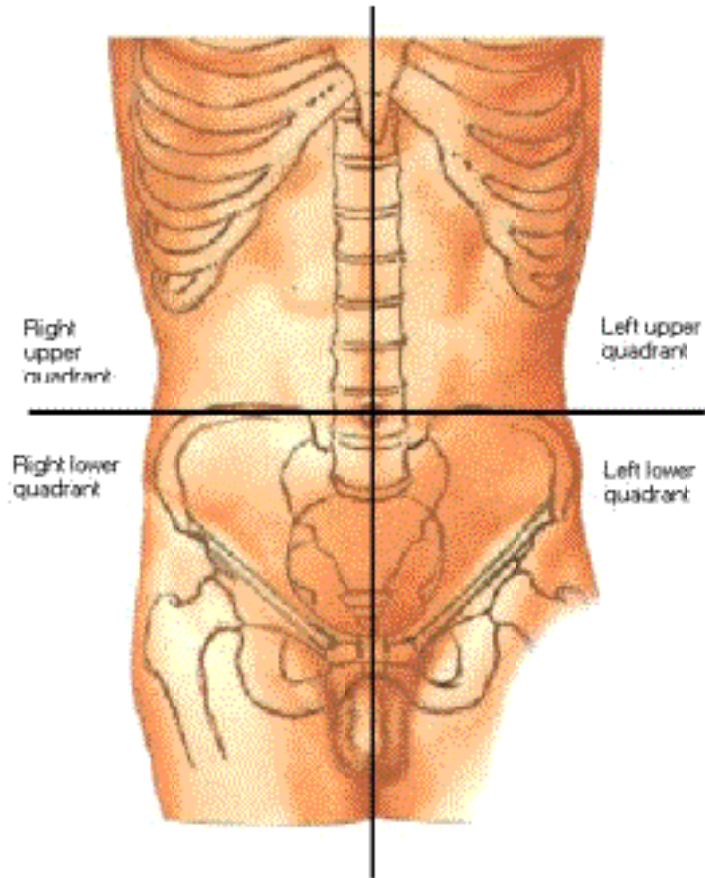


# Nerves of Posterior Abdominal Wall



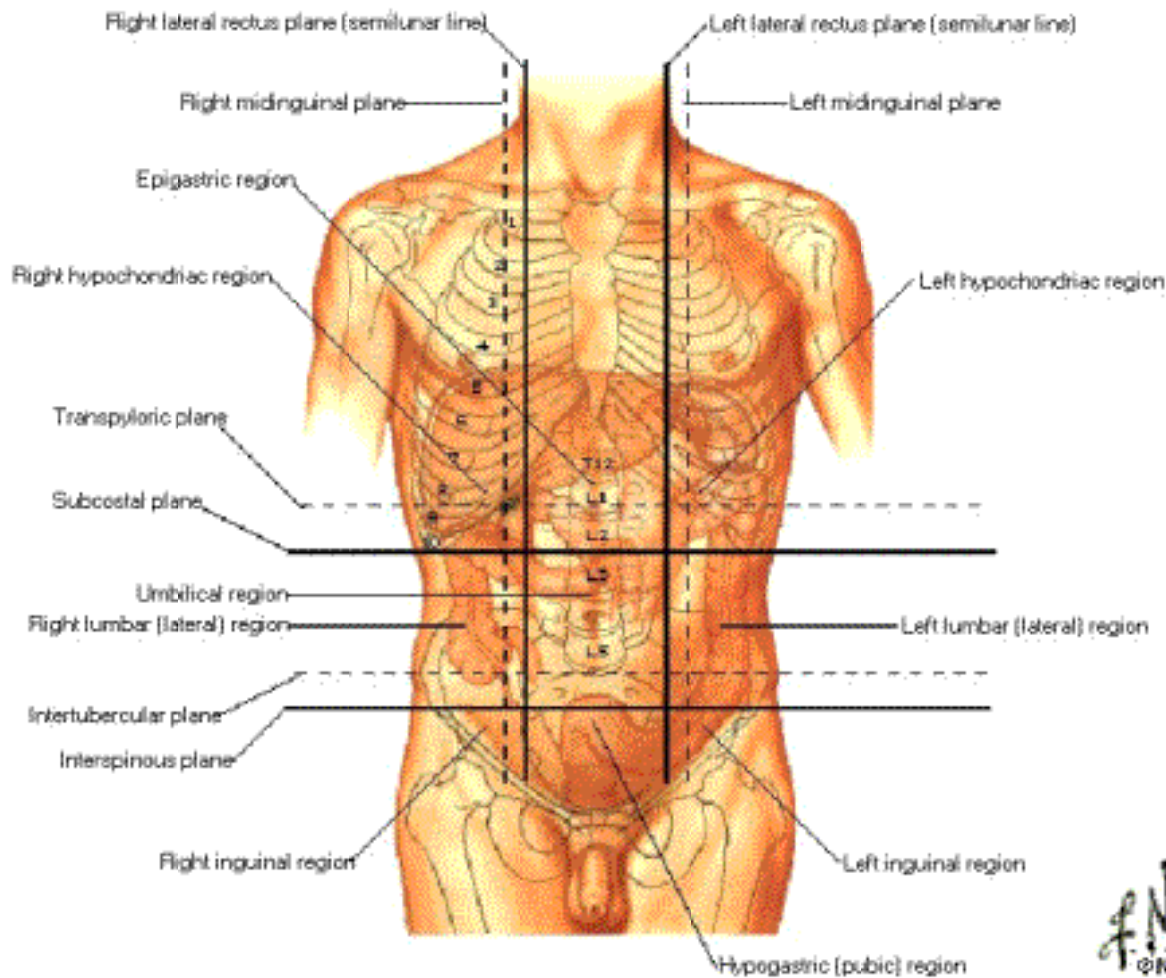
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M.D.  
© 1989

## Quadrants of Abdomen

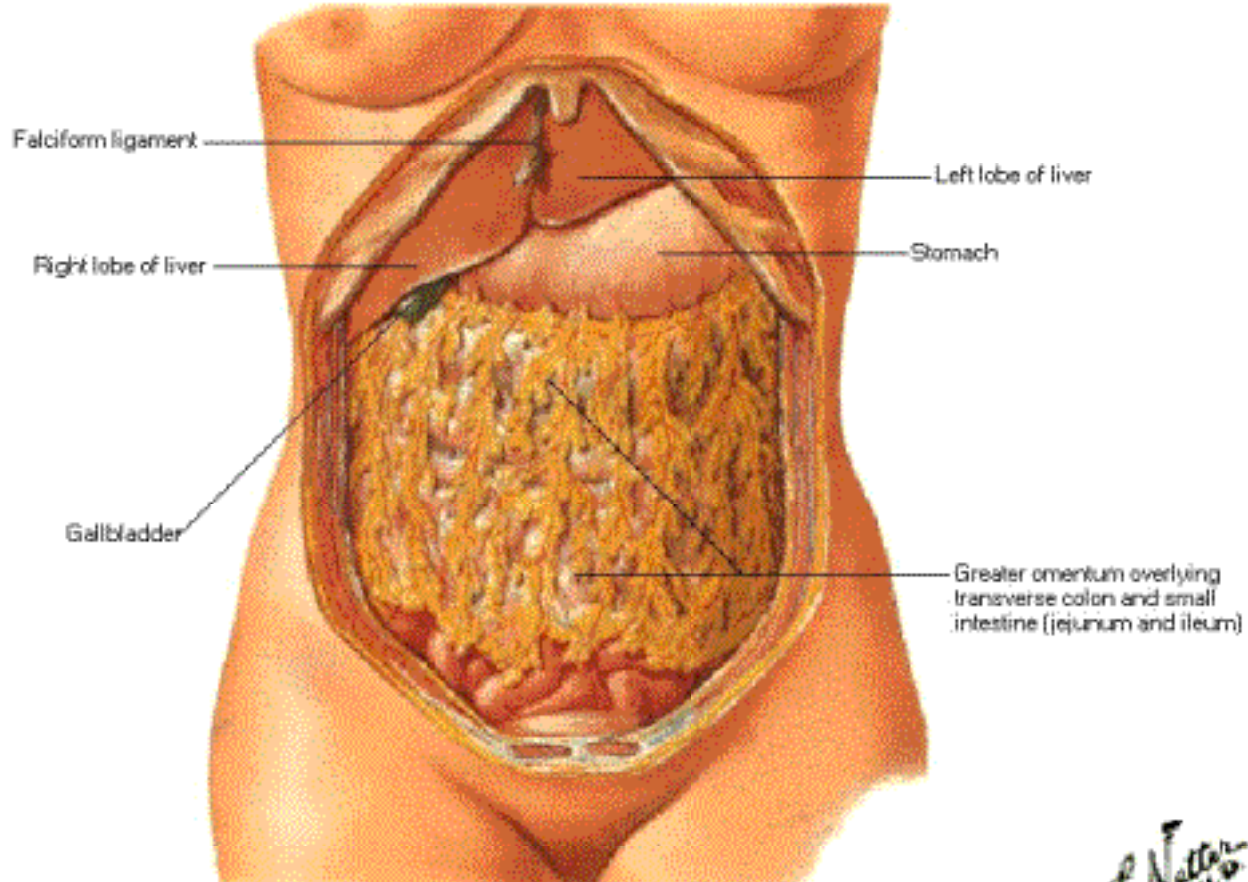




## Regions and Planes of Abdomen

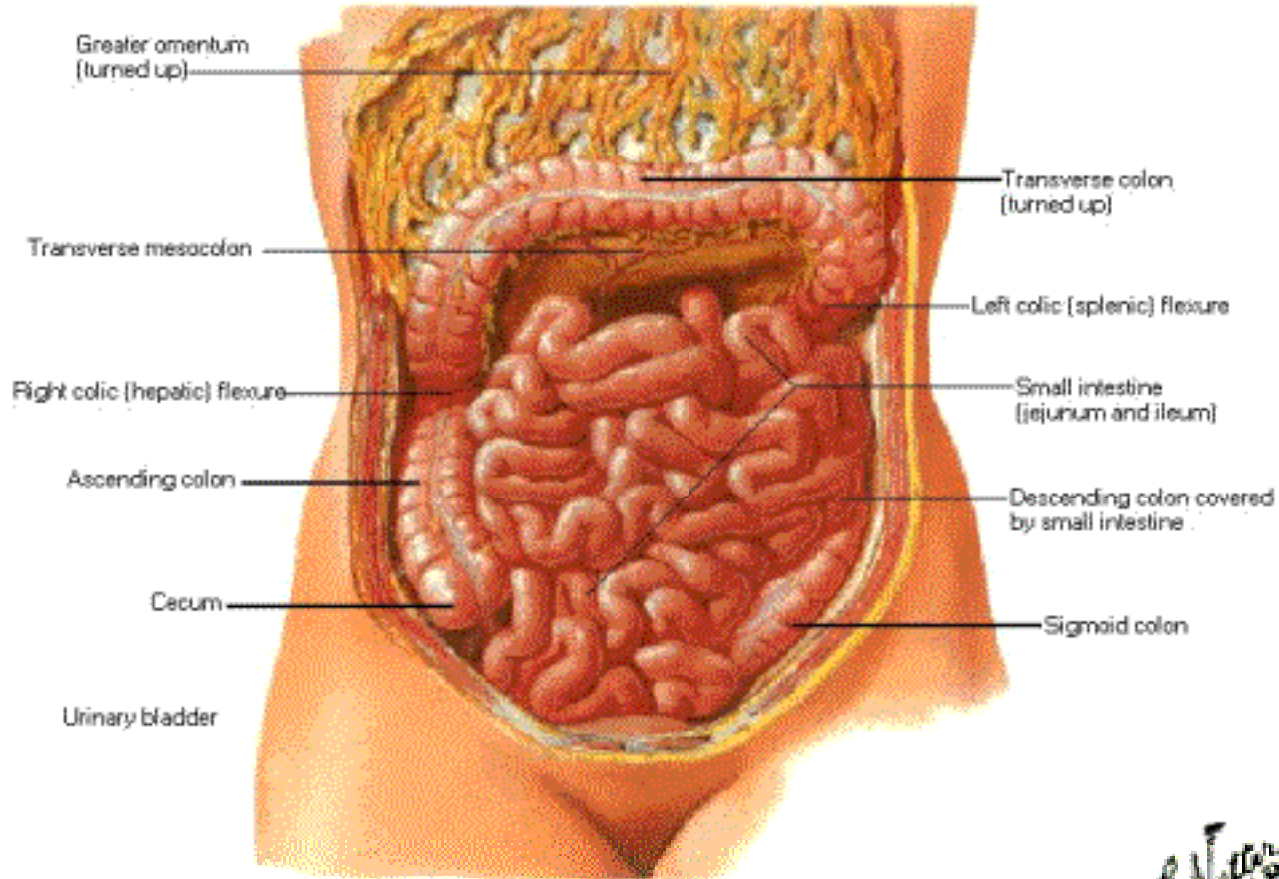


## Greater Omentum and Abdominal Viscera



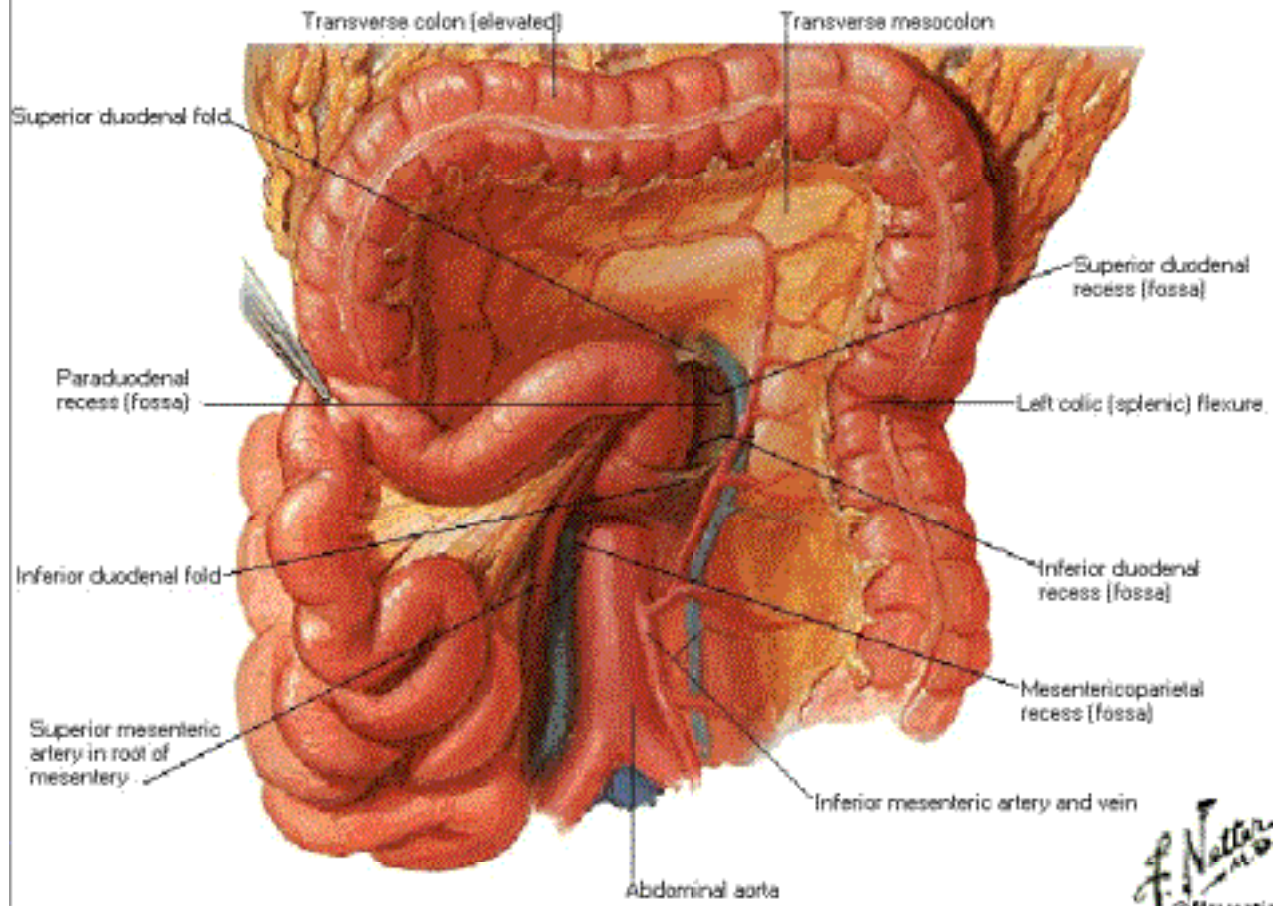
# Greater Omentum and Abdominal Viscera

## Omentum Raised



# Mesenteric Relations of Intestines

## Transverse Colon Elevated

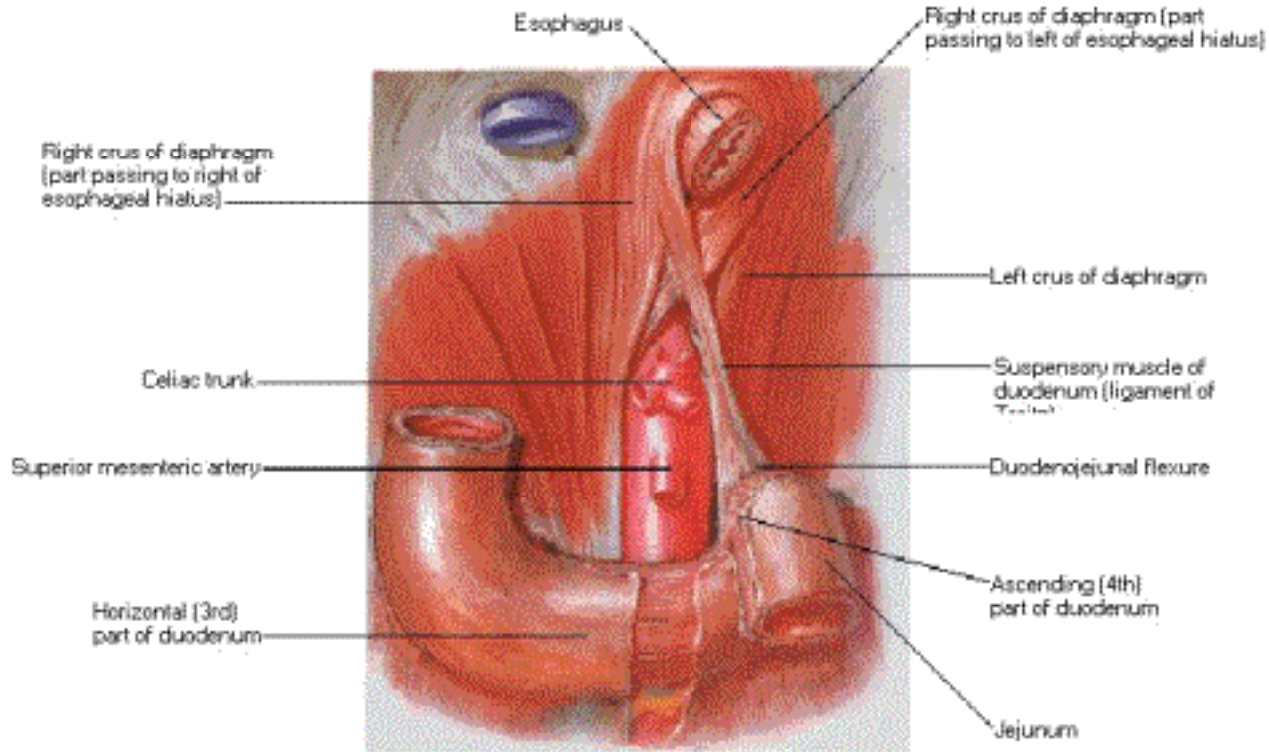


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# Mesenteric Relations of Intestines

## Suspensory Muscle of Duodenum

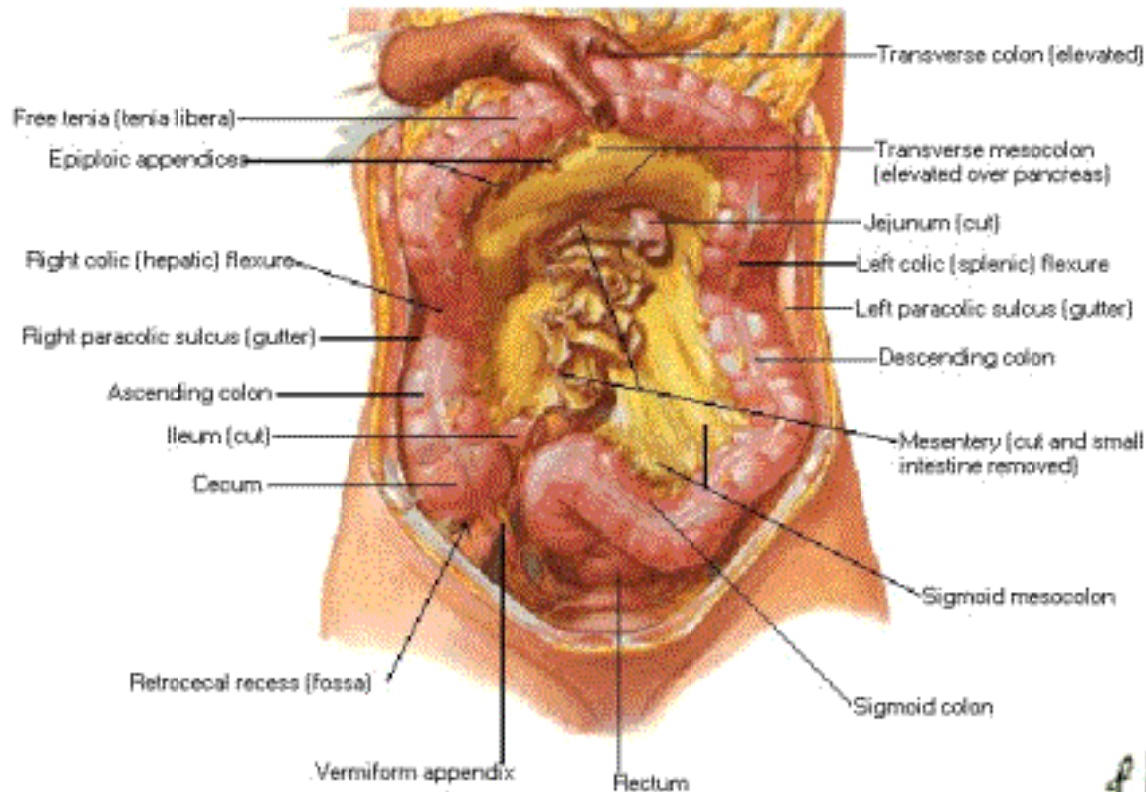


Exposure of suspensory muscle of duodenum (ligament of Treitz)

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# Mesenteric Relations of Intestines

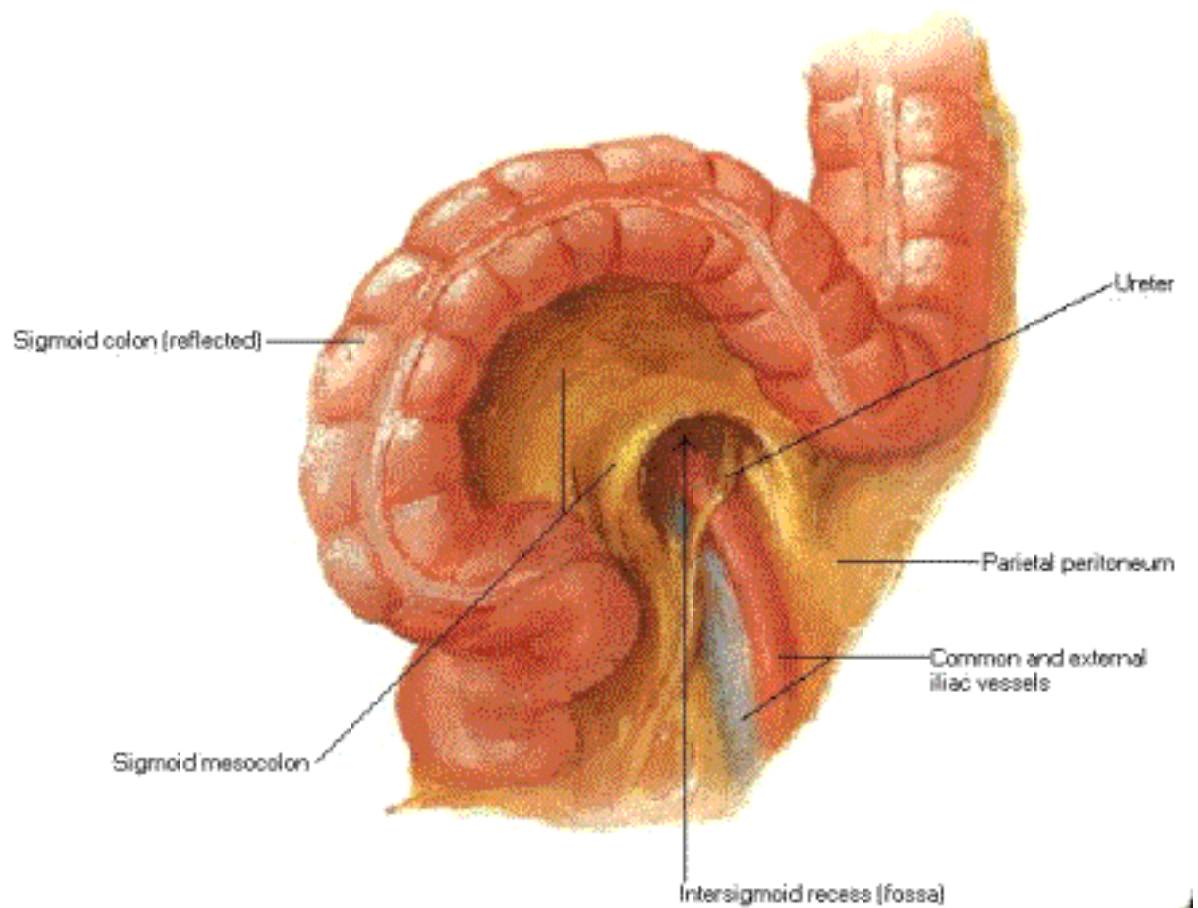
## Small Intestine Removed



EN

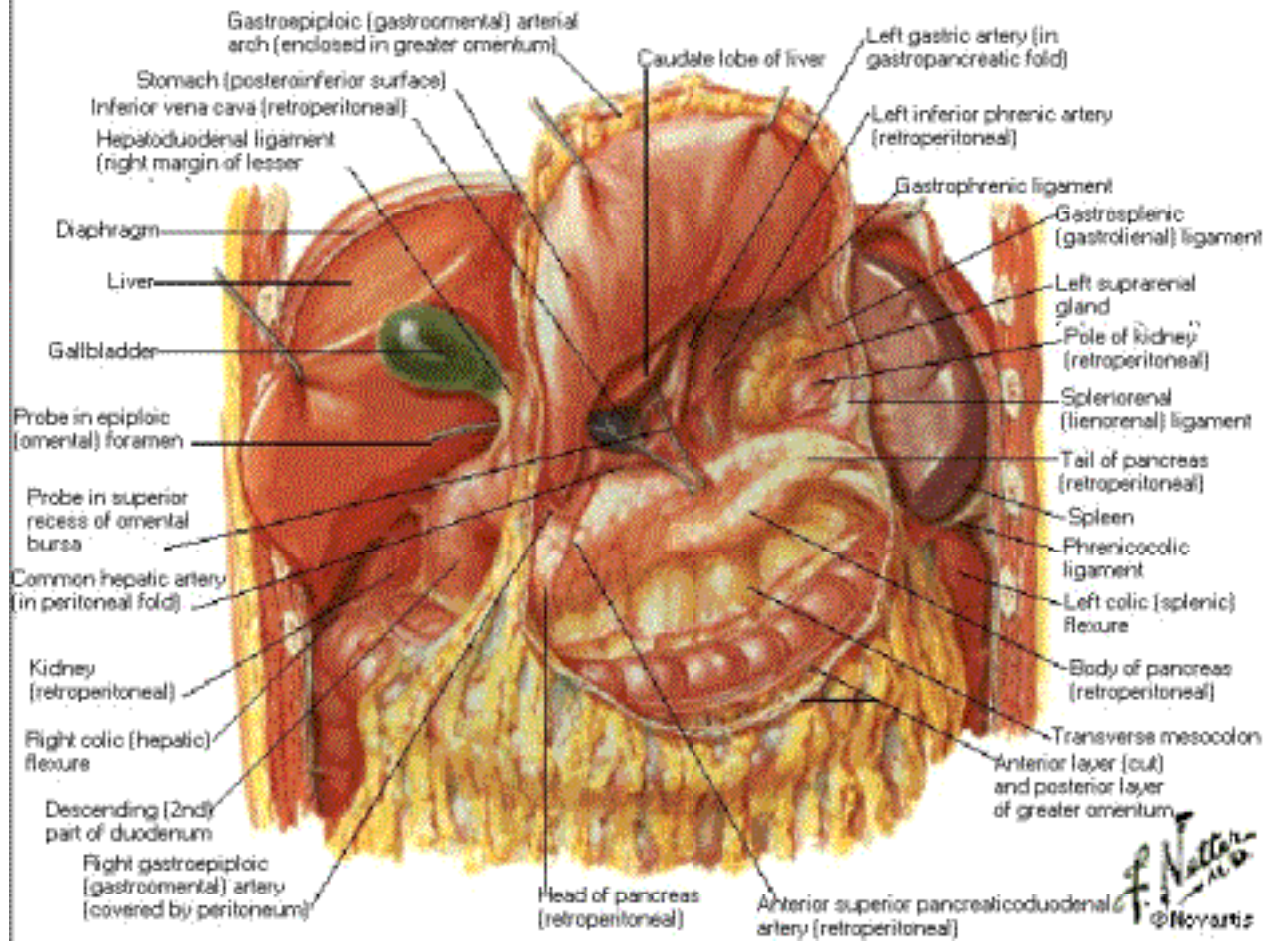
# Mesenteric Relations of Intestines

## Sigmoid Colon Reflected



# Omental Bursa

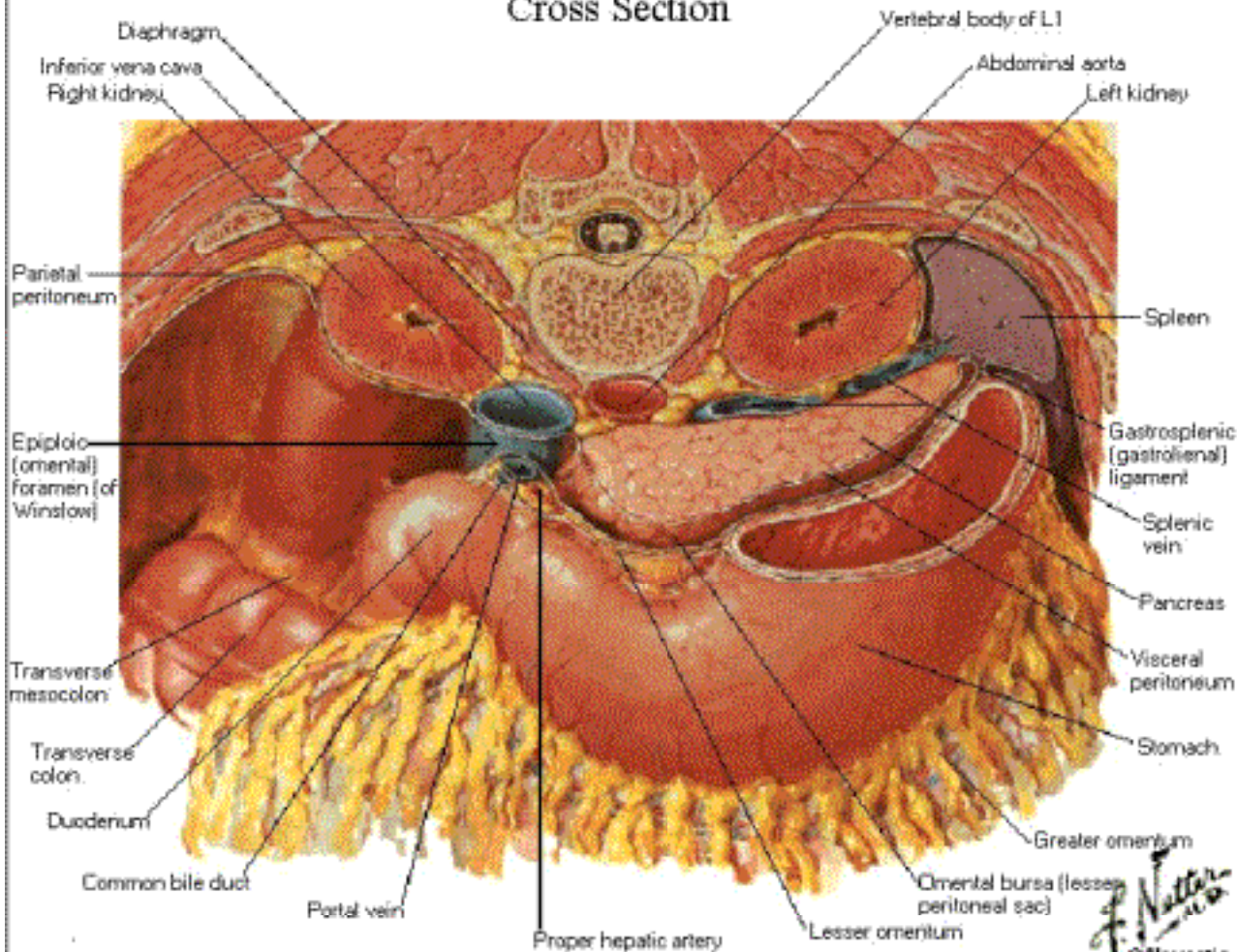
## Stomach Reflected



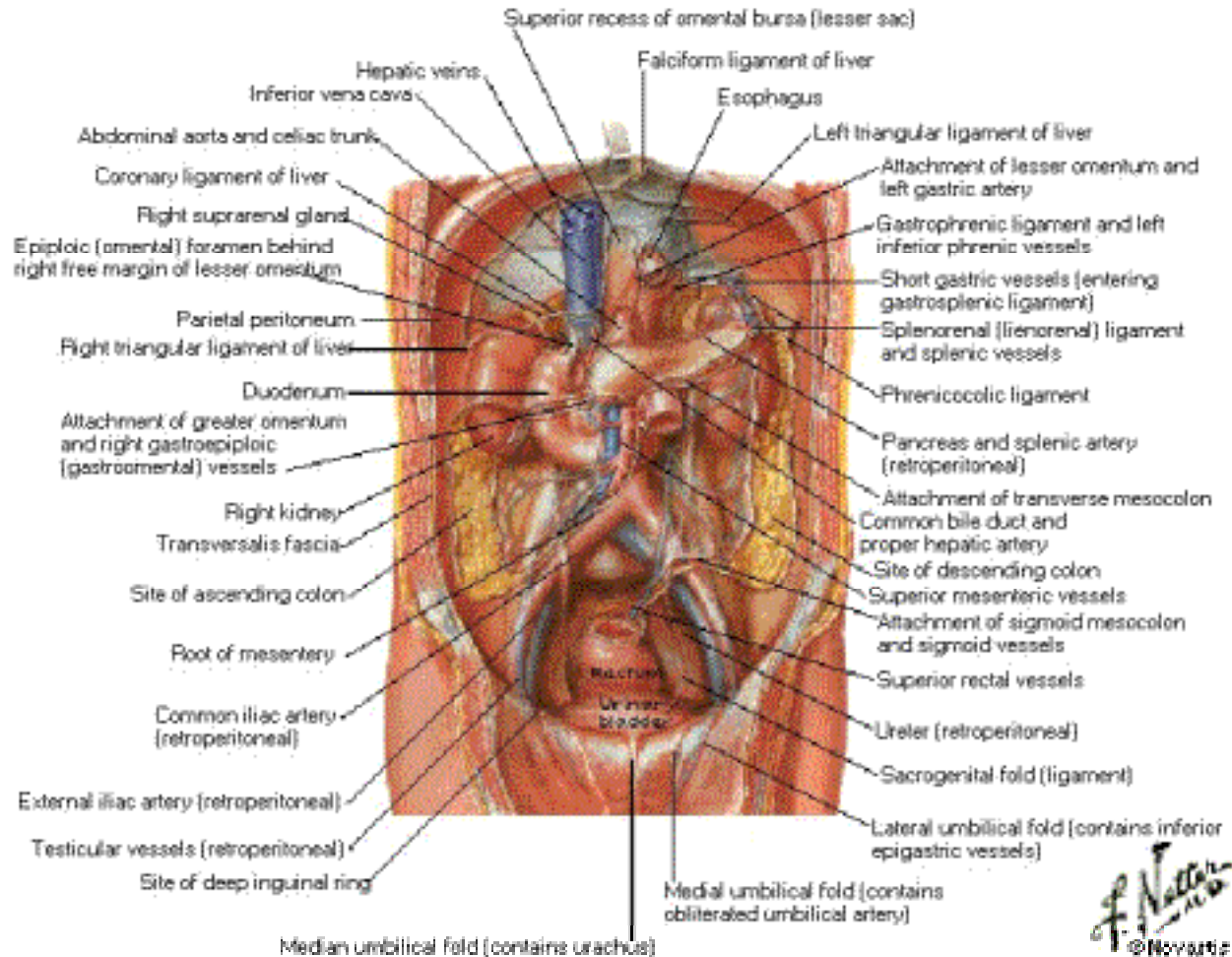


# Omental Bursa

## Cross Section

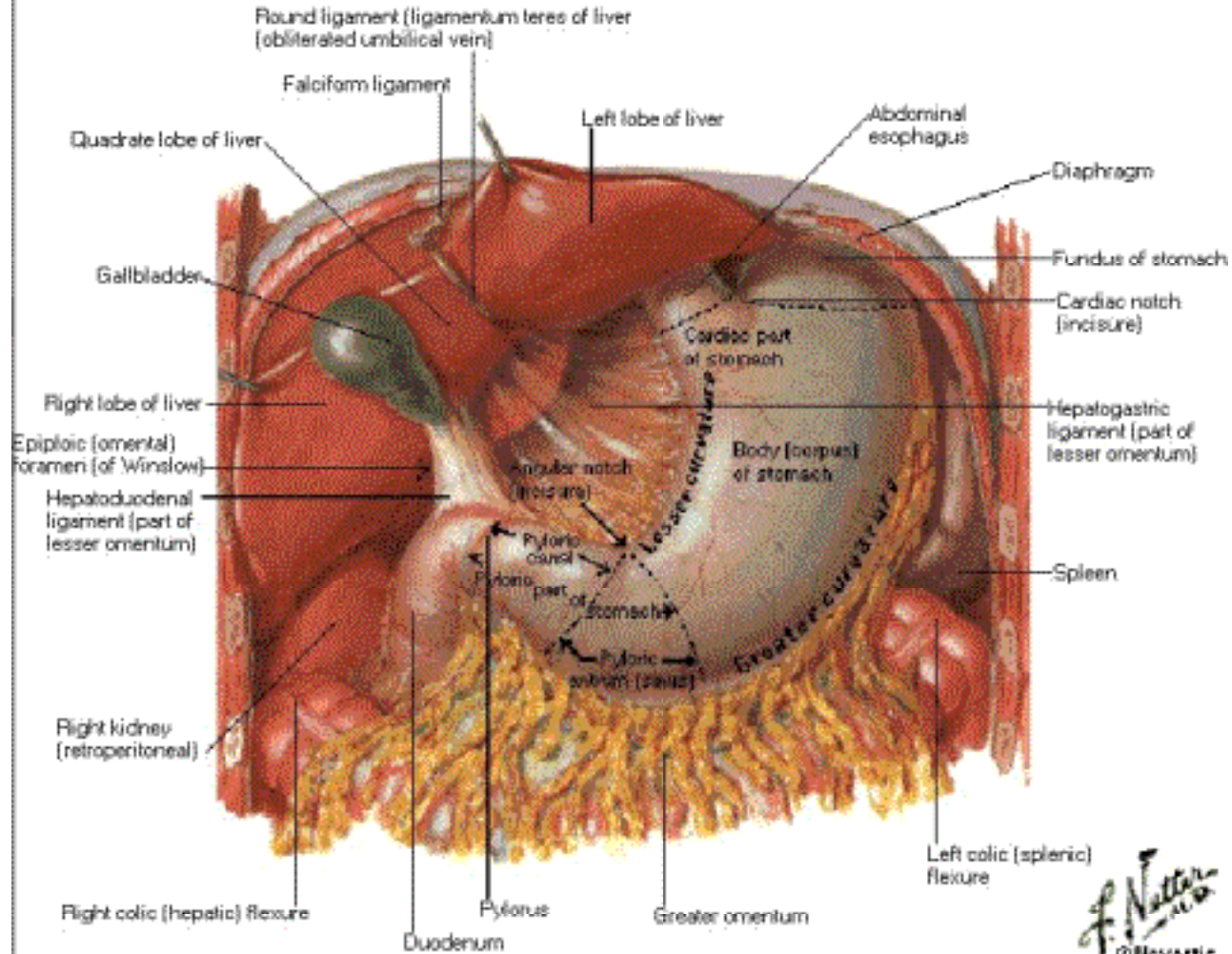


# Peritoneum of Posterior Abdominal Wall



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# Stomach in Situ



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# Stomach

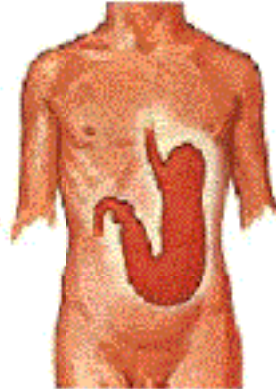
## Variations in Position and Contour



Hypertonic stomach



Orthotonic stomach



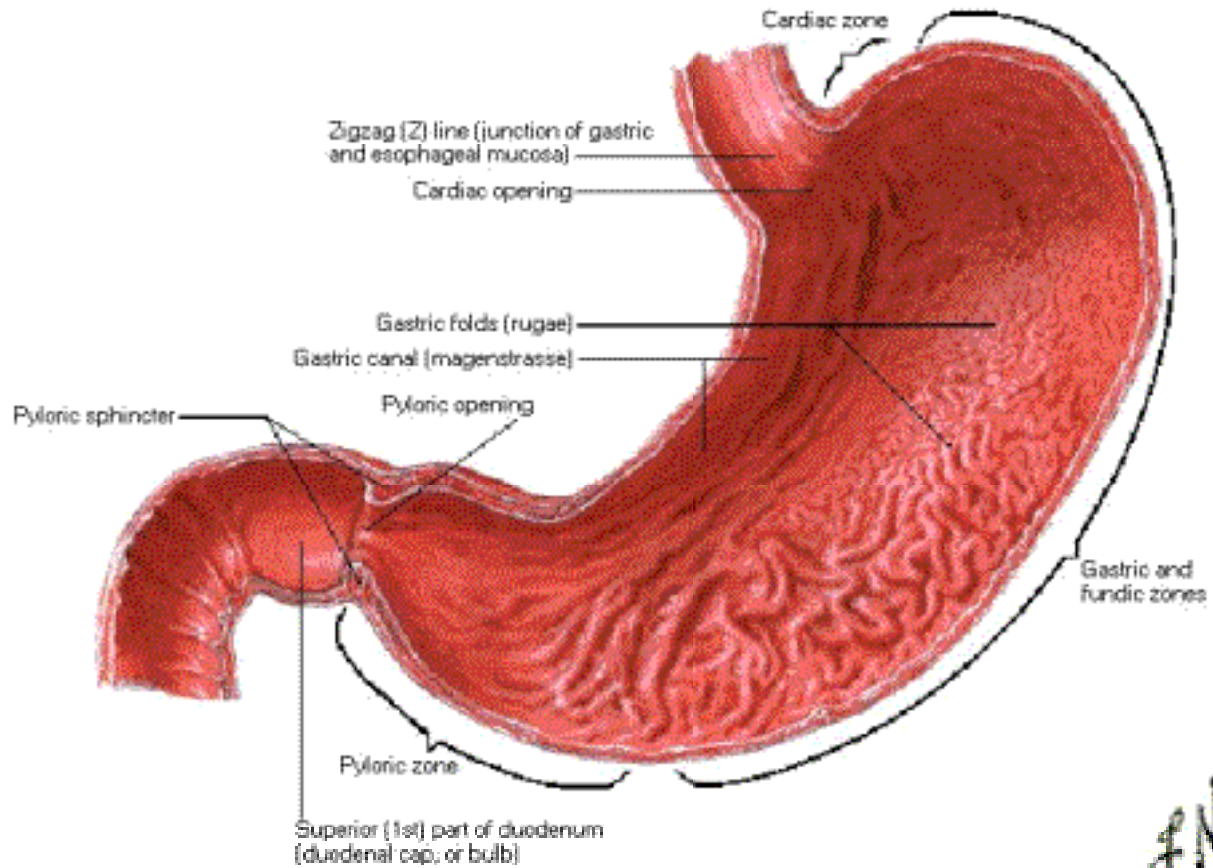
Hypotonic stomach



Atonic stomach

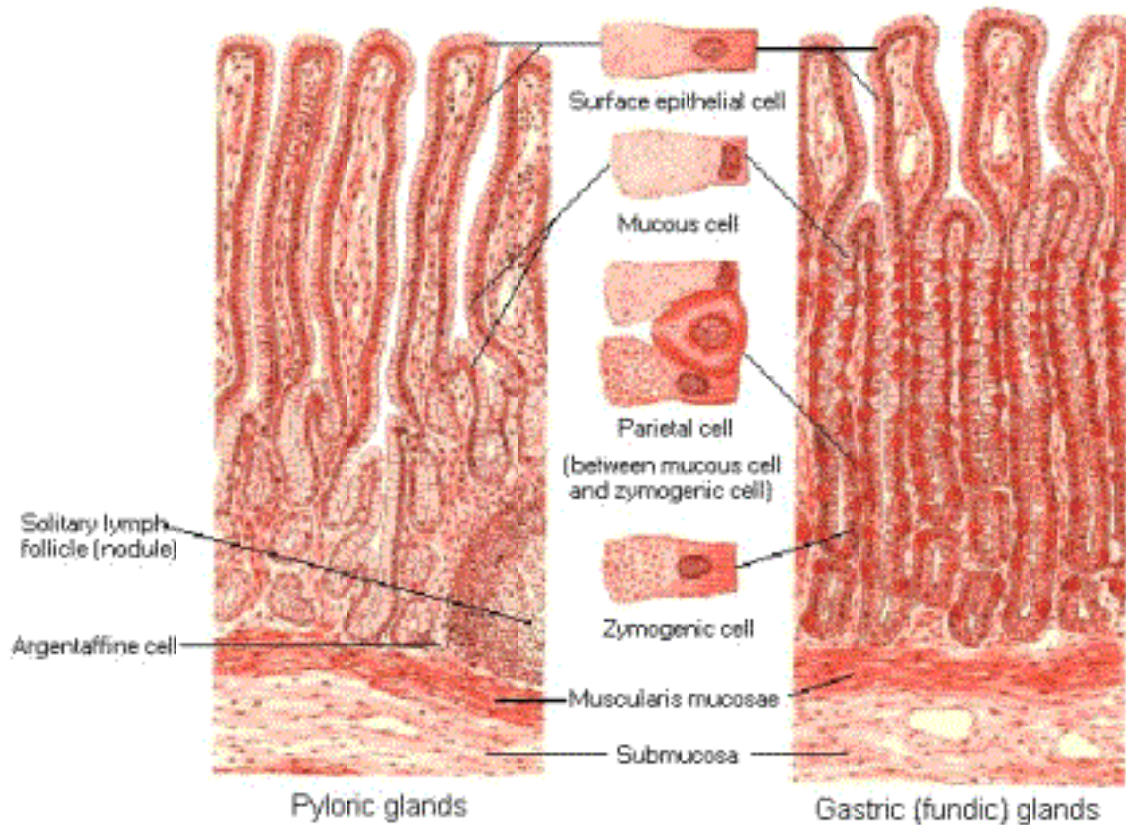


# Mucosa of Stomach

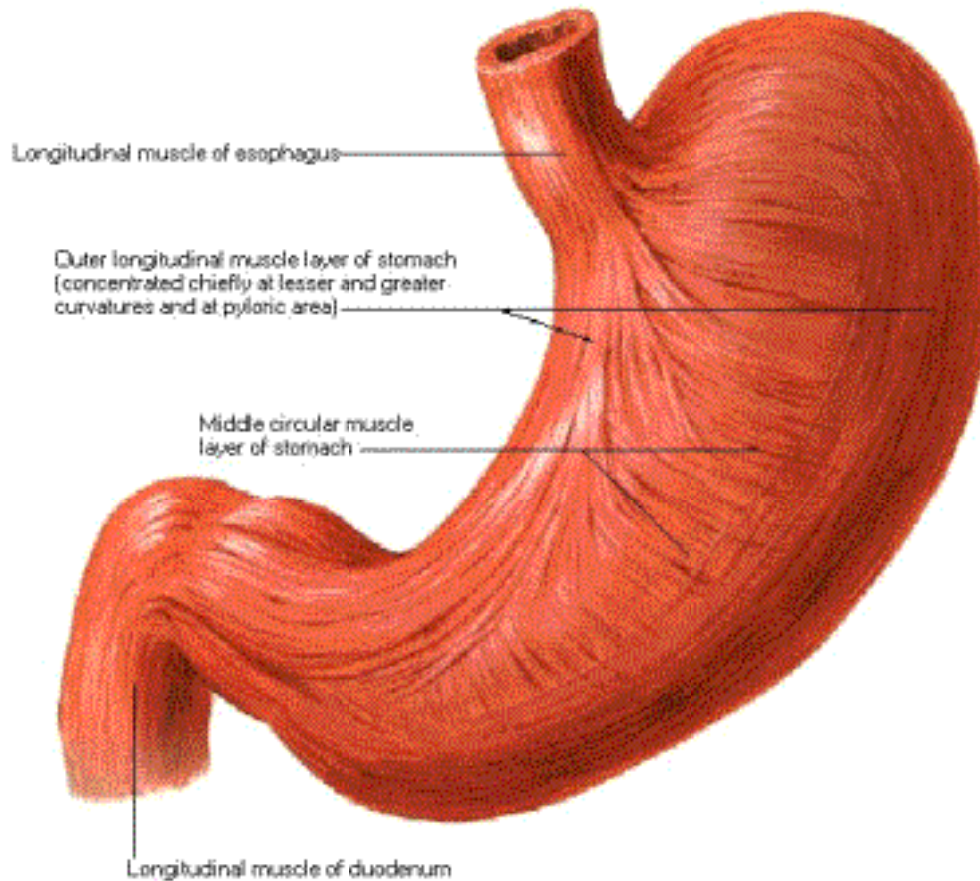


# Mucosa of Stomach

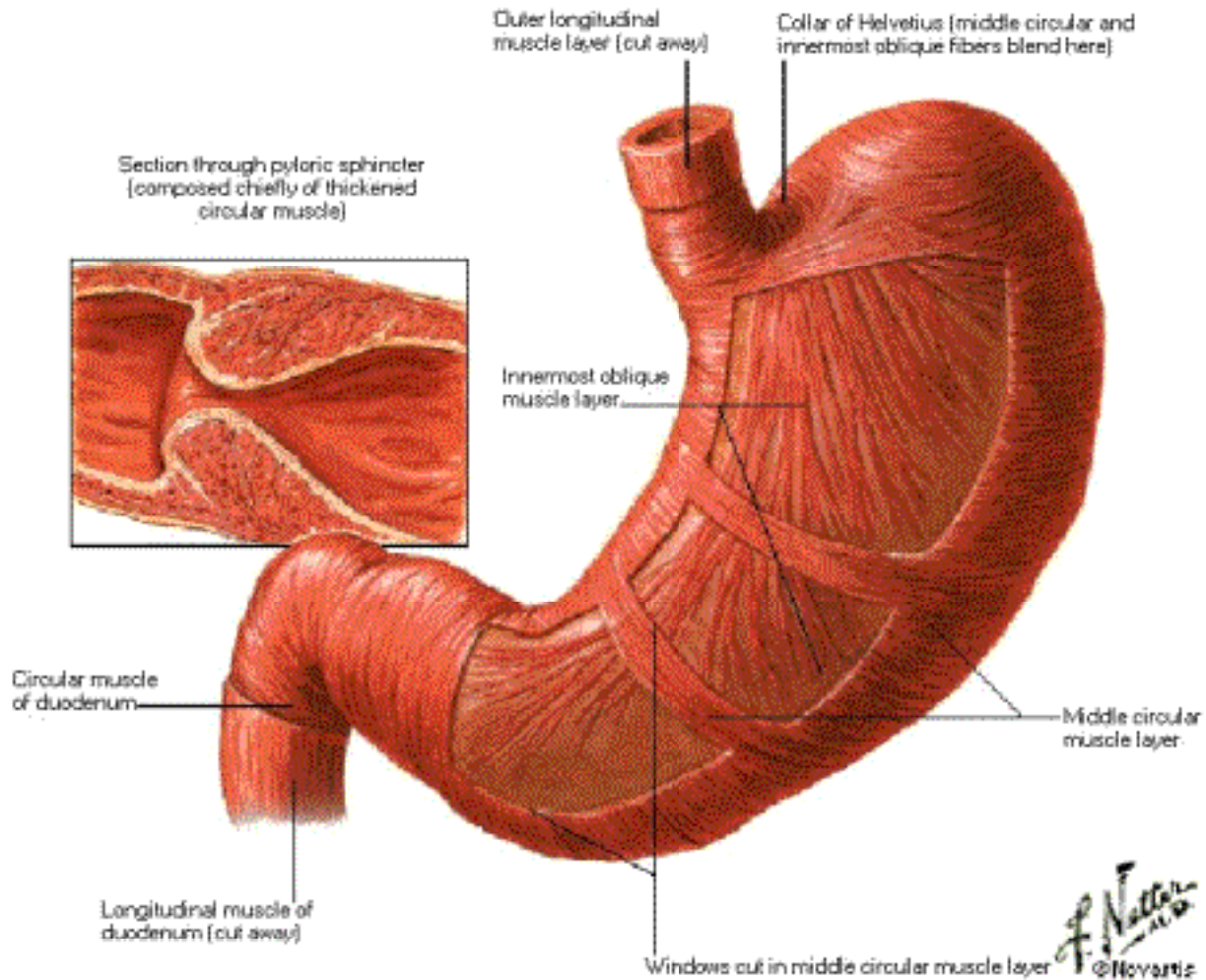
## Histology



## Musculature of Stomach

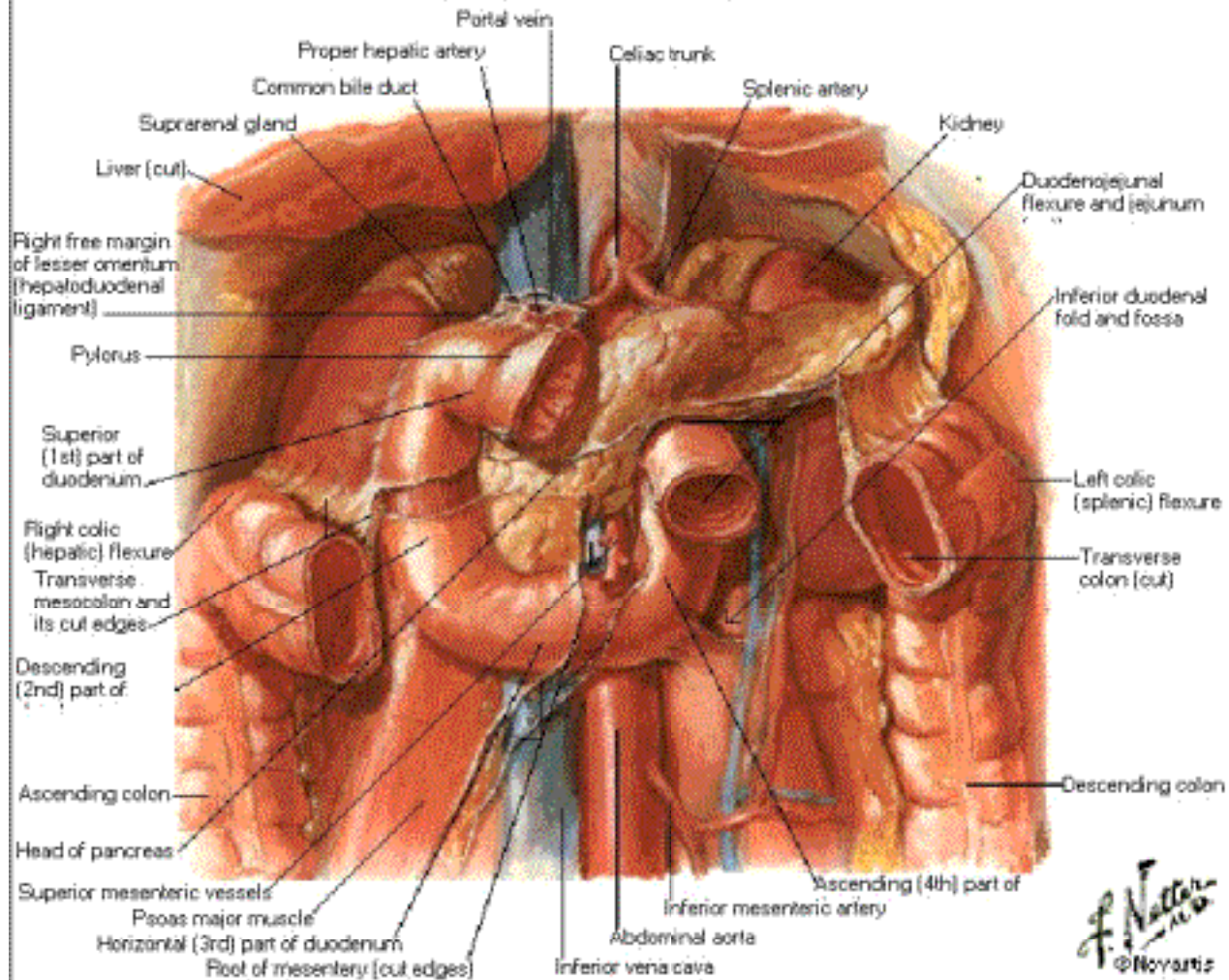


## Musculature of Stomach [Continued]

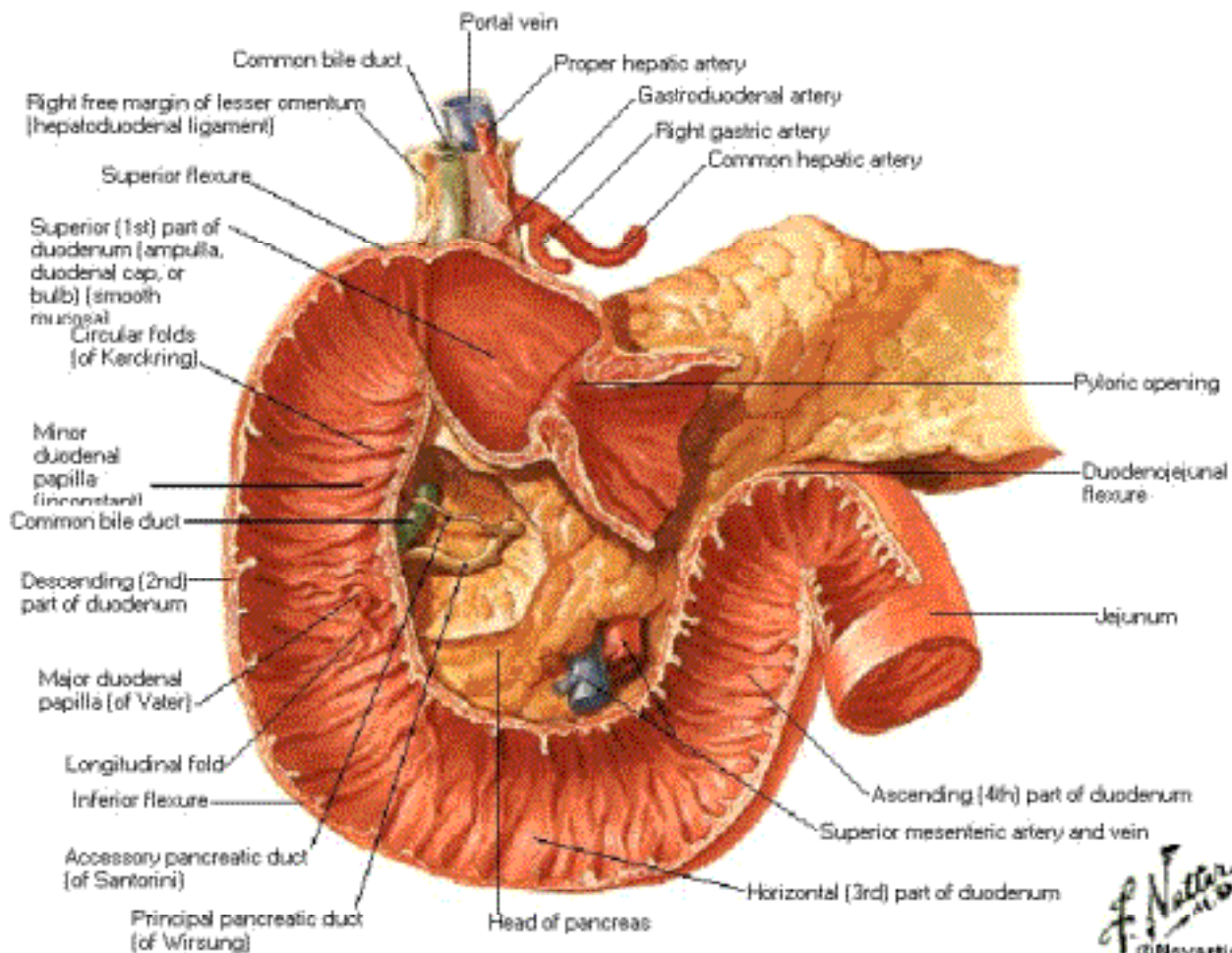




# Duodenum in Situ

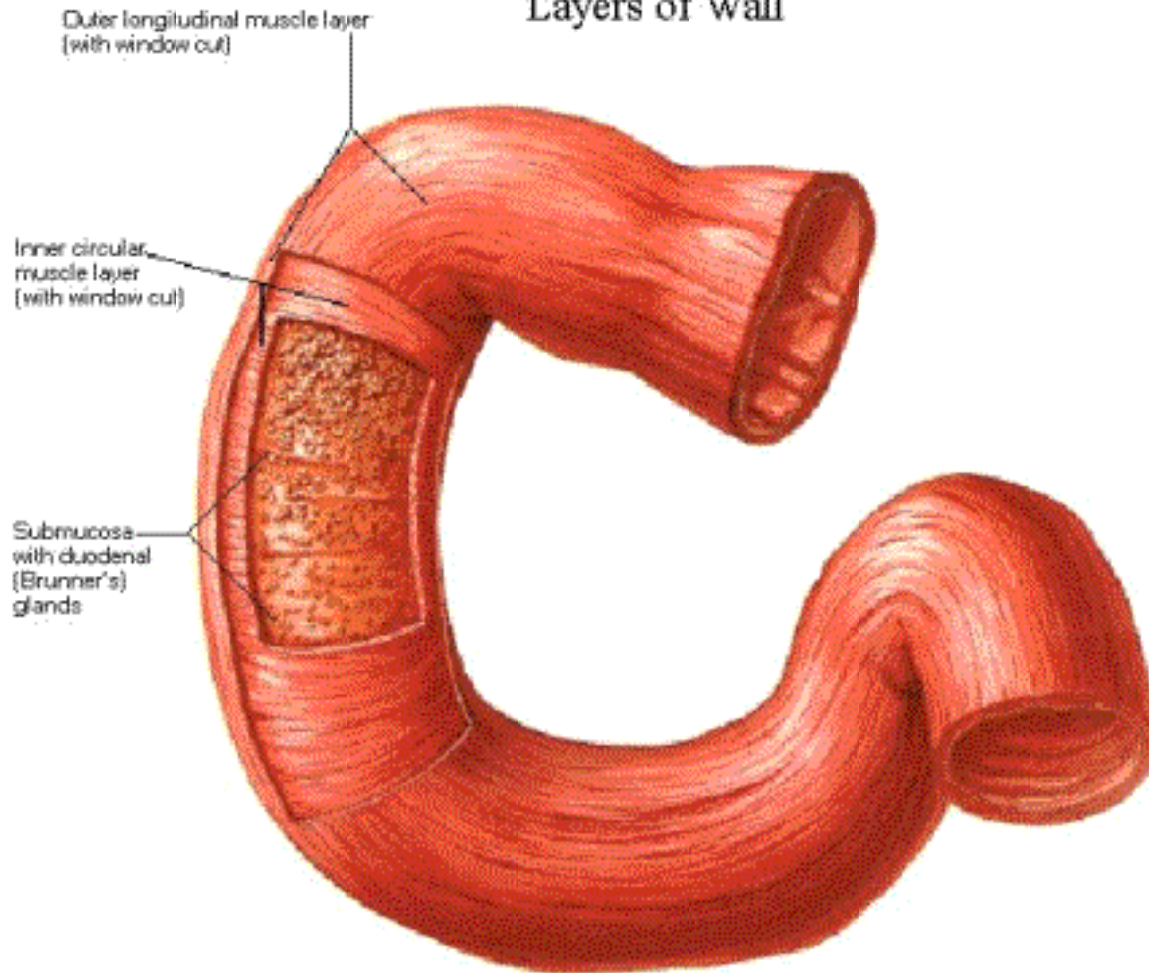


# Mucosa of Duodenum



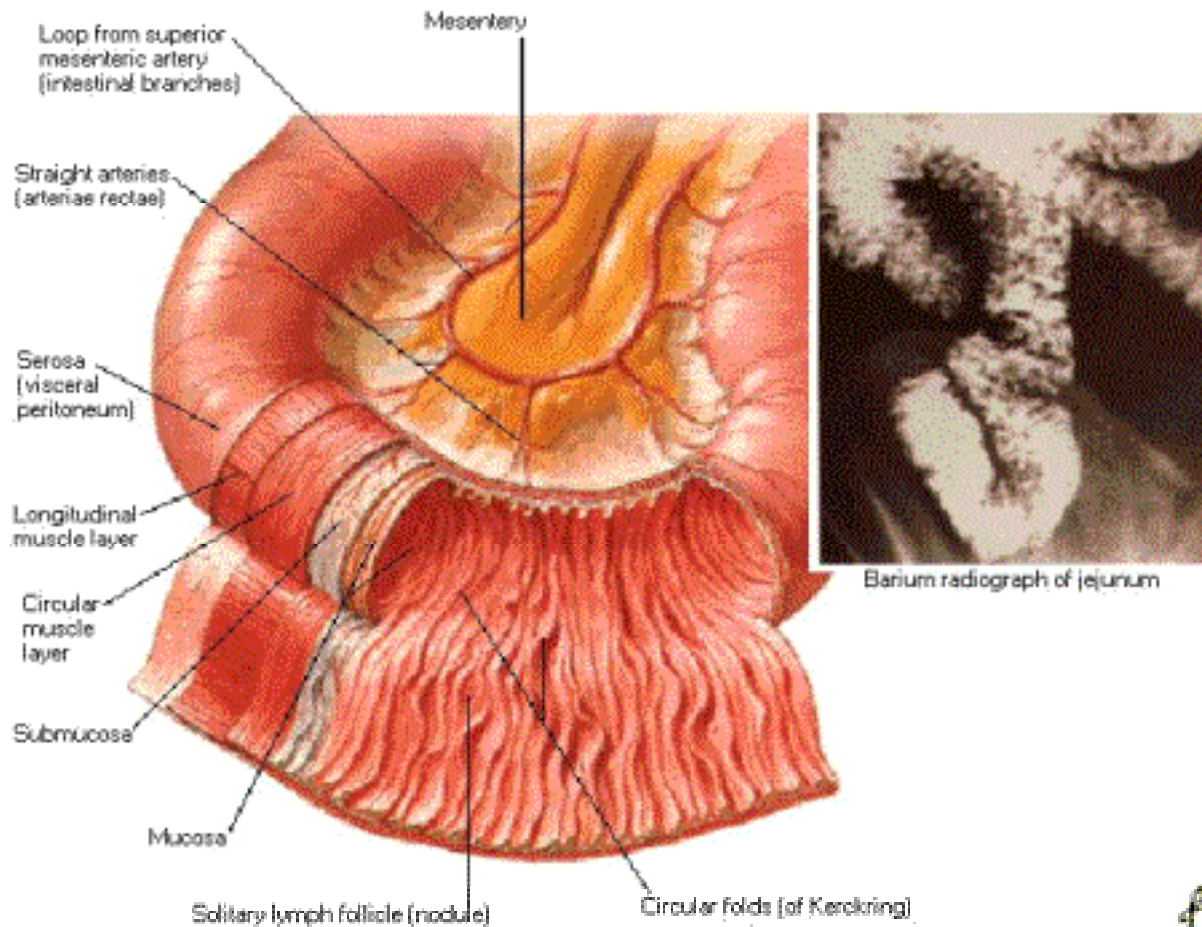
# Musculature of Duodenum

## Layers of Wall



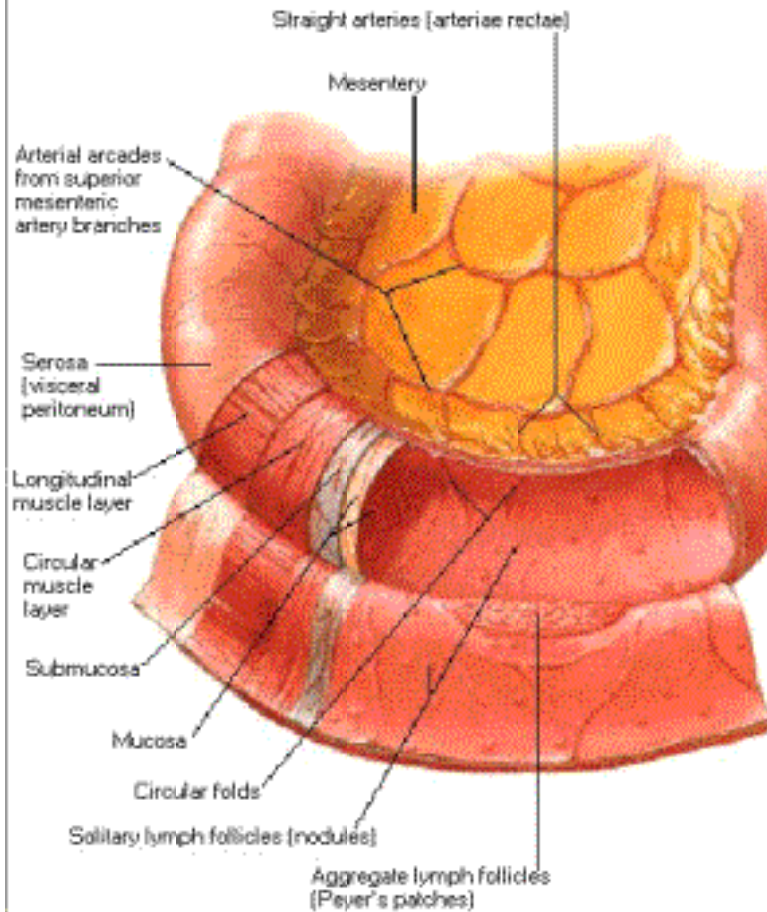


# Mucosa and Musculature of Jejunum





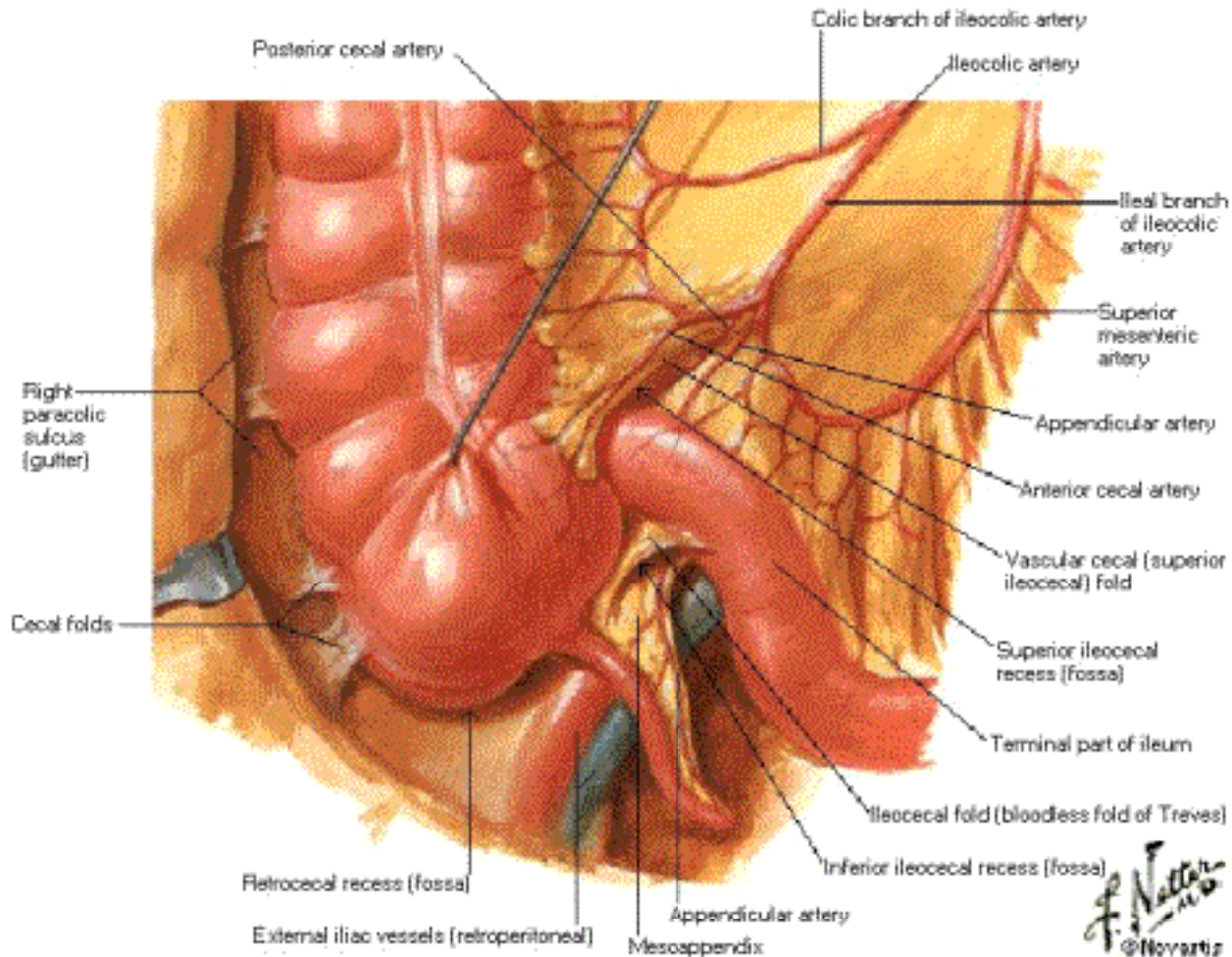
## Mucosa and Musculature of Ileum



Barium radiograph of ileum

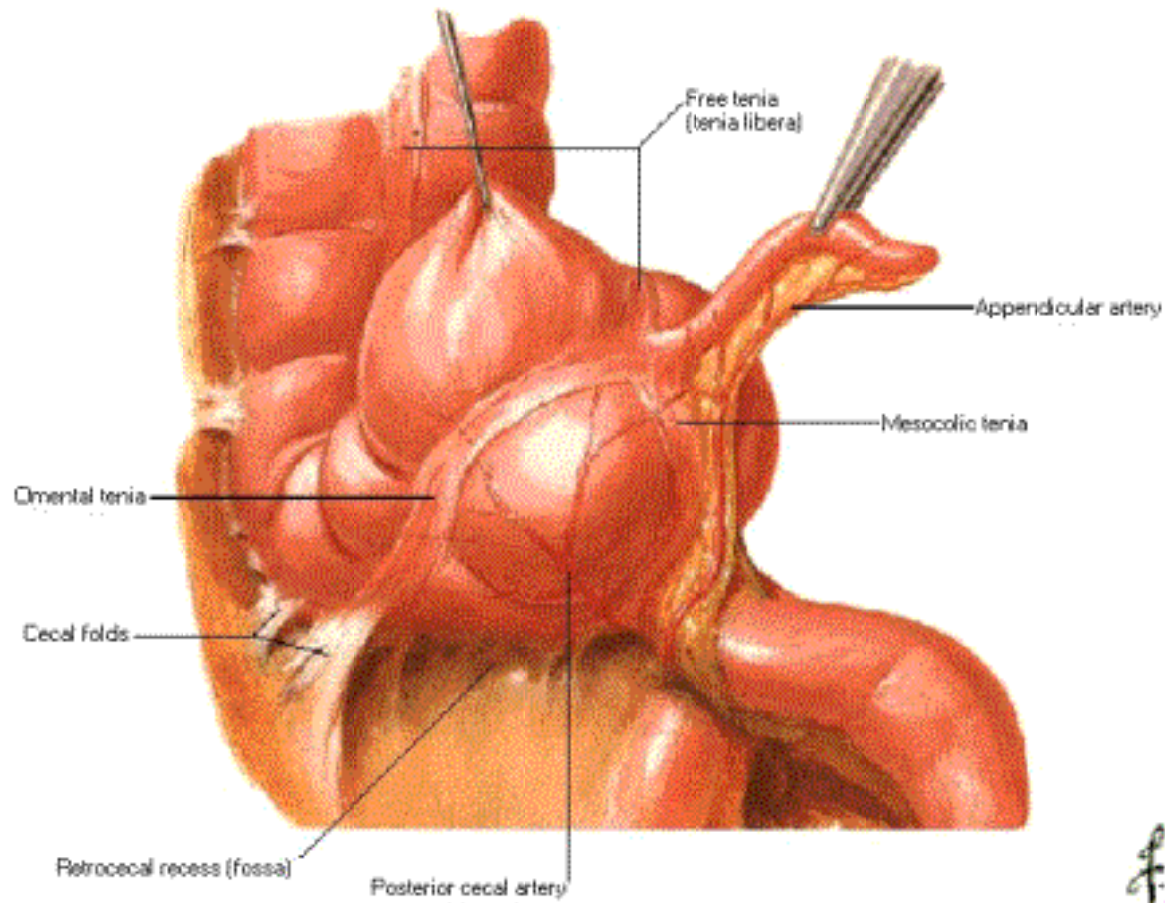
*f.*

# Ileocecocolic Region



# Ileocecal Region

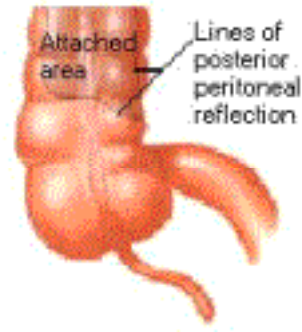
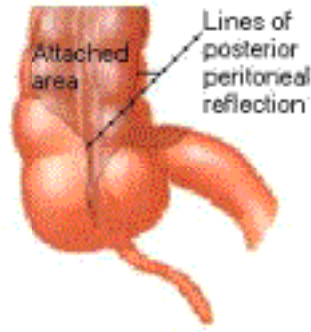
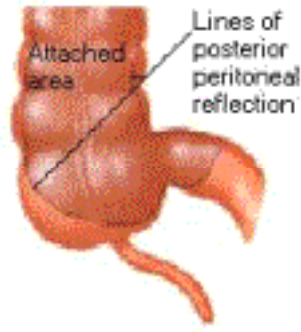
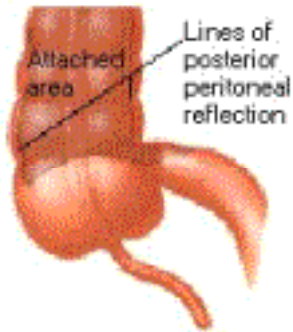
## Retrocecal Recess Exposed



*f.*

# Ileocecal Region

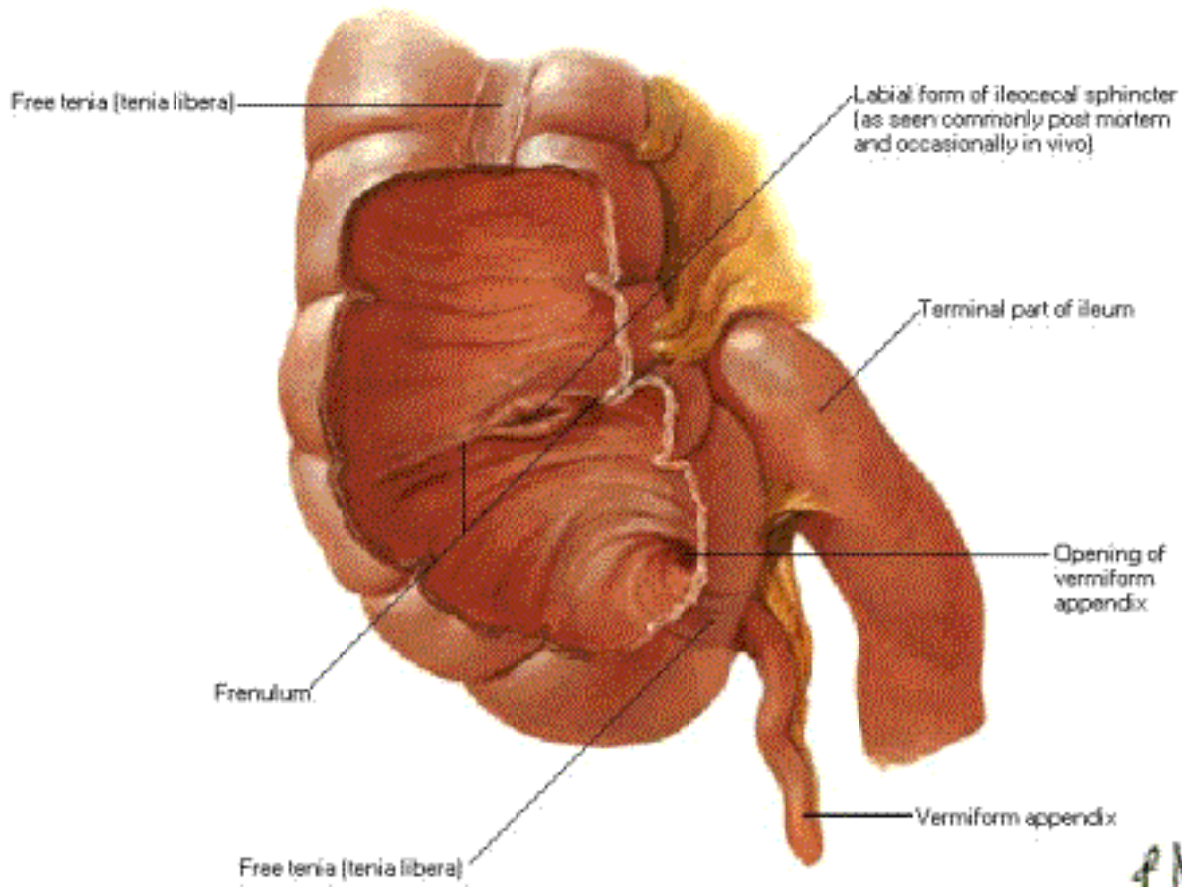
## Variations in Posterior Peritoneal Attachment





# Ileocecal Region

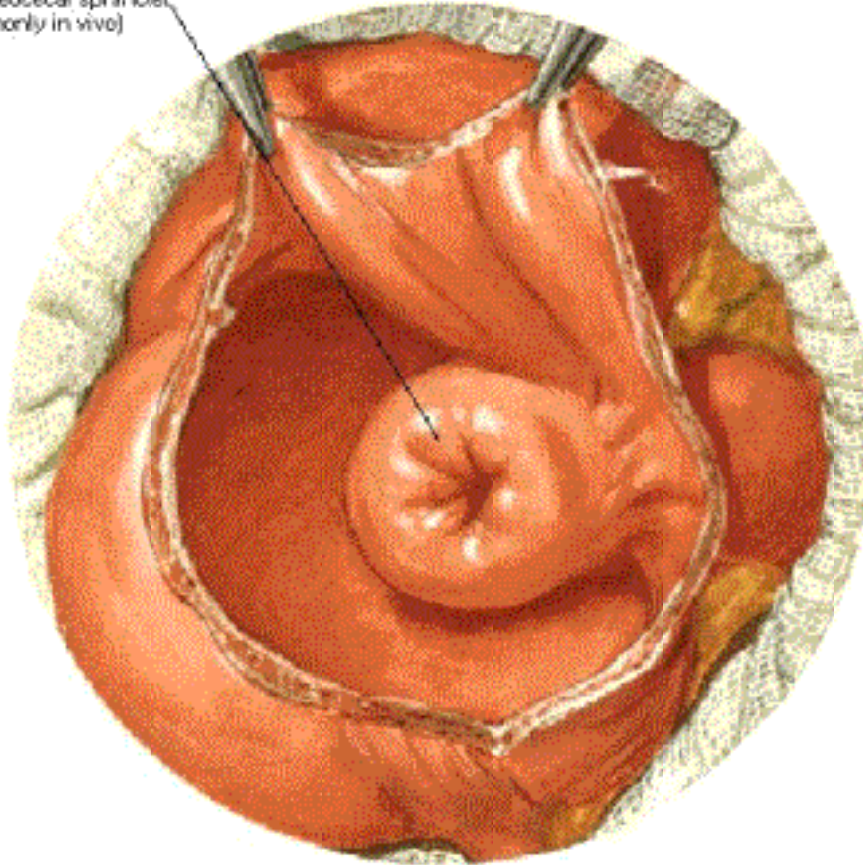
## Labial Form of Ileocecal Sphincter



# Ileocecal Region

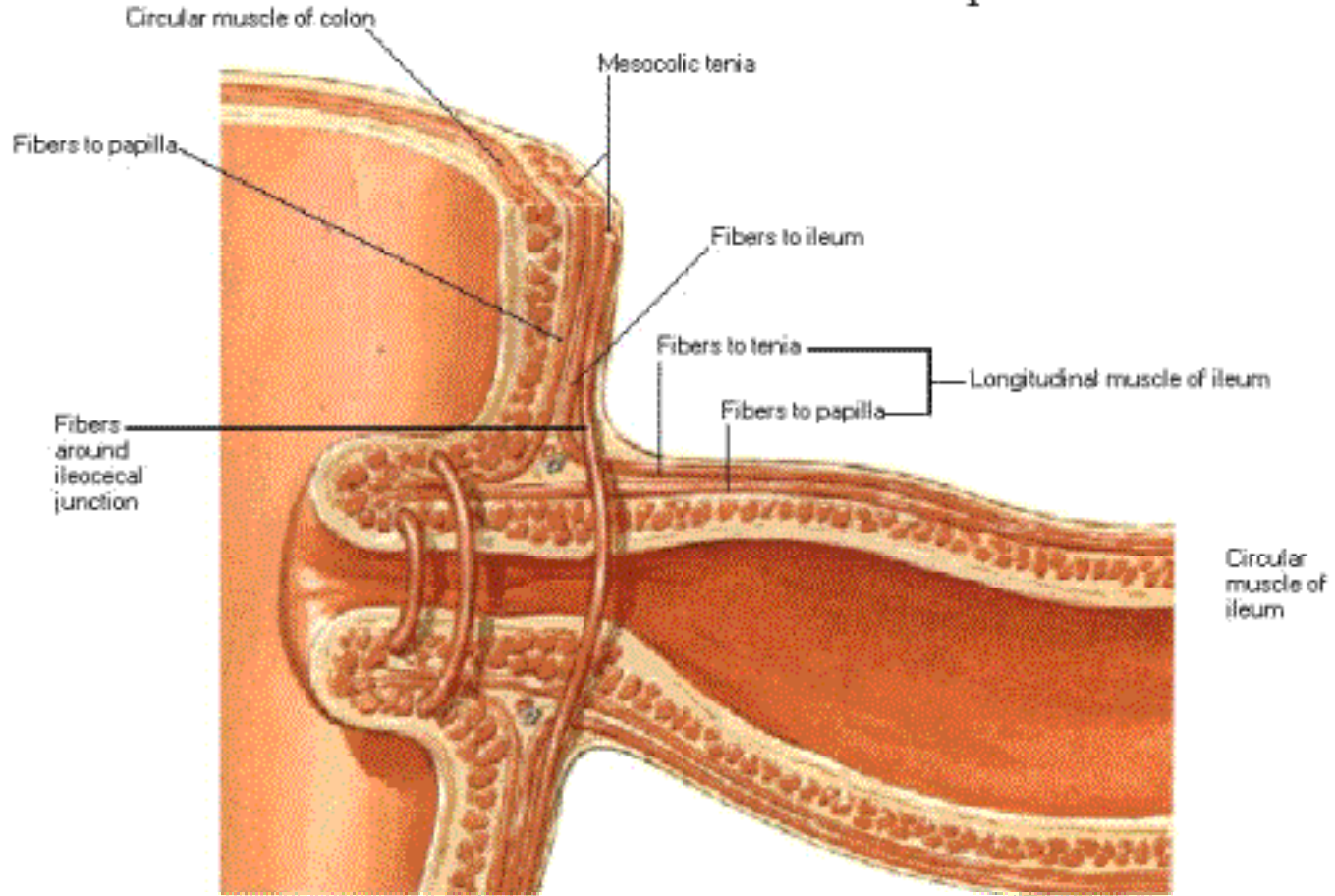
## Papillary Form of Ileocecal Sphincter

Papillary form of ileocecal sphincter  
(found most commonly in vivo)



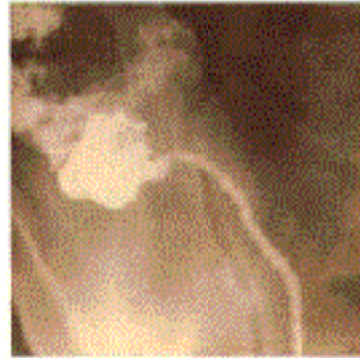
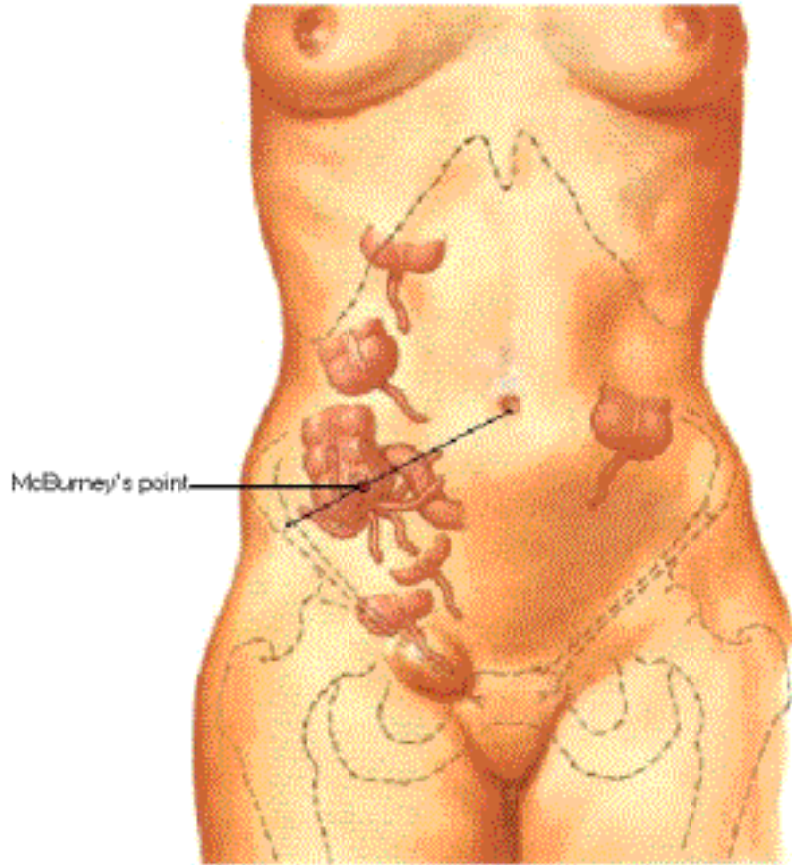
# Ileocecal Region

## Schema of Muscle Fibers at Ileocecal Sphincter



# Vermiform Appendix

## Variations in Position

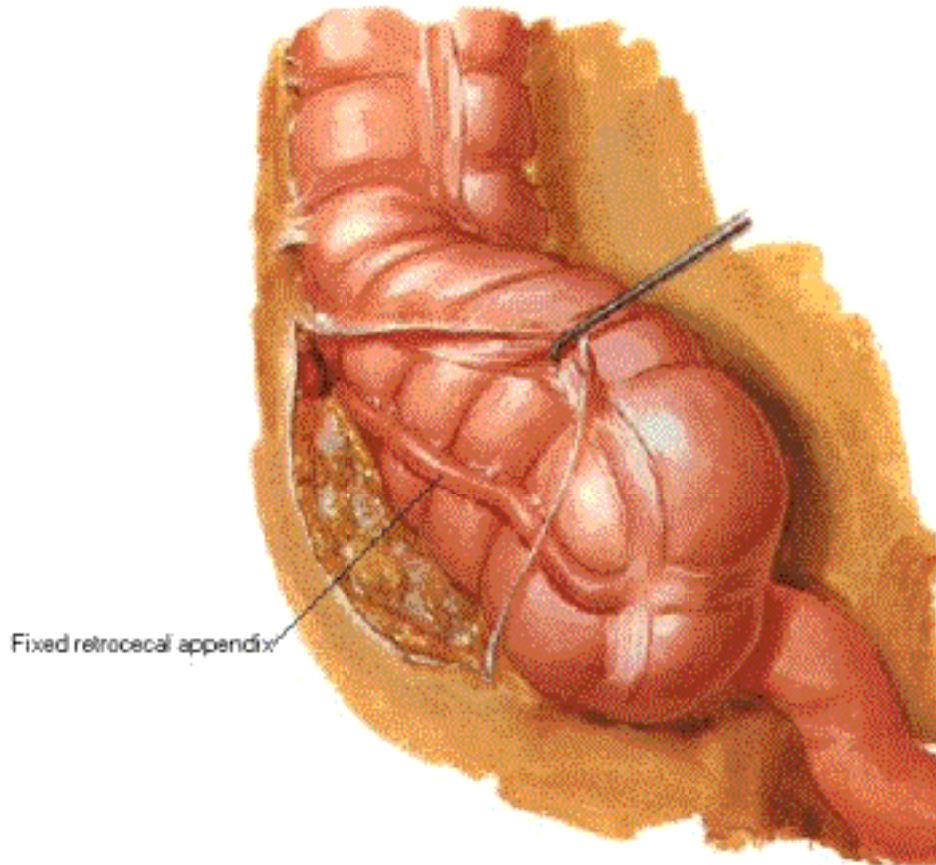


Unusually long appendix extending into pelvis (barium radiograph)

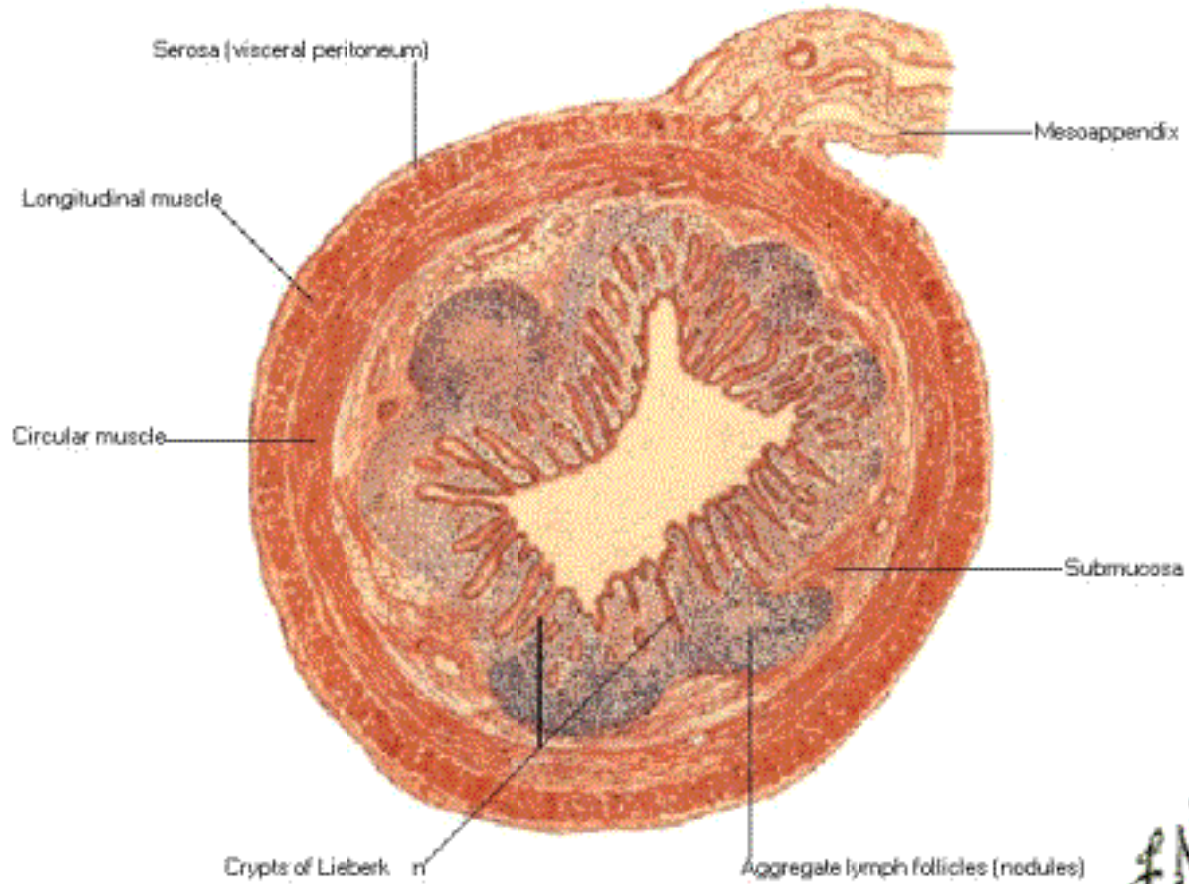


# Vermiform Appendix

Fixed Retrocecal

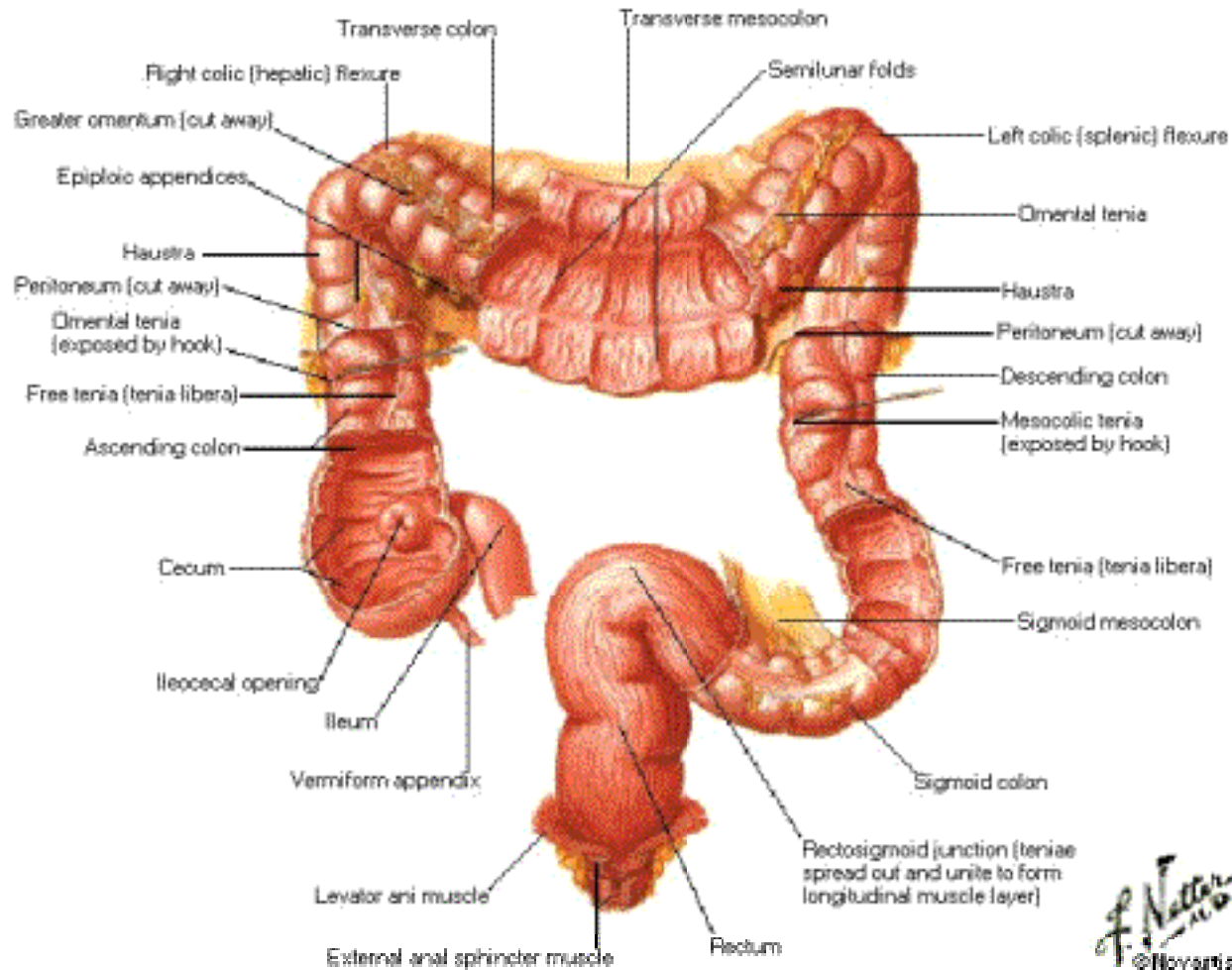


# Vermiform Appendix Cross Section



LN

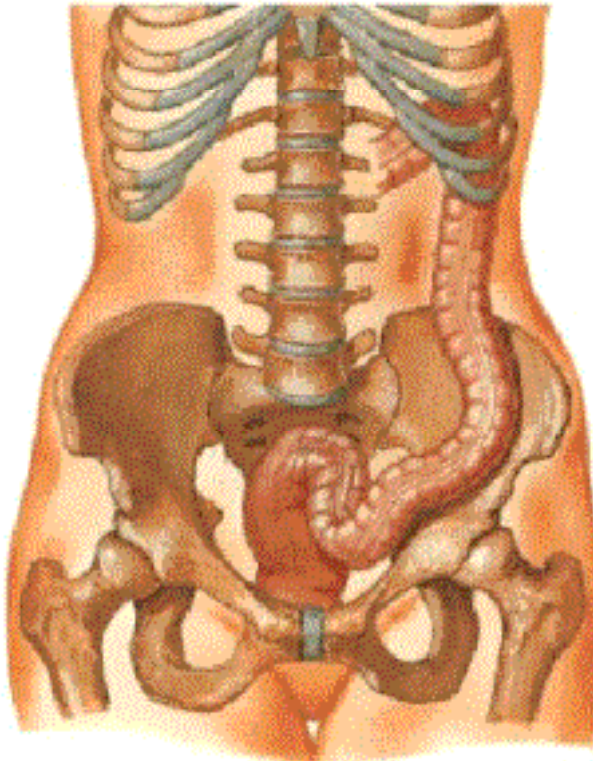
# Mucosa and Musculature of Large Intestine



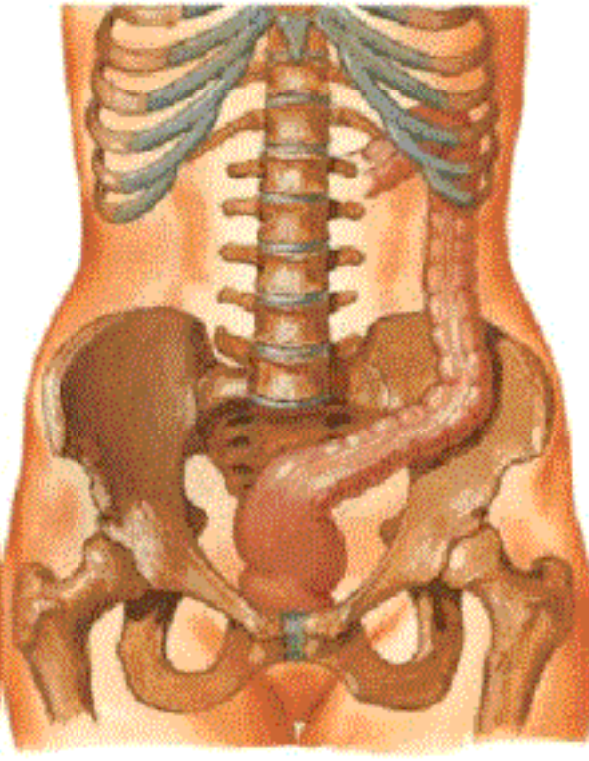
*F. Netter M.D.*  
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# Sigmoid Colon

## Variations in Position



Typical

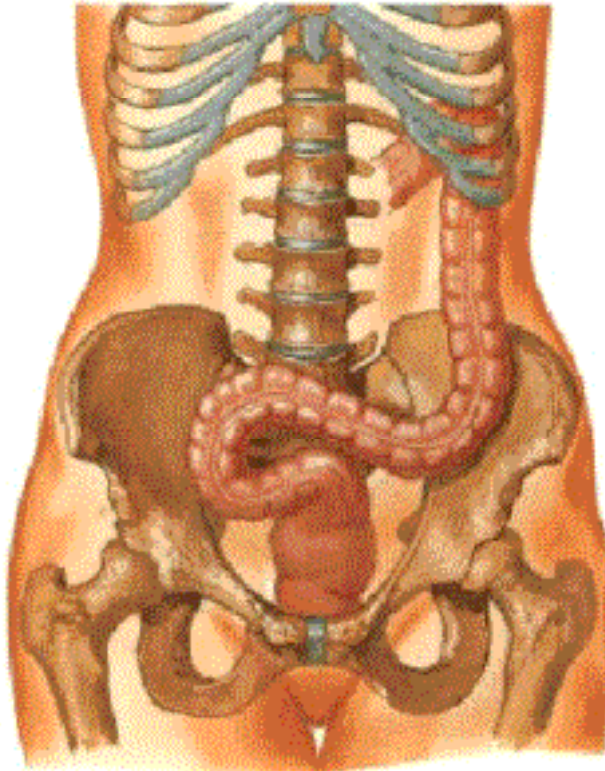


Short, straight, obliquely into pelvis

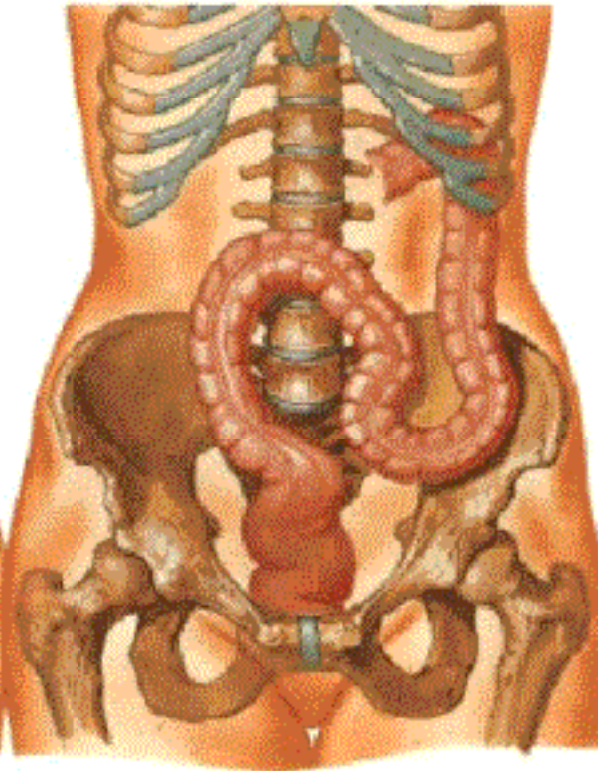


## **Sigmoid Colon [Continued]**

Variations in Position



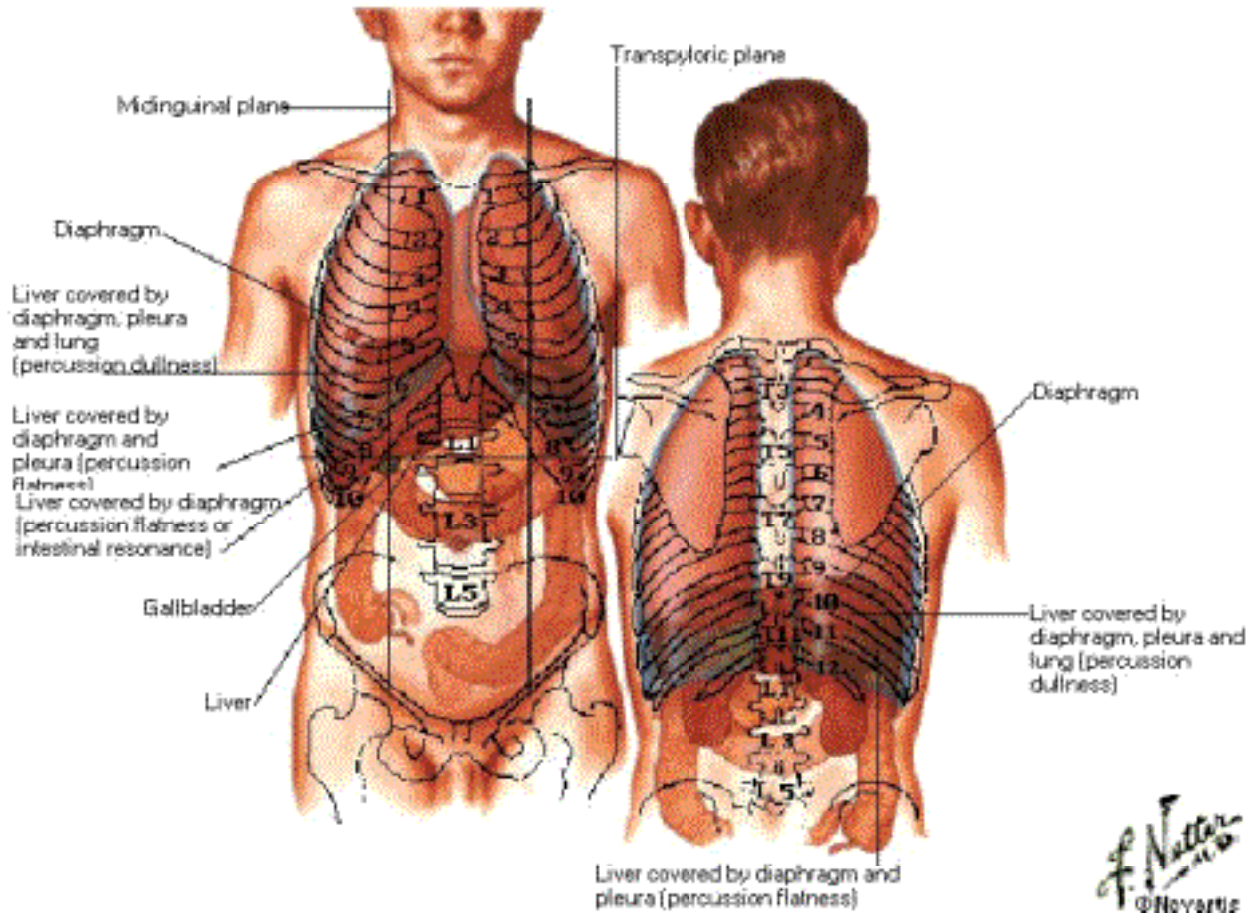
Looping to right side



Ascending high into abdomen

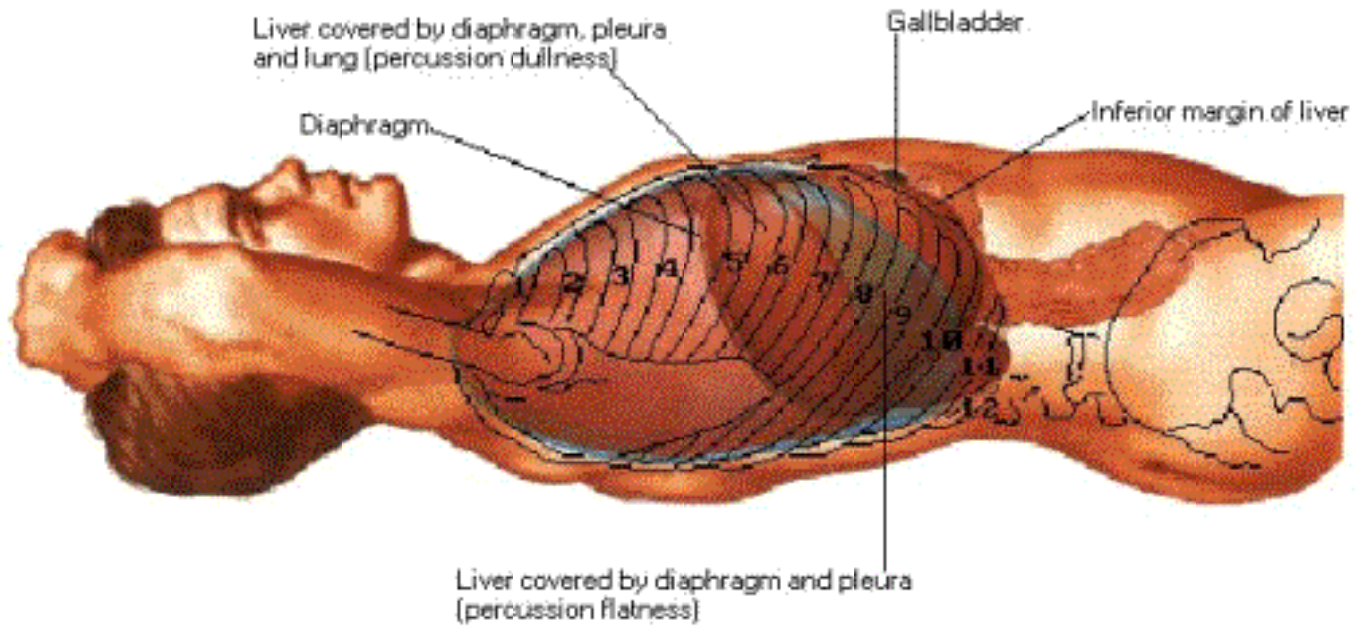
# Topography of Liver

## Anterior and Posterior Views



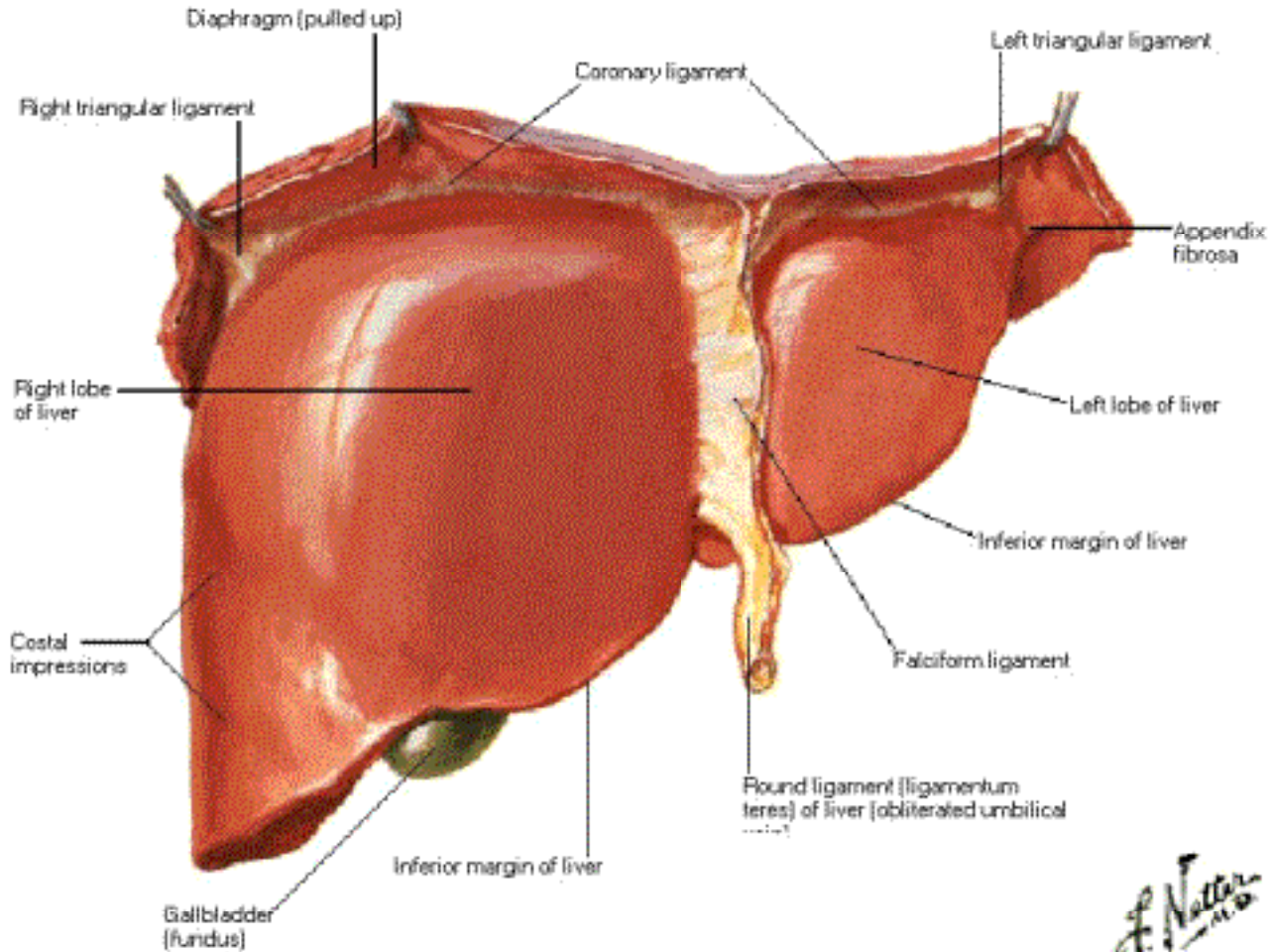
# Topography of Liver

## Lateral View



# Surfaces and Bed of Liver

## Anterior View

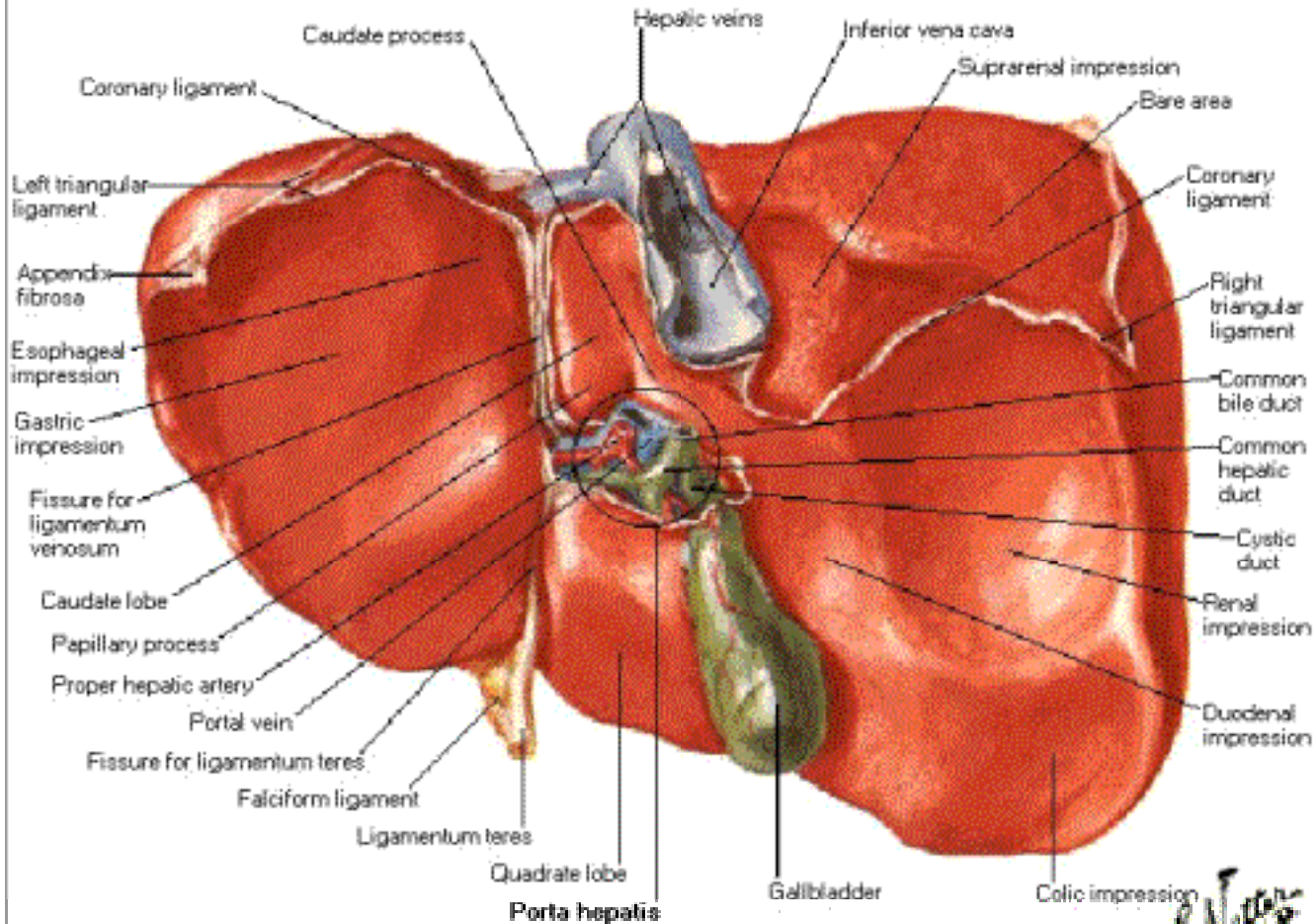


*F. Netter M.D.*



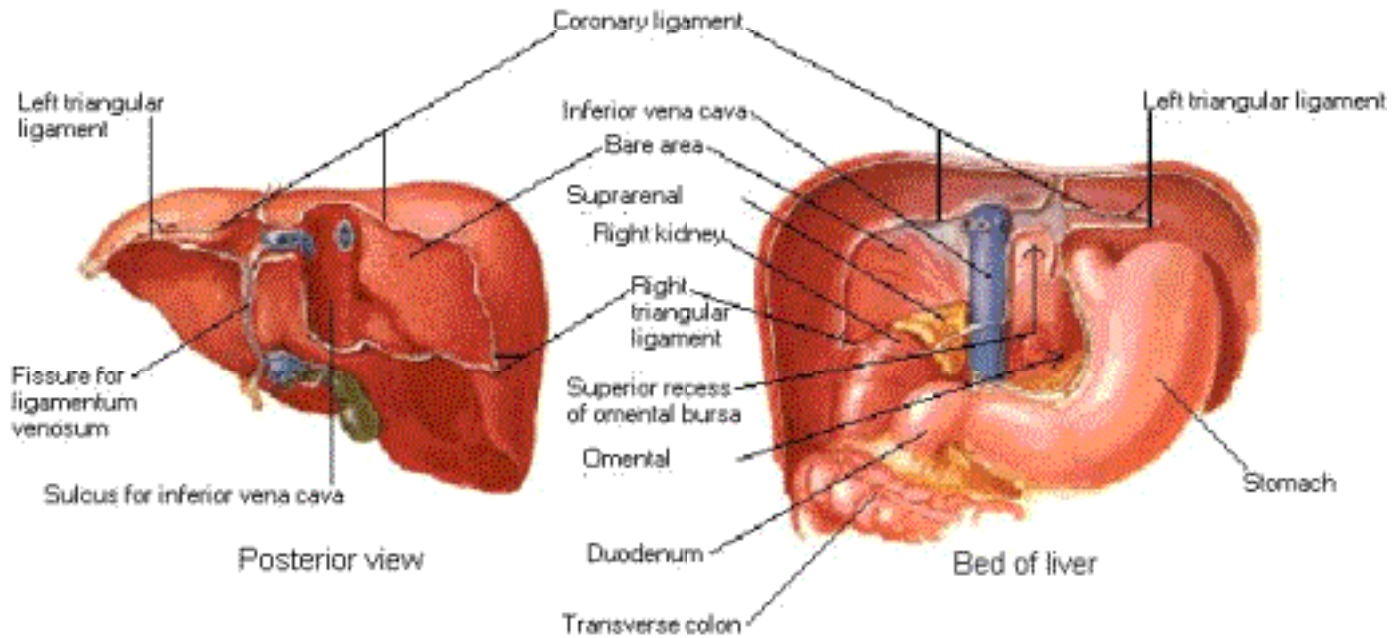
# Surfaces and Bed of Liver

## Visceral Surface

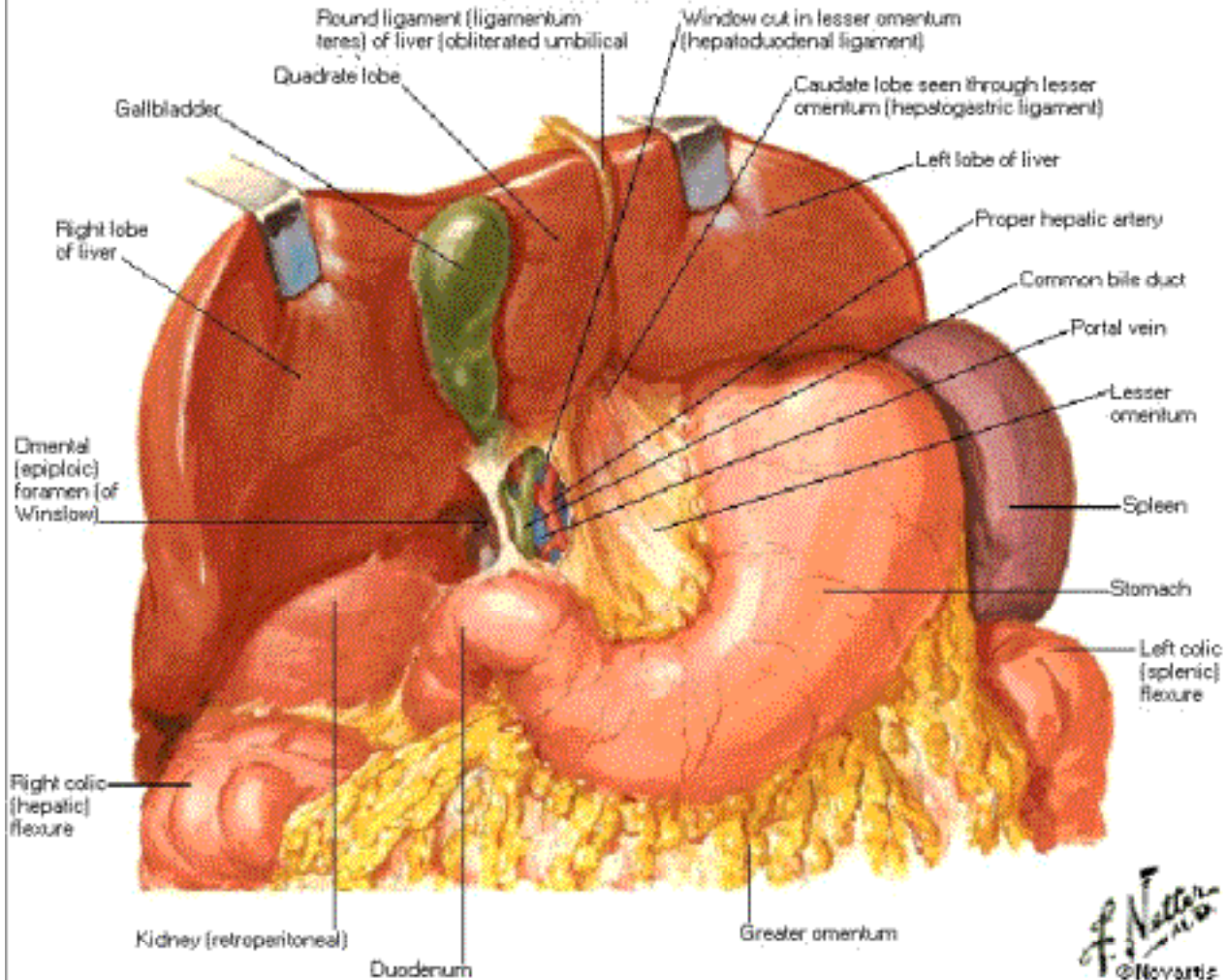


# Surfaces and Bed of Liver

## 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"

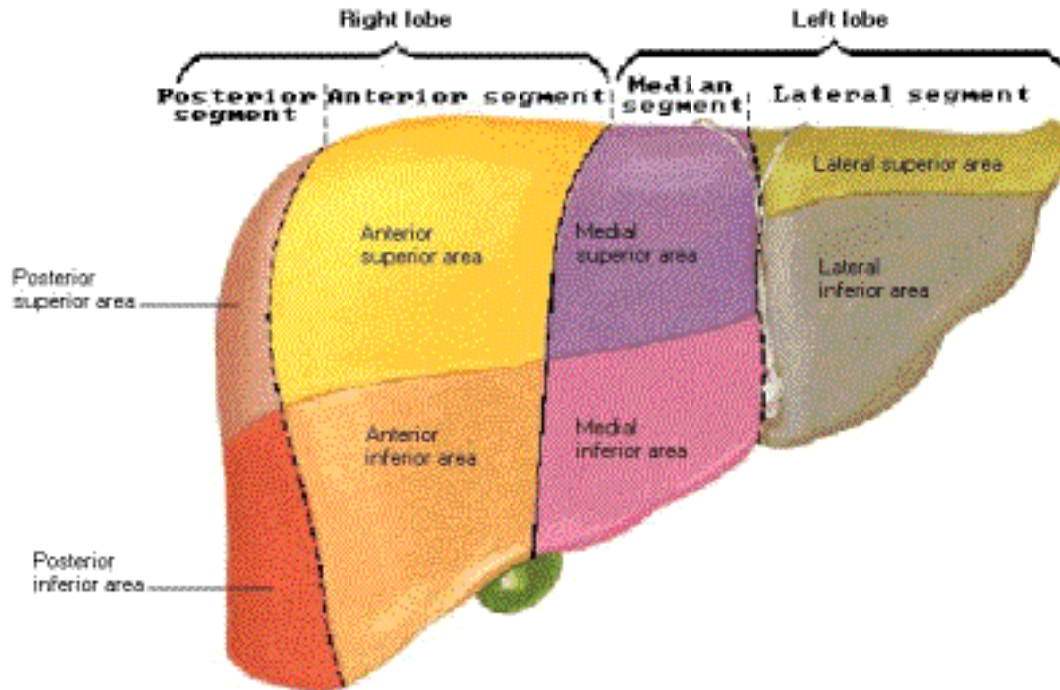


Diaphragmatic  
grooves.



# Liver Segments and Lobules

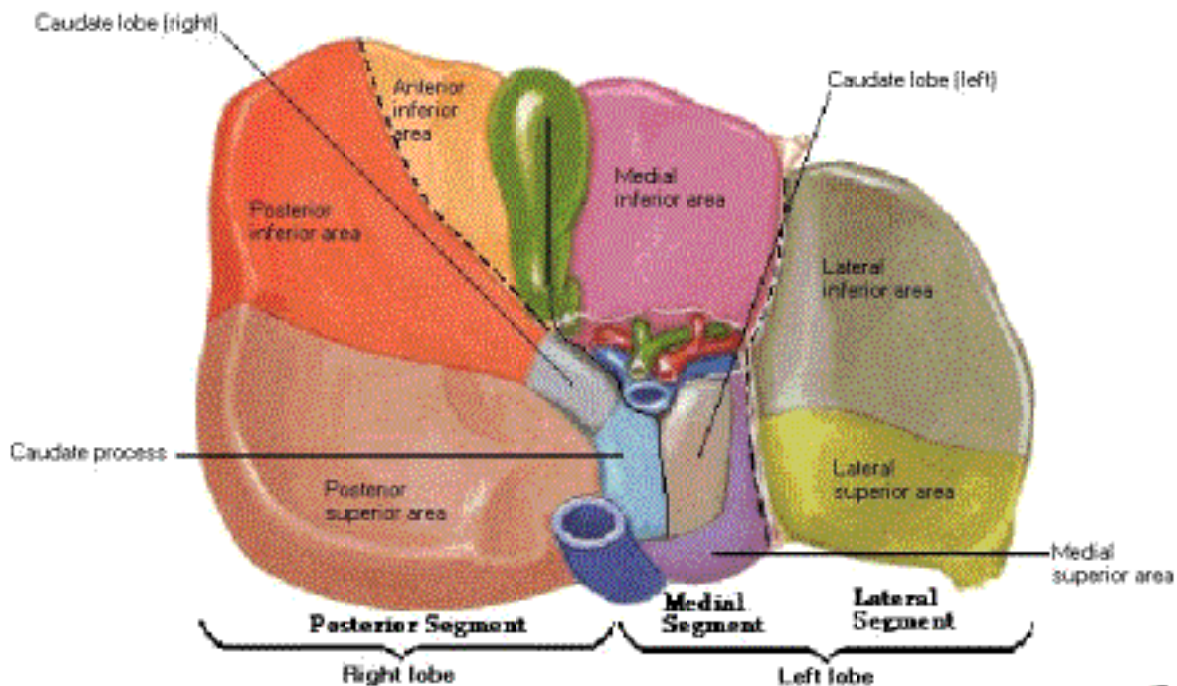
## Parietal Surface



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

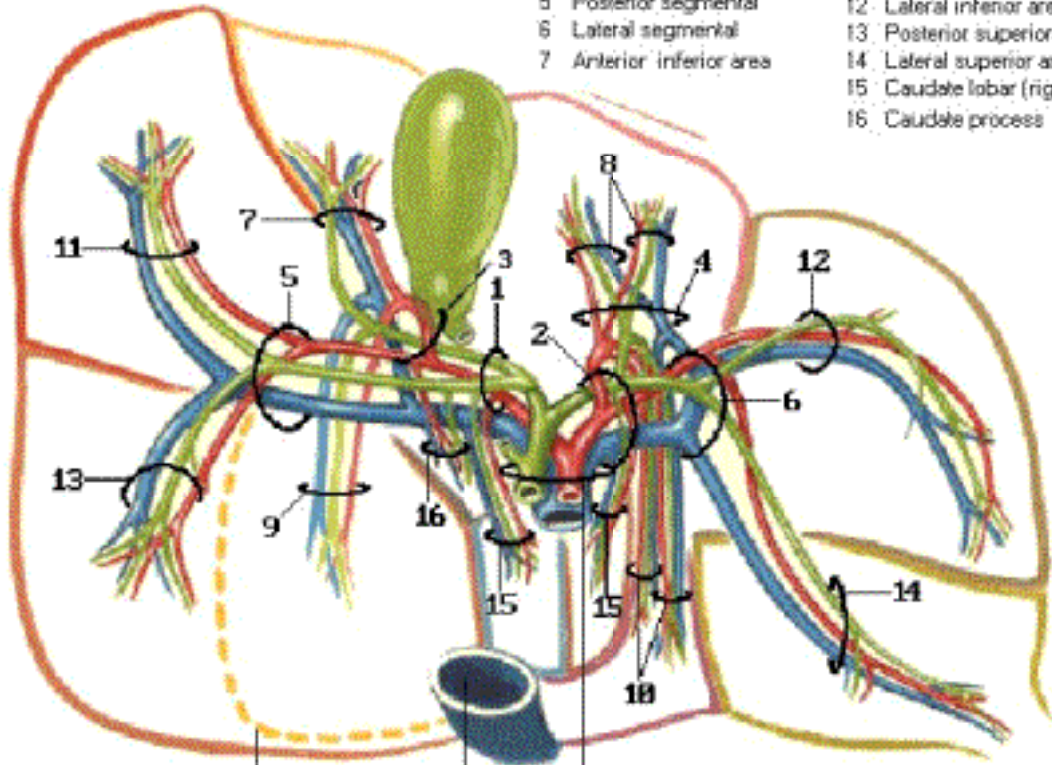
## Visceral Surface



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

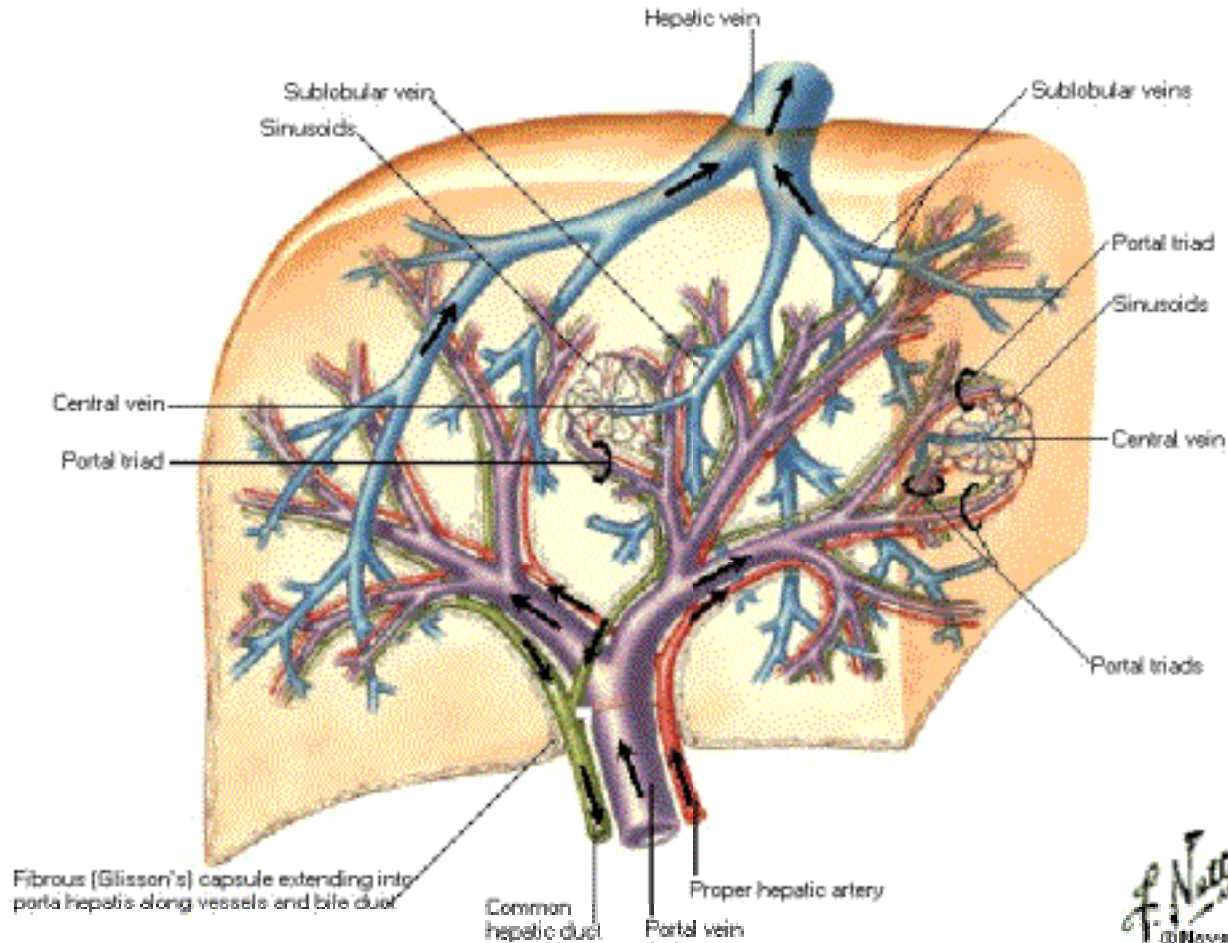


Phantom division between anterior and posterior superior areas

Inferior vena cava  
Common hepatic duct, portal vein and proper hepatic artery

*F. Netter M.D.*

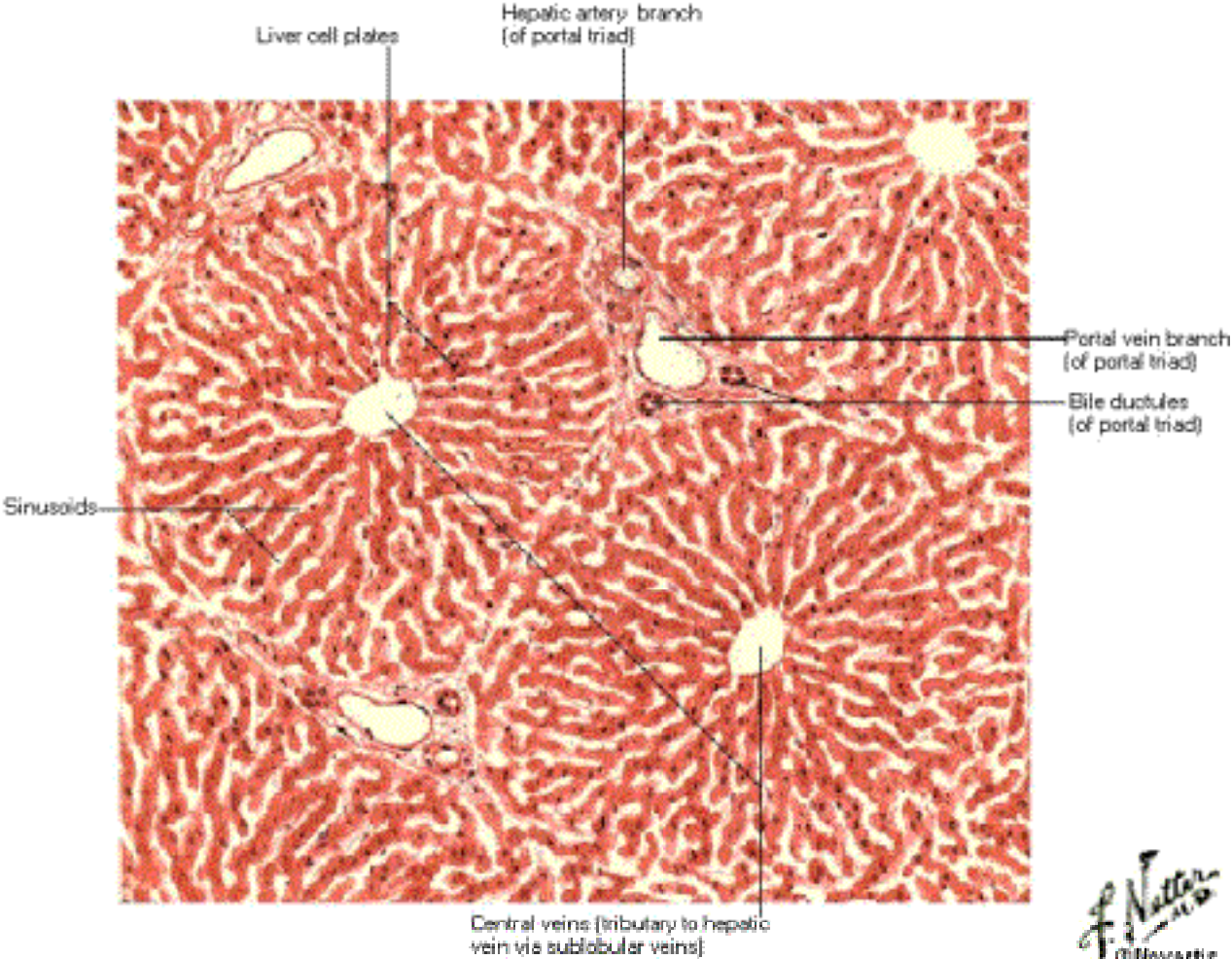
# Intrahepatic Vascular and Duct Systems Schema



*F. Netter M.D.*  
© Elsevier

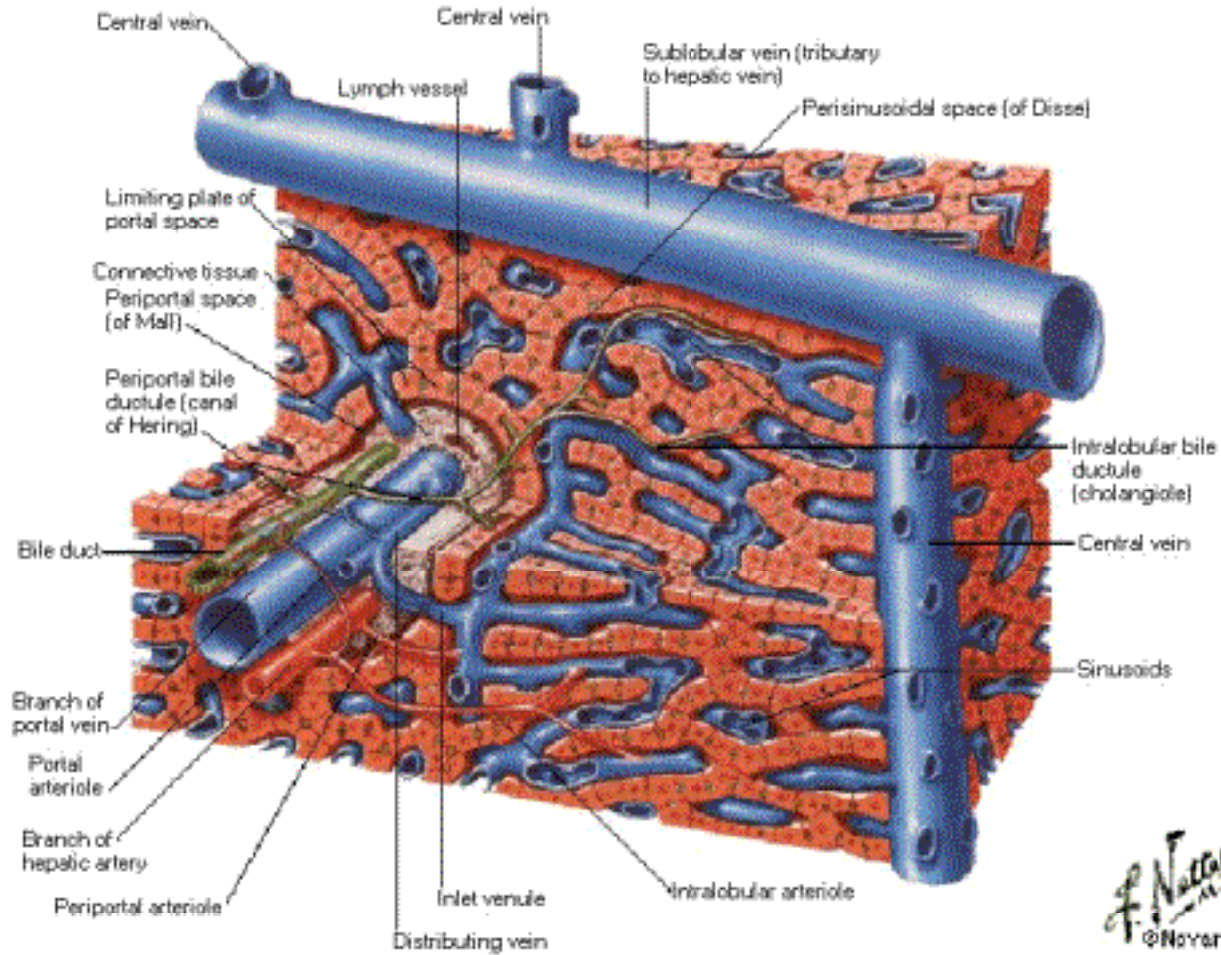


# Normal Lobular Pattern of Liver



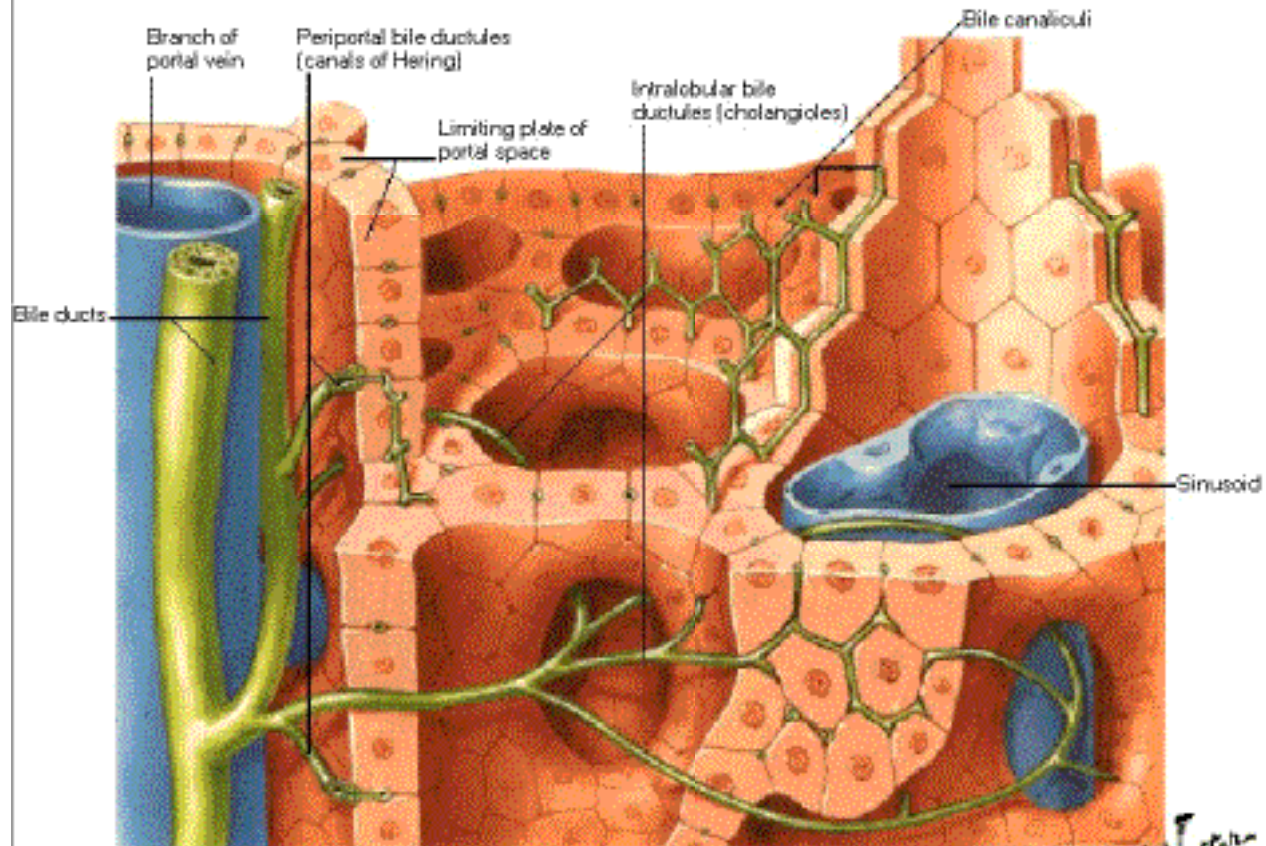
*F. Natter*  
© Novartis

# Liver Structure Schema



F. Netter  
© Novartis

# Intrahepatic Biliary System Schema



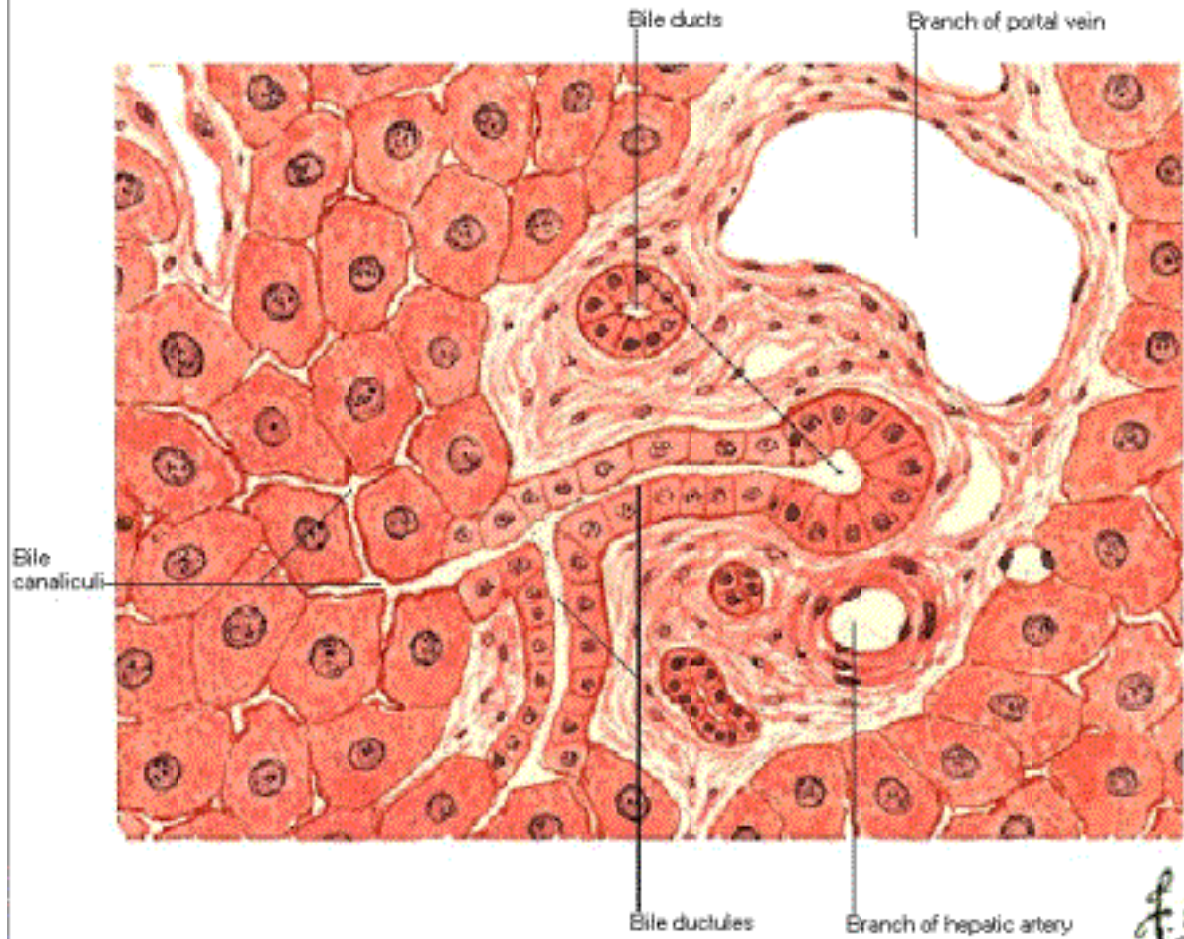
Note: in this illustration, bile canaliculi appear as structures with walls of their own. However, as shown in image 275B, boundaries of canaliculi are actually a specialization of surface membranes of adjoining liver parenchymal cells

*F. Netter*  
© 1996



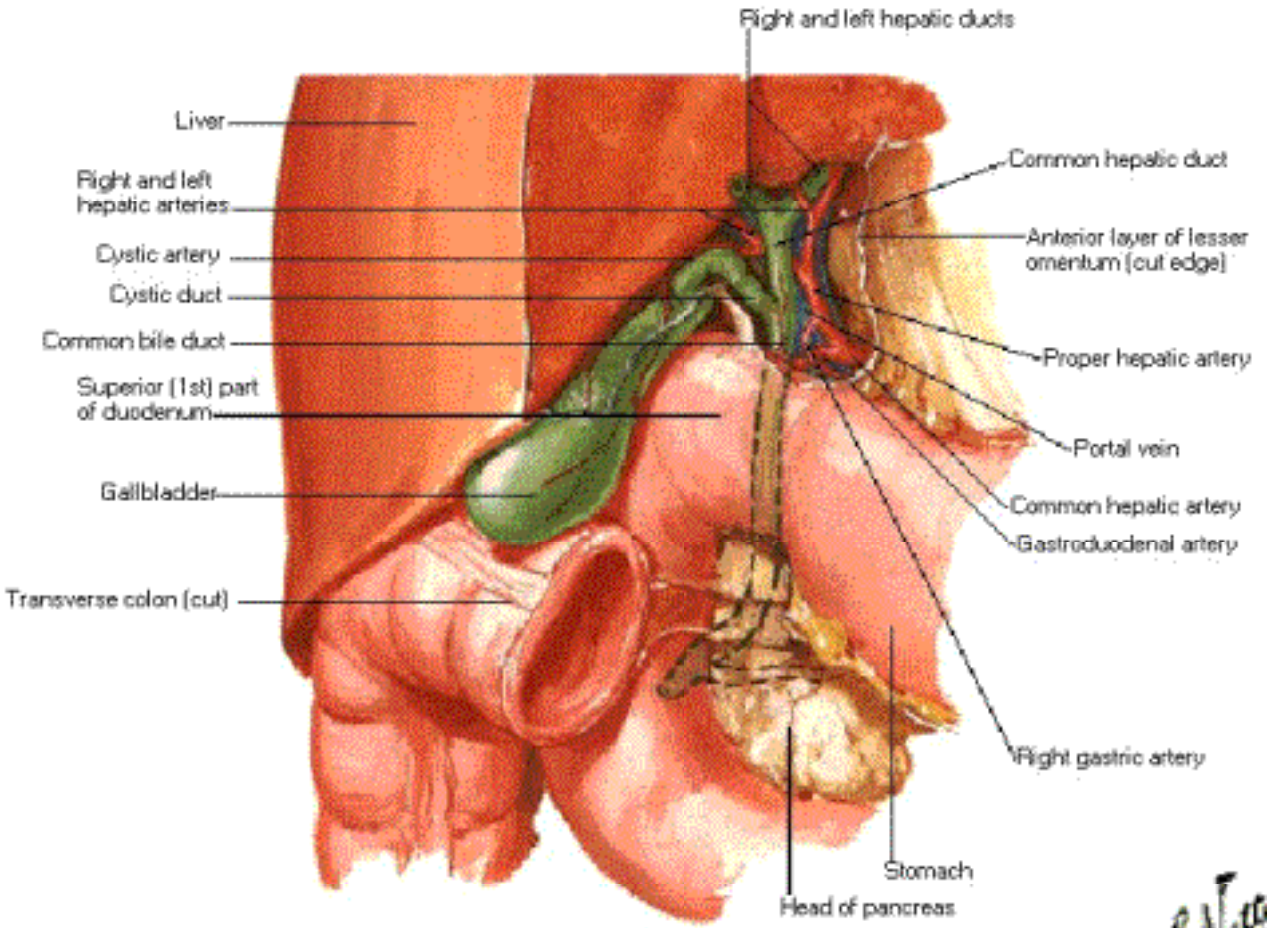
# Intrahepatic Biliary System

## Histology



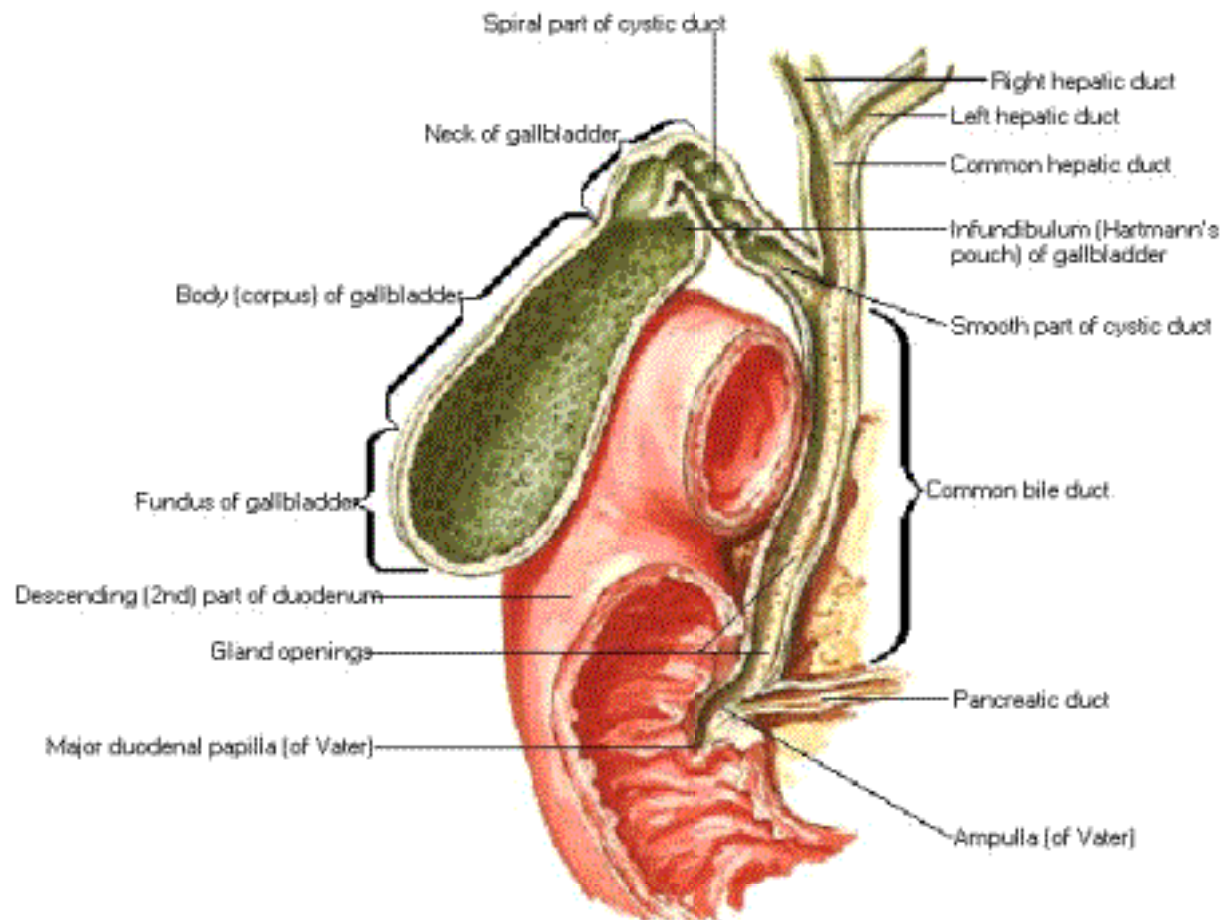


# Gallbladder and Extrahepatic Bile Ducts



01.10

# Gallbladder and Extrahepatic Bile Ducts Sectioned



## Variations in Cystic Duct

Low union with  
common  
hepatic duct



Adherent to  
common hepatic  
duct



High union with  
common hepatic  
duct



Cystic duct  
absent or  
very short



Anterior spiral  
joining common  
hepatic duct on left  
side



Posterior spiral  
joining common  
hepatic duct on left  
side

# Variations in Accessory [Aberrant] Hepatic Ducts

Joining  
common  
hepatic duct



Joining cystic  
duct



Joining  
common  
bile duct



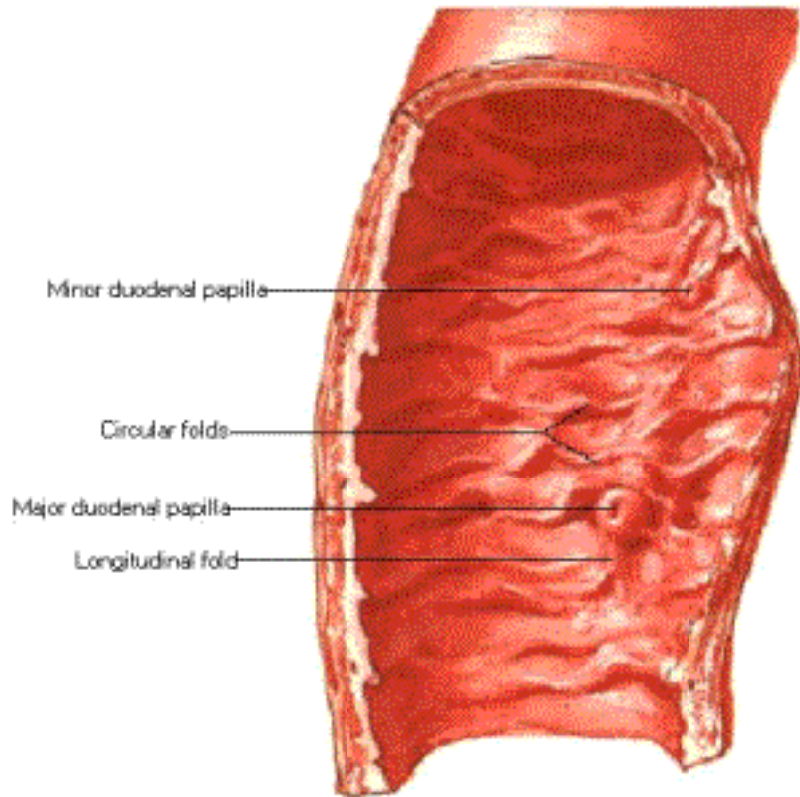
Joining  
gallbladder



Two accessory  
hepatic ducts



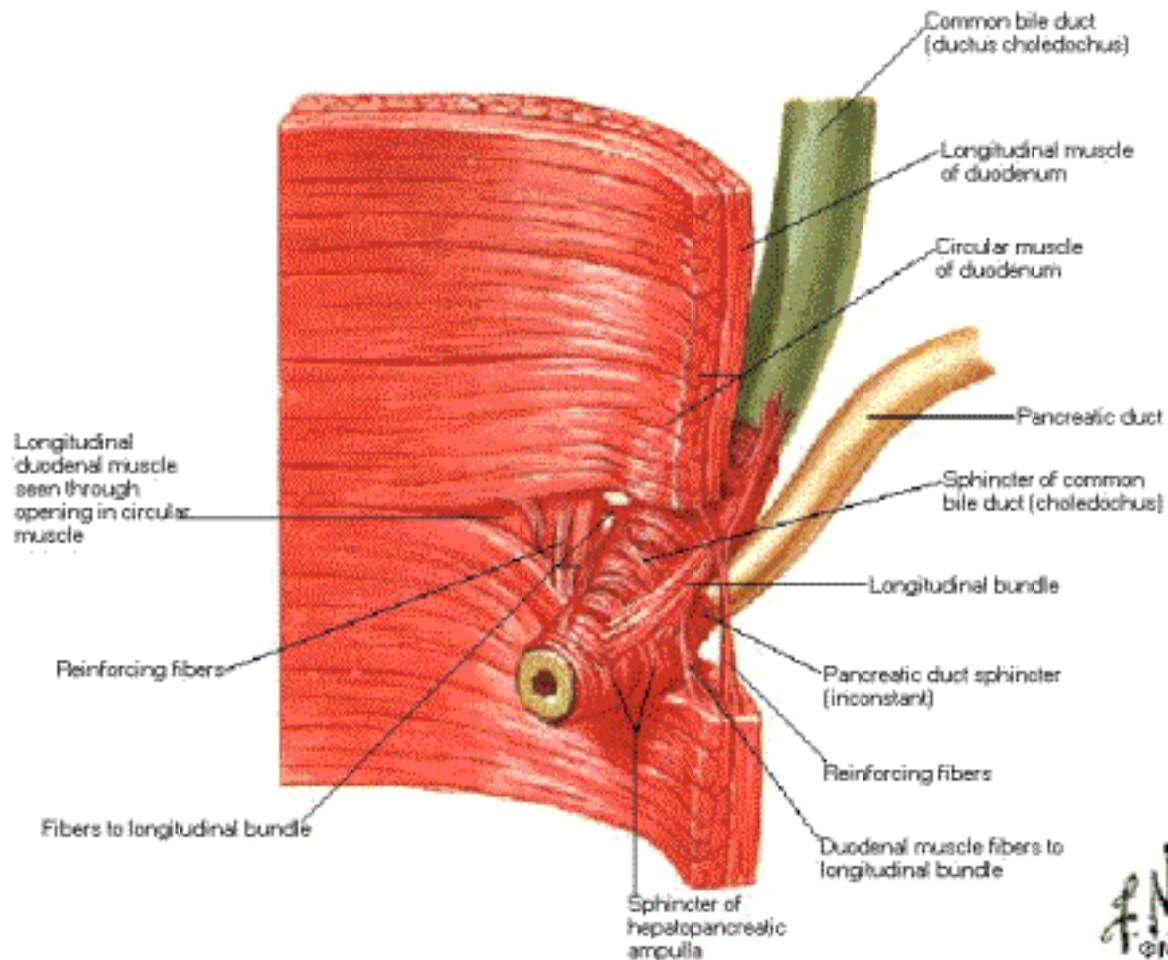
## Choledochoduodenal Junction



Interior of descending (2nd) part of duodenum

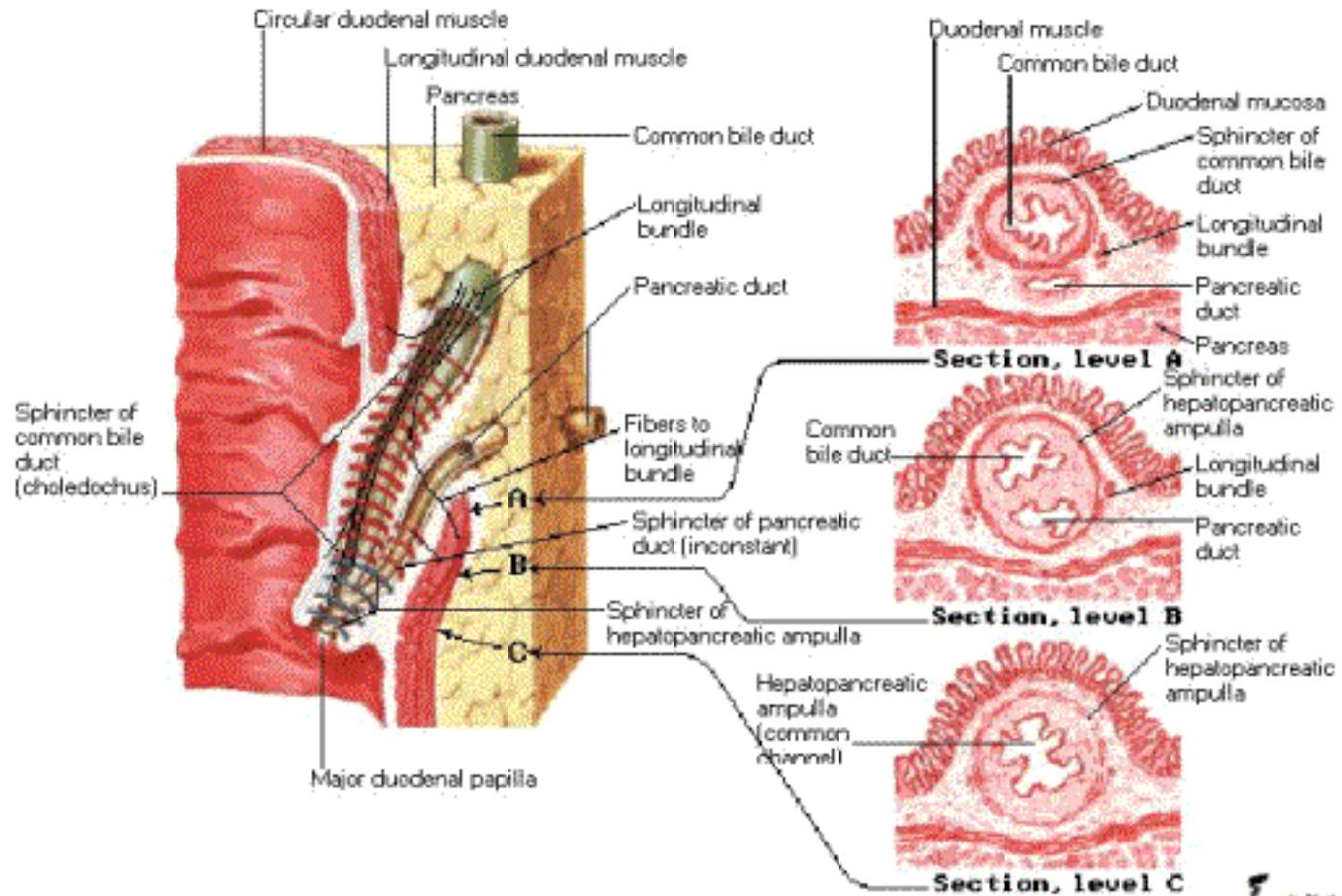
# Choledochoduodenal Junction

## Dissection



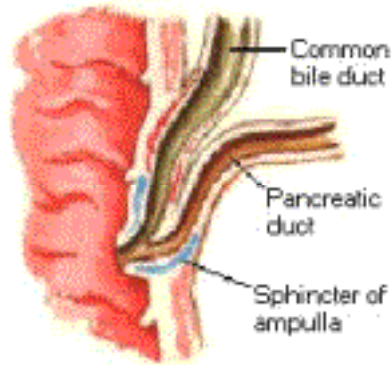
FN  
©11

# Choledochoduodenal Junction Reconstruction

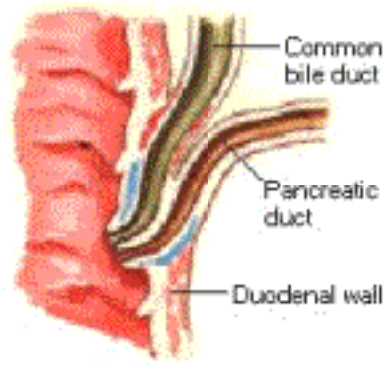


# Variations in Union of Bile and Pancreatic Ducts

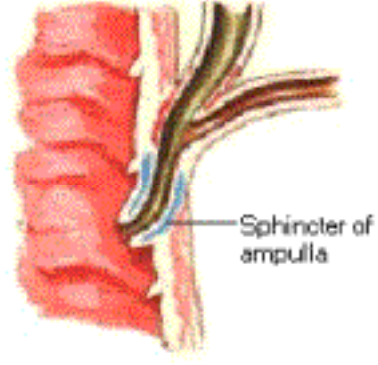
Short common channel



No common channel

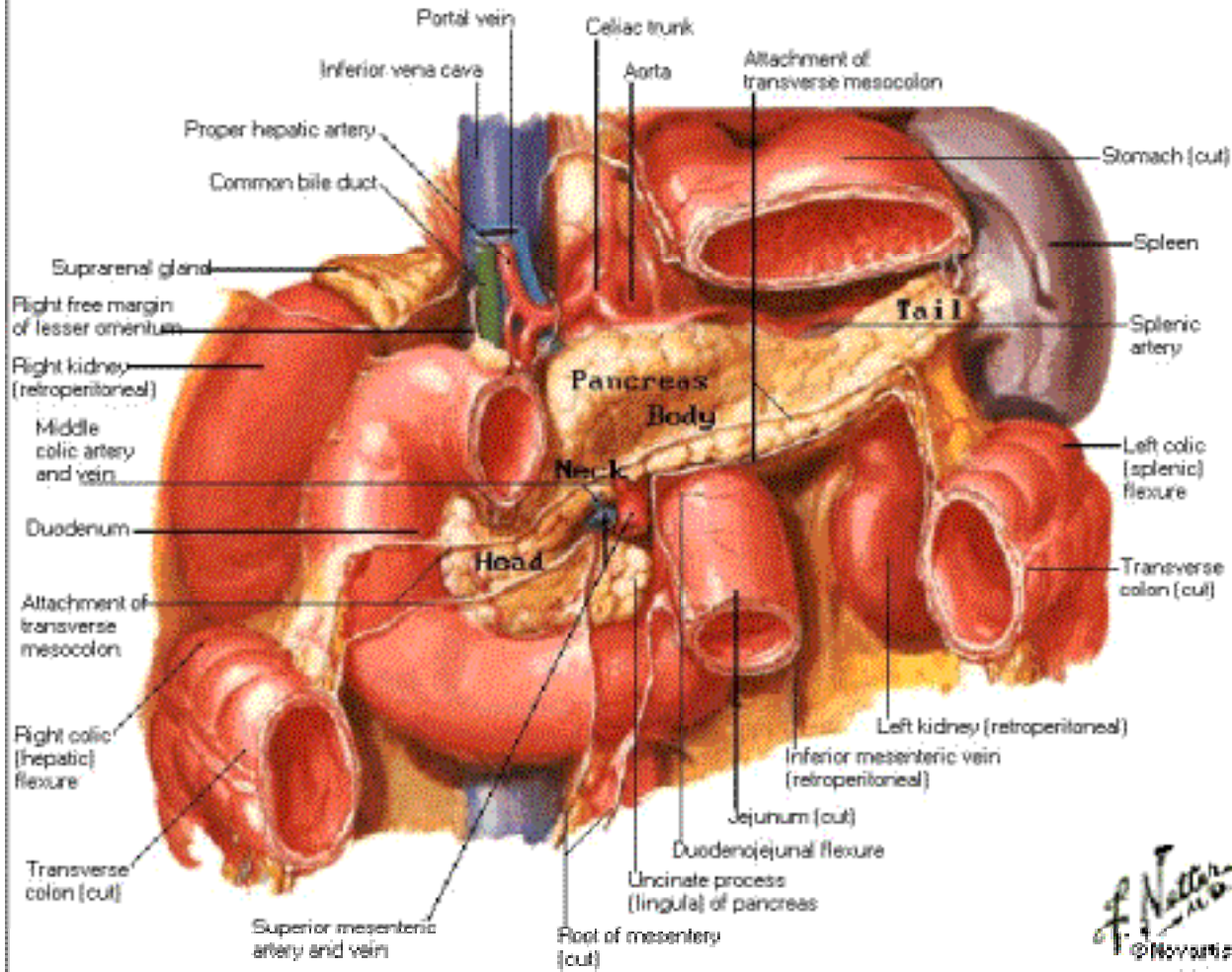


Long common channel



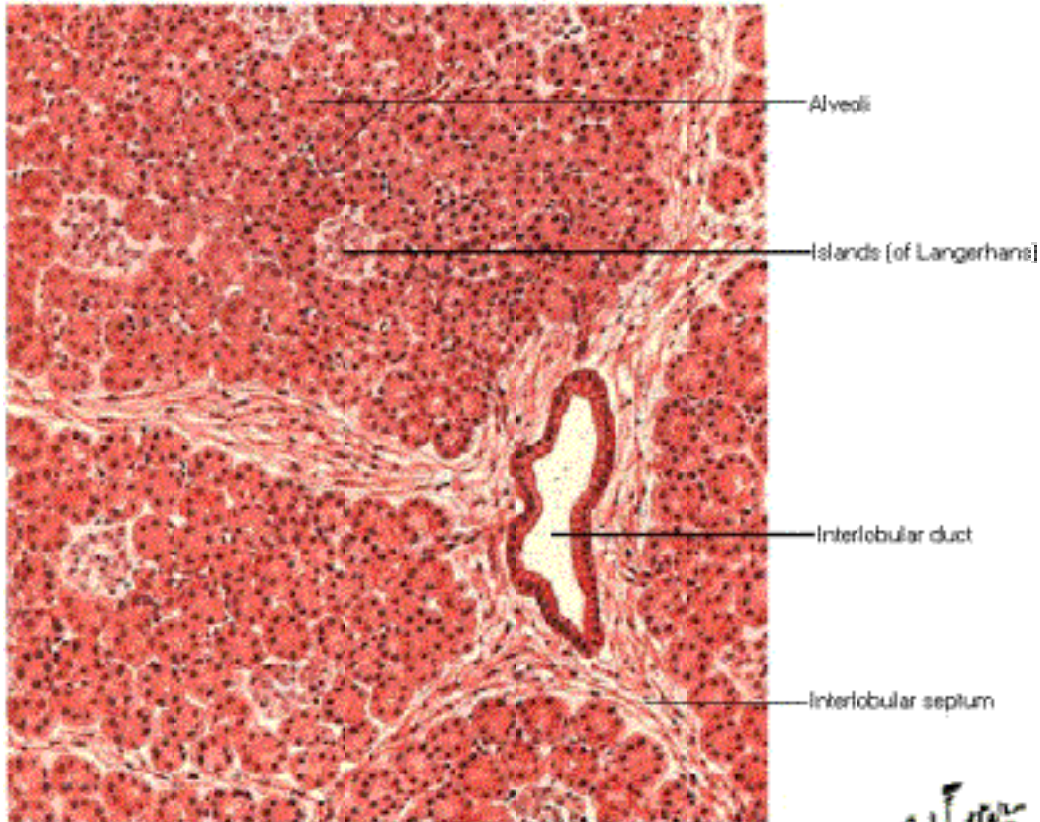


# Pancreas in Situ



# Pancreas

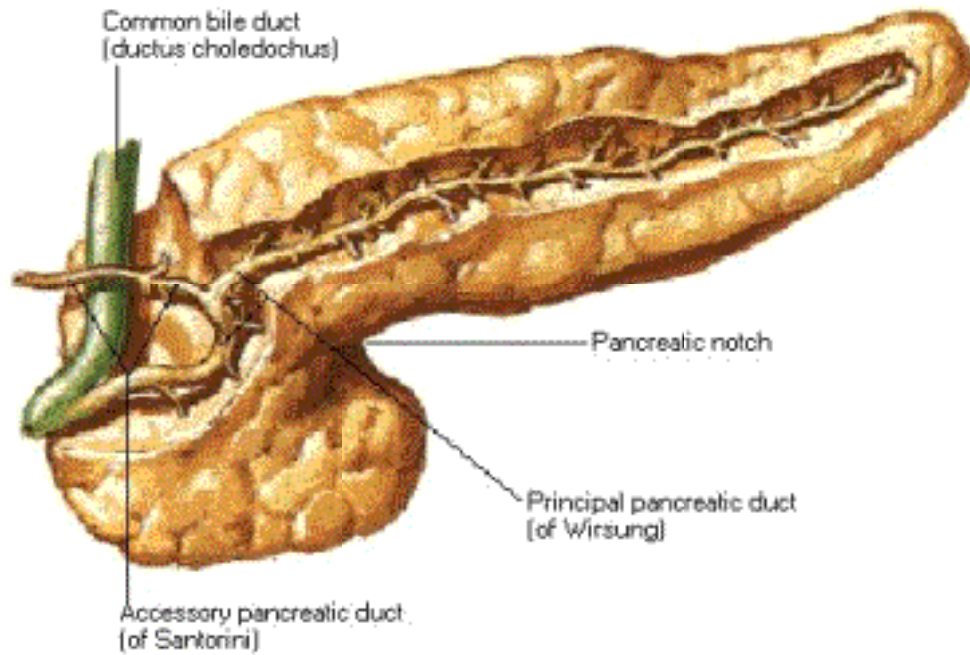
## Histology



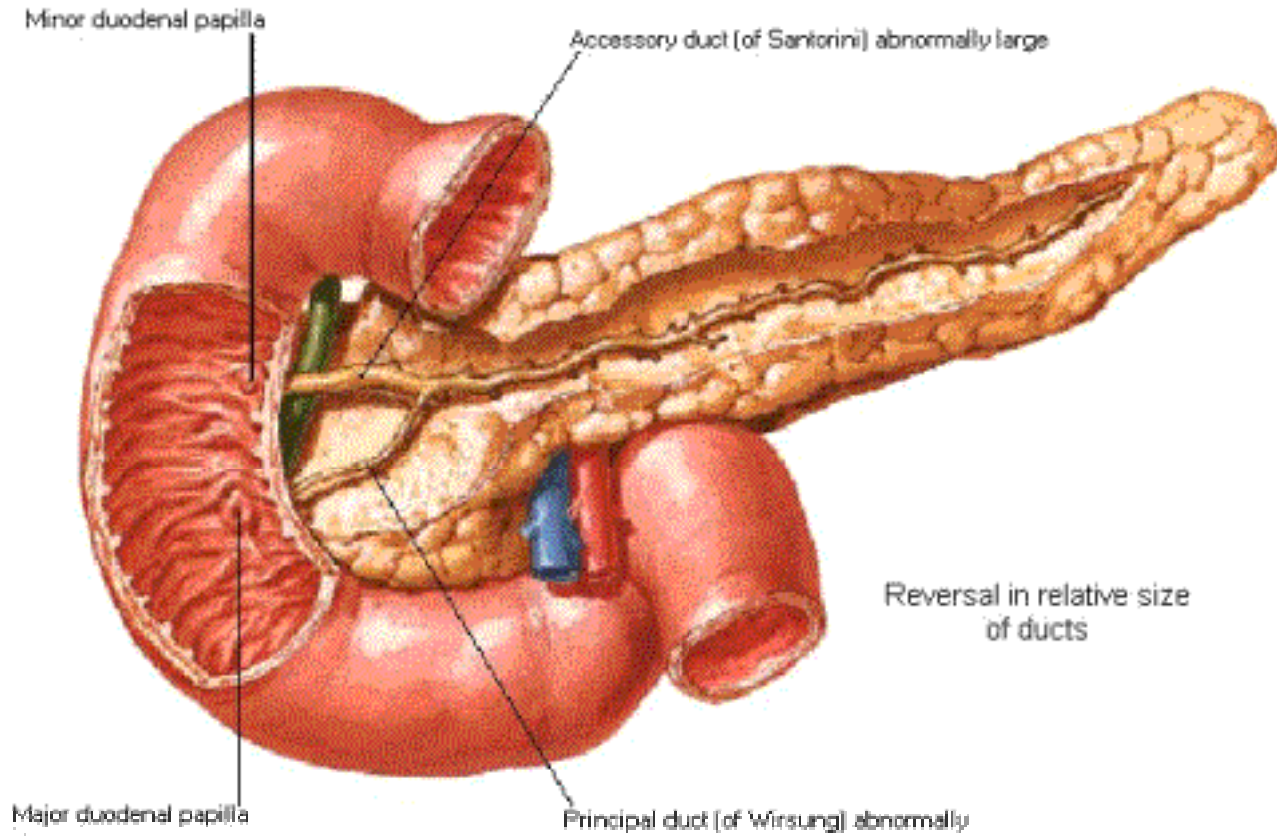
Low-power section of pancreas

*F. Netter M.D.*

# Pancreas



## Variations in Pancreatic Ducts





## Variations in Pancreatic Ducts [Continued]



Double accessory duct (of Santorini)



Anastomosis between ducts



Crossing ducts



Double crossing of ducts



No communication between ducts



Double principal duct (of Wirsung)



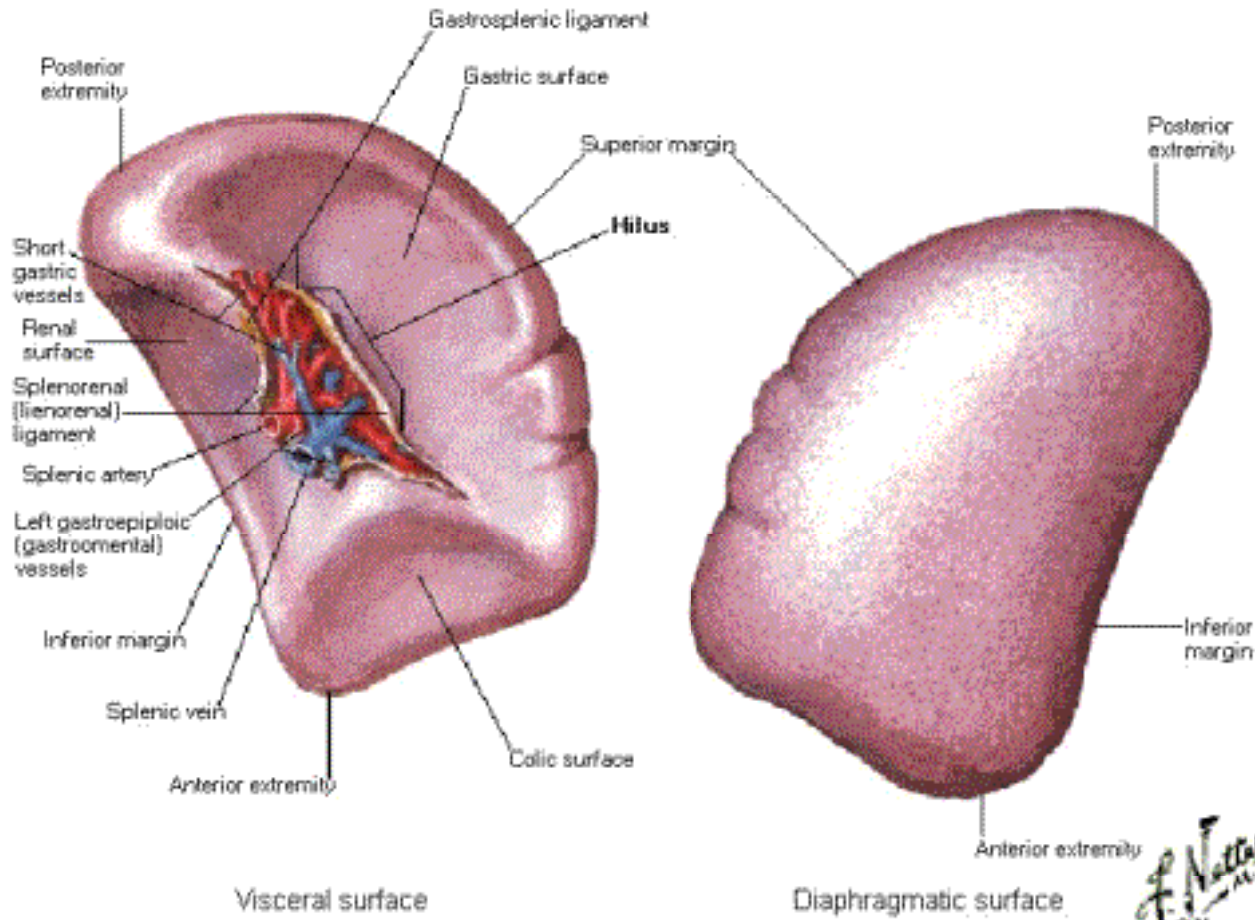
Tortuosity of ducts



Absence of accessory duct (of Santorini)

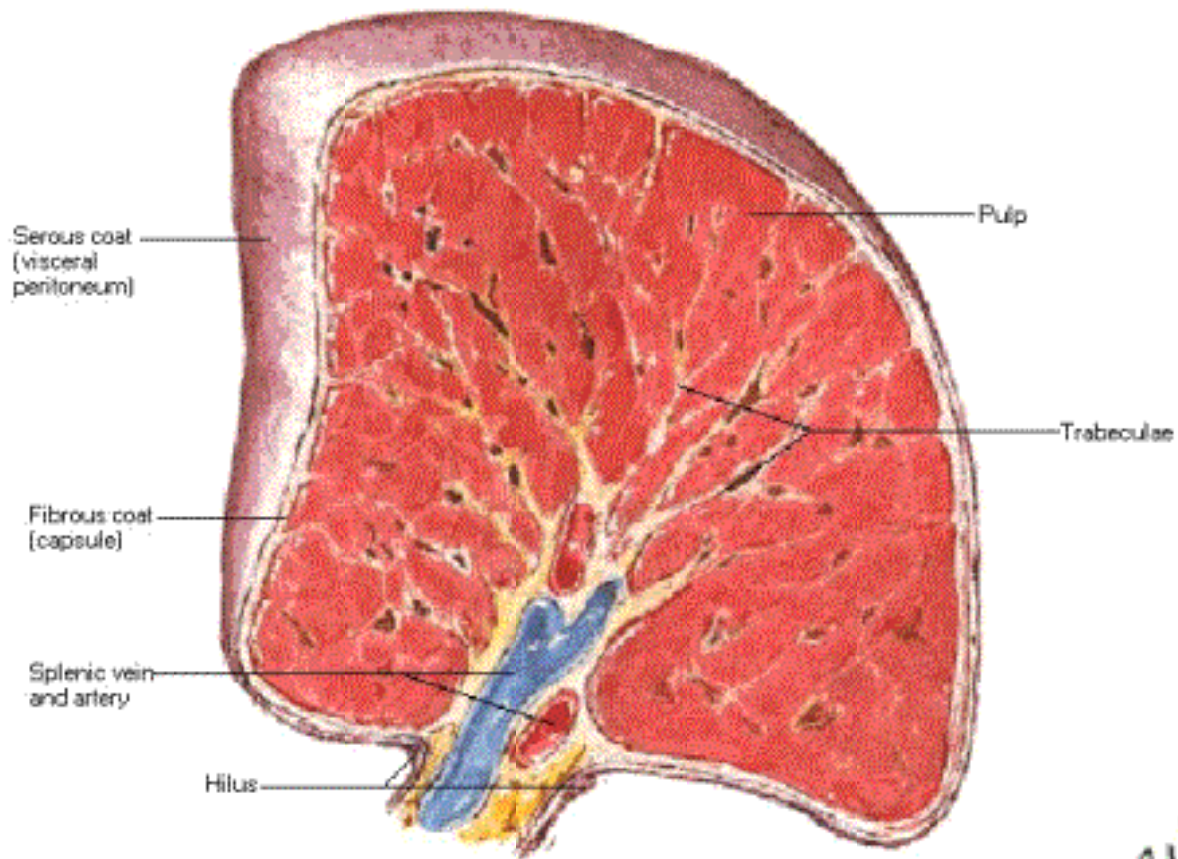
# Spleen

## Visceral and Diaphragmatic Surfaces

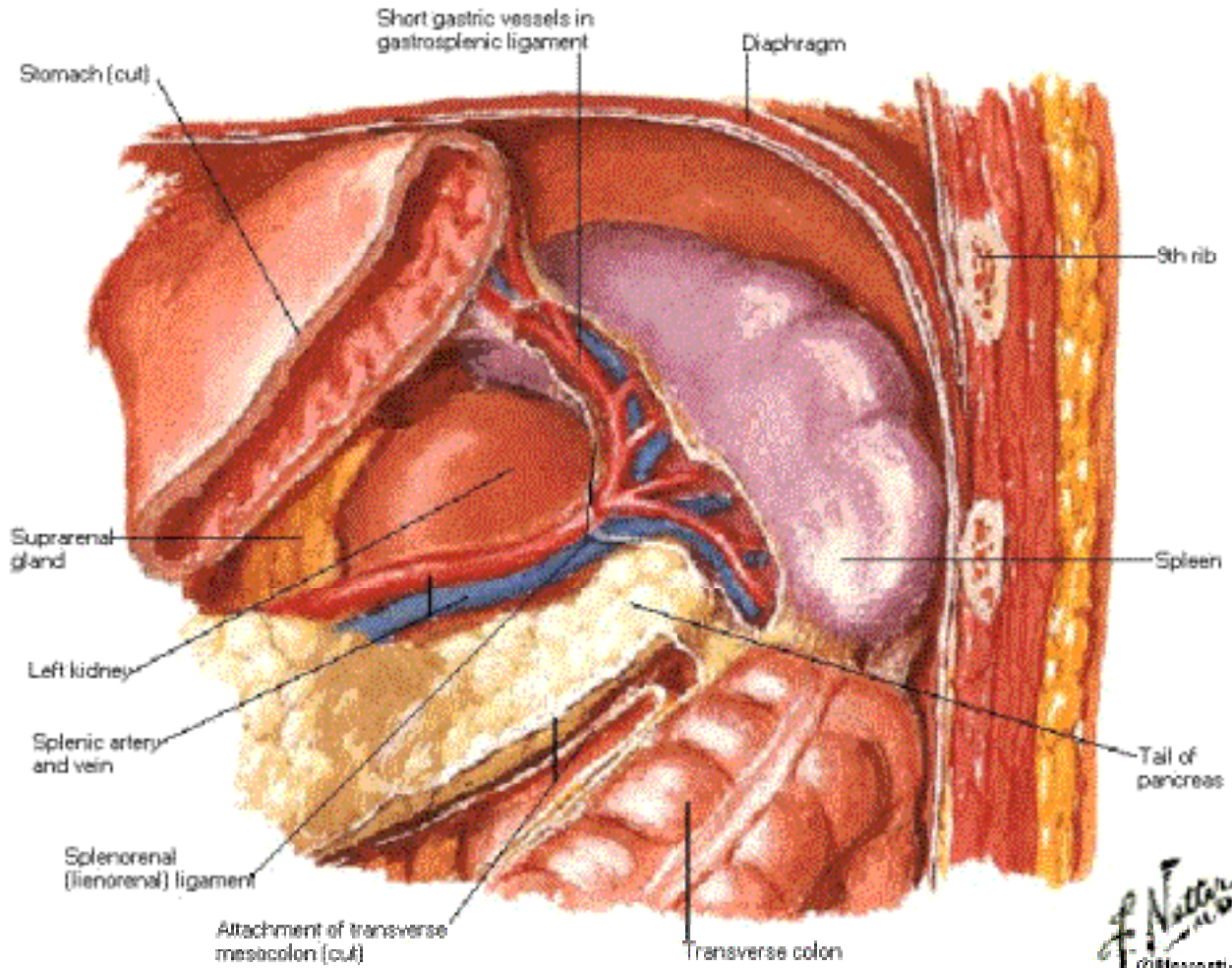


# Spleen

## Cross Section

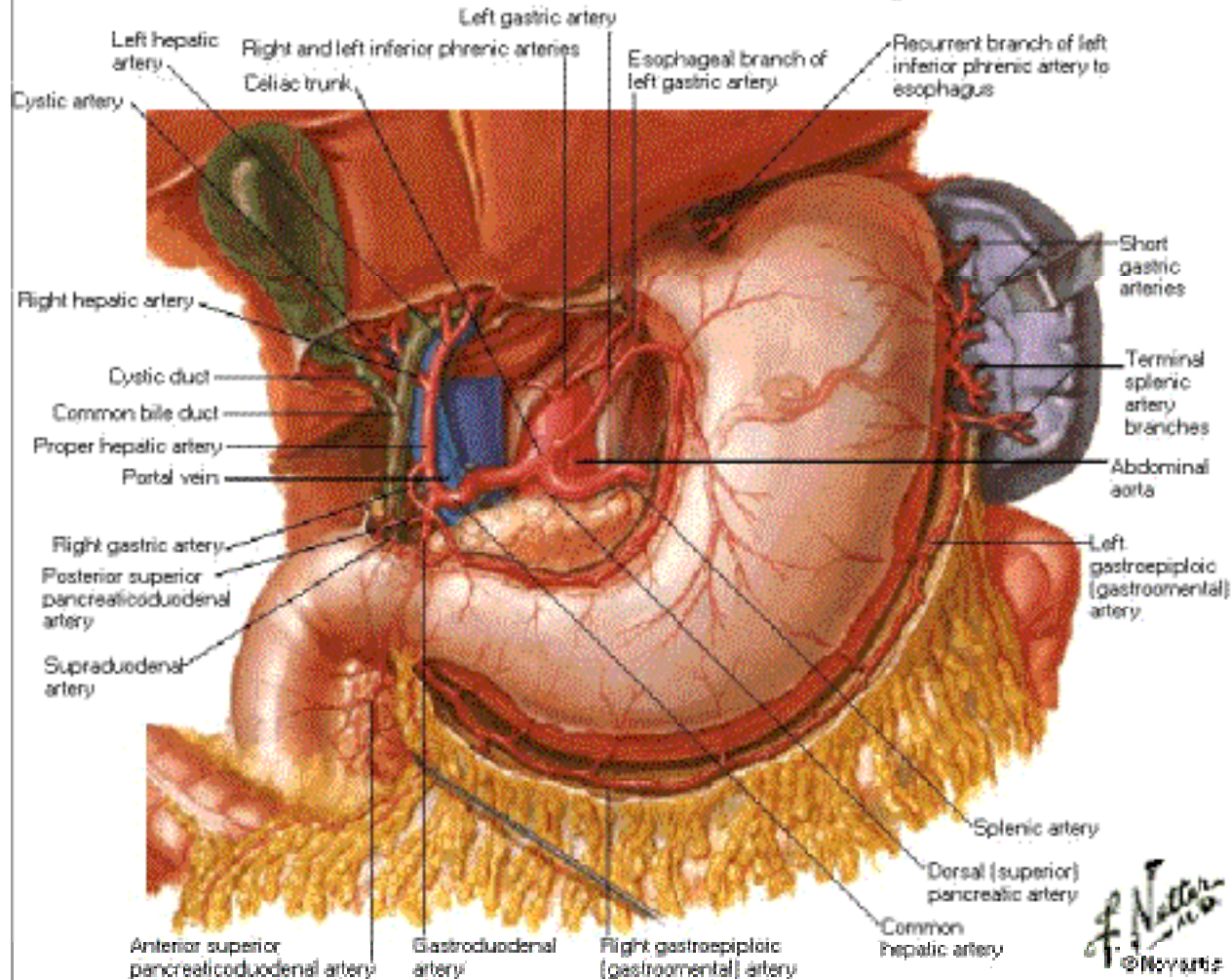


# Spleen in Situ

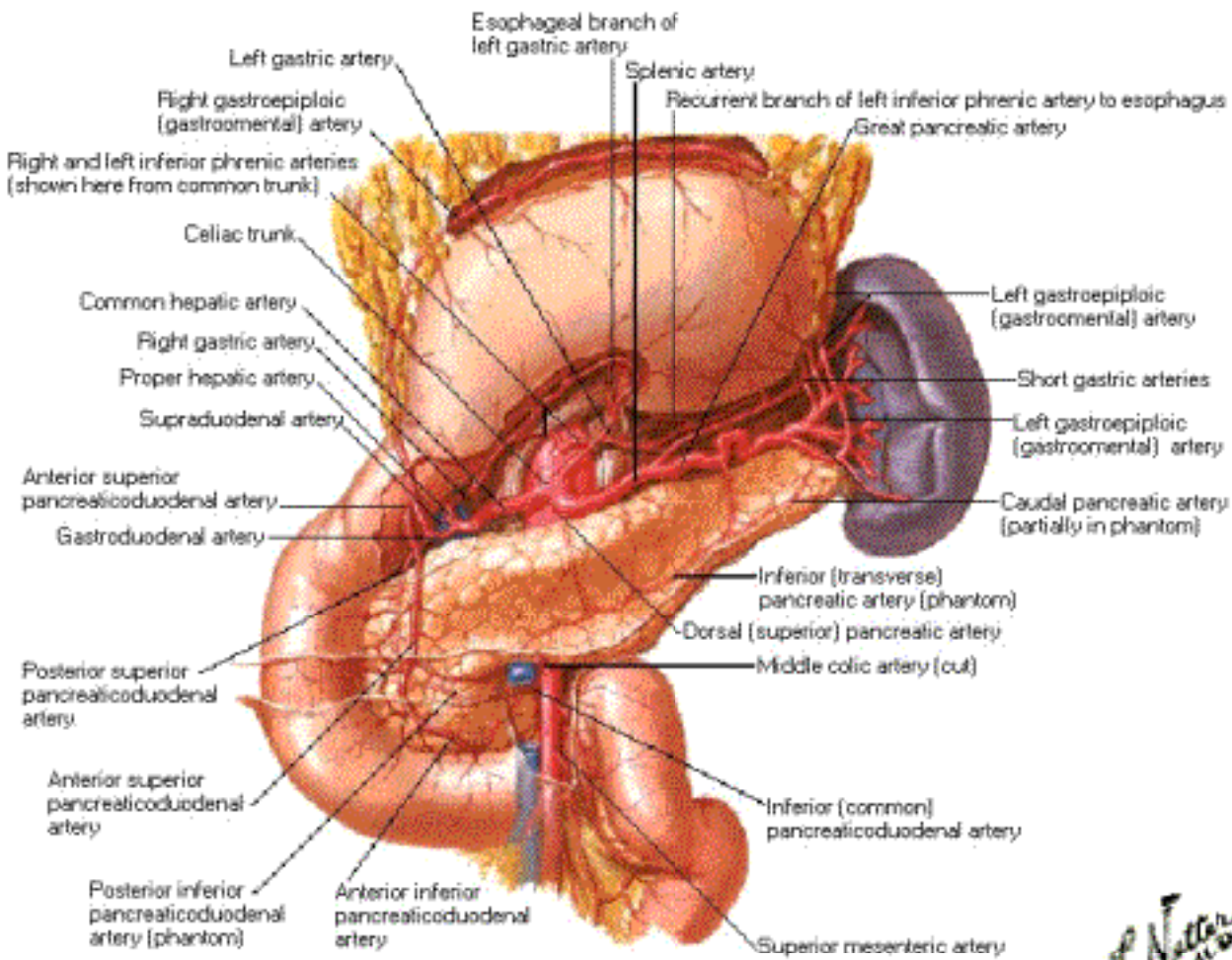




# Arteries of Stomach, Liver and Spleen



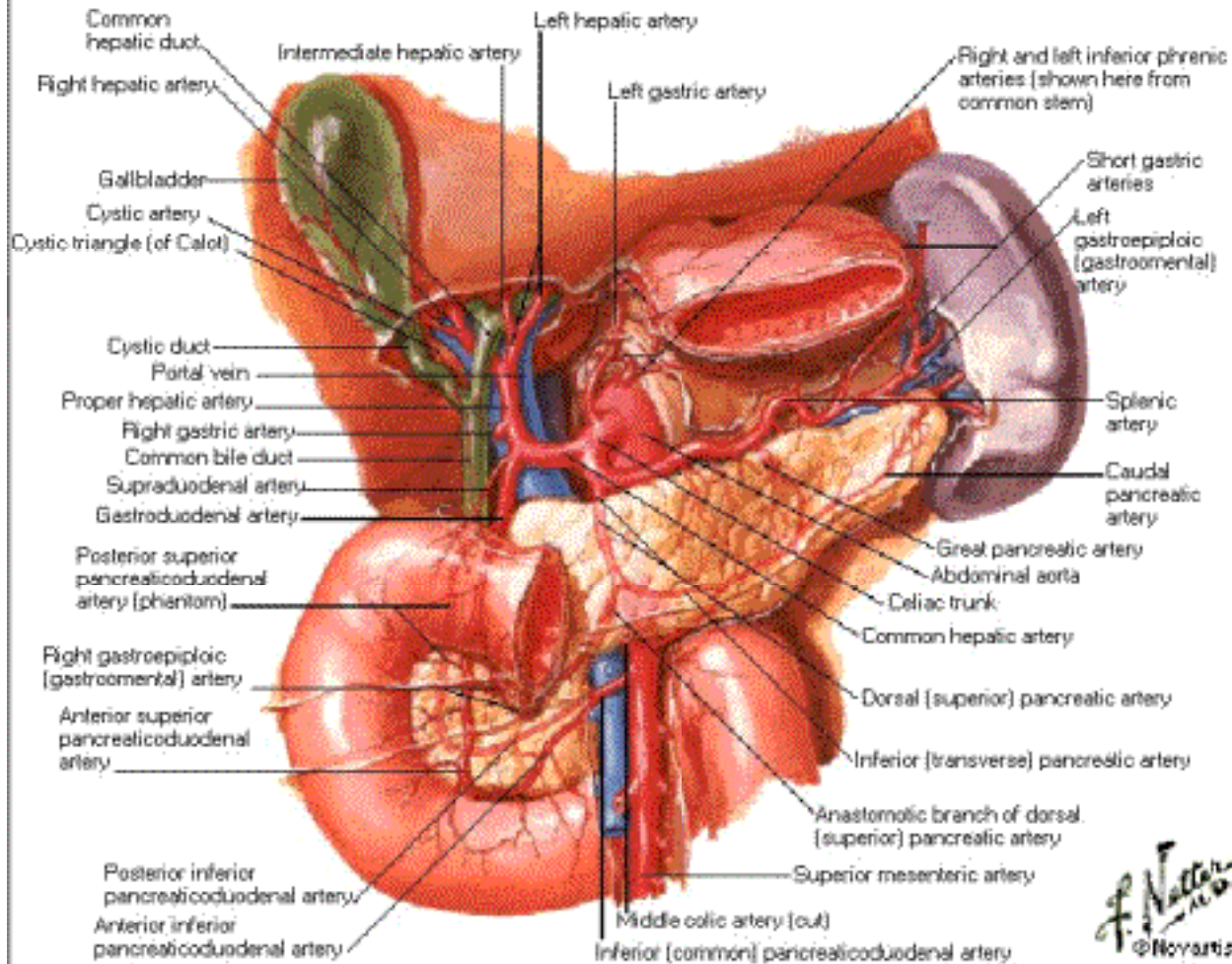
# Arteries of Stomach, Duodenum, Pancreas and Spleen



View with stomach reflected cephalad

*F. Netter M.D.*

# Arteries of Liver, Pancreas, Duodenum and Spleen

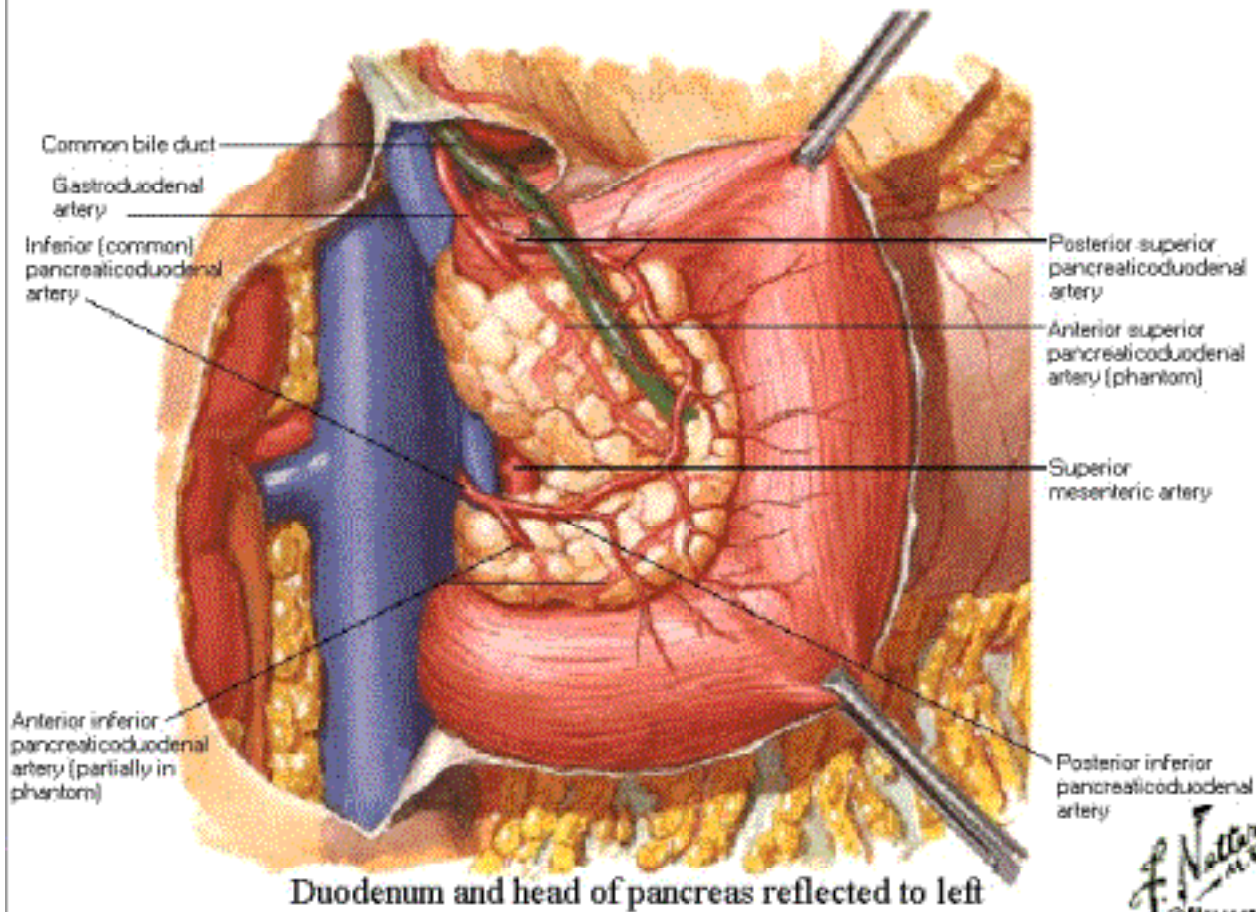


*F. Netter M.D.*  
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# Arteries of Duodenum and Head of Pancreas

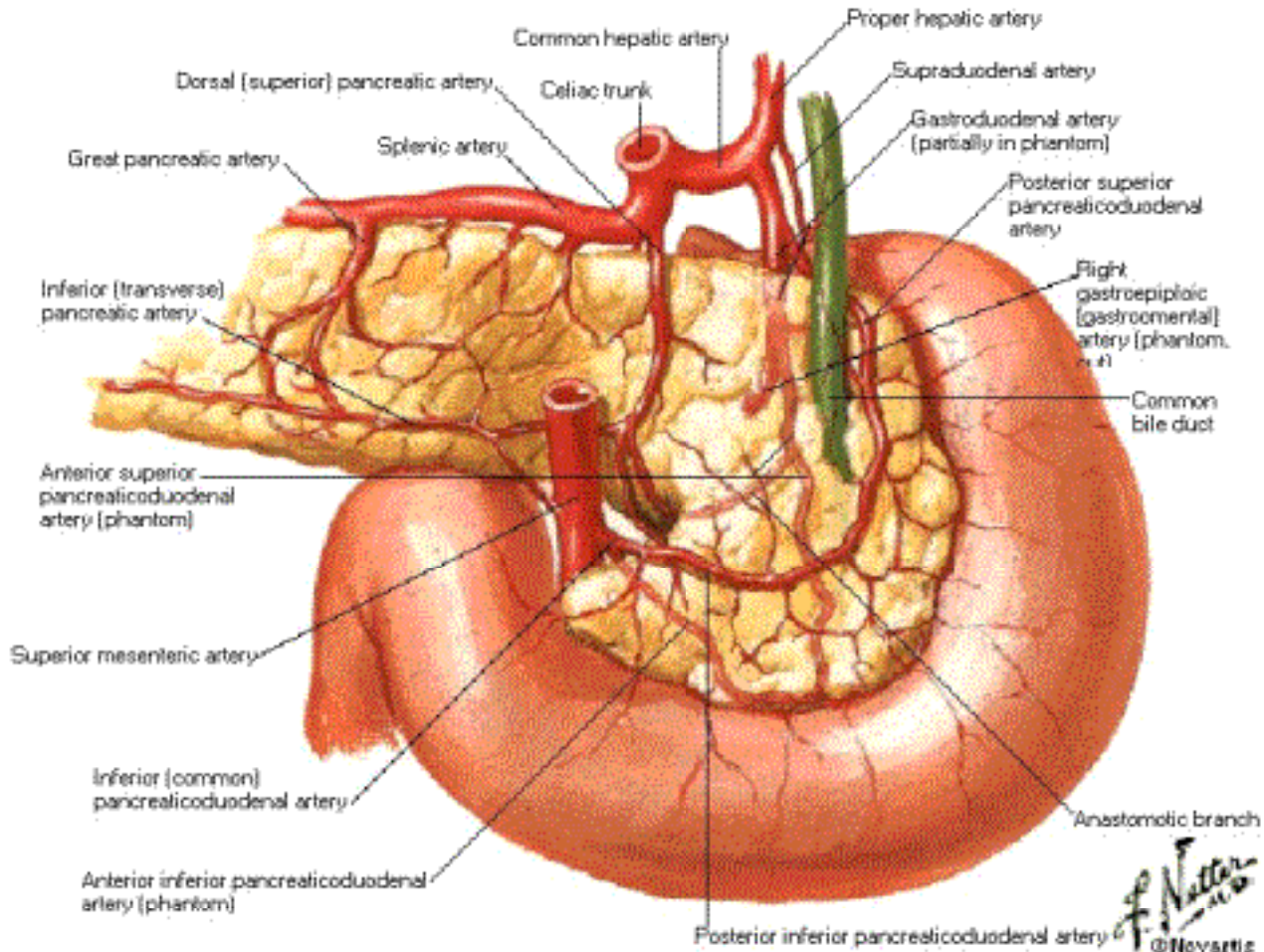
## Reflected to Left





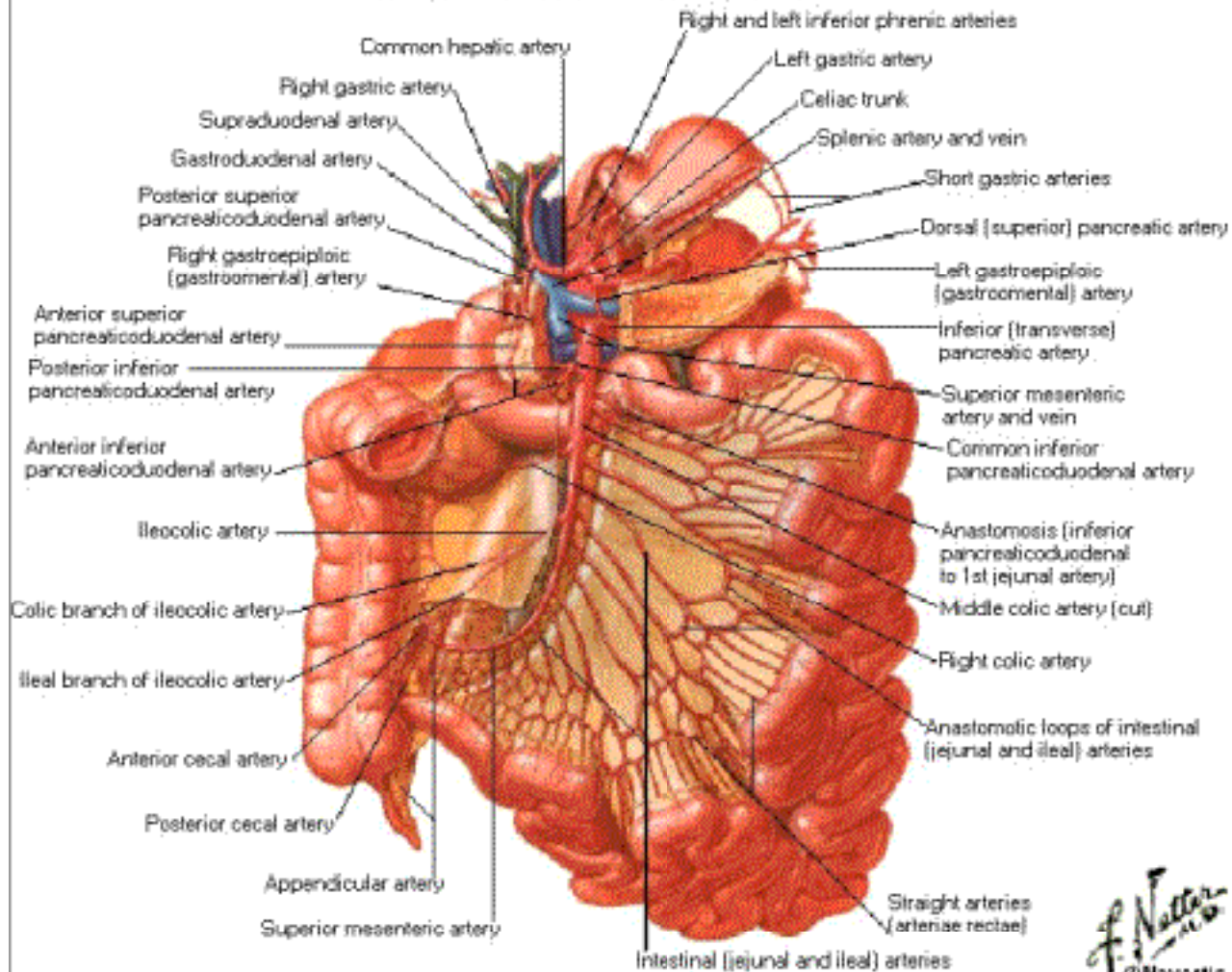
# Arteries of Duodenum and Head of Pancreas

## Posterior View

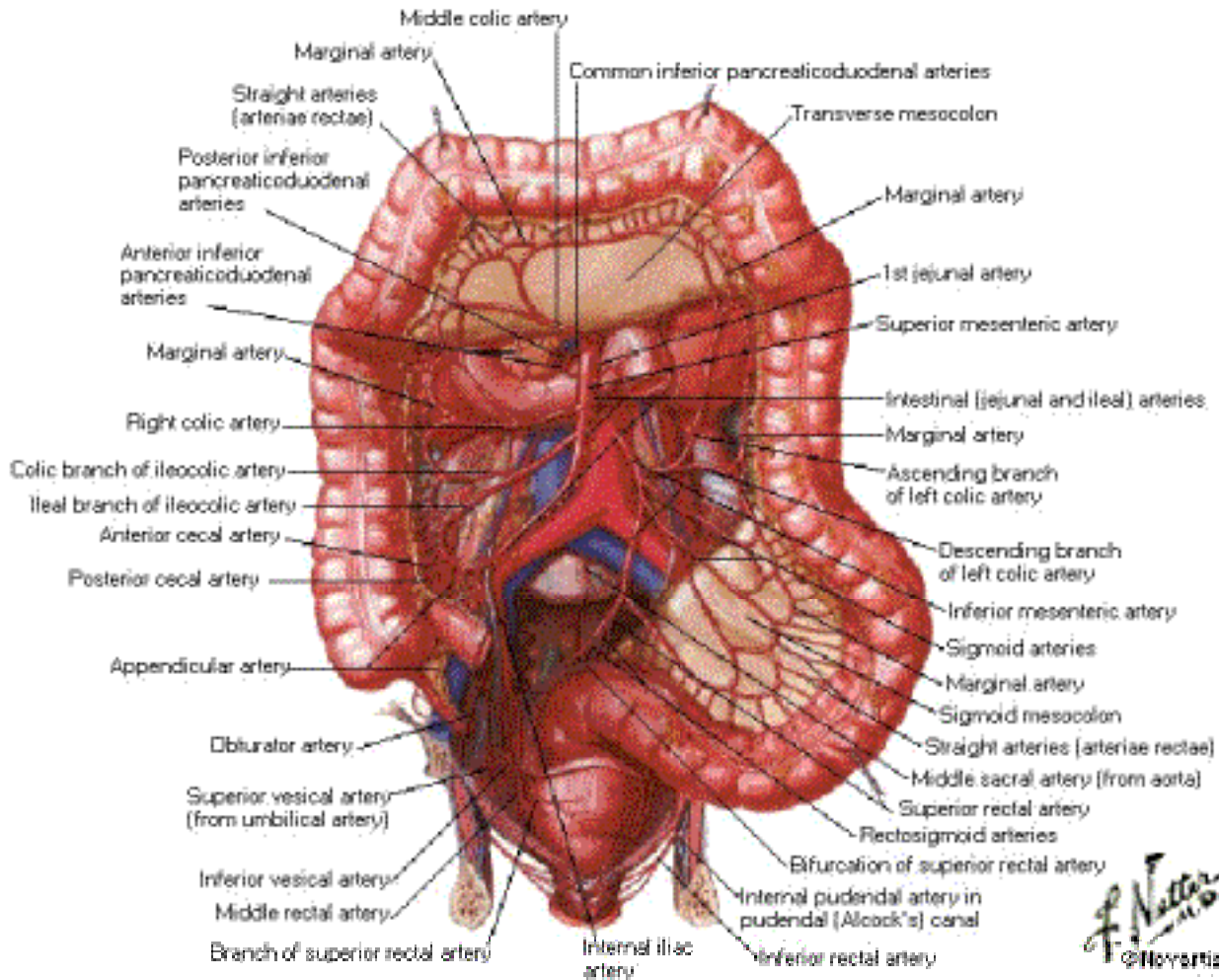


F. Netter  
© Netter

# Arteries of Small Intestine



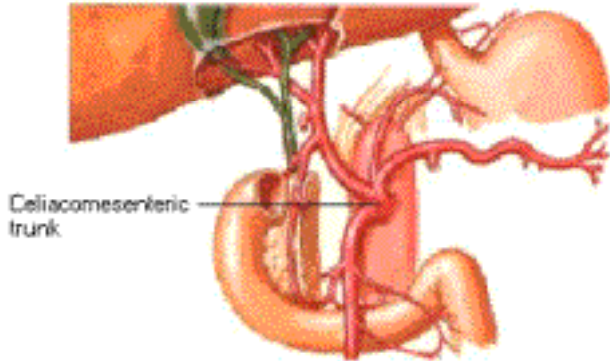
# Arteries of Large Intestine



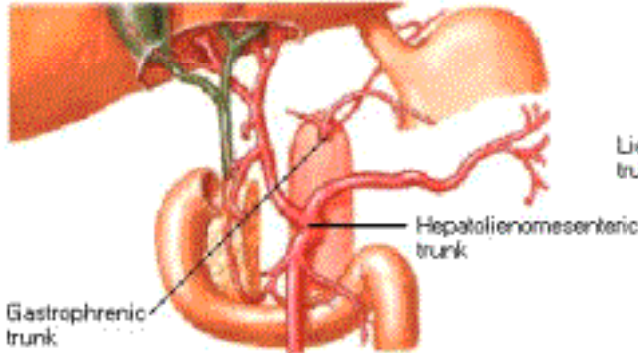
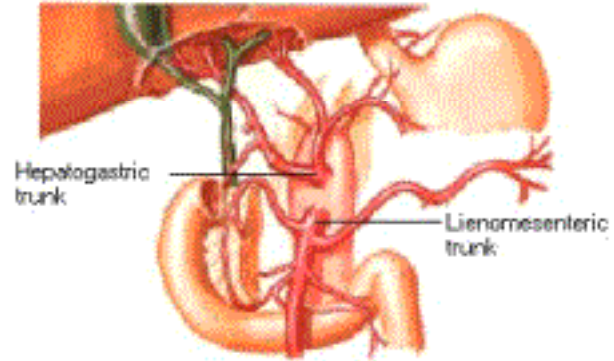
*F. Netter M.D.*  
 © Novartis

# Variations in Celiac Trunk

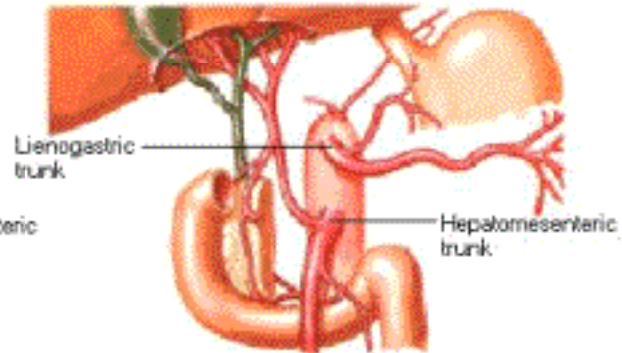
Common origin of celiac trunk and superior mesenteric artery



Splenic artery takes origin from superior mesenteric (note replaced left hepatic artery from left gastric)



Splenic and hepatic arteries take origin from superior mesenteric



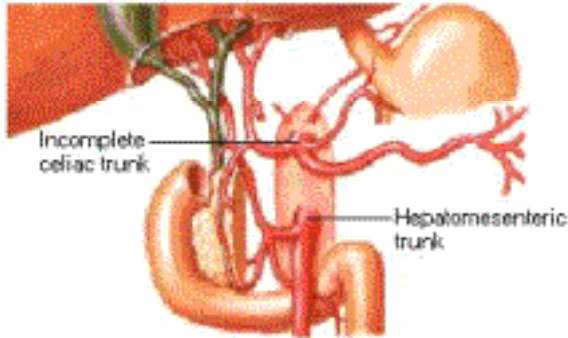
Replaced hepatic artery takes origin from superior mesenteric (note inferior pancreaticoduodenal artery from 1st jejunal)

*of Netter*

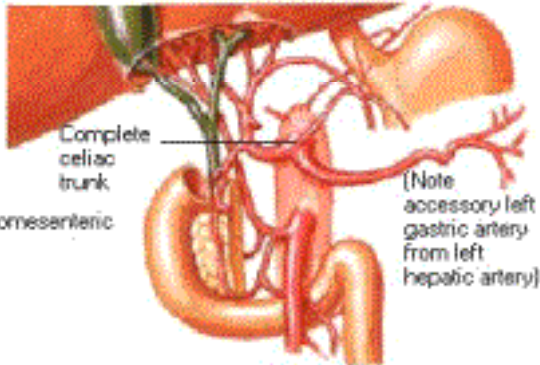
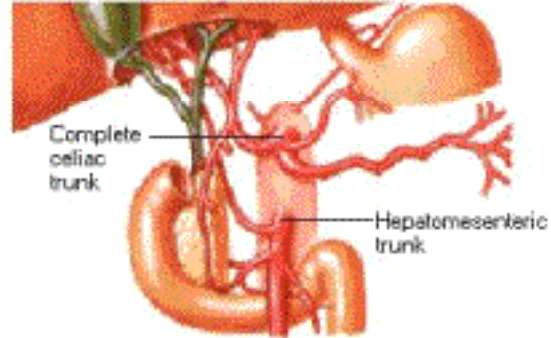


## Variations in Celiac Trunk [Continued]

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



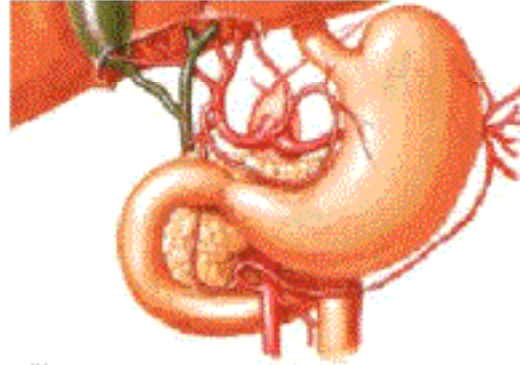
Accessory right hepatic artery takes origin from superior mesenteric artery



Hepatomesenteric trunk

(Note accessory left gastric artery from left hepatic artery)

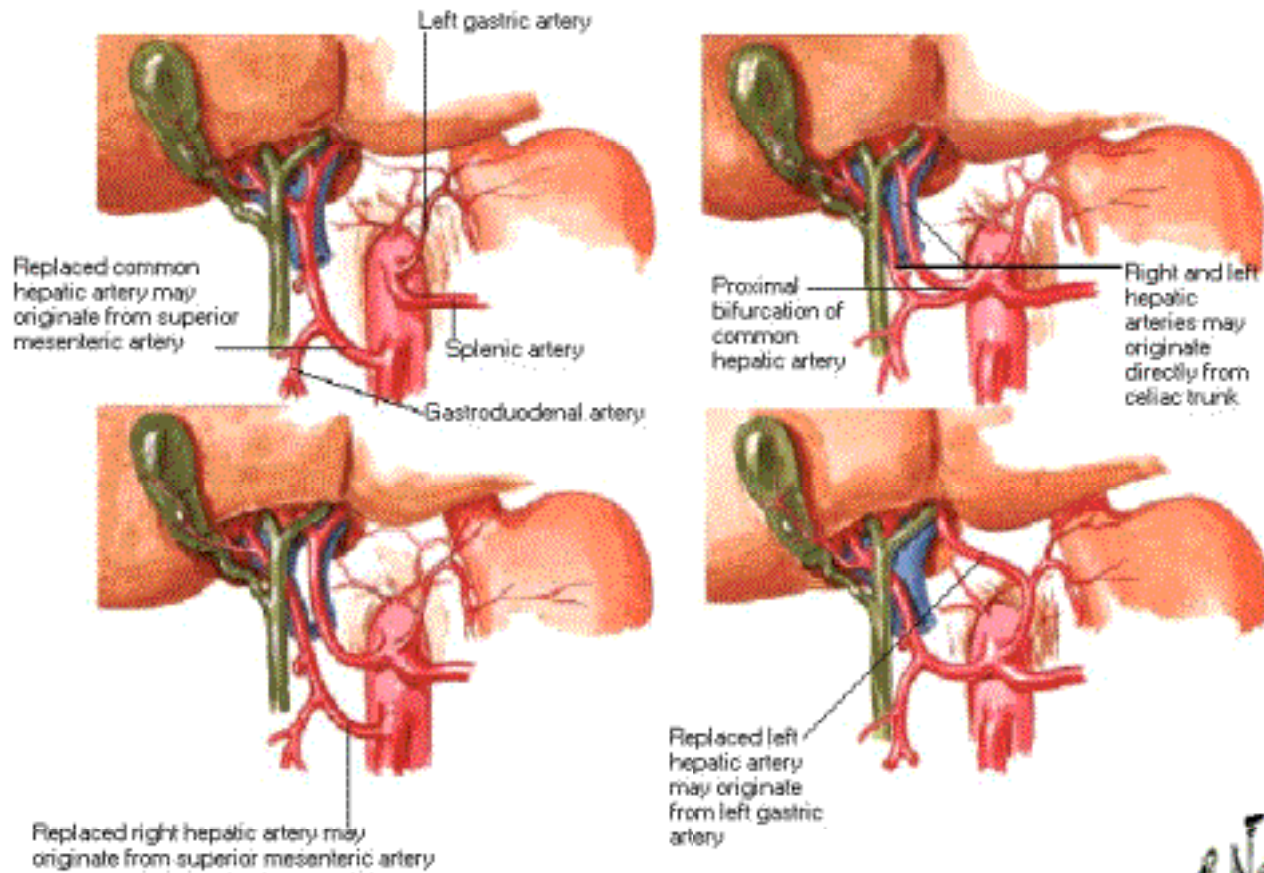
Accessory right hepatic artery takes origin from superior mesenteric; inferior pancreaticoduodenal arteries from accessory right hepatic; 1st jejunal artery from anterior inferior pancreaticoduodenal artery



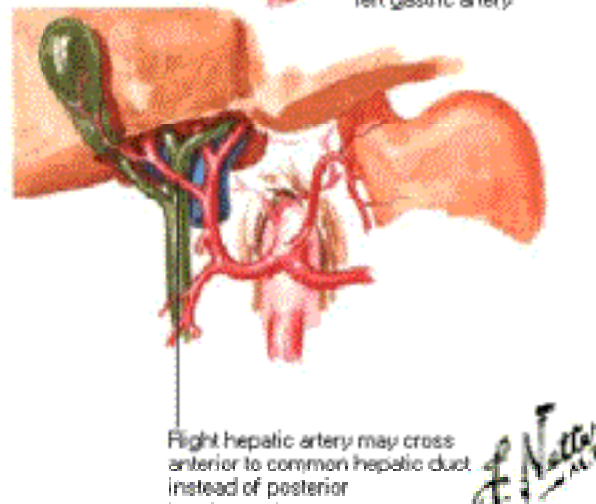
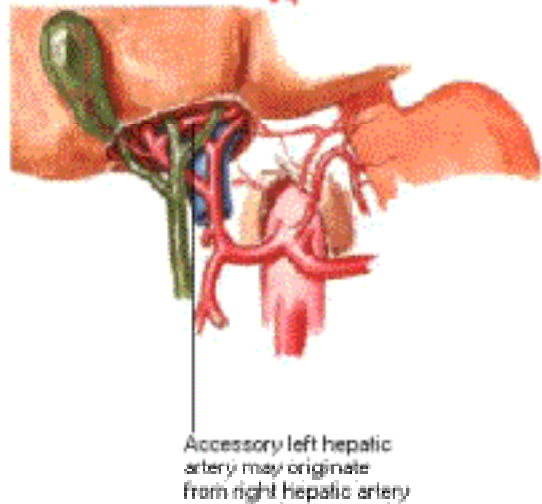
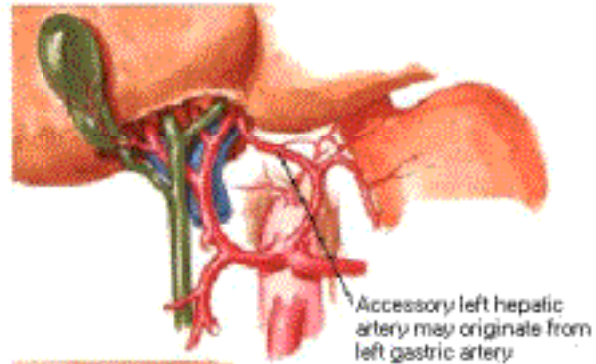
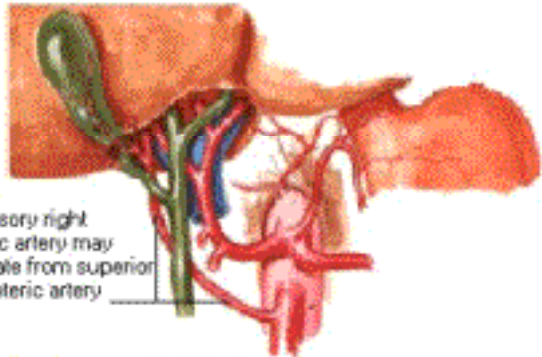
Right gastroepiploic (gastroomental) artery takes origin from superior mesenteric artery (note accessory left hepatic artery from left gastric)

*F. Netter M.D.*

## Variations in Hepatic Arteries

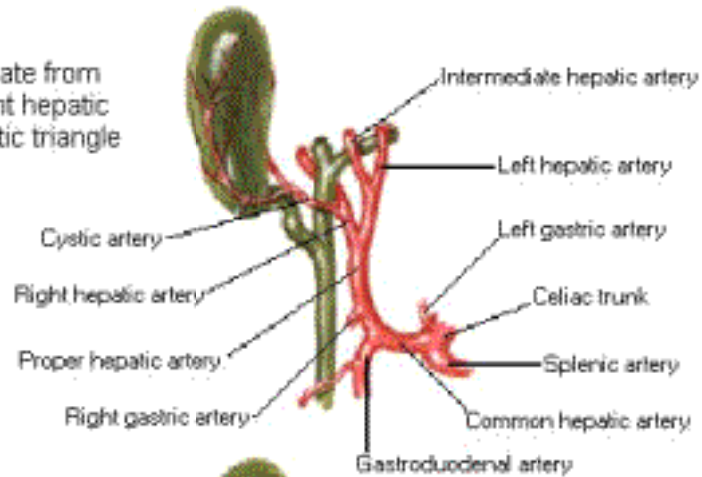


## Variations in Hepatic Arteries [Continued]

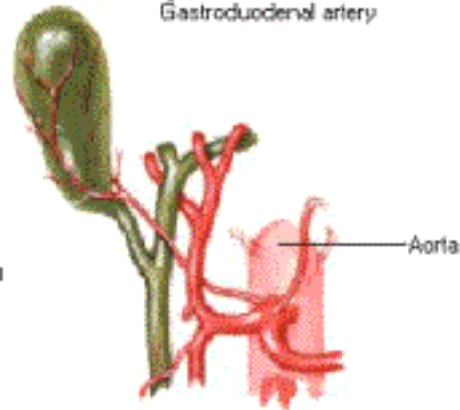


# Variations in Cystic Artery 1

May originate from normal right hepatic outside cystic triangle



May originate from celiac trunk (or from aorta)



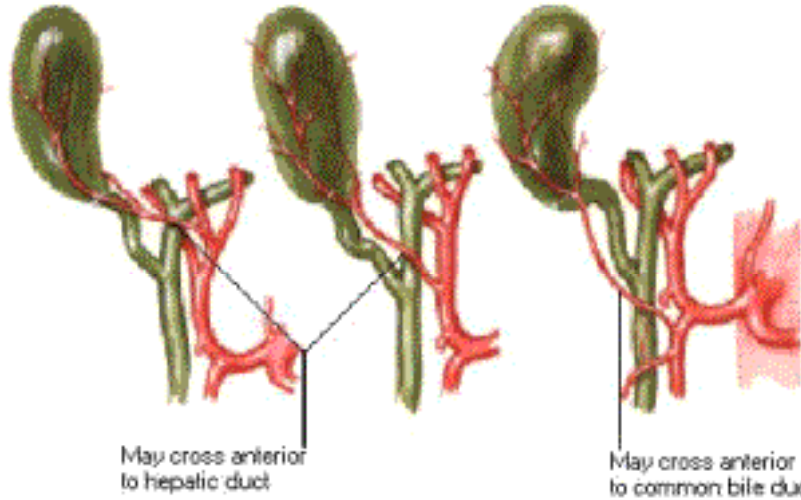


## Variations in Cystic Artery 2

May originate from  
intermediate (or left)  
hepatic

May originate from  
proper hepatic

May originate from  
gastroduodenal



## Variations in Cystic Artery 3

May originate in cystic triangle from aberrant right hepatic (from superior mesenteric)



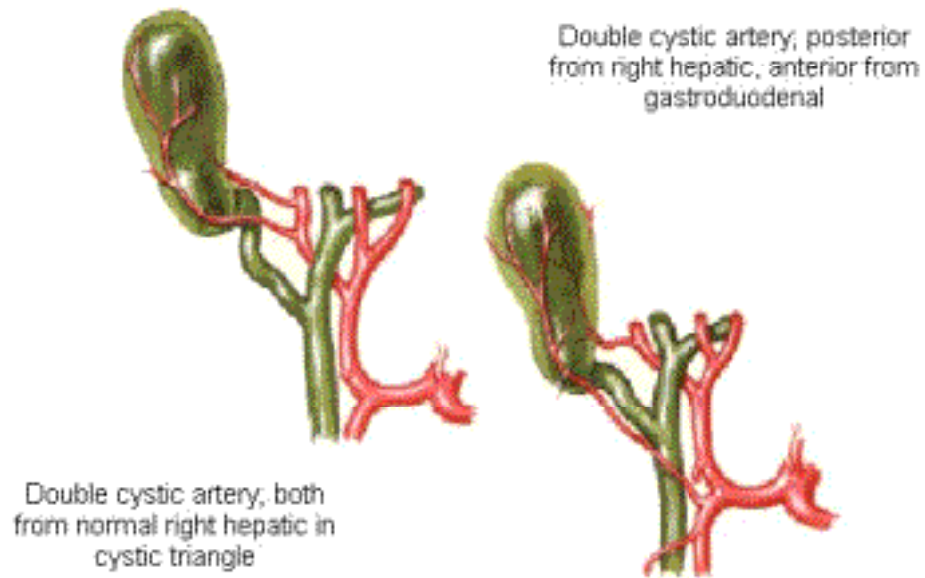
Superior mesenteric artery

May originate outside cystic triangle from aberrant right hepatic



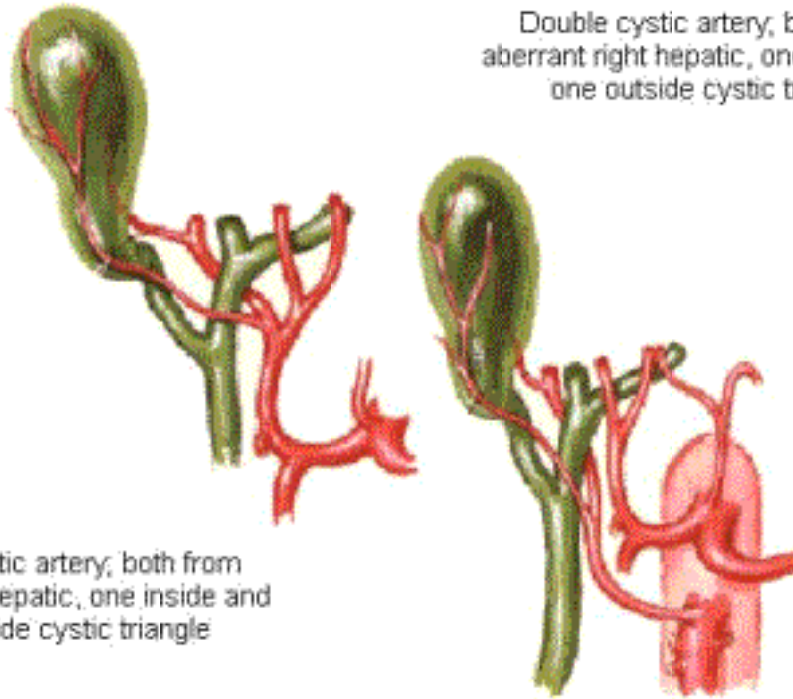
May cross anterior to hepatic duct

## Variations in Cystic Artery 4



## Variations in Cystic Artery 5

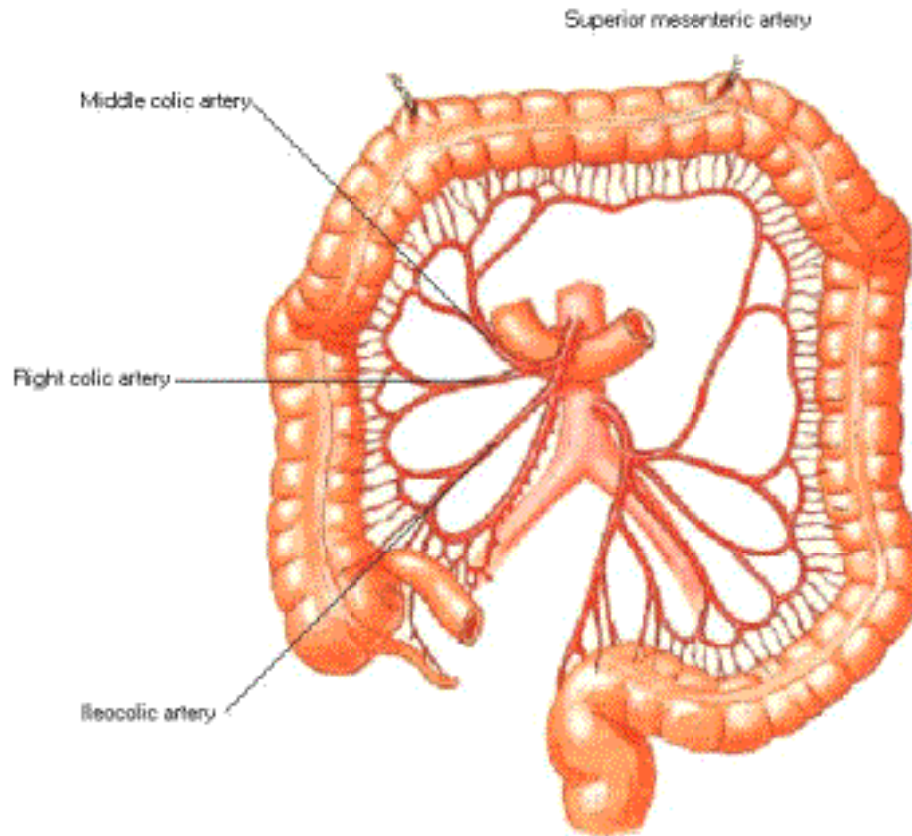
Double cystic artery, both from aberrant right hepatic, one inside and one outside cystic triangle



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

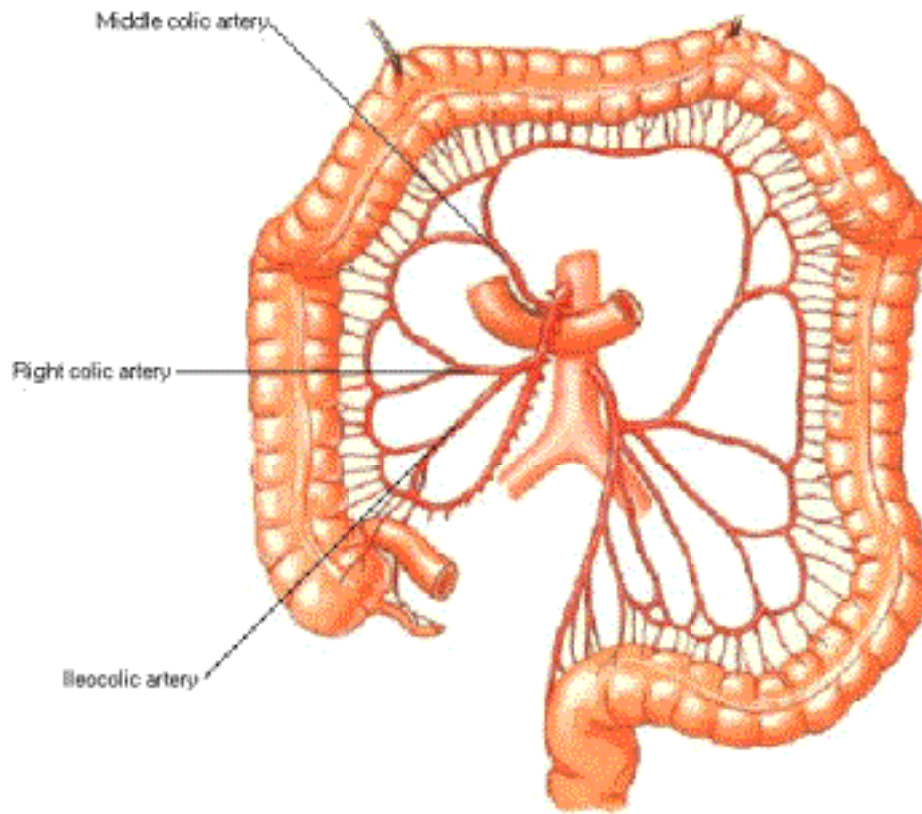


## Variations in Colic Arteries 1



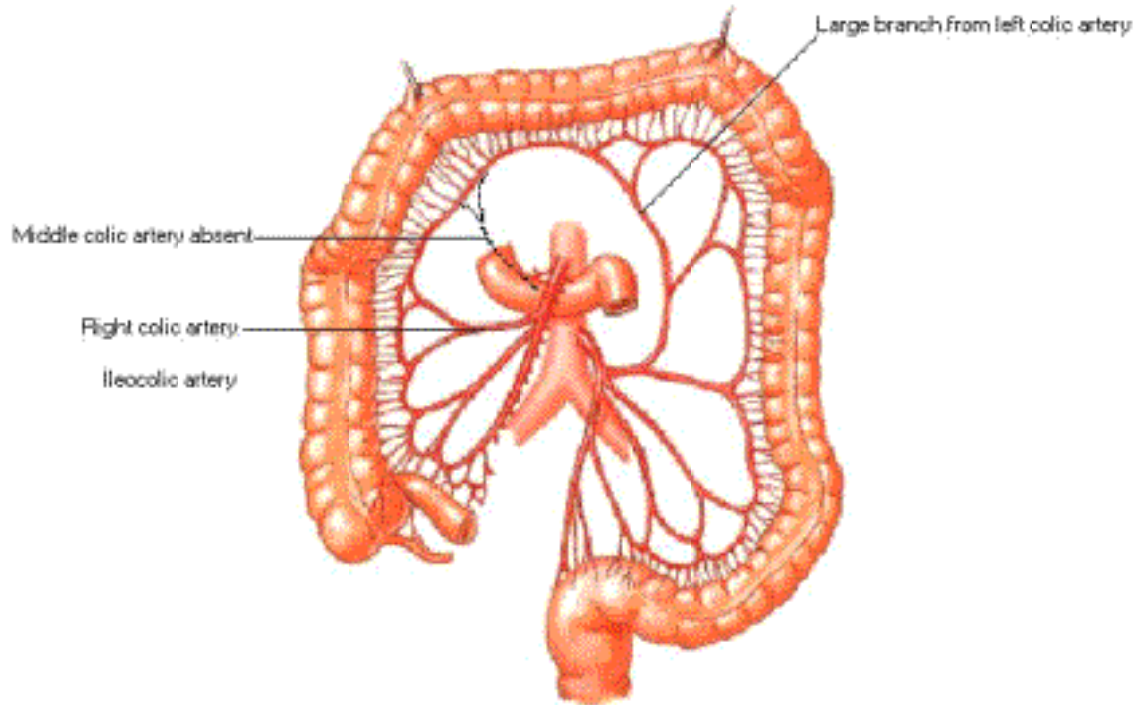
Common origin of right colic and middle colic arteries

## Variations in Colic Arteries 2



Common origin of right colic and ileocolic arteries

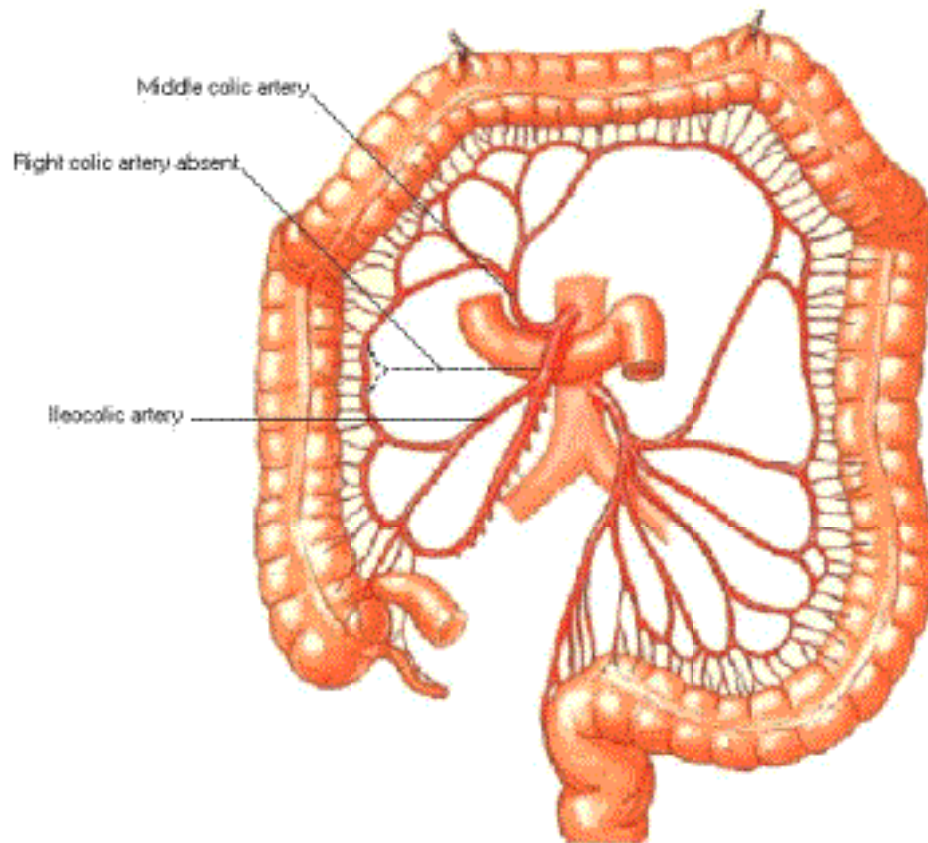
### Variations in Colic Arteries 3



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

*F. Net*  
© No.

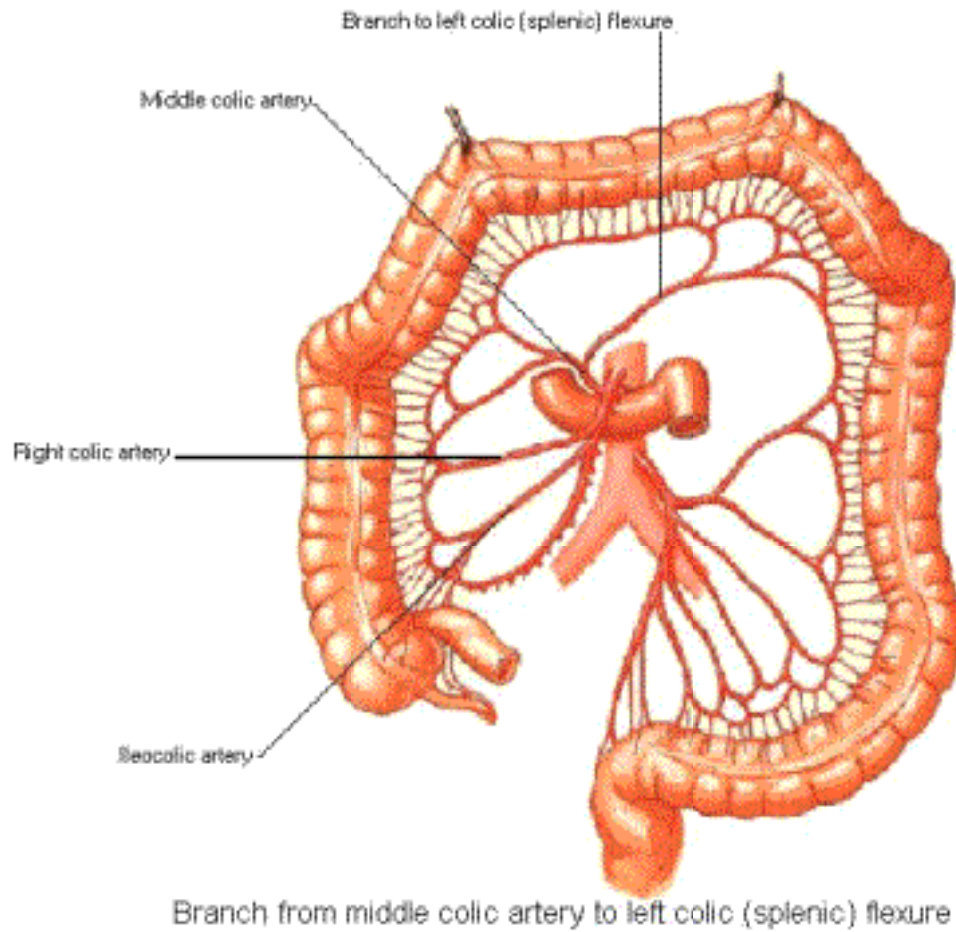
## Variations in Colic Arteries 4



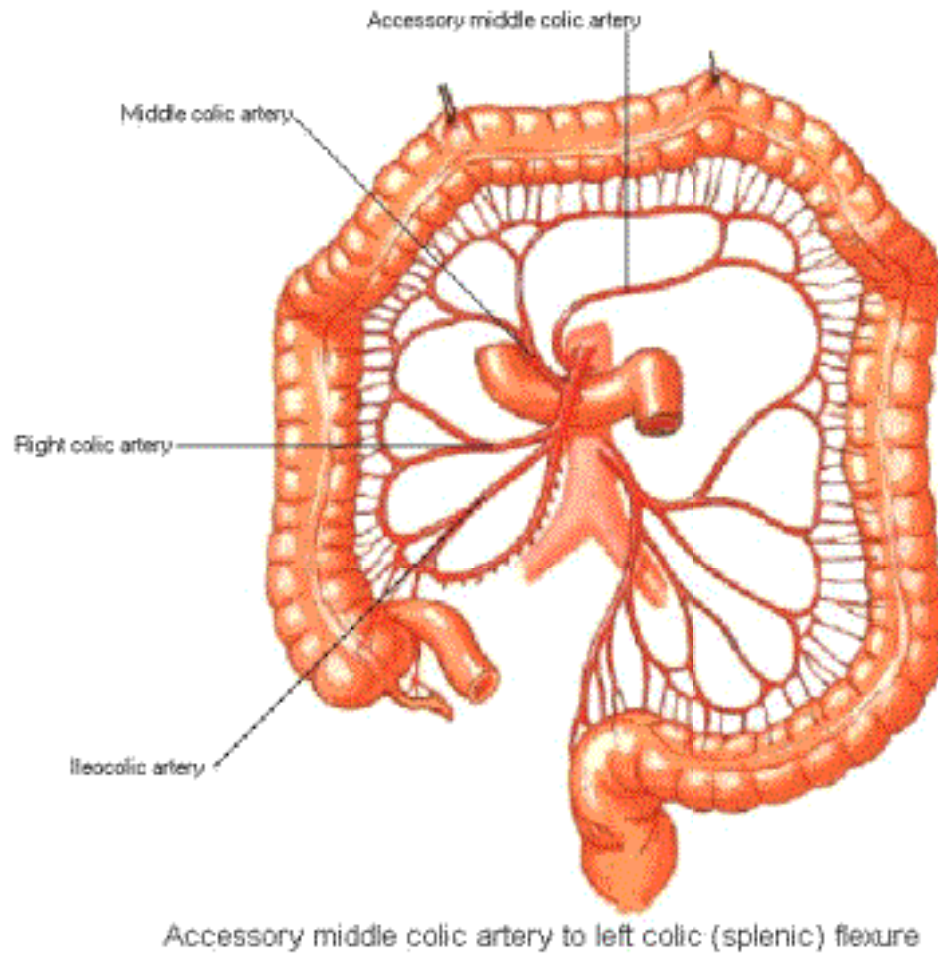
Absence of right colic artery



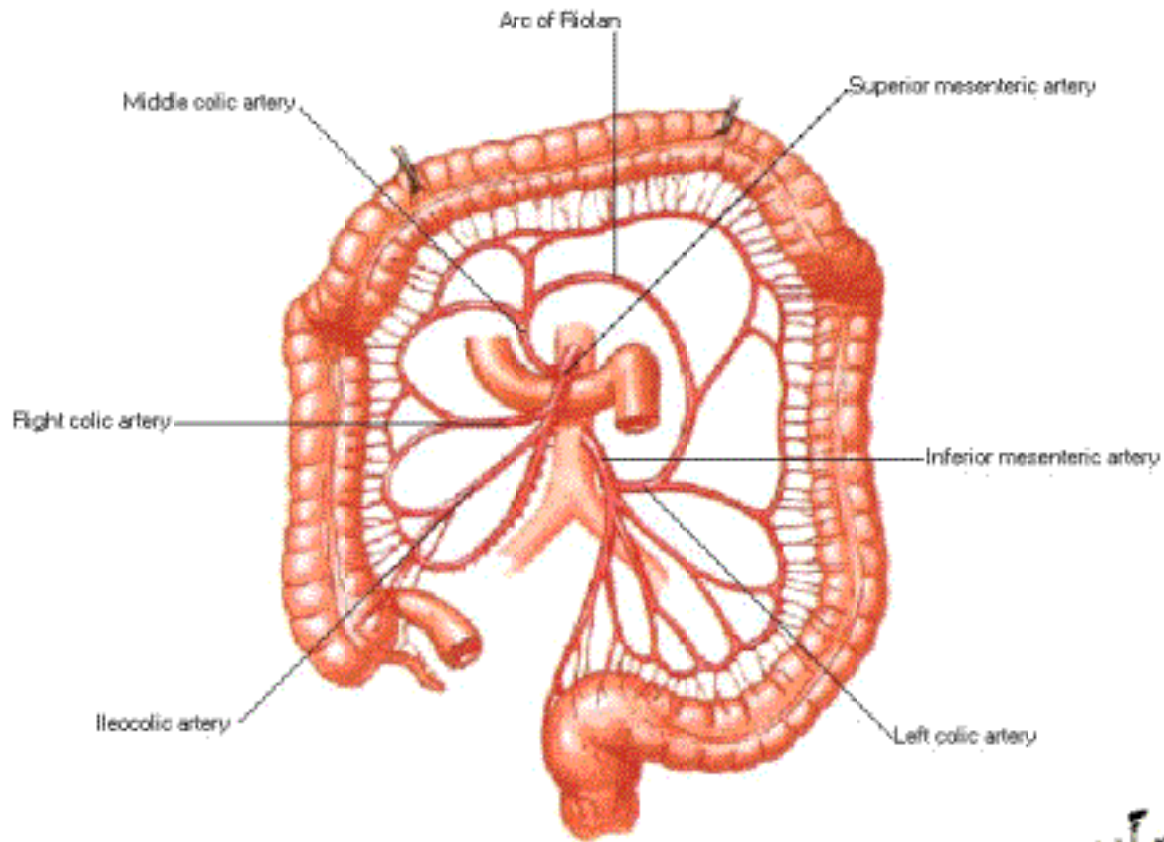
## Variations in Colic Arteries 5



## Variations in Colic Arteries 6



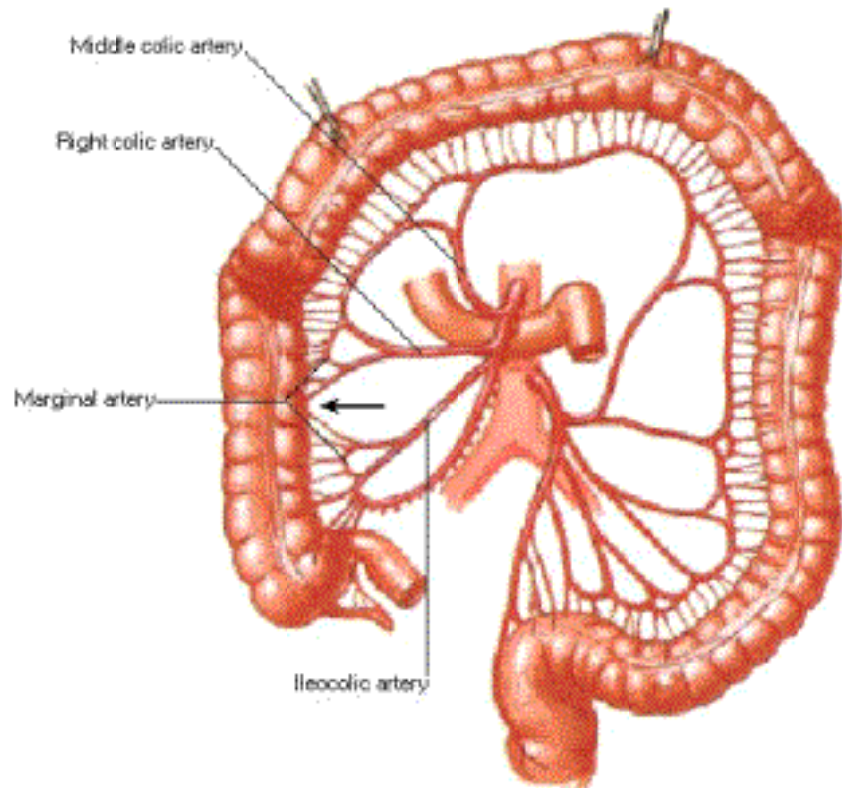
## Variations in Colic Arteries 7



Arc of Riolan between middle colic artery and left colic artery

*F. Net*  
©Novi

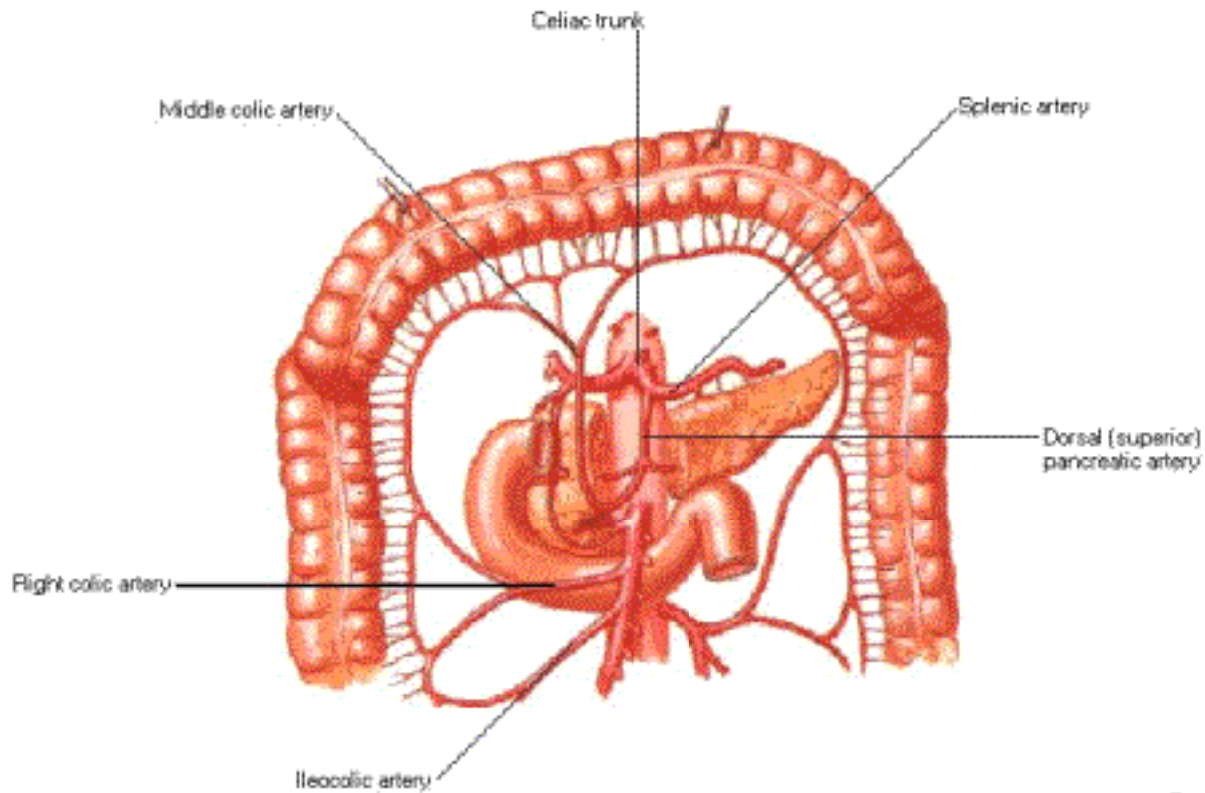
## Variations in Colic Arteries 8



Discontinuity of marginal artery between right colic artery and ileocolic arteries



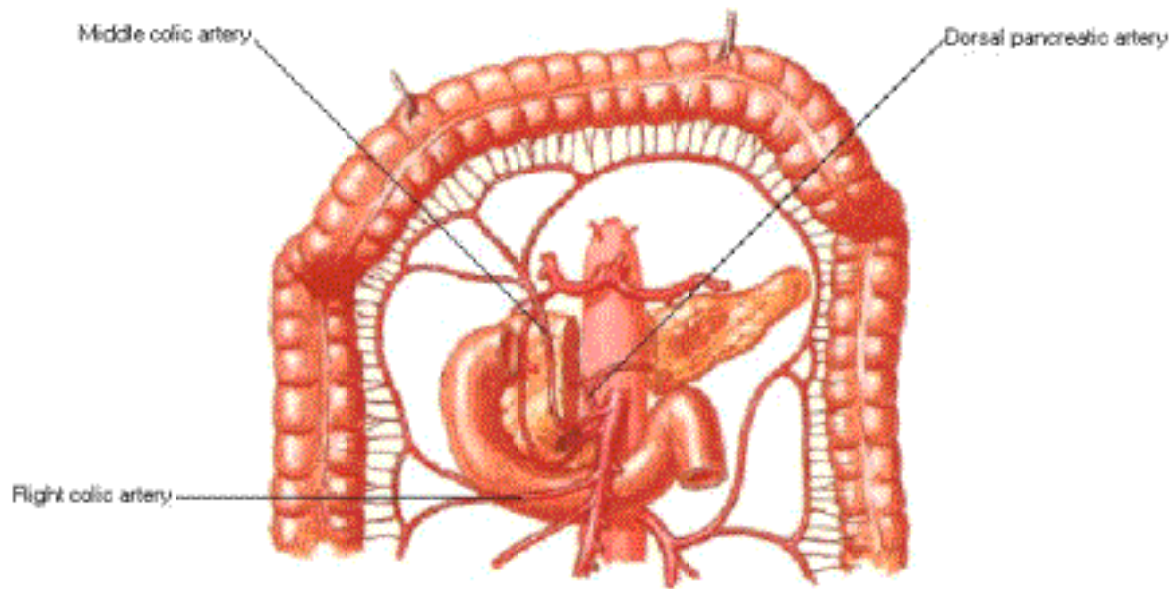
## Variations in Colic Arteries 9



Middle colic artery originates from celiac trunk via dorsal pancreatic artery

*F. Natta*  
OF MEDICINE

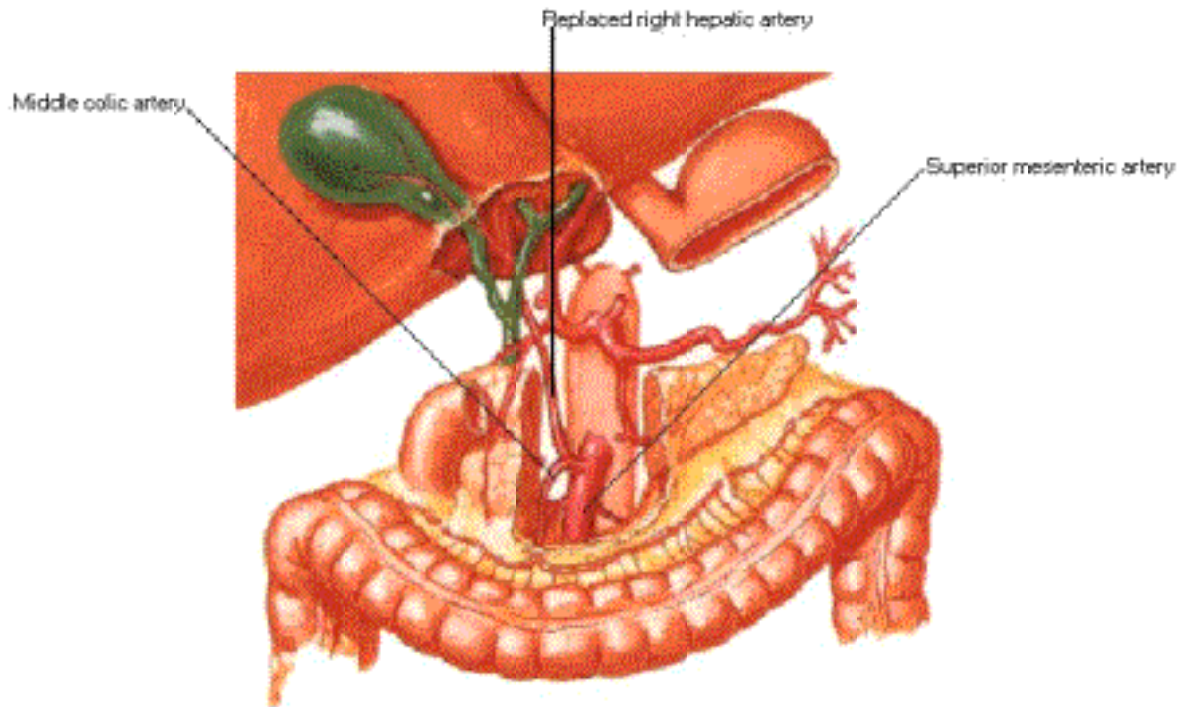
## Variations in Colic Arteries 10



Middle colic artery gives origin to dorsal pancreatic artery

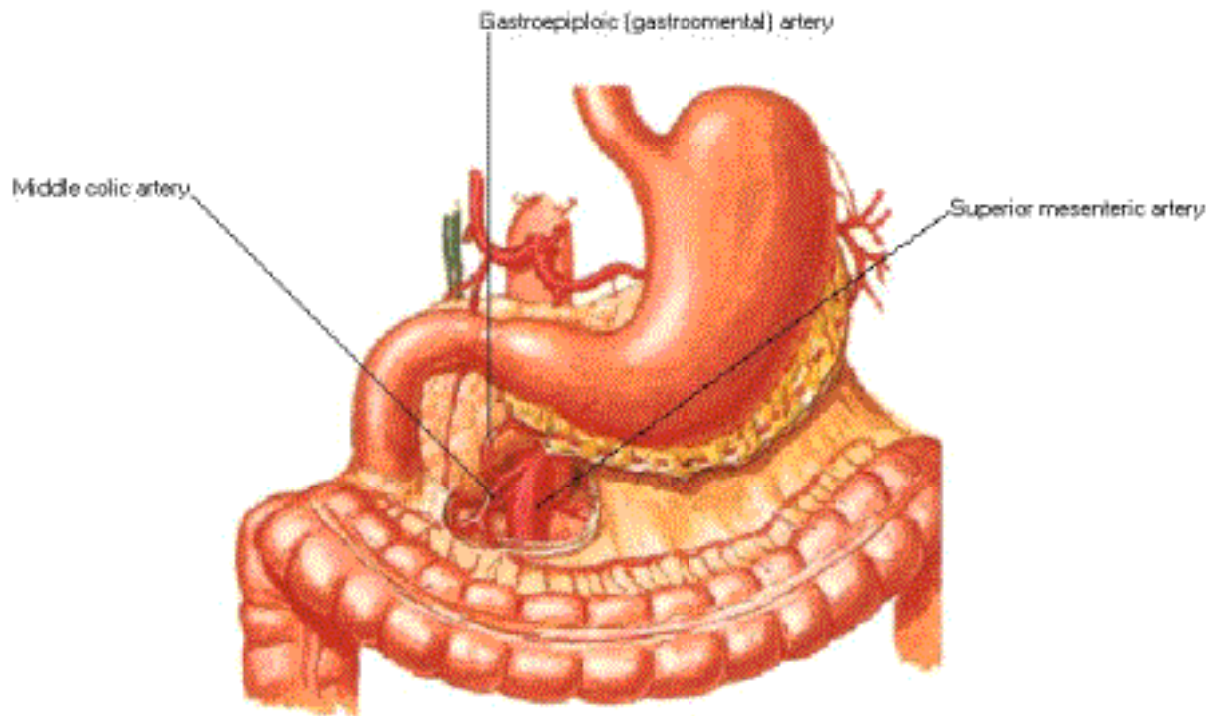
*F. Net*  
2011

## 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

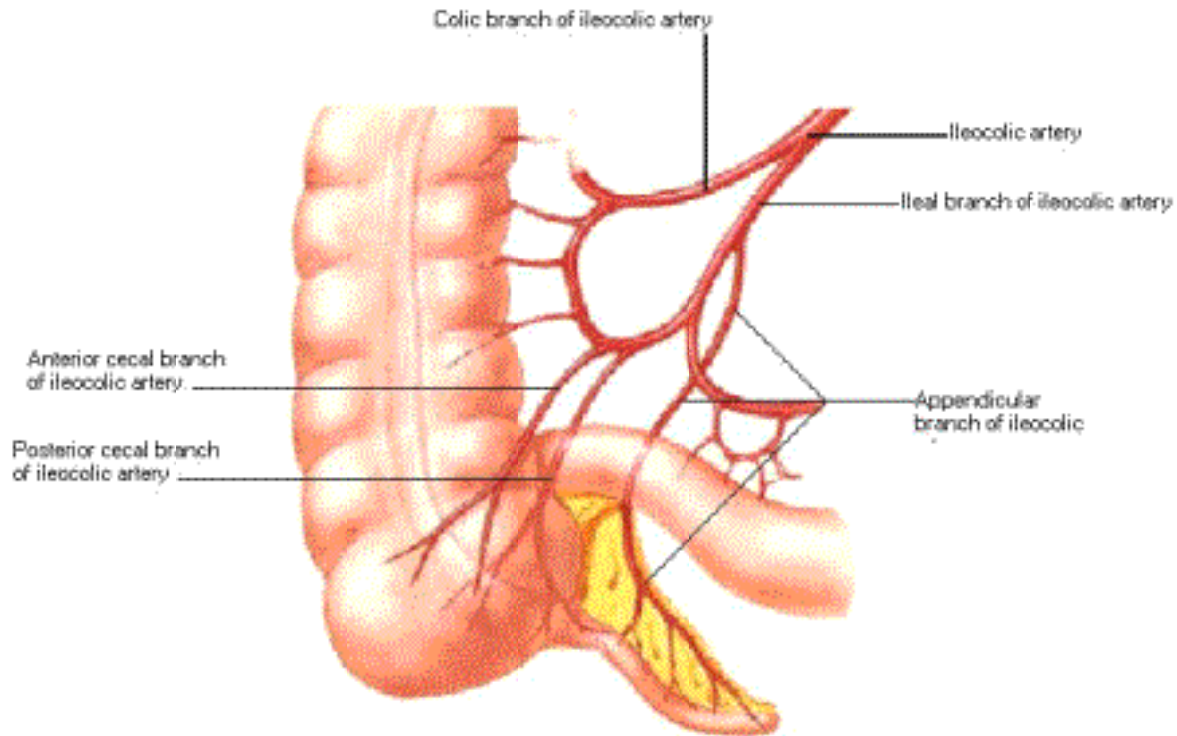


Middle colic artery has common origin with right gastroepiploic (gastrointestinal) artery from superior mesenteric artery

*Dr. Naito*

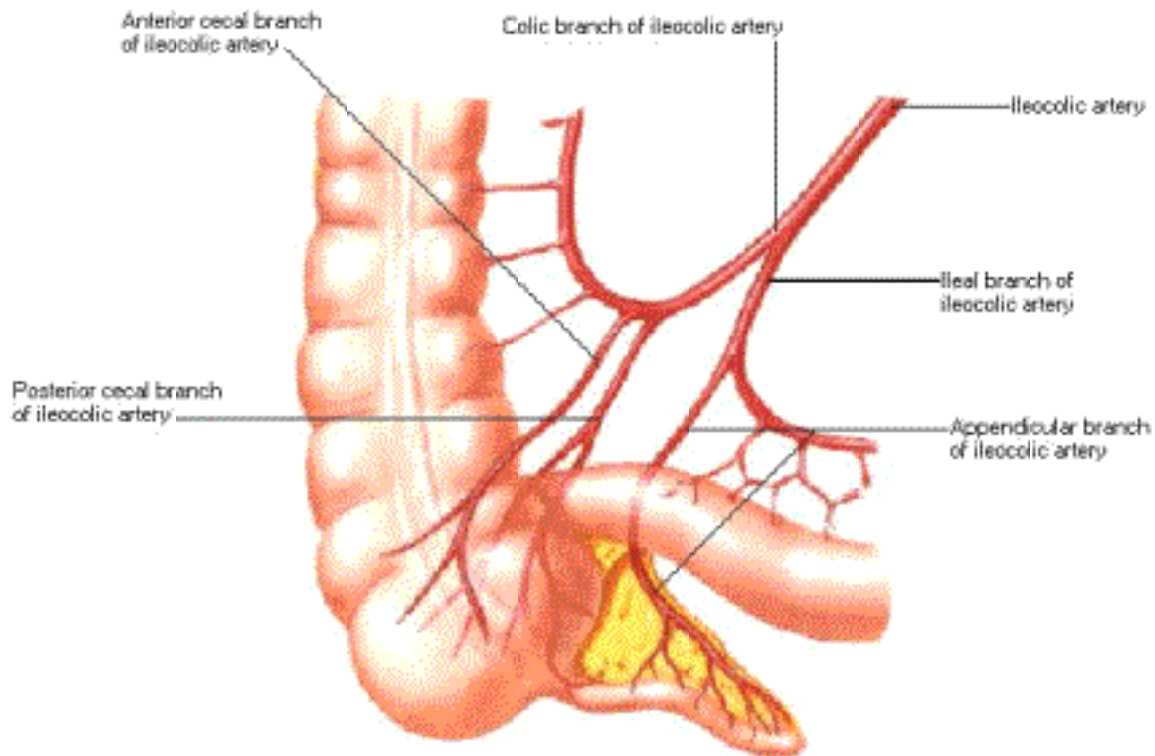


# Variations in Cecal and Appendicular Arteries 1

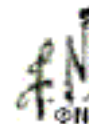


Anterior cecal and posterior cecal arteries originate from arcade between colic and ileal branches of ileocolic; appendicular artery from ileal branch

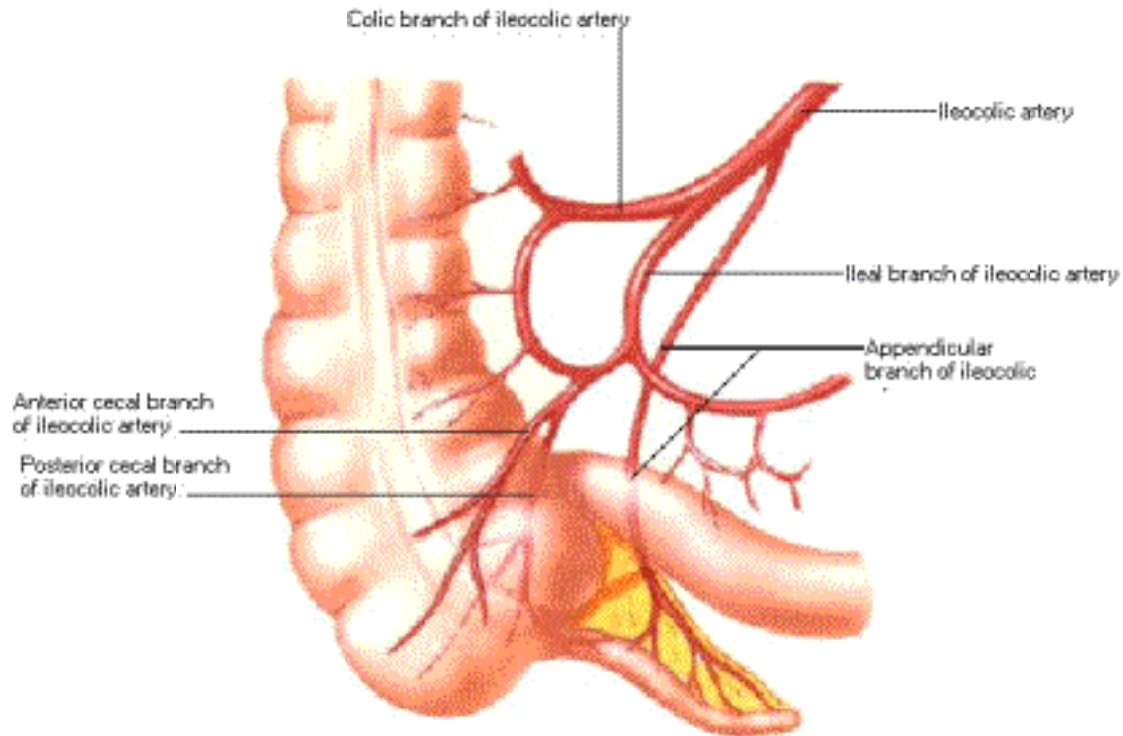
## Variations in Cecal and Appendicular Arteries 2



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



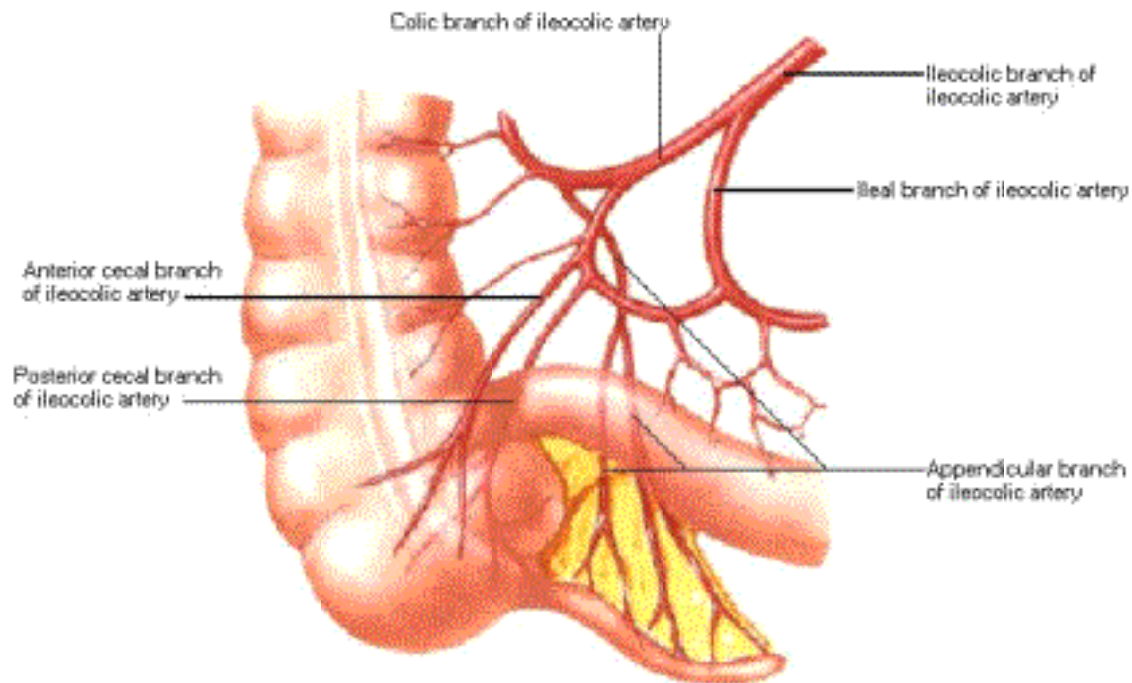
## Variations in Cecal and Appendicular Arteries 3



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



## Variations in Cecal and Appendicular Arteries 4

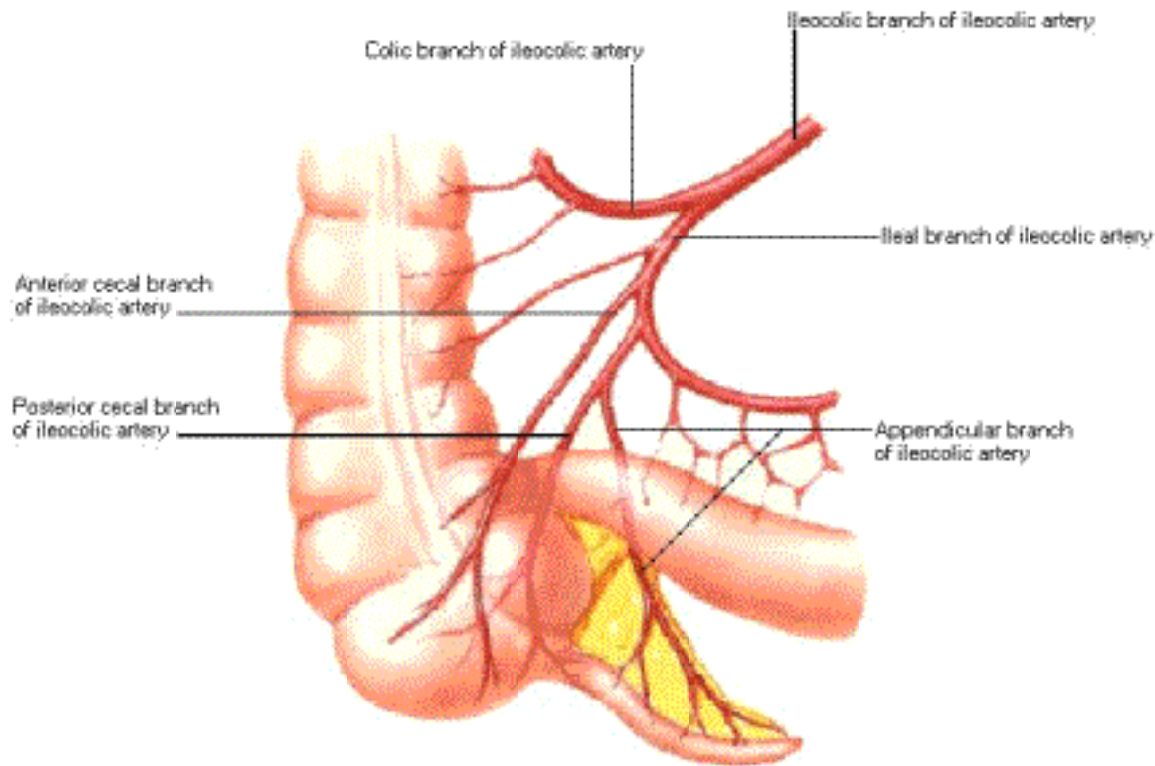


Anterior cecal and posterior cecal arteries originate from arcade between colic and ileal branches of ileocolic artery; appendicular artery from colic branch bifurcates high

*F. Netter*  
M.D.  
© Elsevier



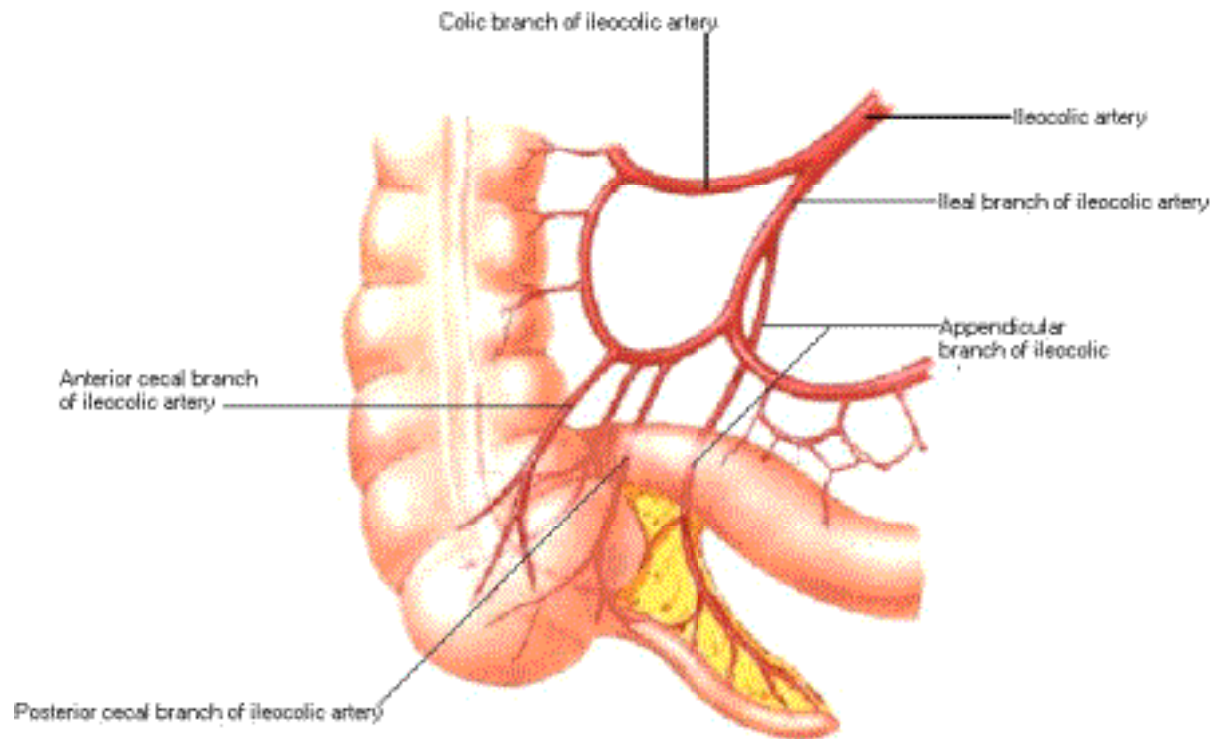
## Variations in Cecal and Appendicular Arteries 5



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

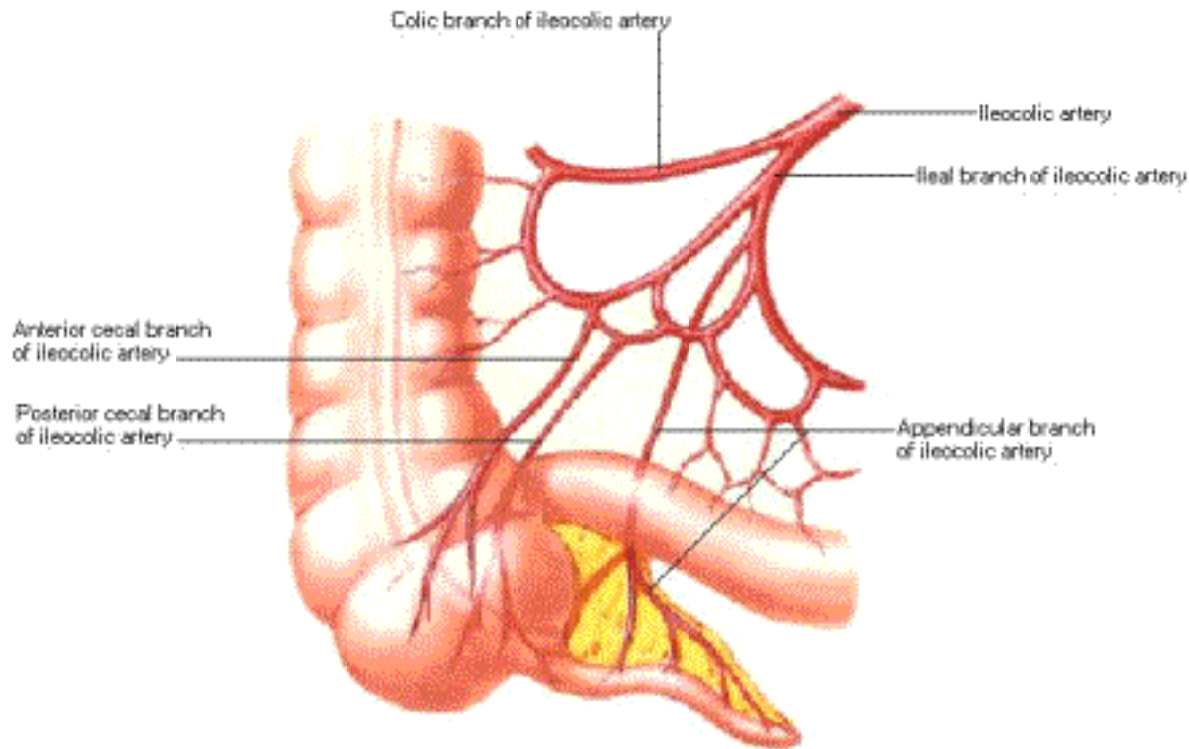
*F. Noor*  
© Noor

## Variations in Cecal and Appendicular Arteries 6



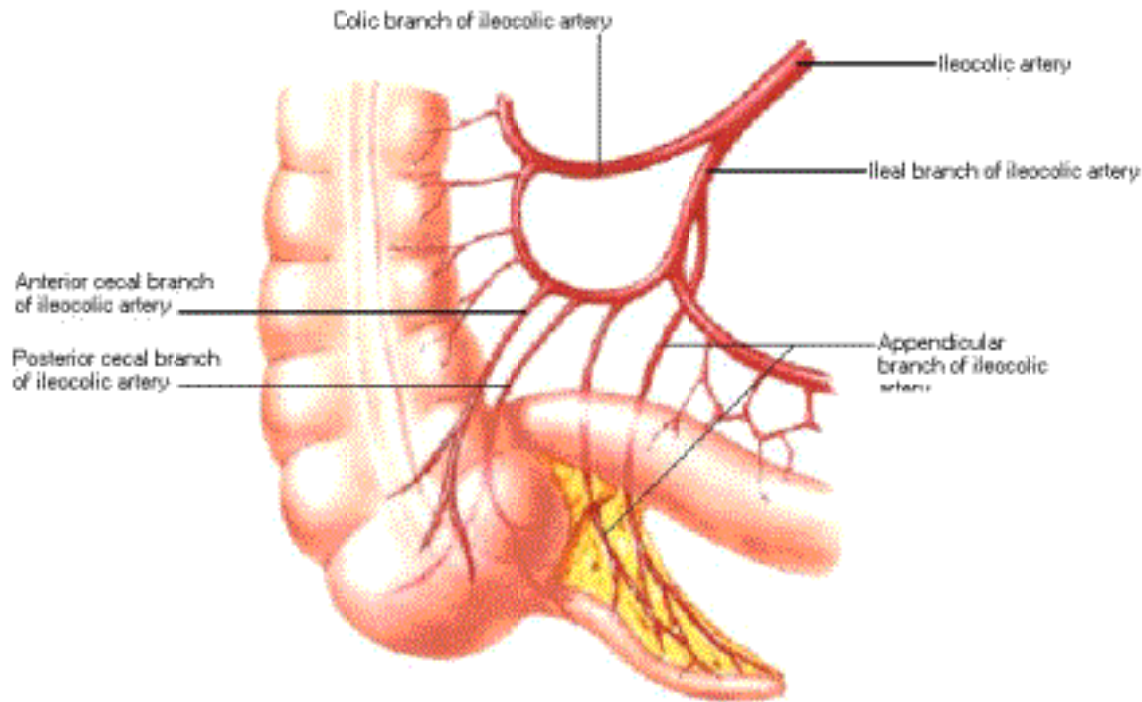
Anterior cecal and two posterior cecal arteries originate from arcade; appendicular artery from ileal branch of ileocolic artery

## 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

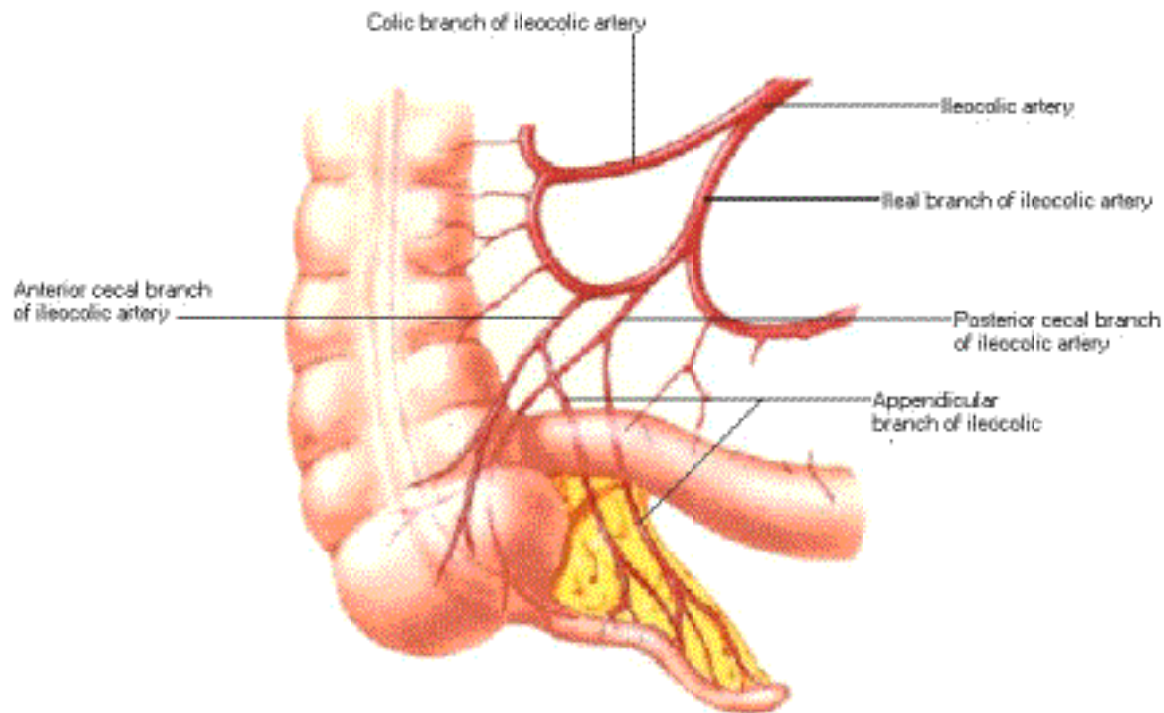
## Variations in Cecal and Appendicular Arteries 8



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

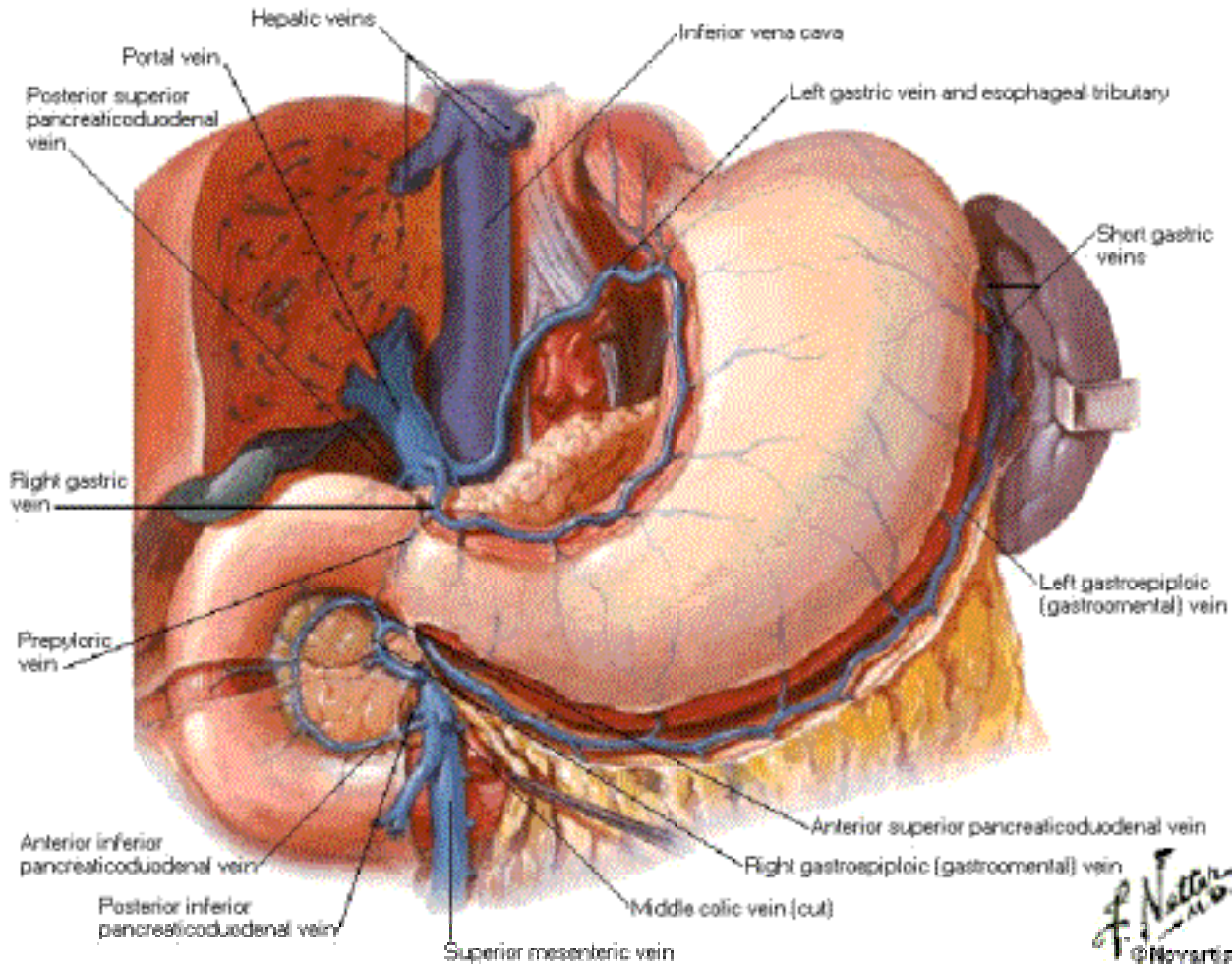


## Variations in Cecal and Appendicular Arteries 9

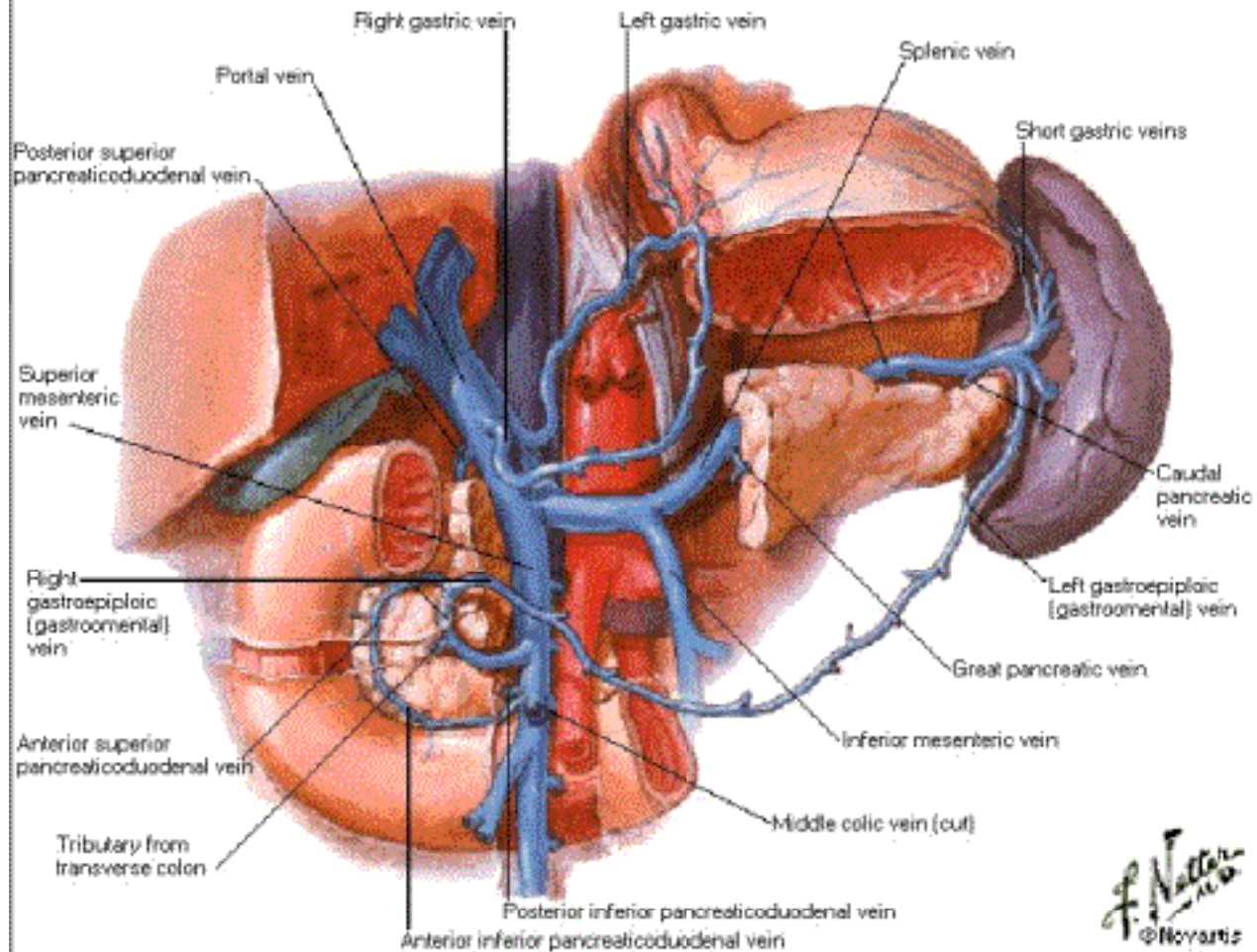


Anterior cecal and posterior cecal arteries originate from arcade; two appendicular arteries, one from anterior cecal, other from posterior cecal artery

# Veins of Stomach, Duodenum and Pancreas

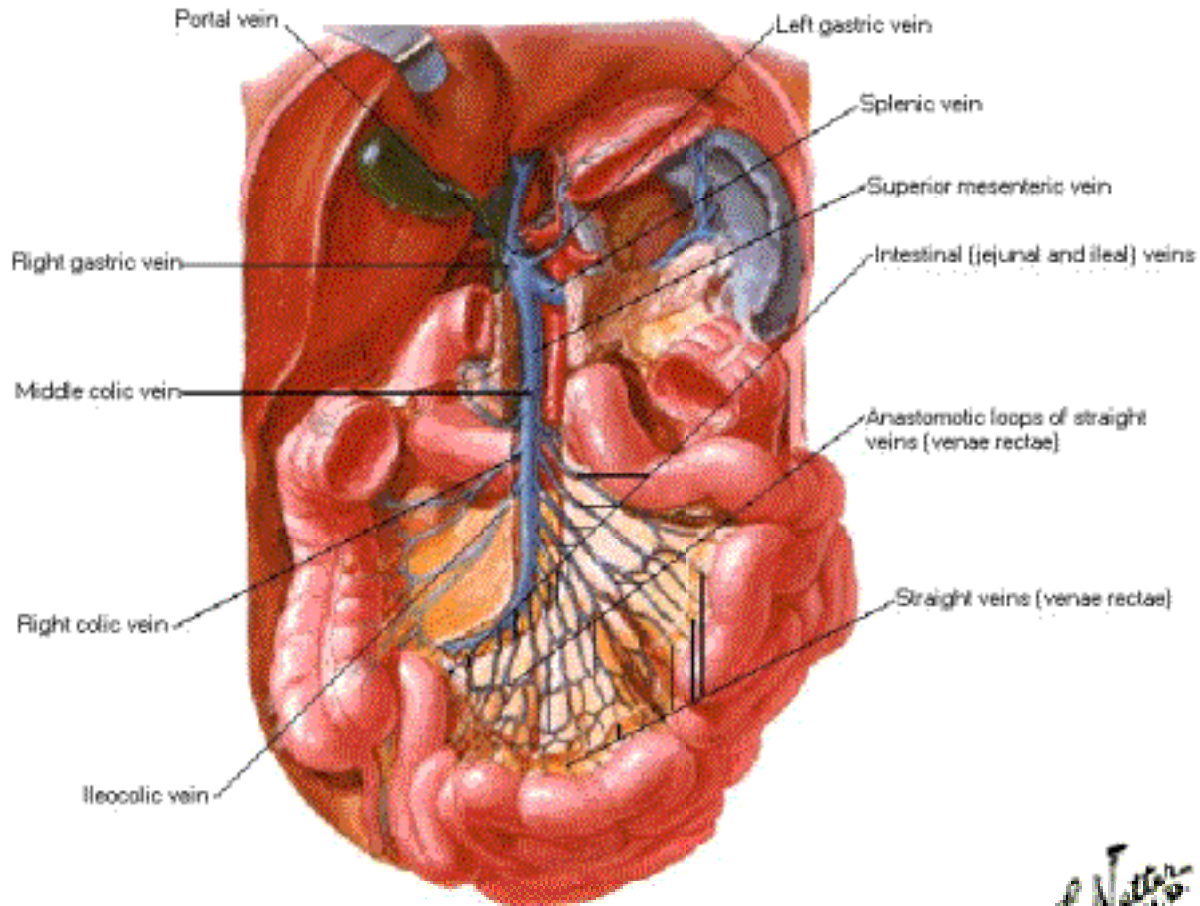


## Veins of Stomach, Duodenum and Pancreas [Continued]



# Veins of Small Intestine

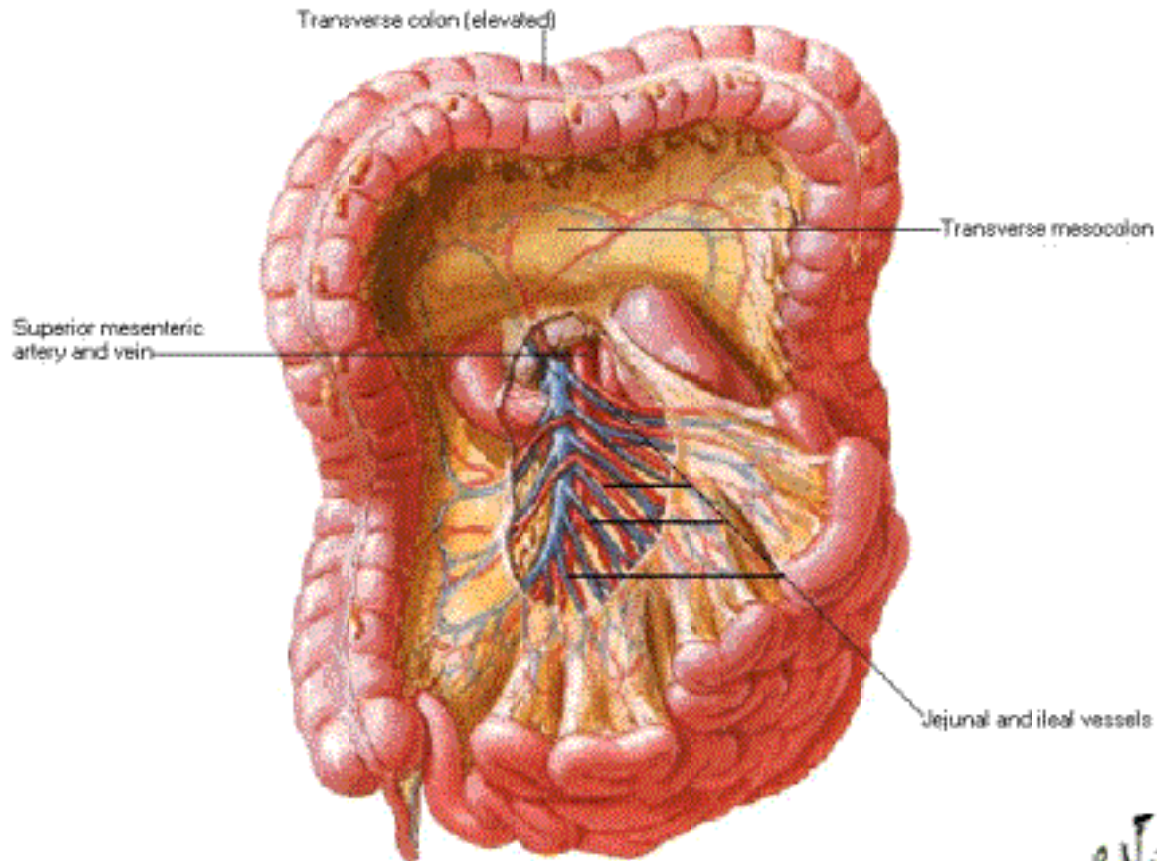
## Transverse Colon Cut





# Veins of Small Intestine

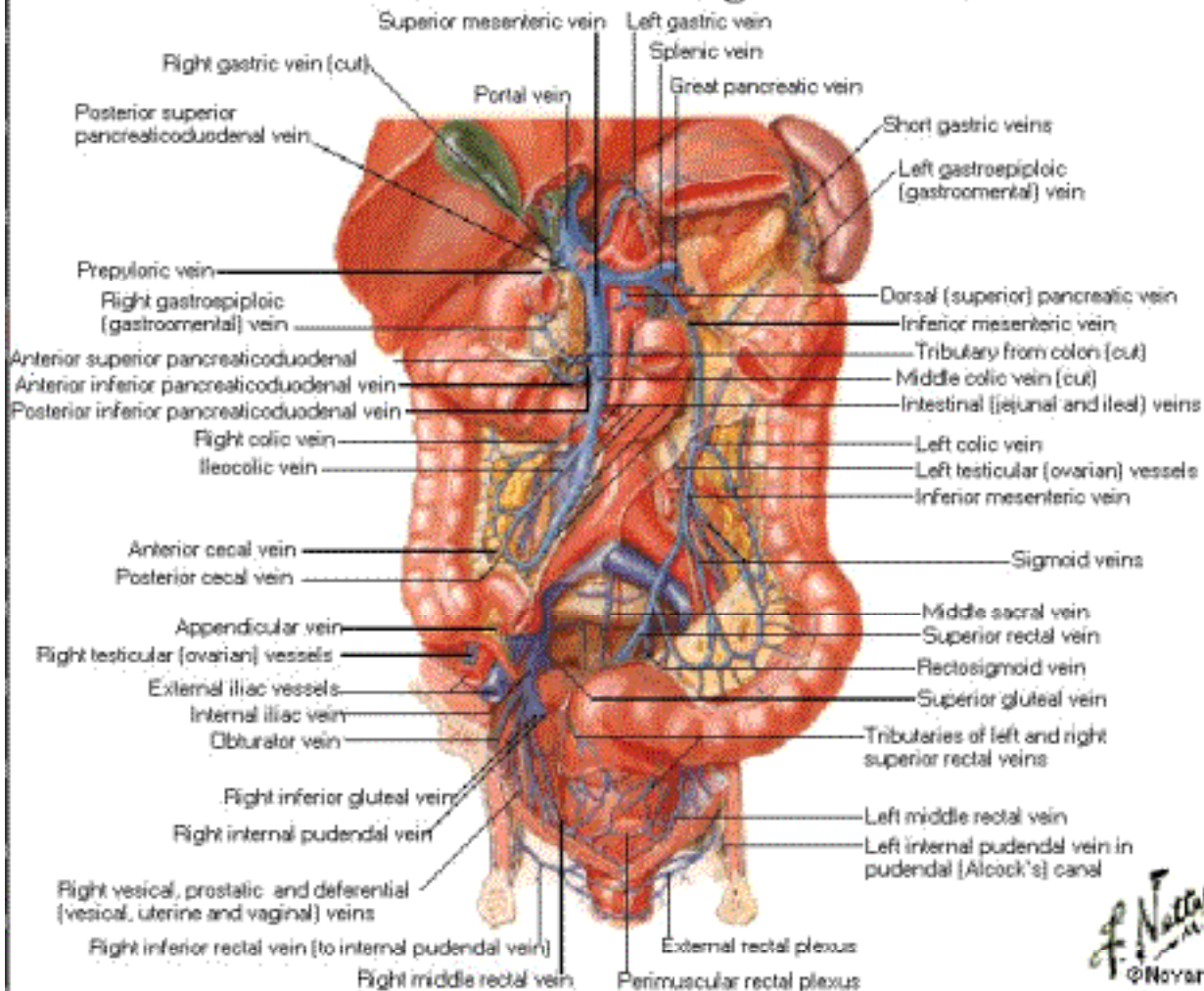
## Transverse Colon Elevated



Relations of superior mesenteric vein and artery in root of mesentery

*F. Net*  
© 2000

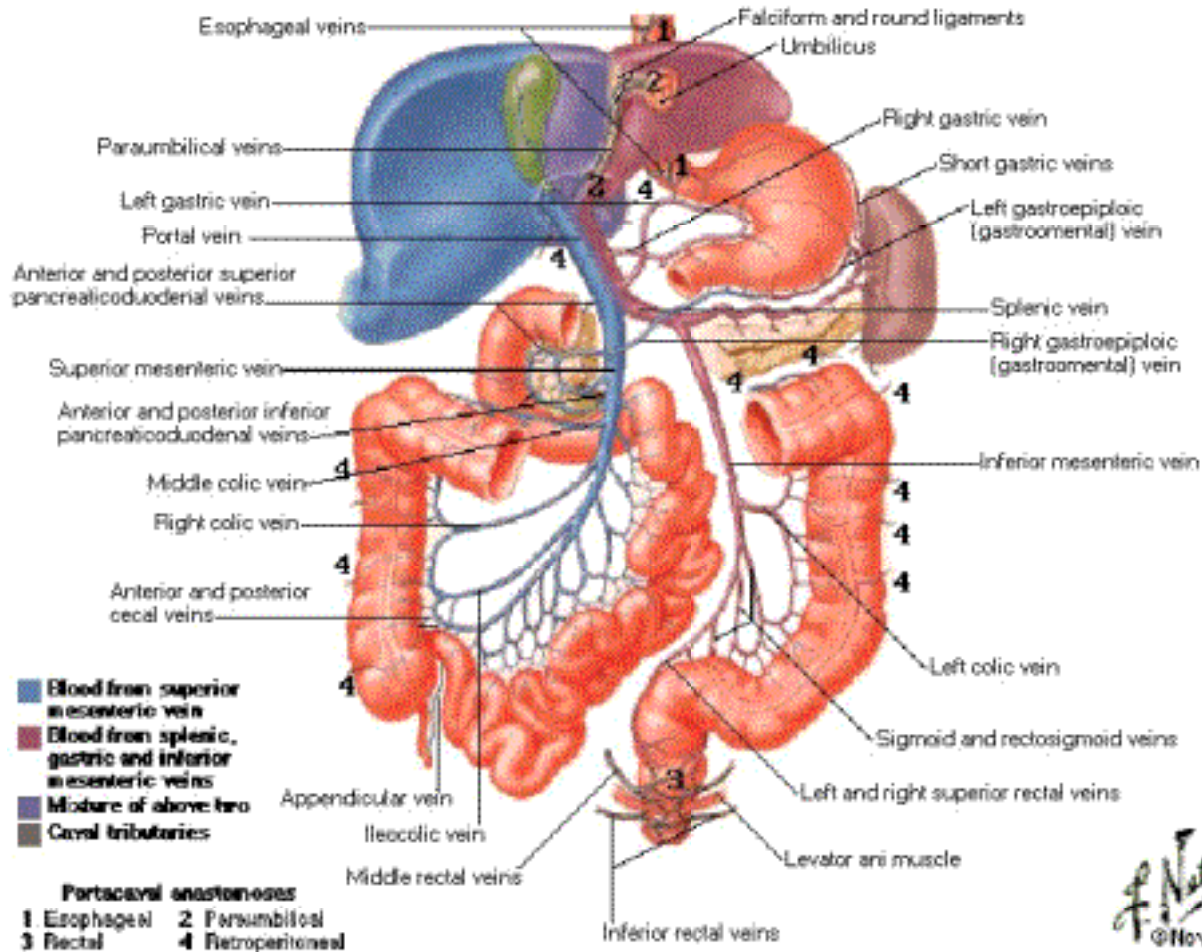
# Veins of Small and Large Intestines



*F. Netter M.D.*  
© Novart

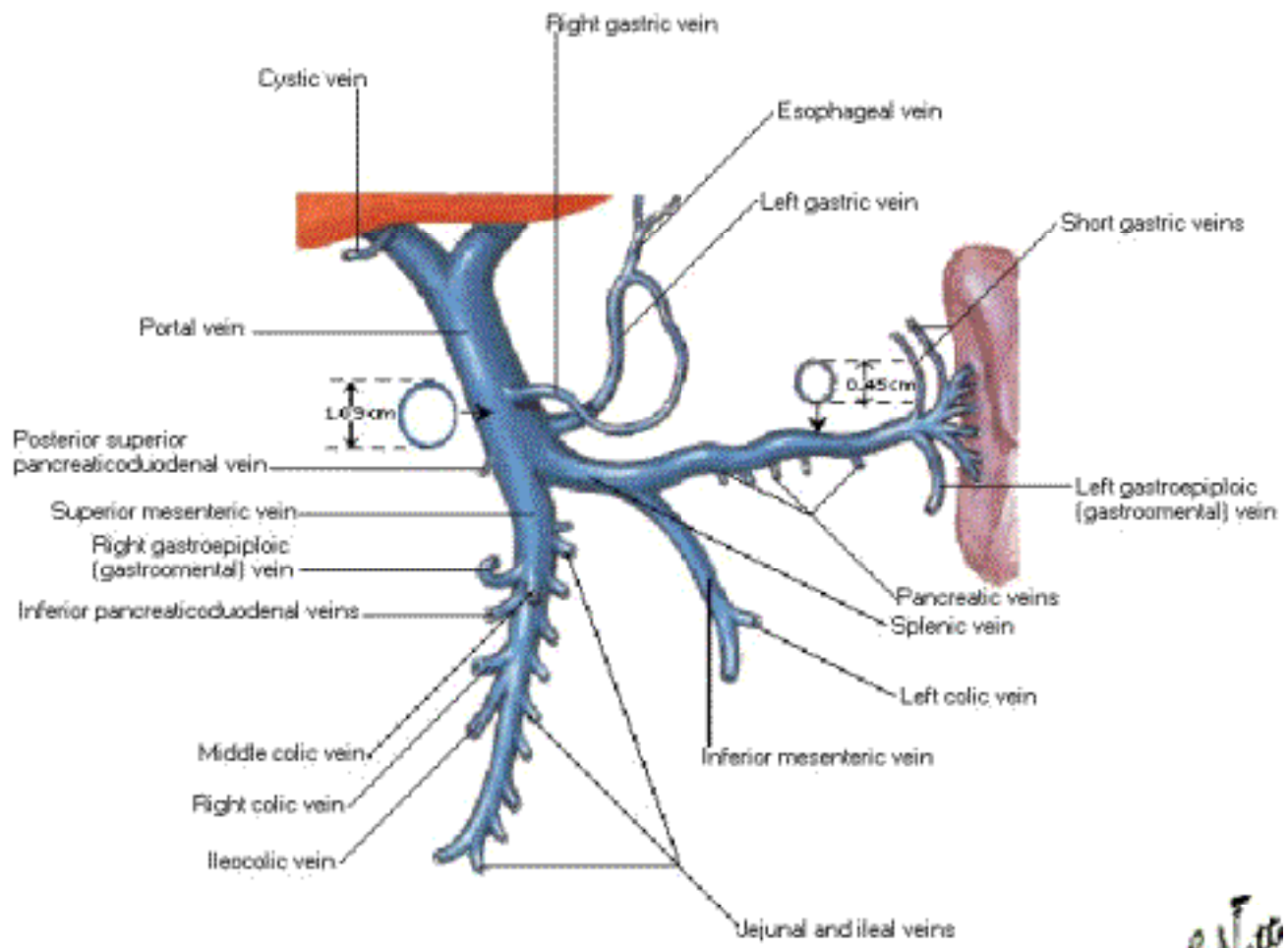
# Portal Vein Tributaries

## Portacaval Anastomoses



*F.N.S.*  
©Nov

# Typical Arrangement of Portal Vein

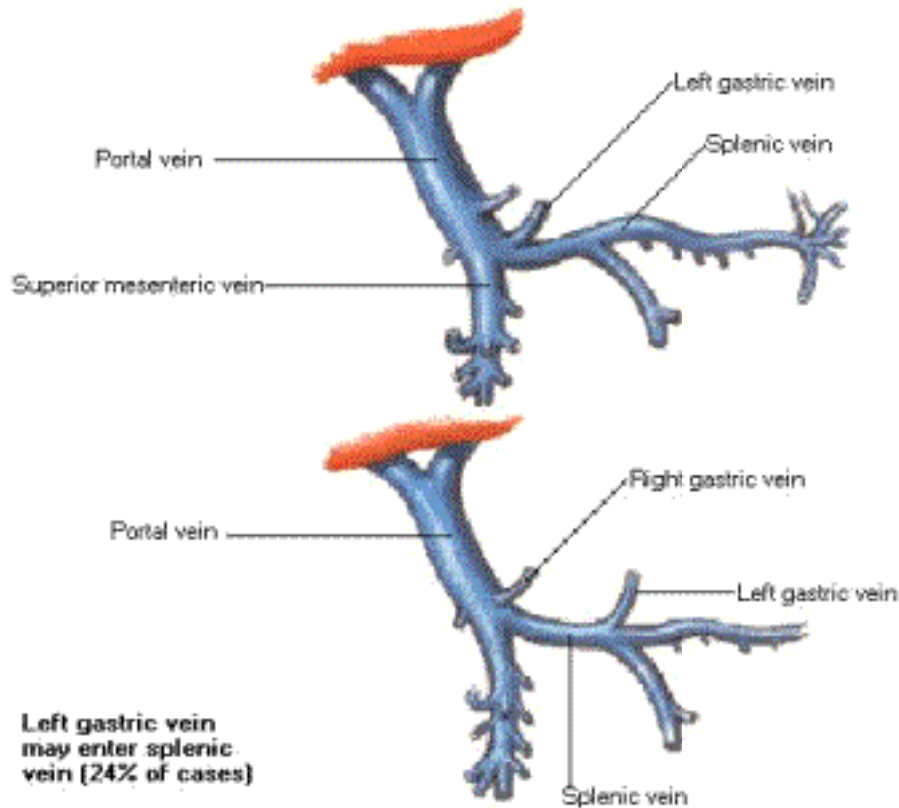


0 1 1 0



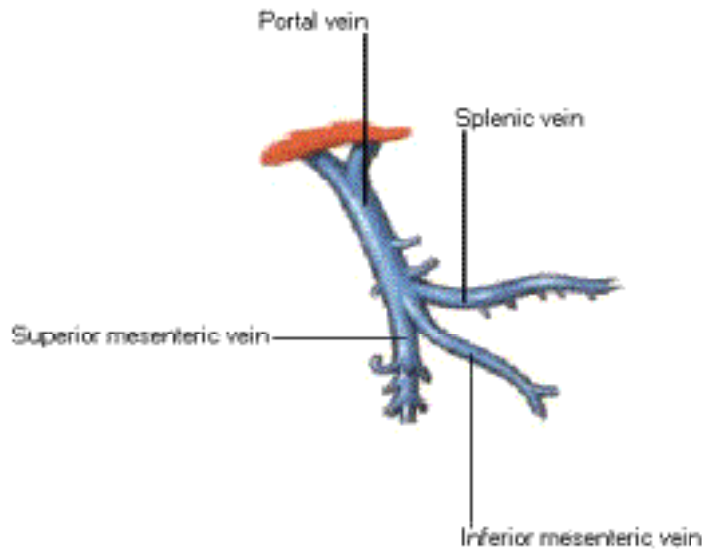
## Variations of Portal Vein

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

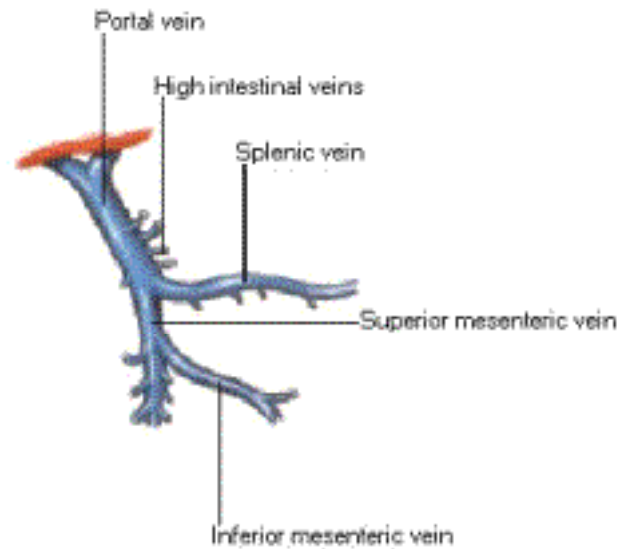


Left gastric vein may enter splenic vein (24% of cases)

## Variations of Portal Vein [Continued]



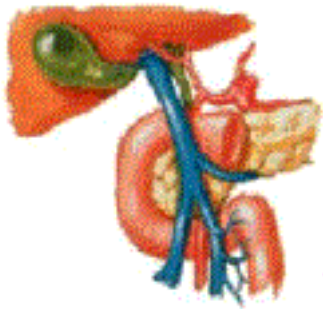
**Inferior mesenteric vein may enter junction of splenic and superior mesenteric veins**



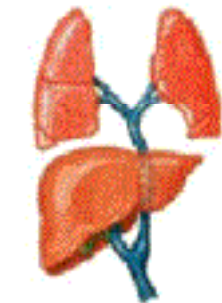
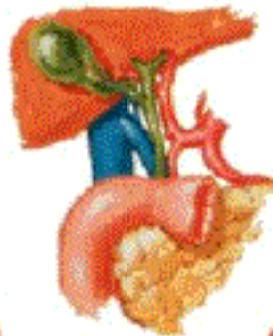
**Inferior mesenteric vein may enter superior mesenteric vein**

## 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)

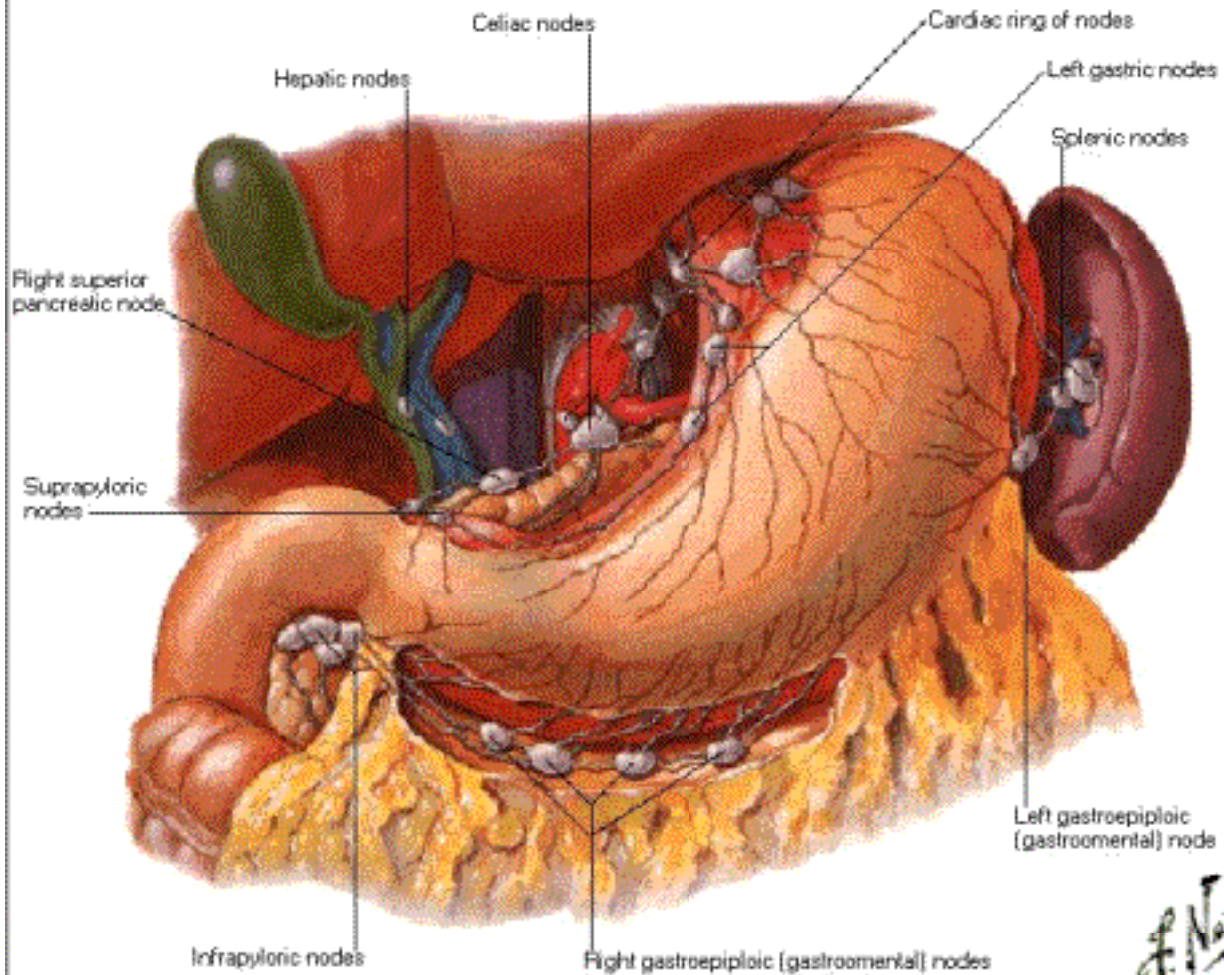


Pulmonary vein may enter portal vein



Congenital stricture of portal vein

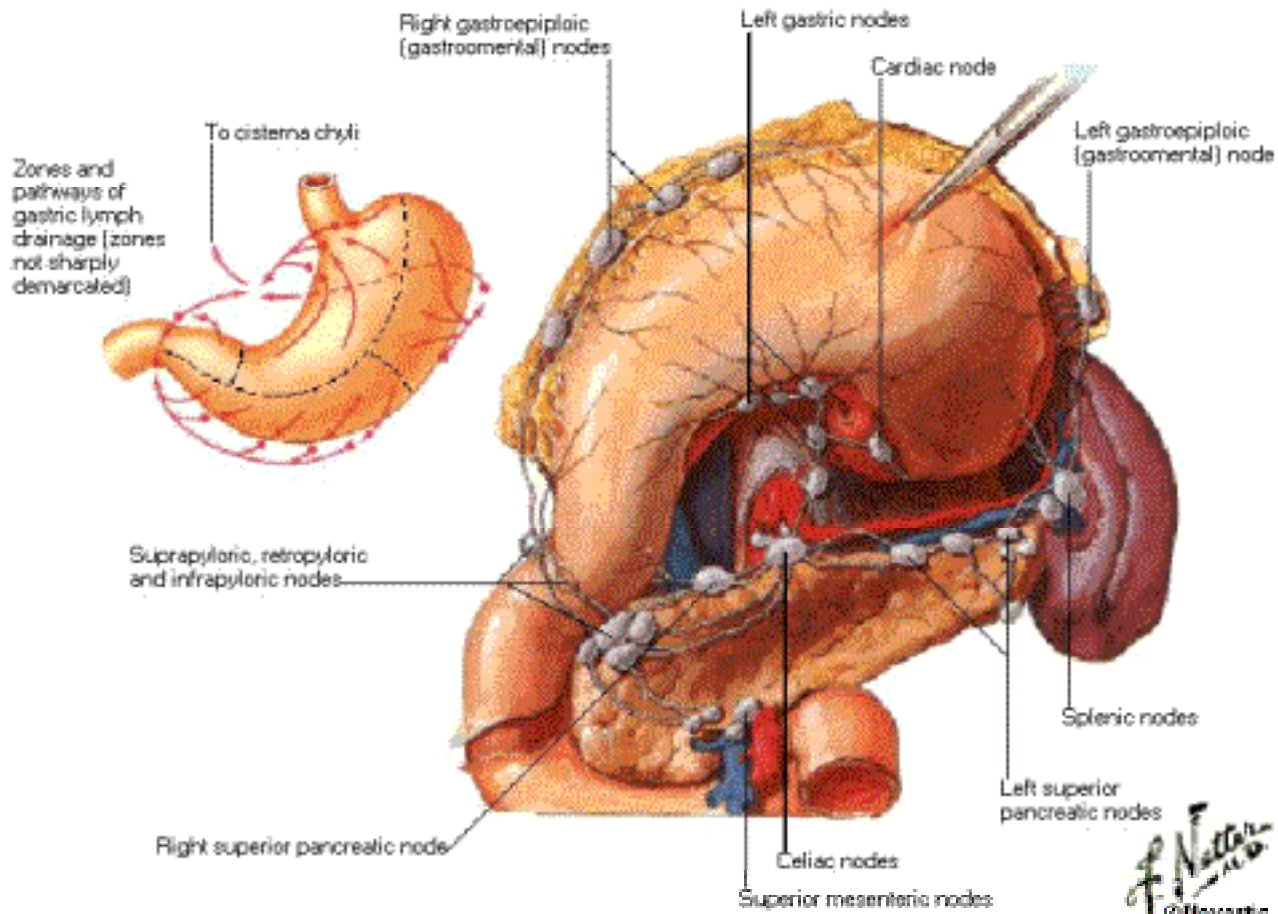
# Lymph Vessels and Nodes of Stomach



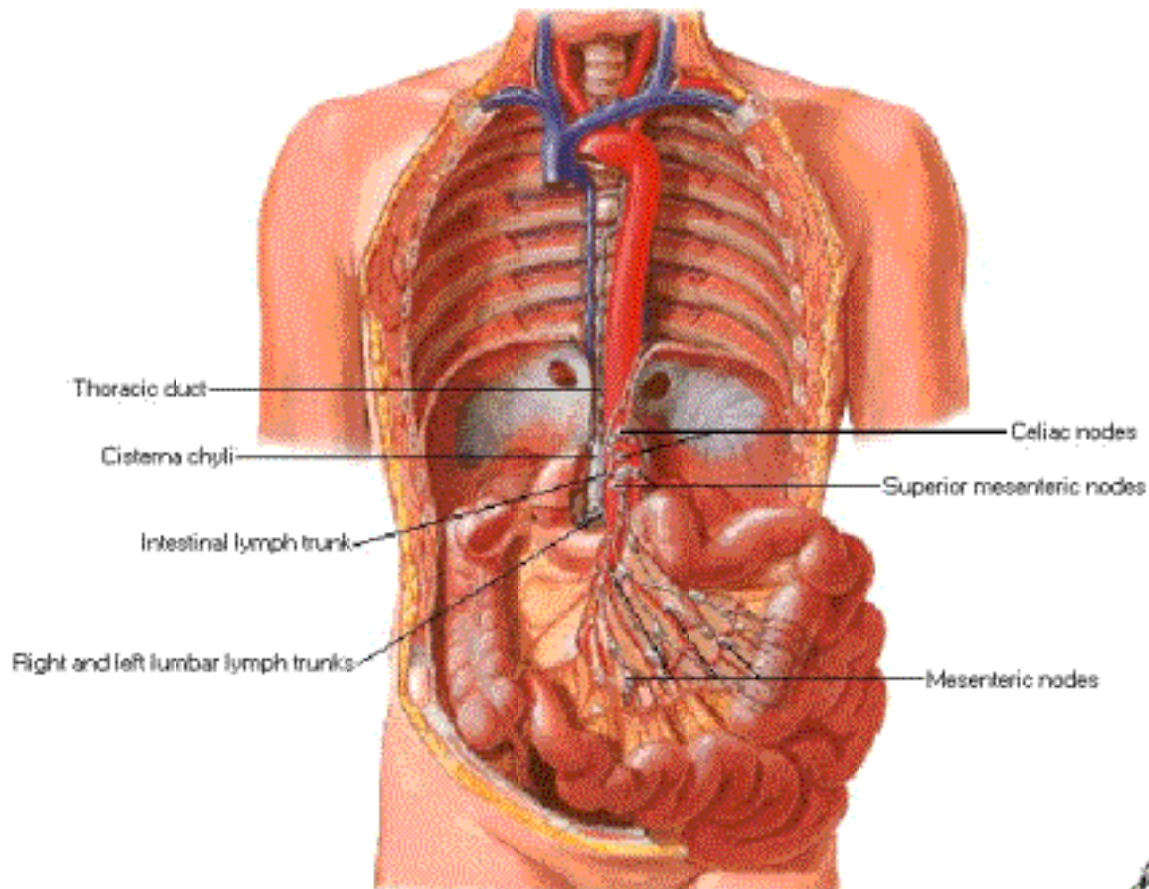


# Lymph Vessels and Nodes of Stomach

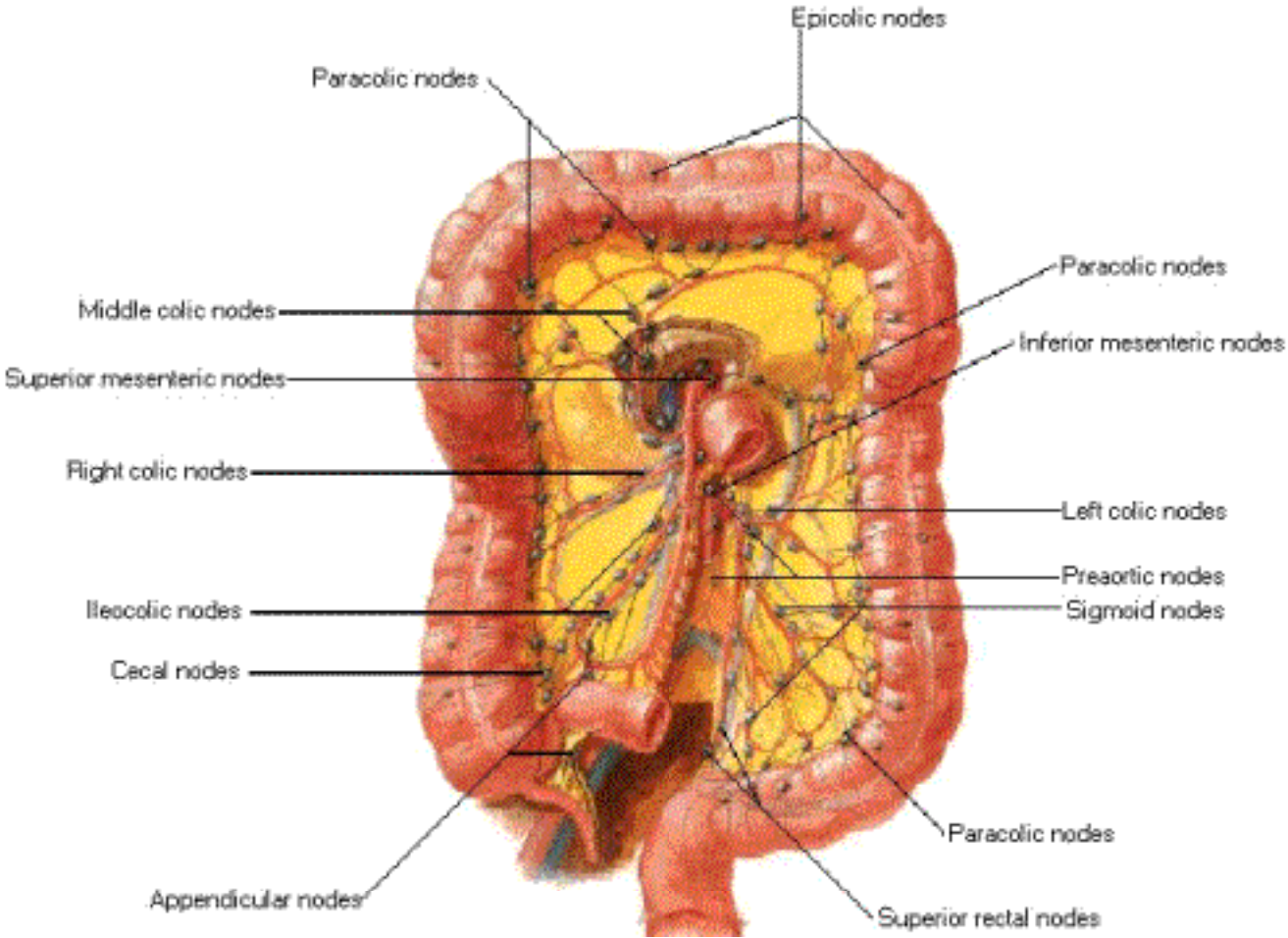
## Stomach Reflected



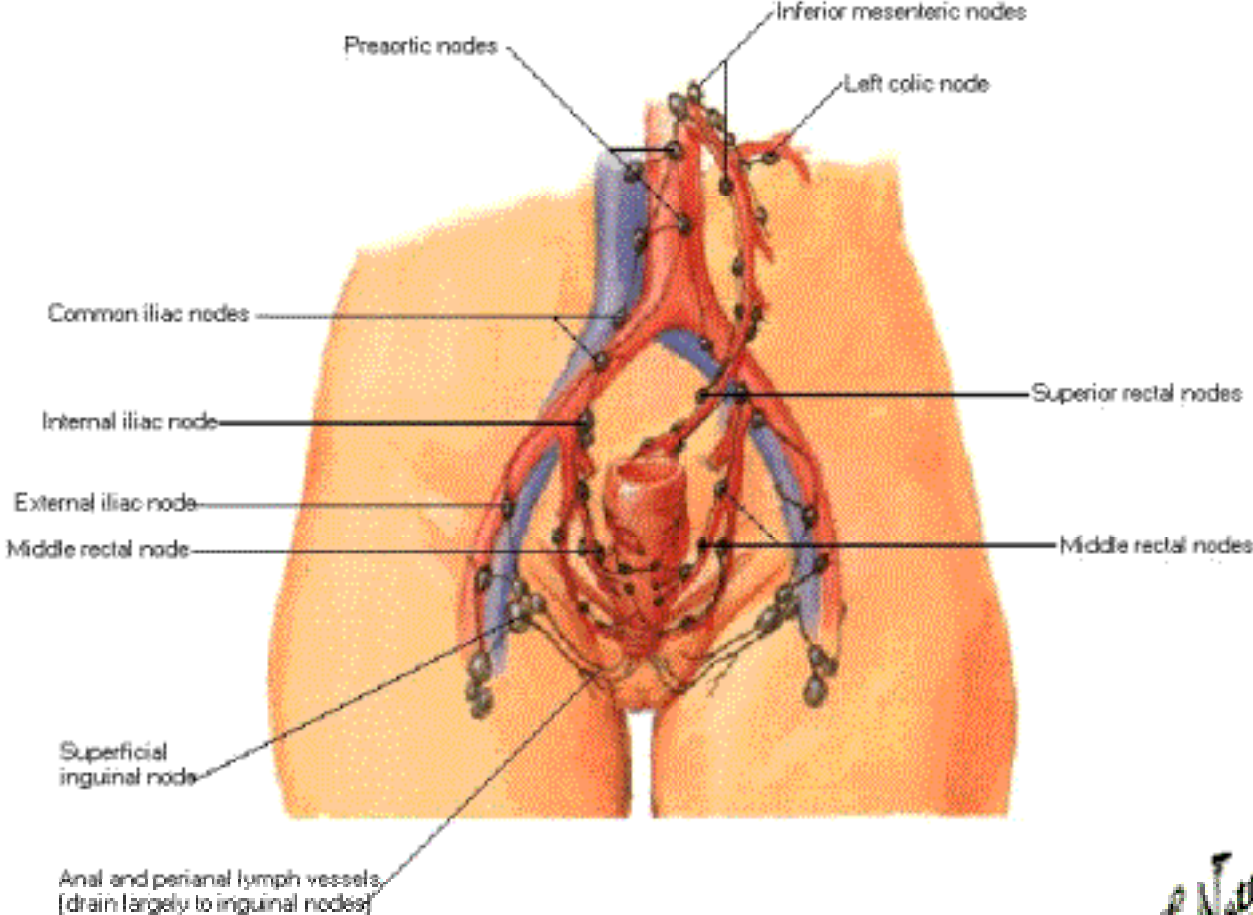
## Lymph Vessels and Nodes of Small Intestine



# Lymph Vessels and Nodes of Large Intestine



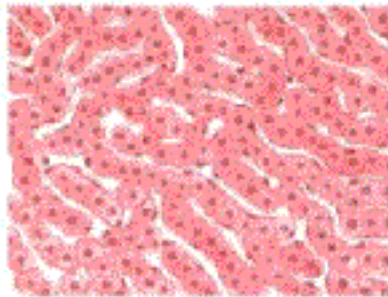
# Lymph Vessels and Nodes of Large Intestine [Continued]



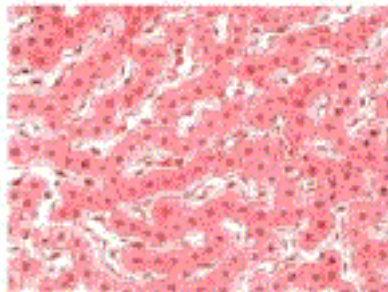


# Lymph Vessels and Nodes of Liver

## Histology

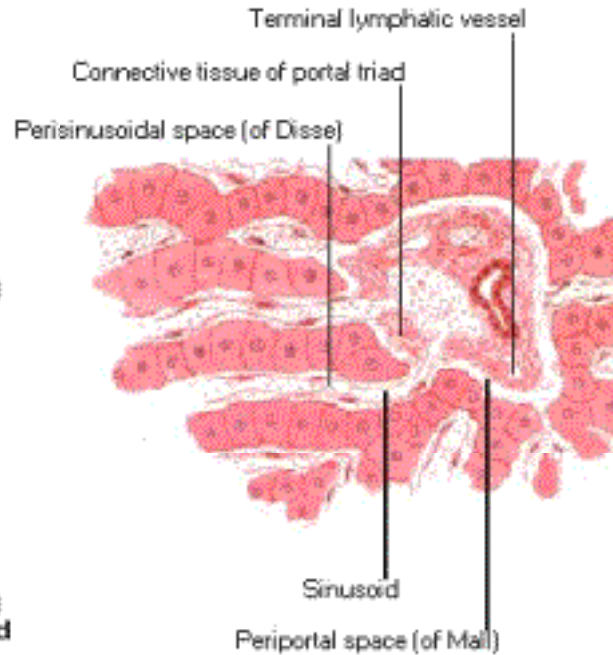


**Perisinusoidal spaces (of Disse) very narrow or obliterated**

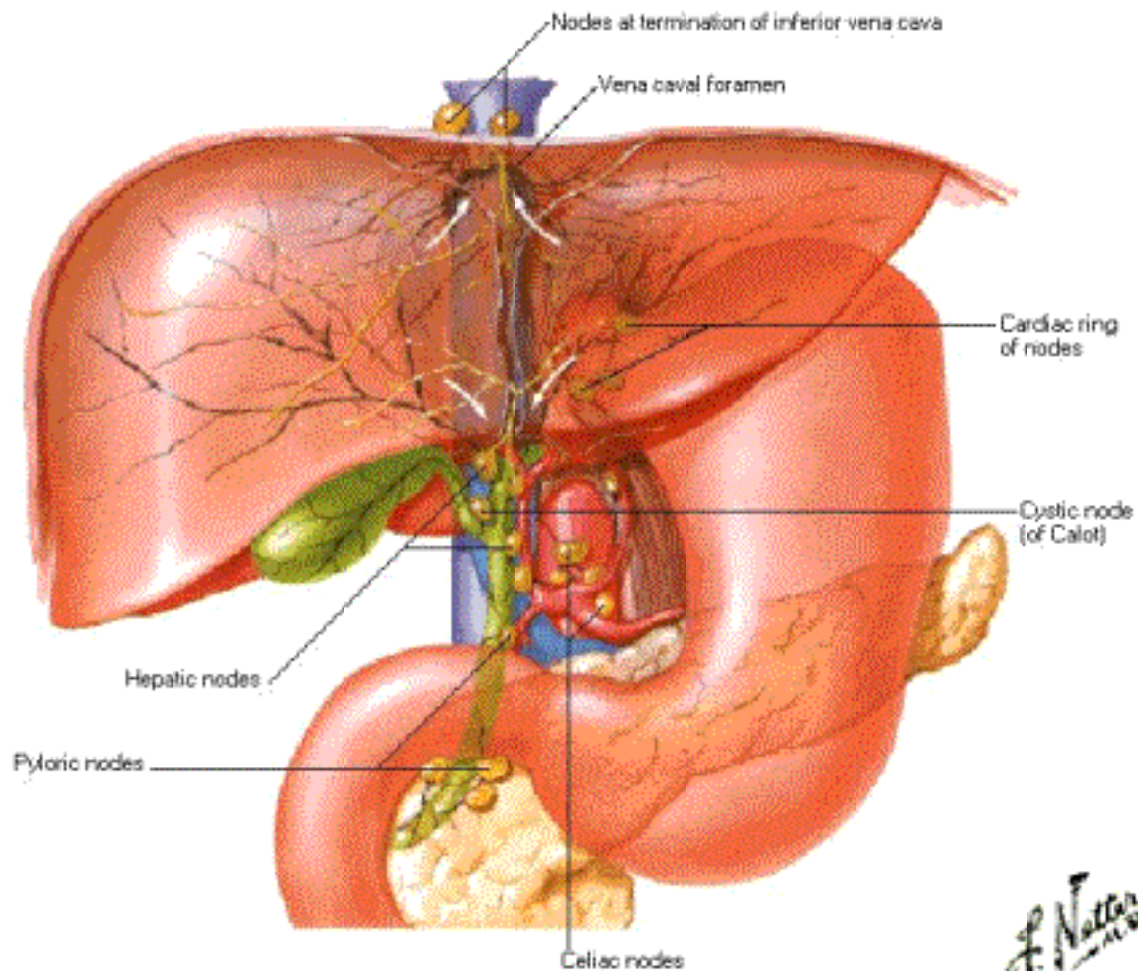


**Perisinusoidal spaces (of Disse) markedly widened**

Low - power sections of liver

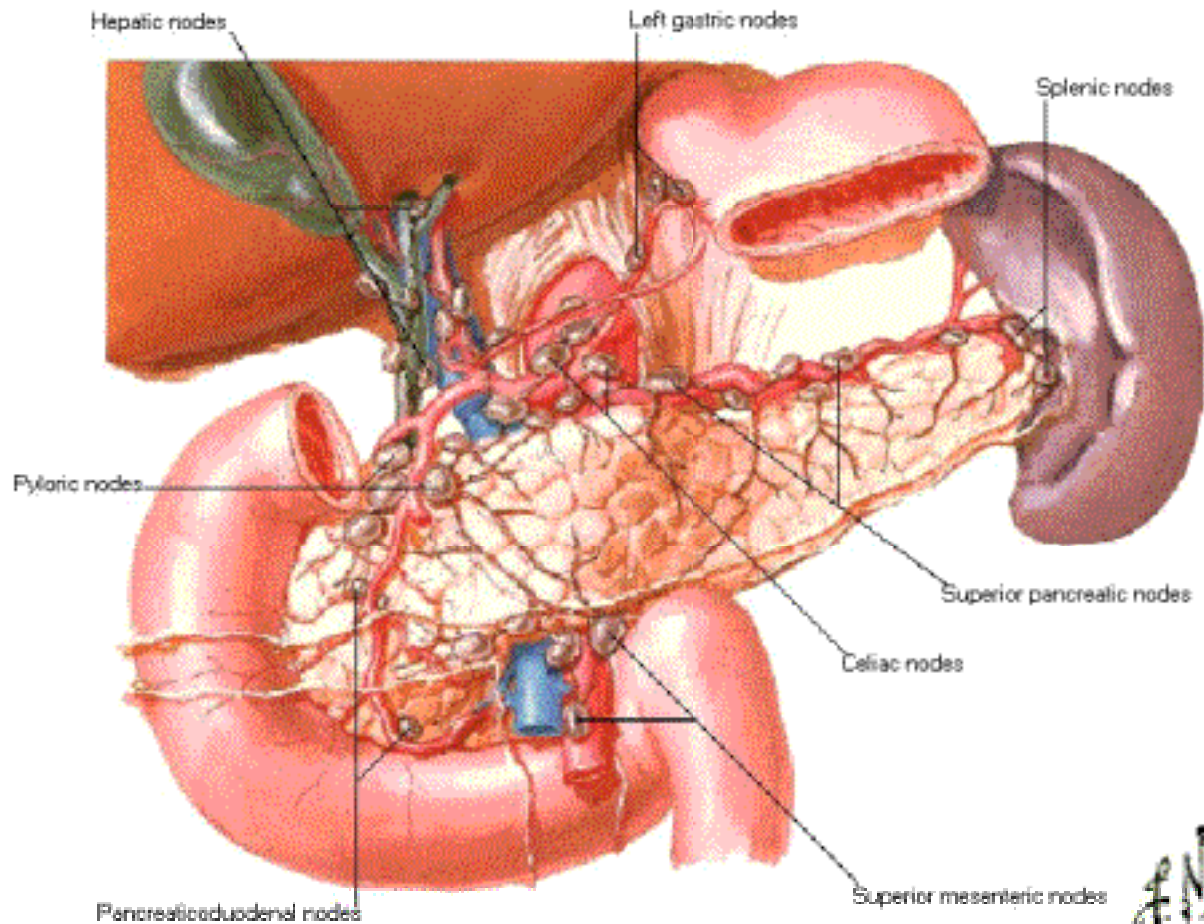


## Lymph Vessels and Nodes of Liver



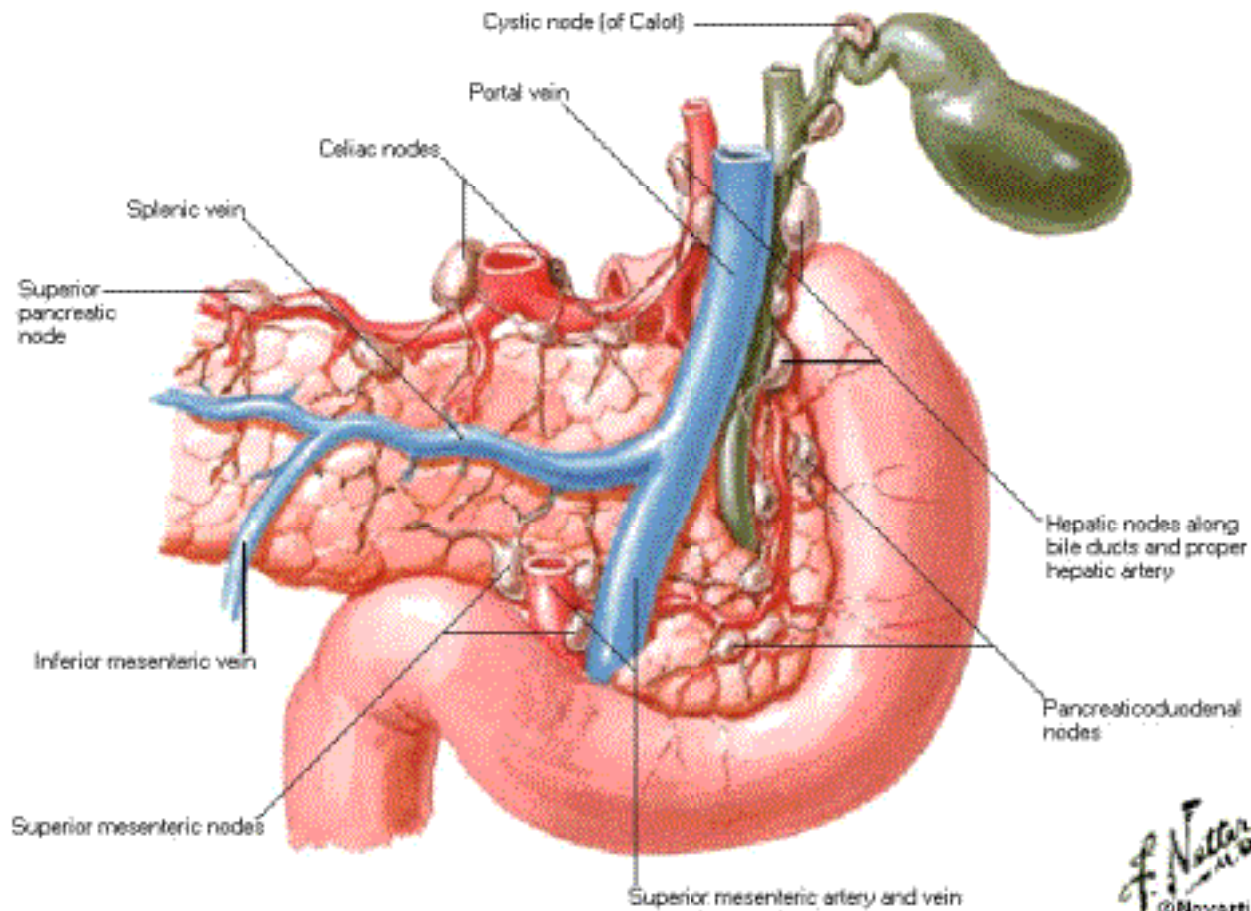
# Lymph Vessels and Nodes of Pancreas

## Anterior View



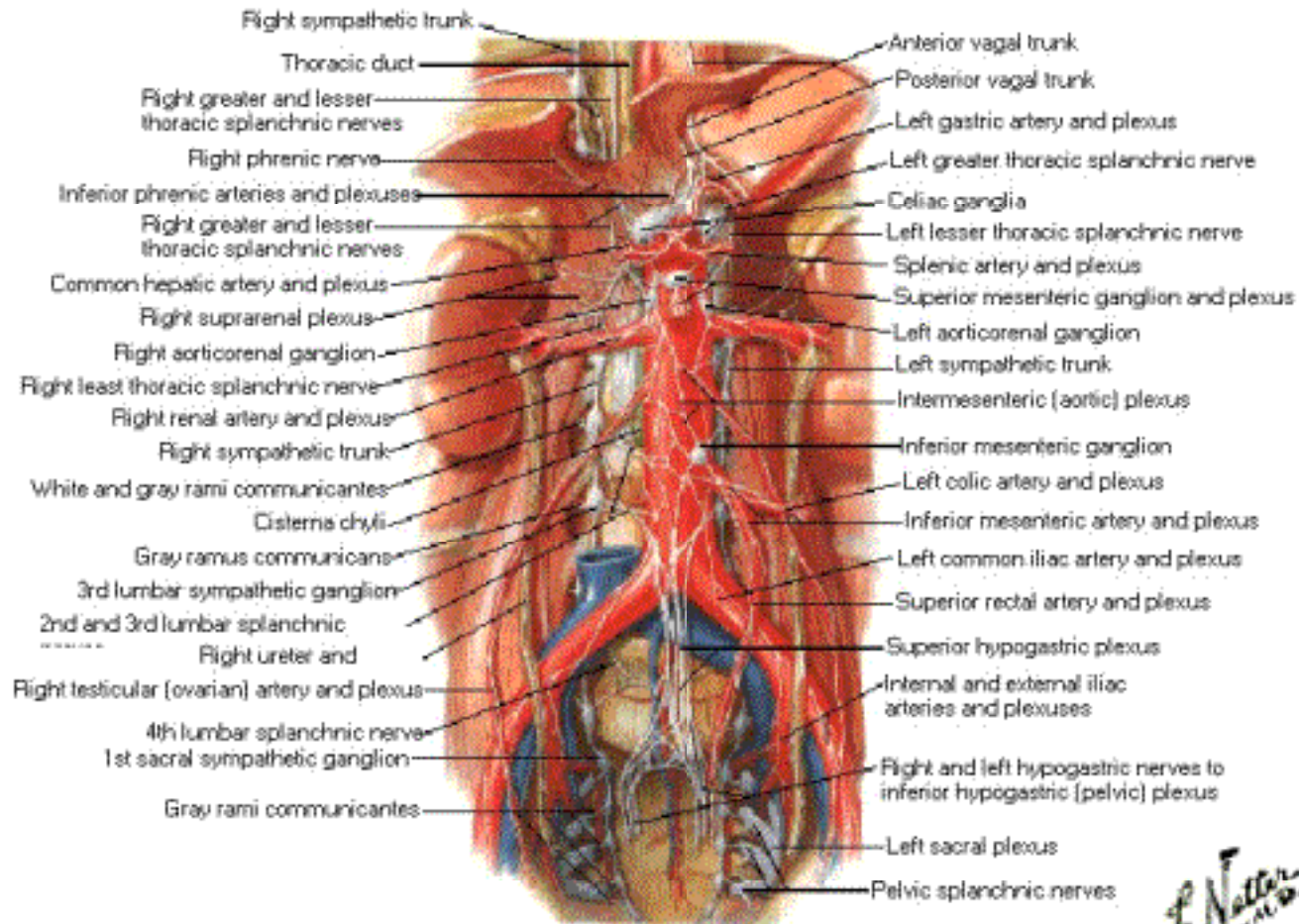
# Lymph Vessels and Nodes of Pancreas

## Posterior View

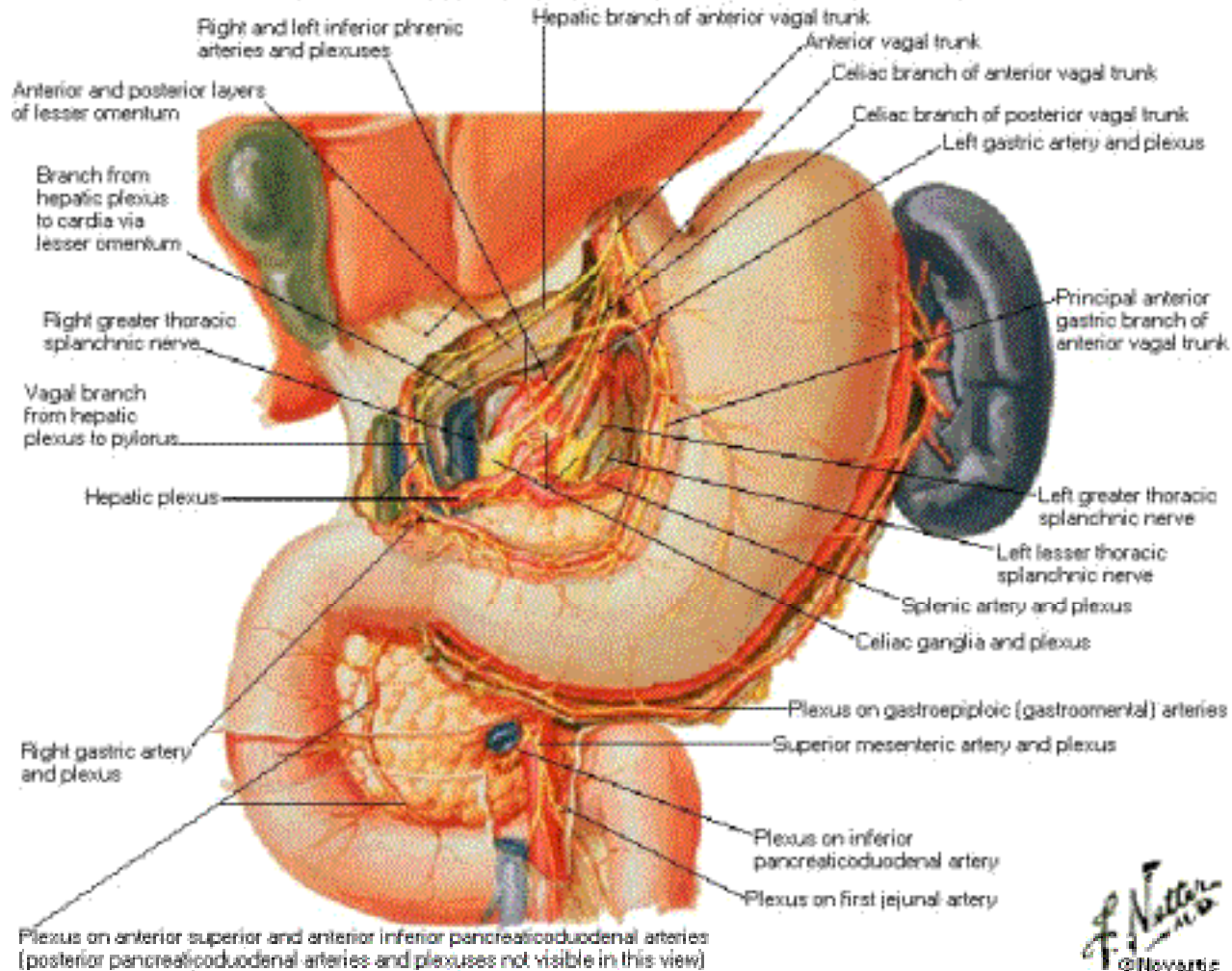




# Autonomic Nerves and Ganglia of Abdomen



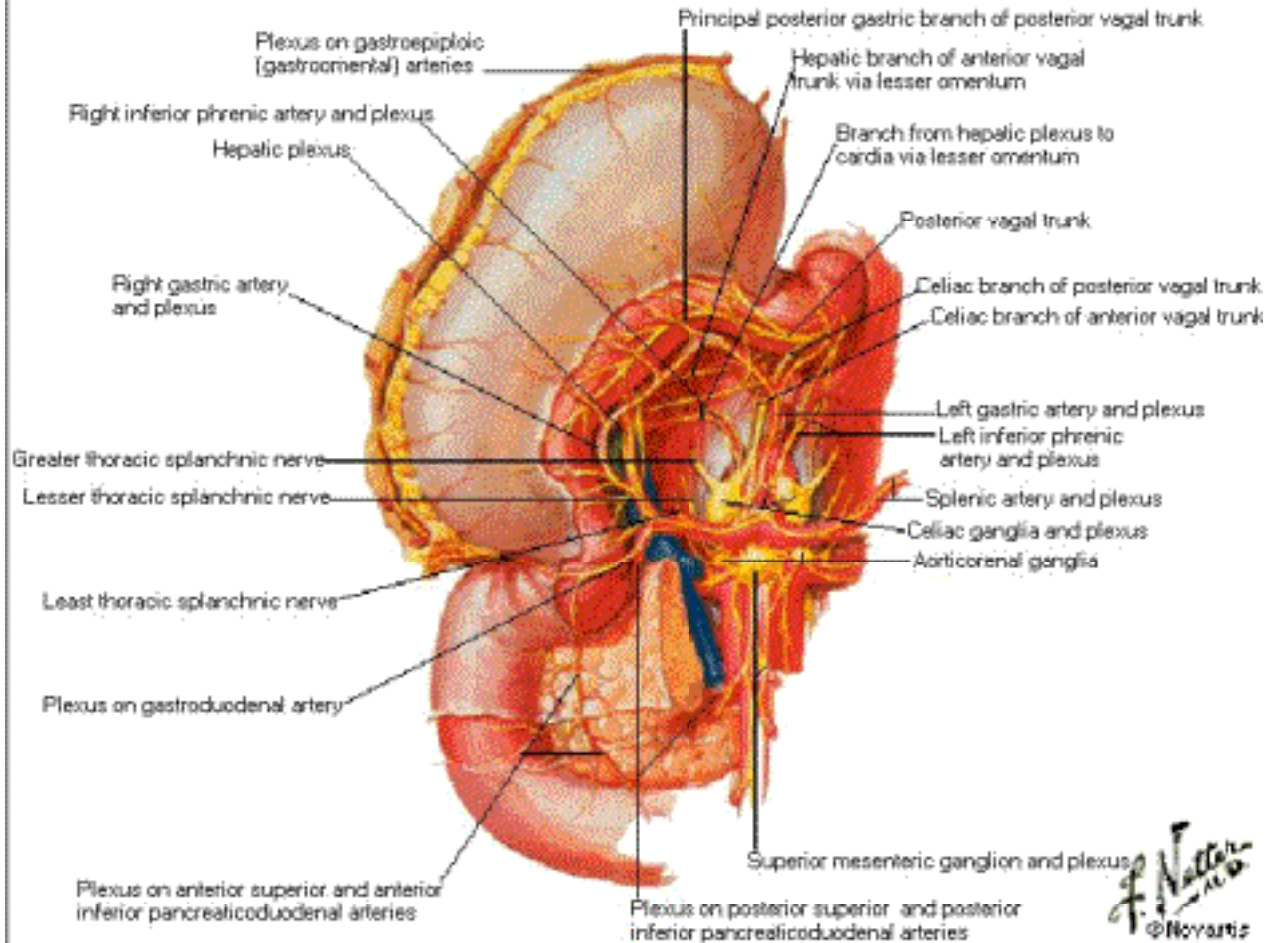
# Nerves of Stomach and Duodenum



*F. Netter M.D.*  
 © Elsevier

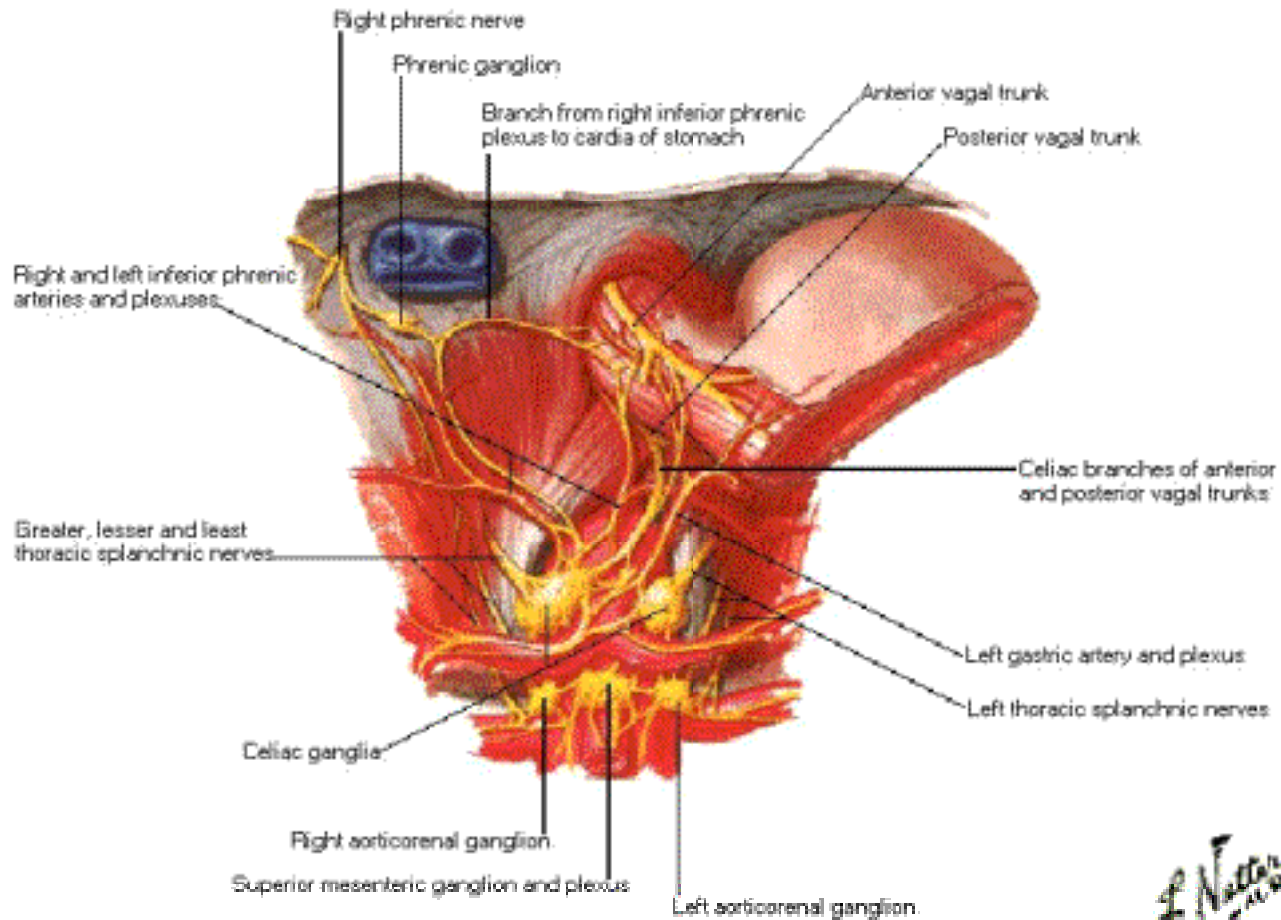
# Nerves of Stomach and Duodenum

## View with Stomach Reflected



# Nerves of Stomach and Duodenum

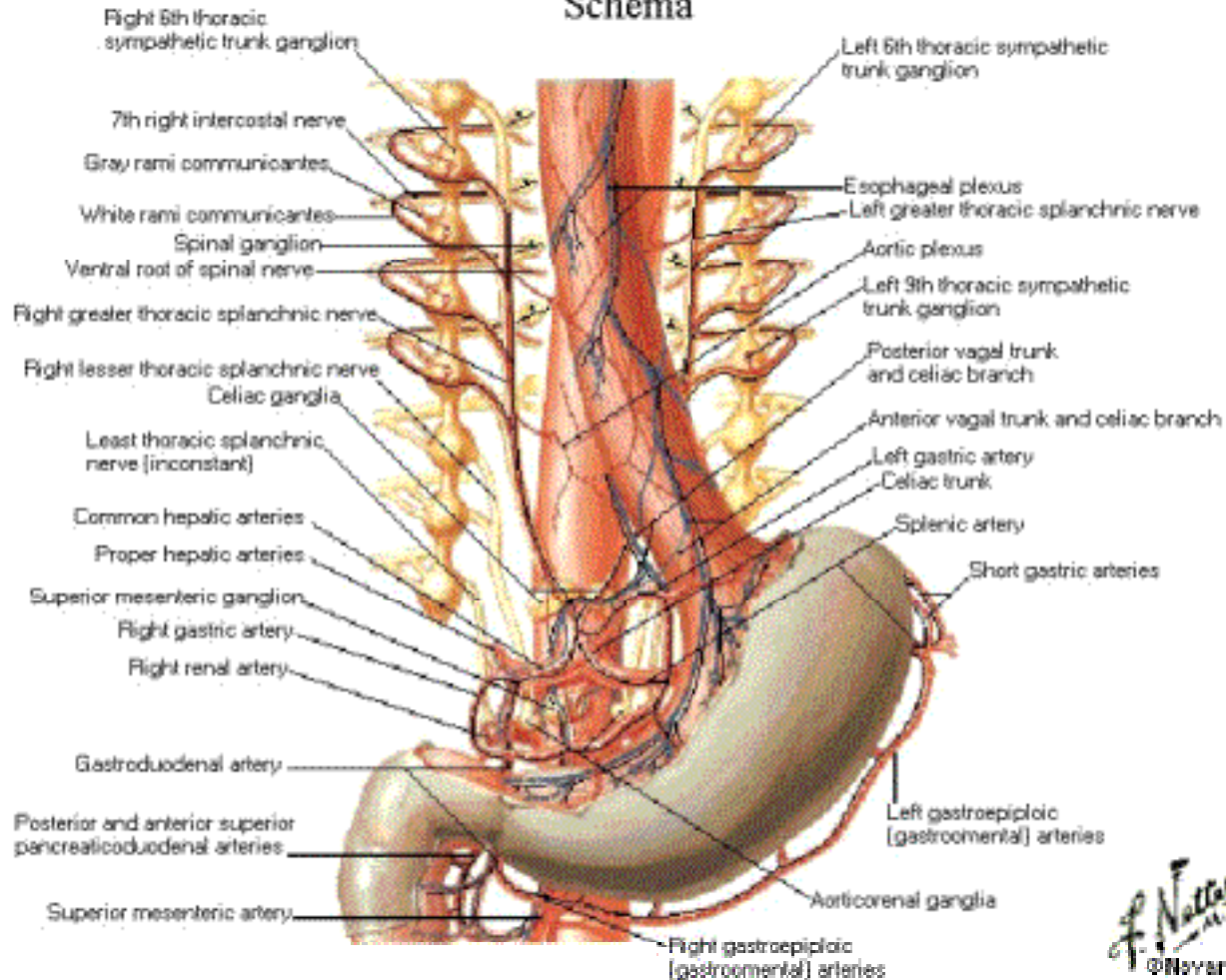
## Hiatal Region





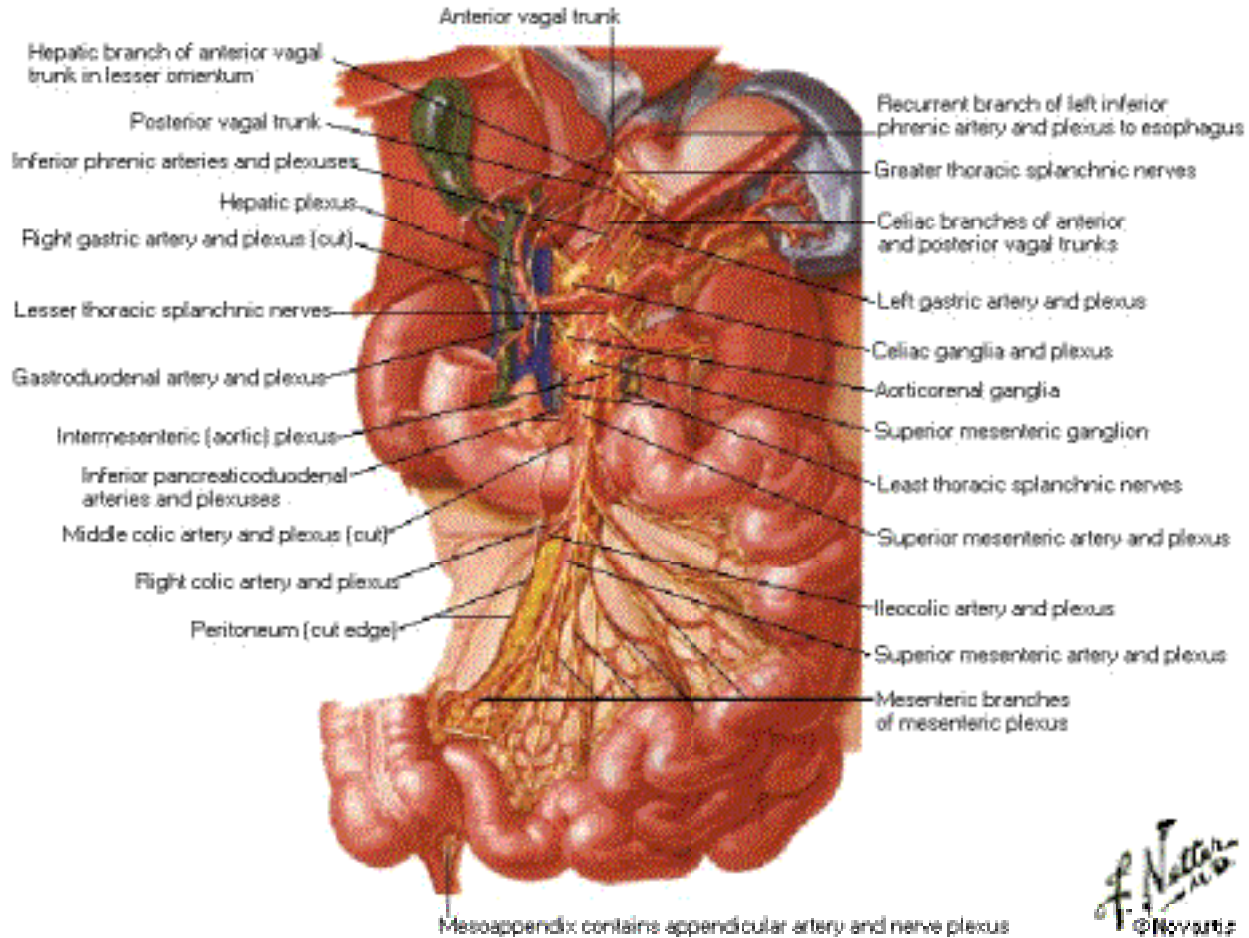
# Innervation of Stomach and Duodenum

## Schema

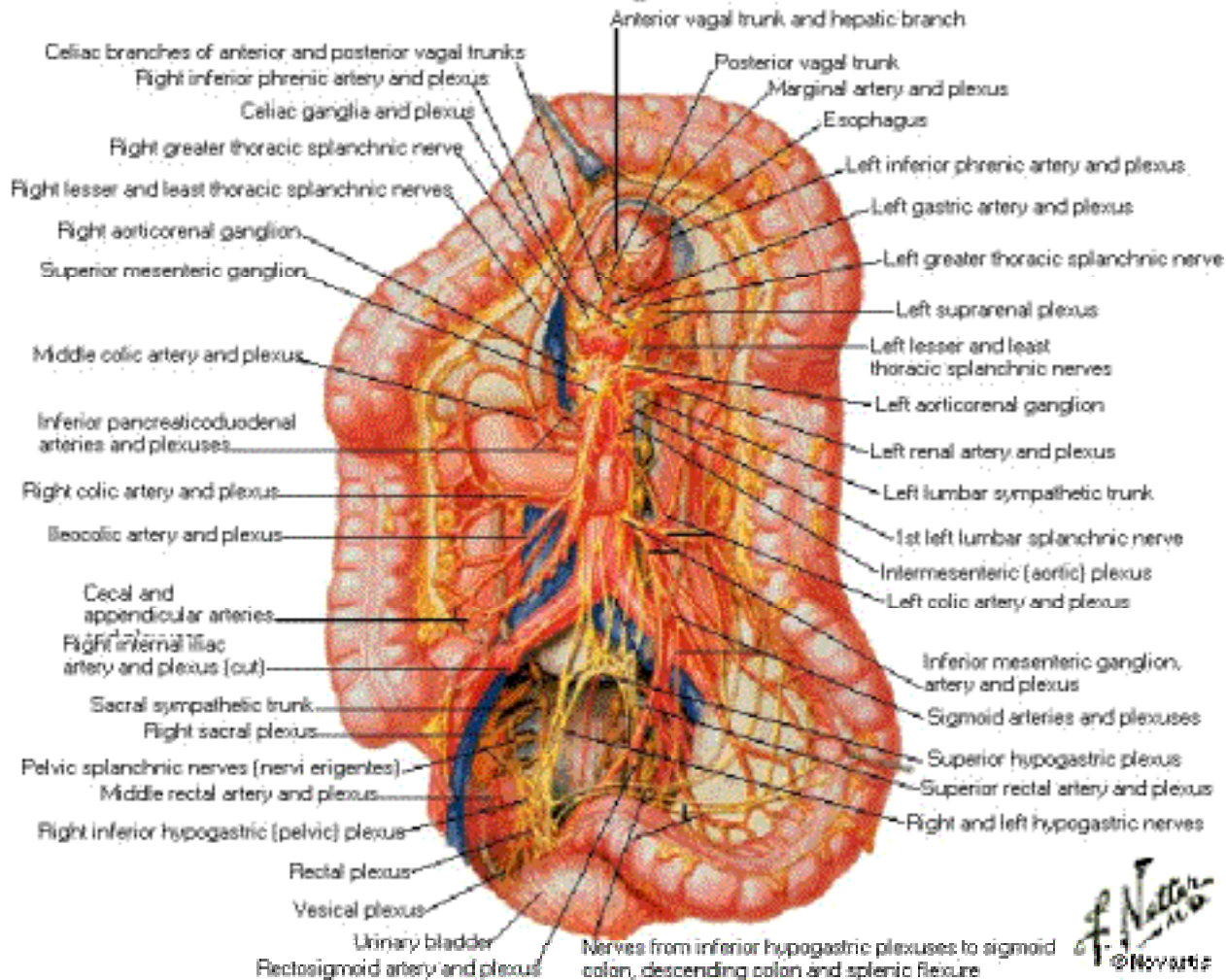


*F. Natta*  
© Nover

# Nerves of Small Intestine

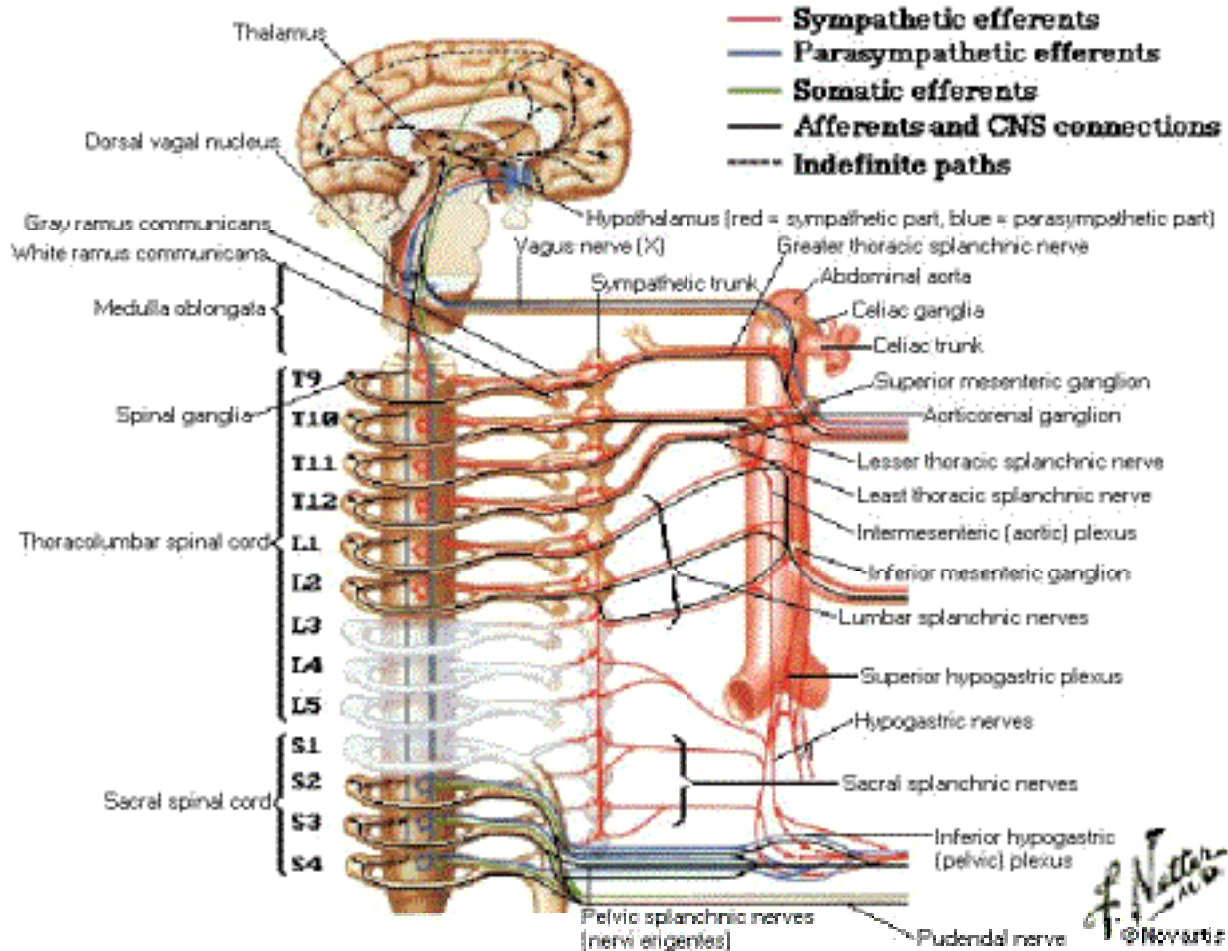


# Nerves of Large Intestine



# Innervation of Small and Large Intestines

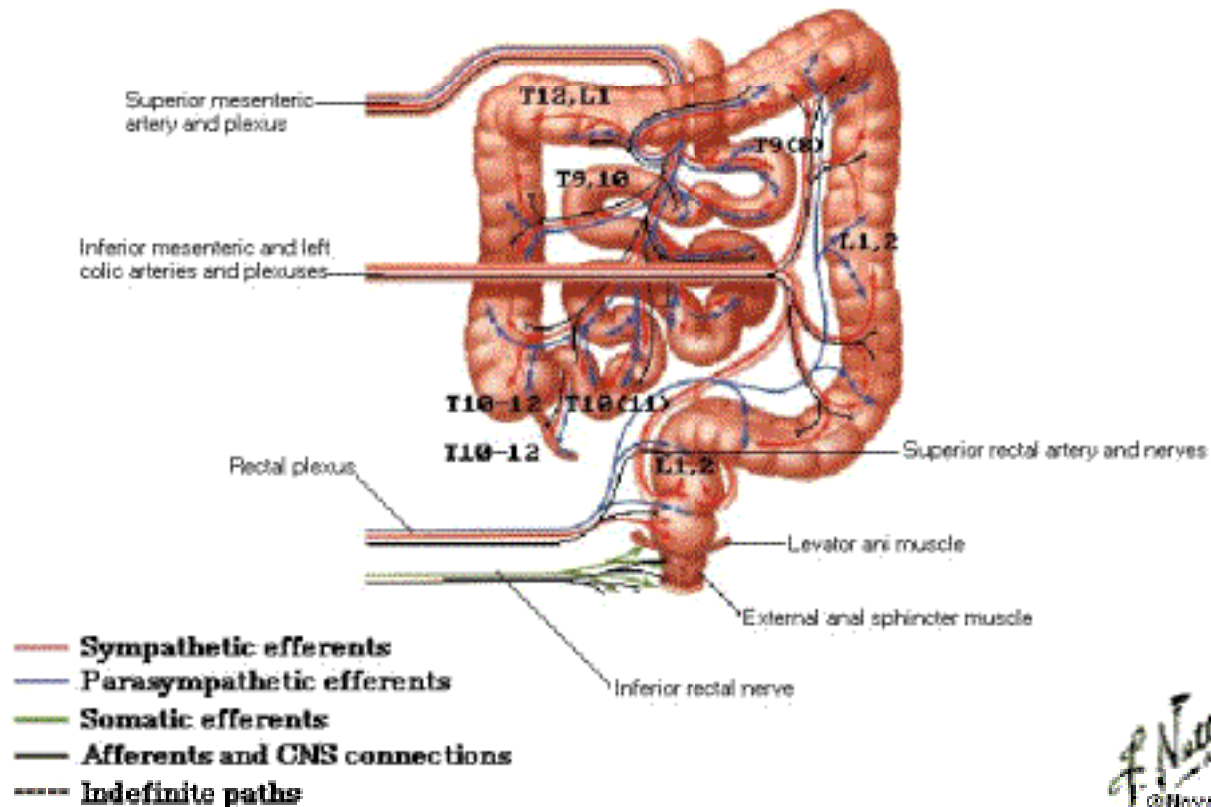
## Left Side of Schema





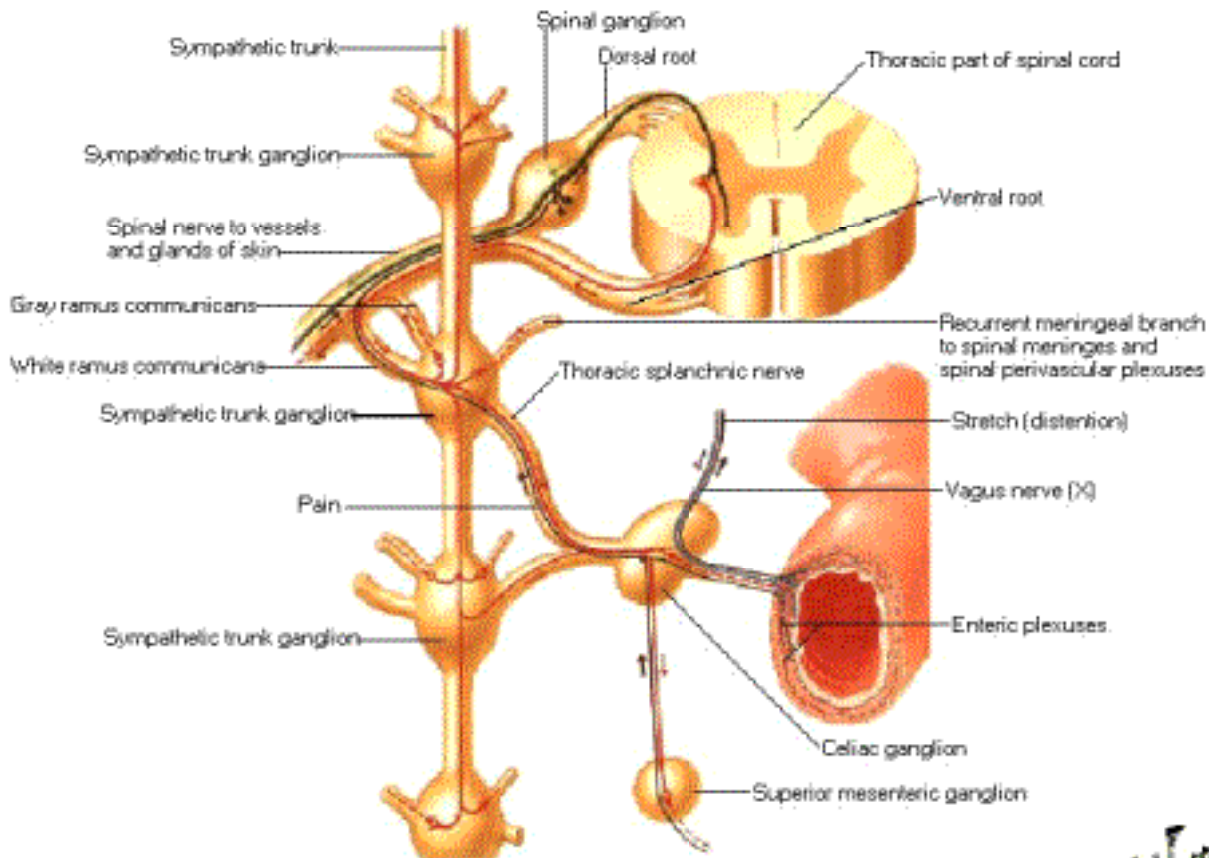
# Innervation of Small and Large Intestines

## Right Side of Schema



# Autonomic Reflex Pathways

## Schema

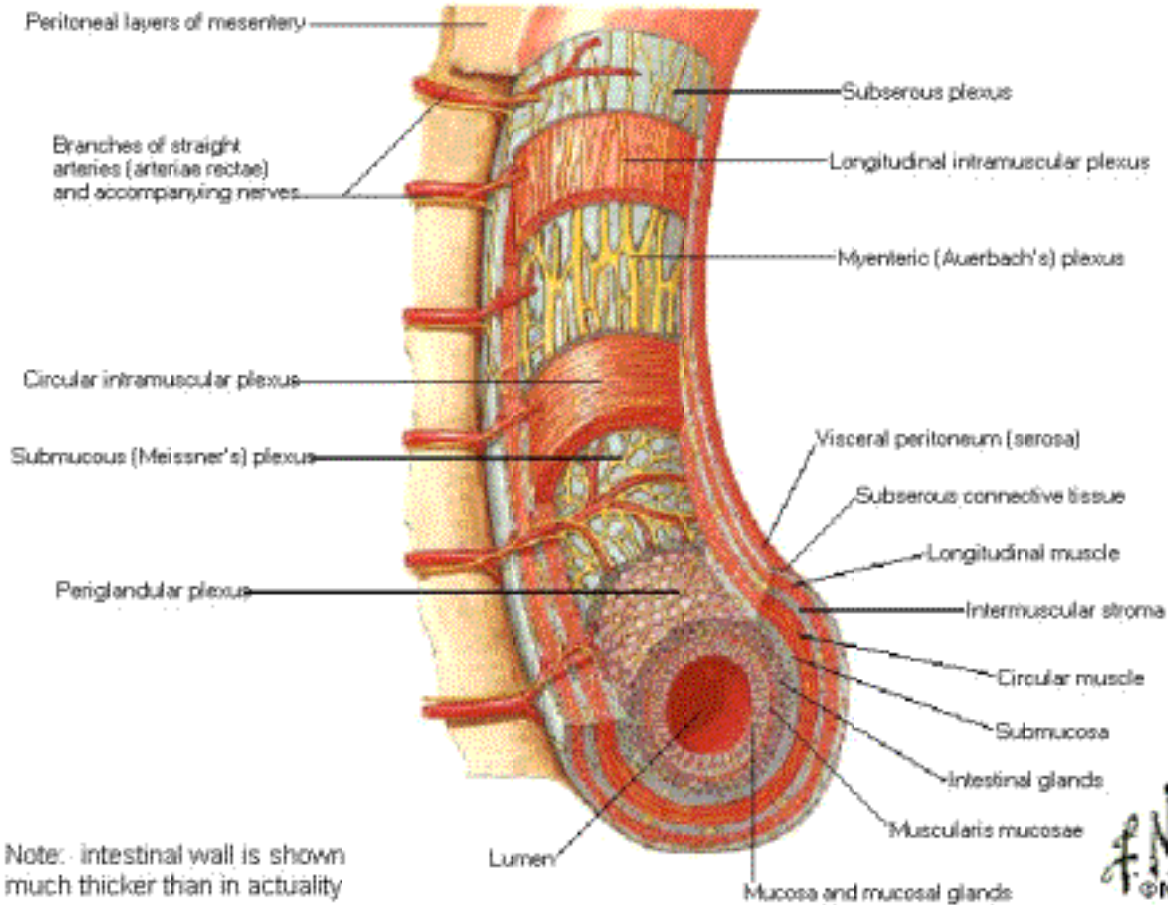


<b>Sympathetic fibers</b>	<b>Parasympathetic fibers</b>	<b>Afferent fibers</b>
Preganglionic ———	Preganglionic ———	Antidromic ———
Postganglionic - - - -	Postganglionic - - - -	conduction ———



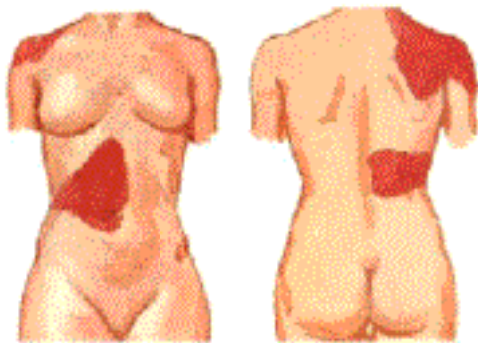
# Intrinsic Autonomic Plexuses of Intestine

## Schema



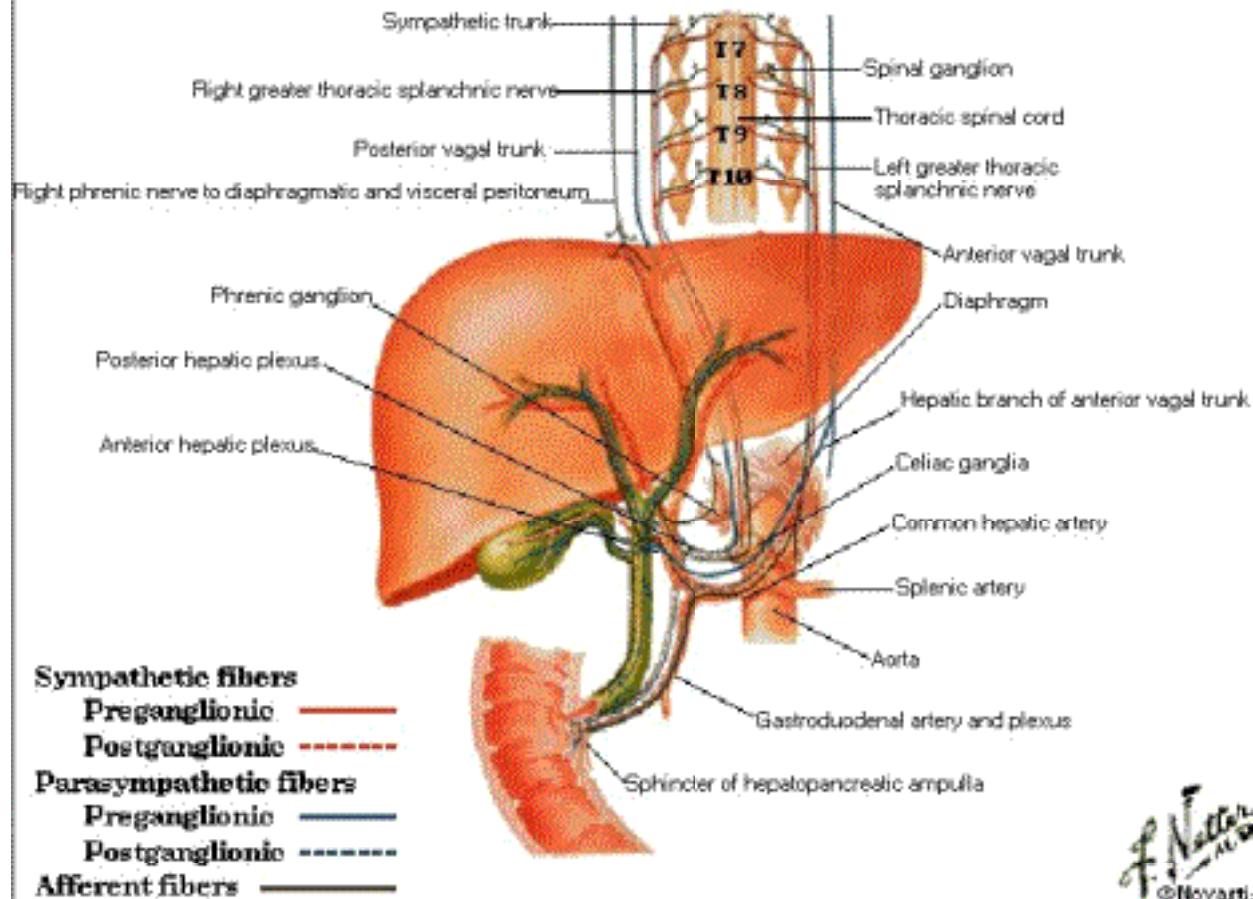
f.n.  
©H

## Common Areas of Referred Pain in Biliary Disease





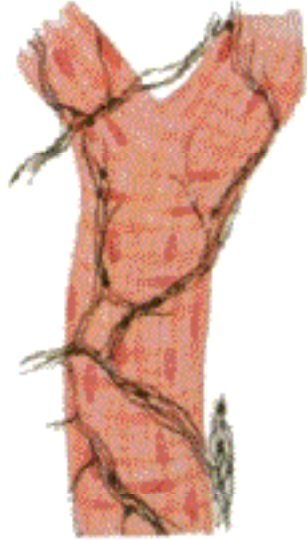
# Innervation of Liver and Biliary Tract Schema



*F. Netter M.D.*  
 © Novartis

## **Innervation of Liver**

Nerve Fibers around Fine Branch of Hepatic Artery



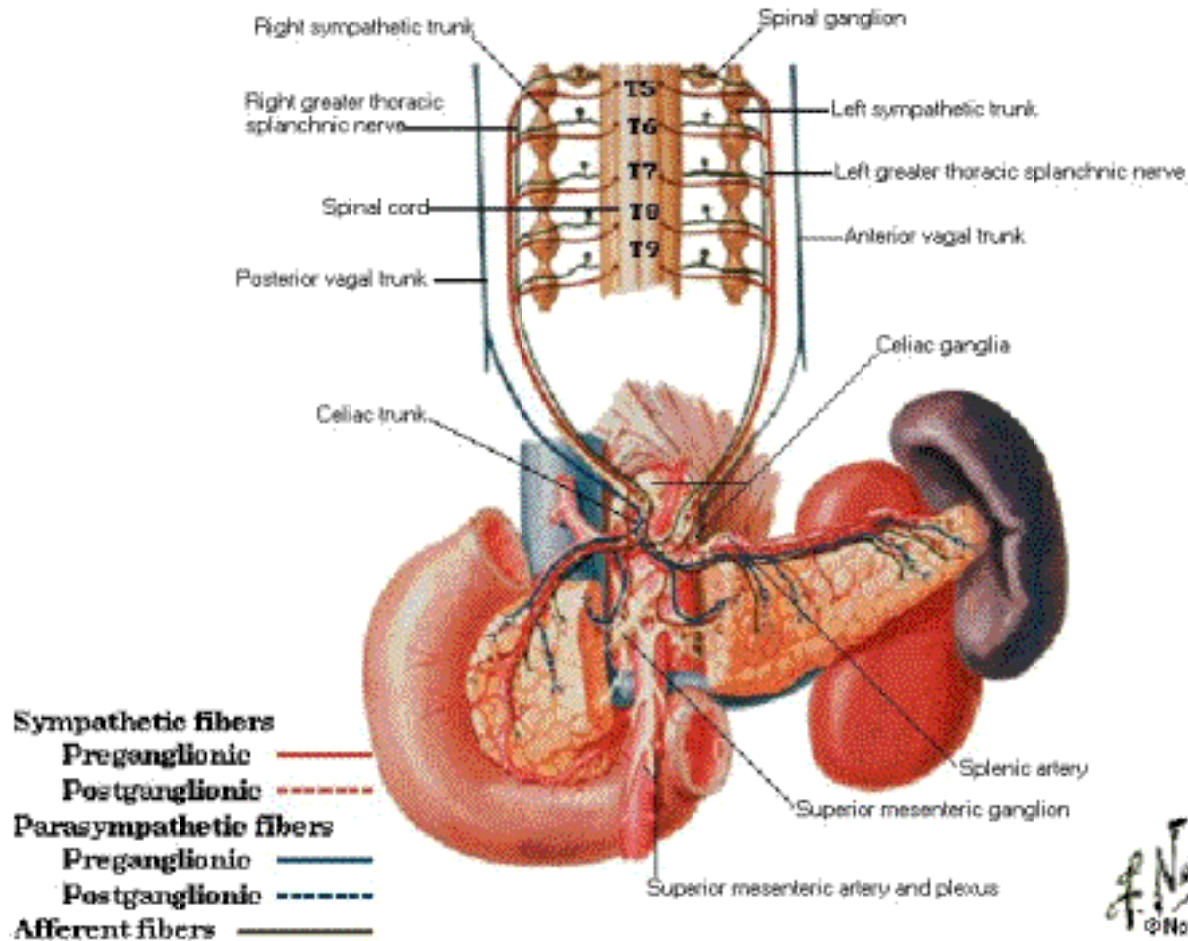
i@

## Common Areas of Pancreatic Pain



# Innervation of Pancreas

## Schema



*F. No.*  
© No.



## Schema of Intrinsic Nerve Supply of Pancreas

Sympathetic fibers

Preganglionic ————

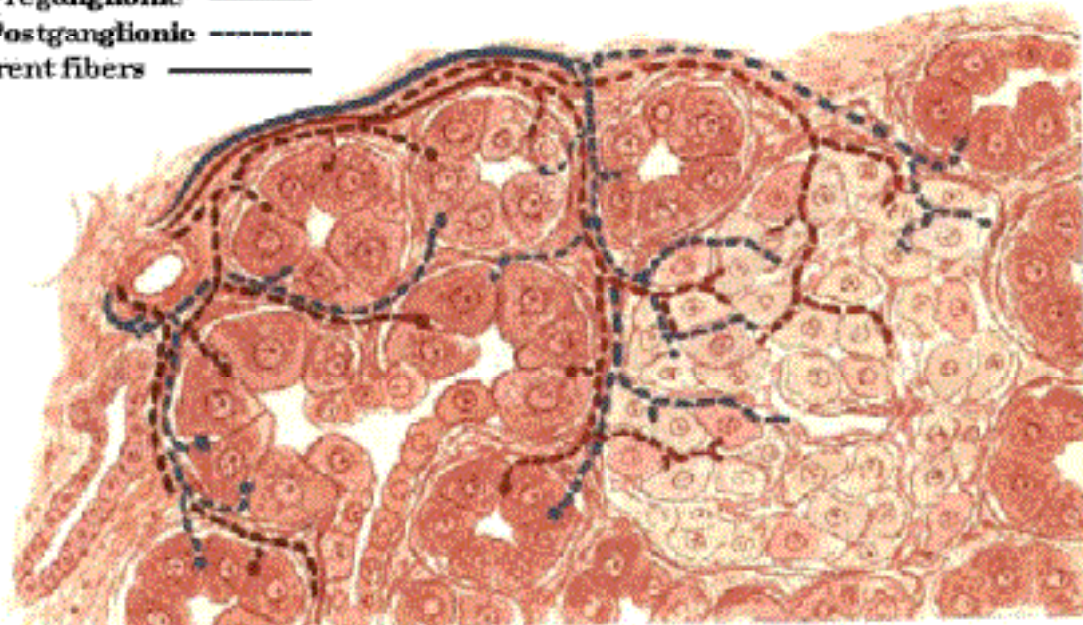
Postganglionic - - - - -

Parasympathetic fibers

Preganglionic ————

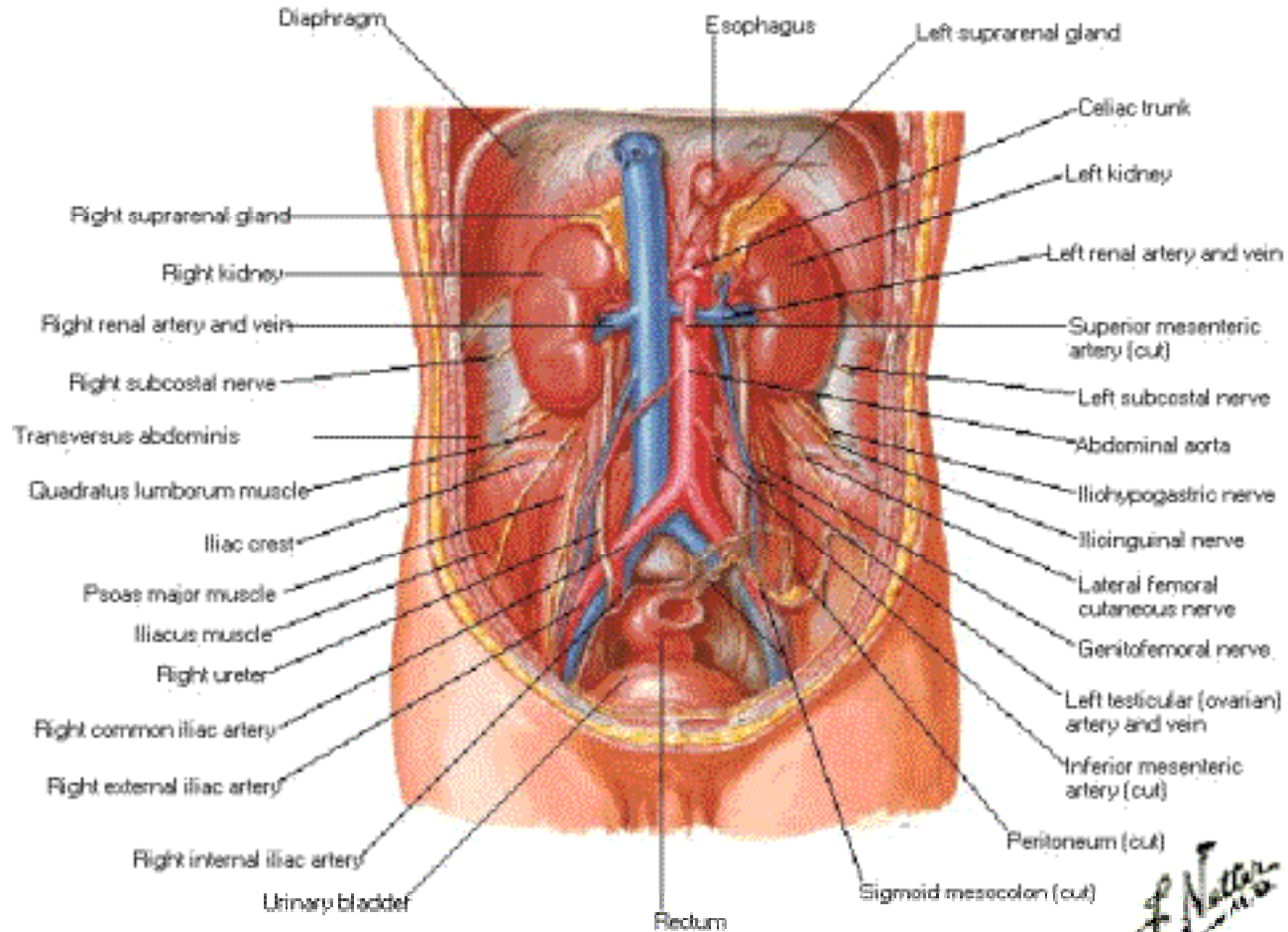
Postganglionic - - - - -

Afferent fibers ————



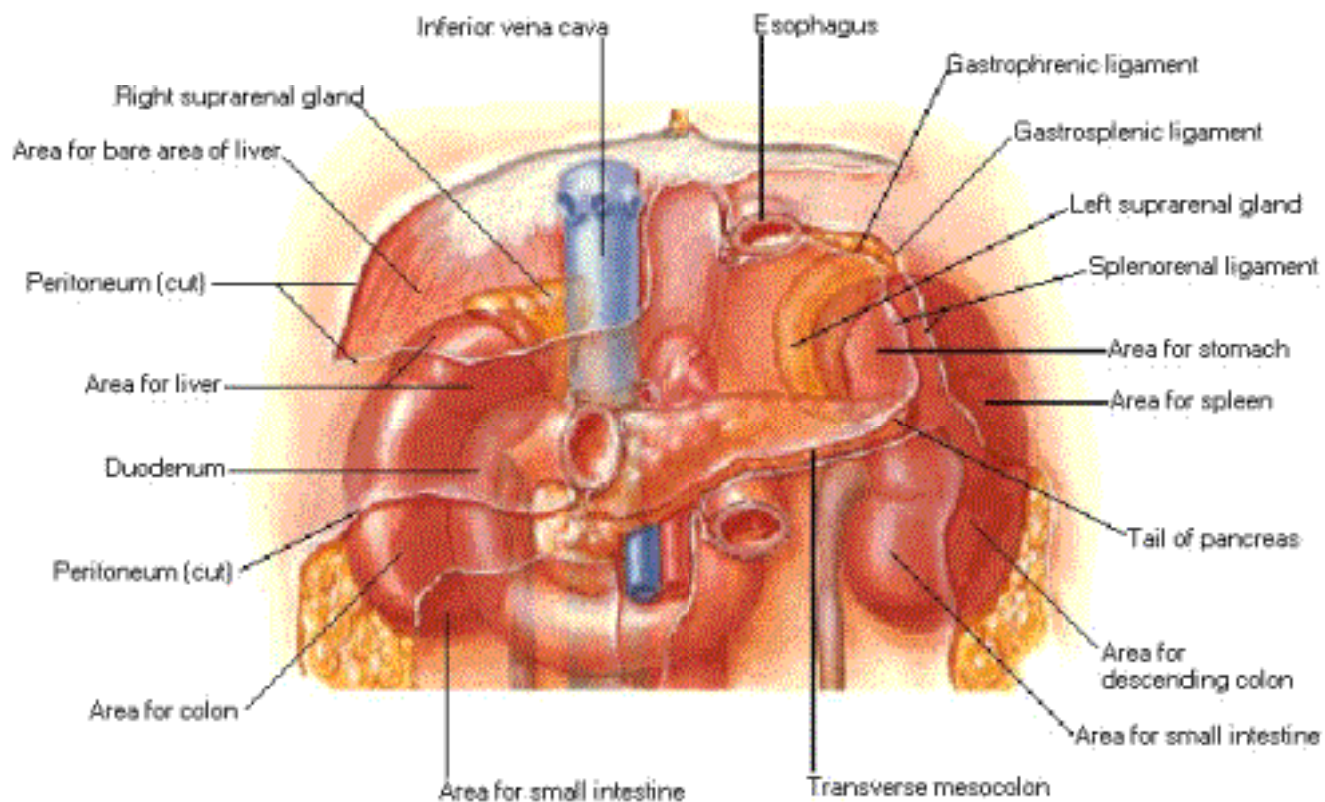
# Kidneys in Situ

## Anterior View



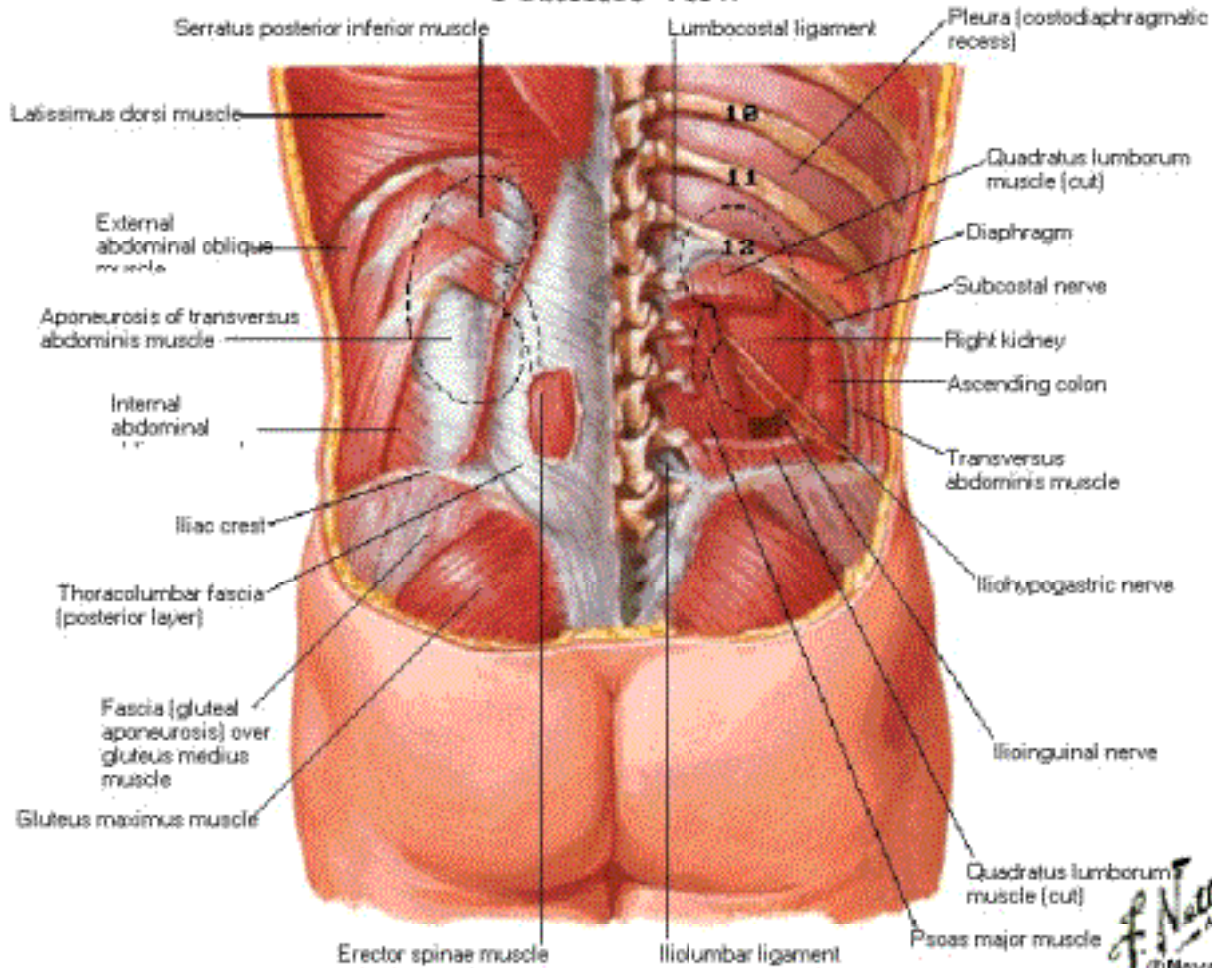
# Kidneys in Situ

## Anterior Relations of Kidneys



# Kidneys in Situ

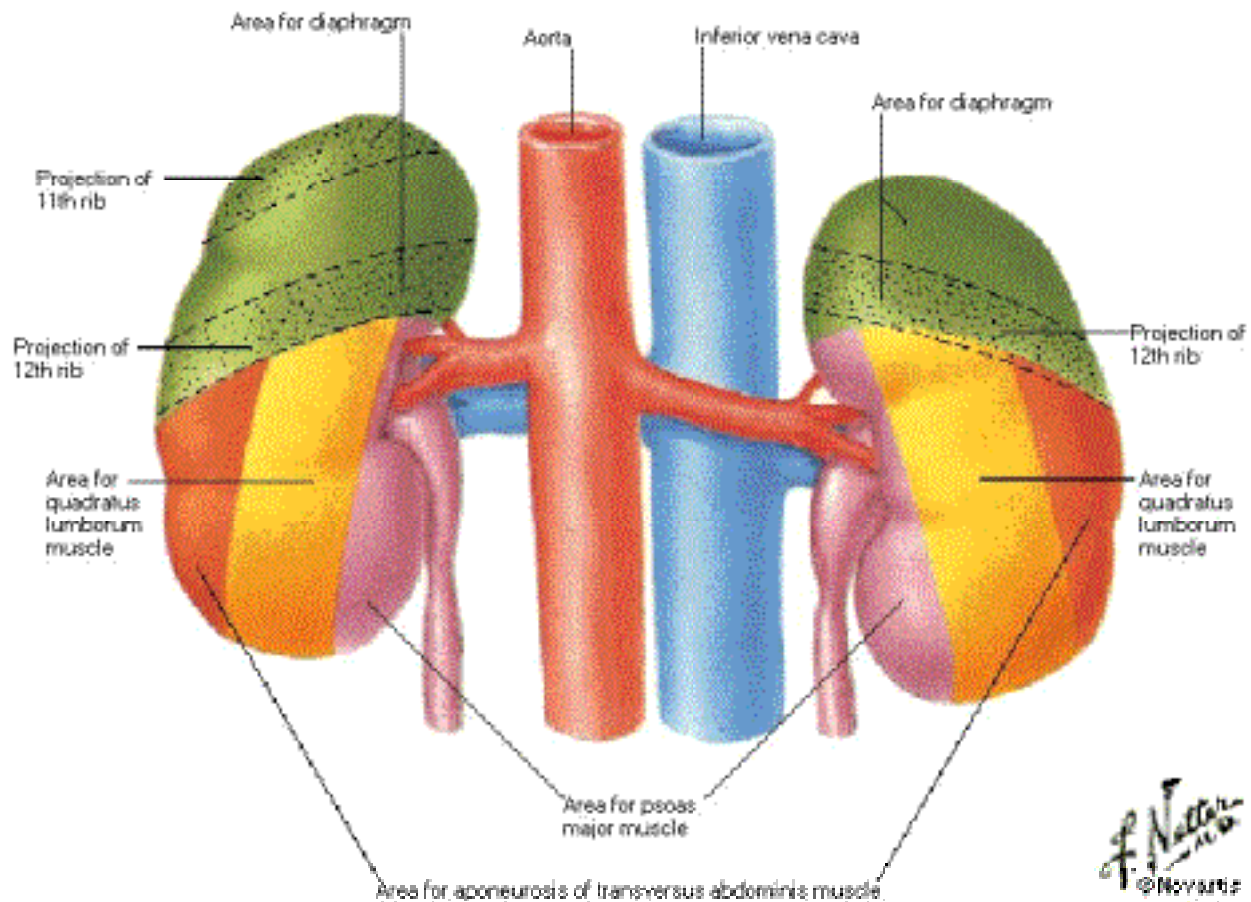
## Posterior View



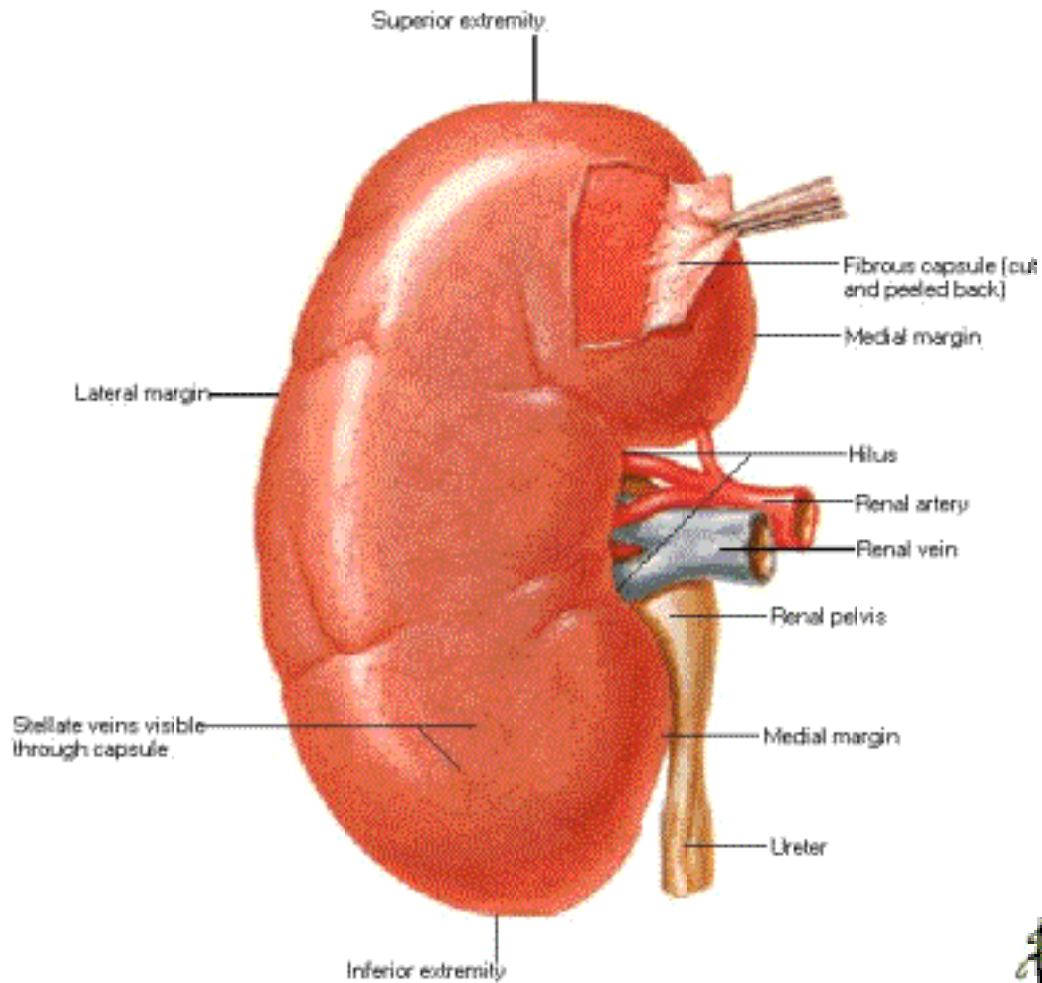


# Kidneys in Situ

## Posterior Relations of Kidneys

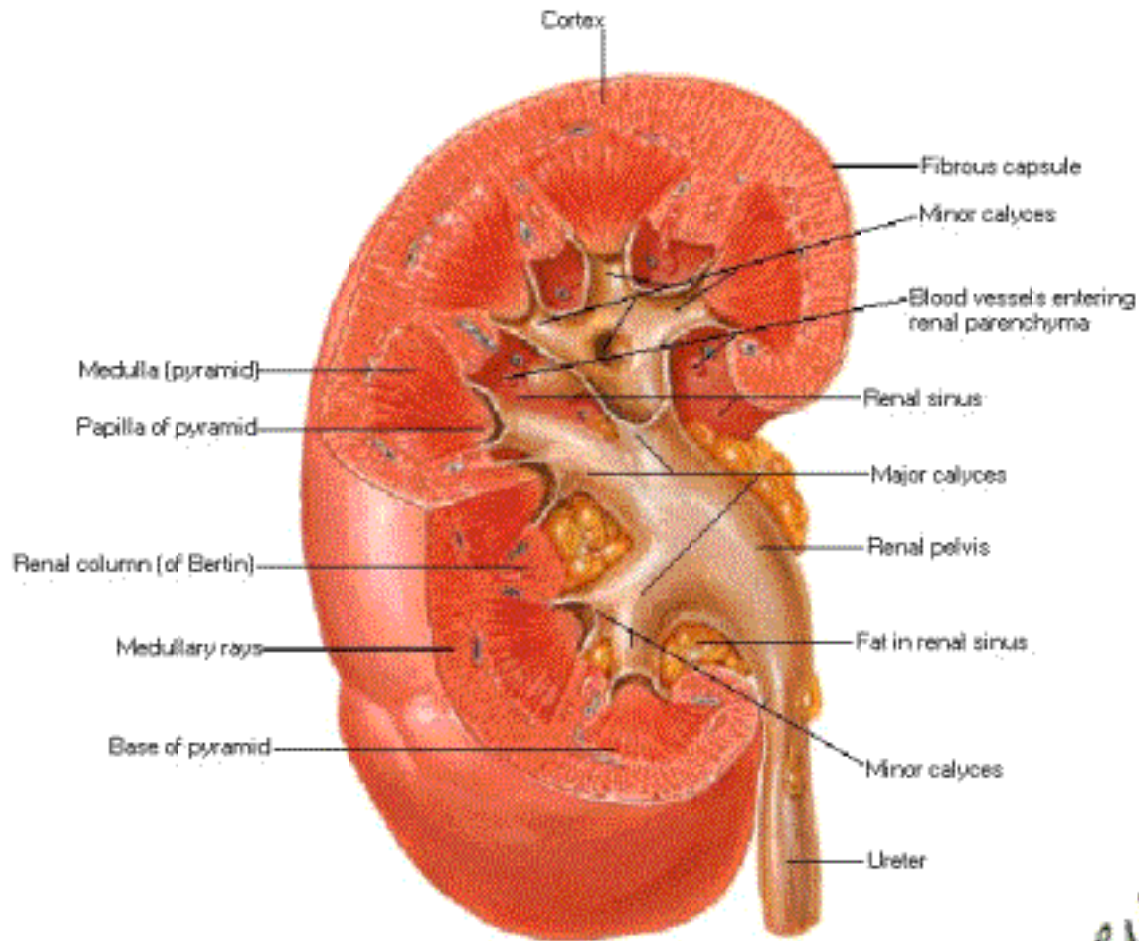


# Anterior Surface of Right Kidney



24

## Right Kidney Sectioned in Several Planes

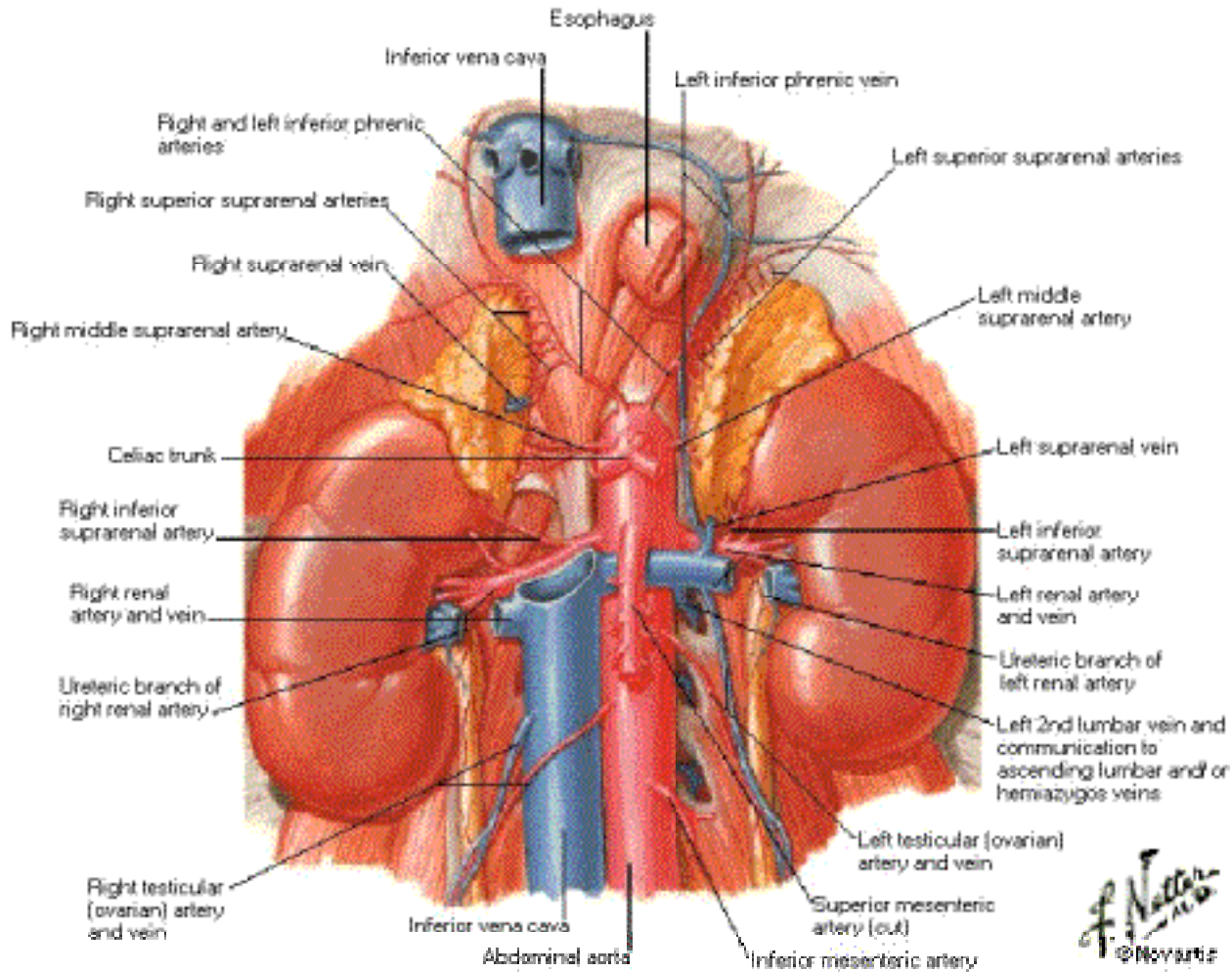


# Suprarenal Gland and Lobulated Kidney of Infant





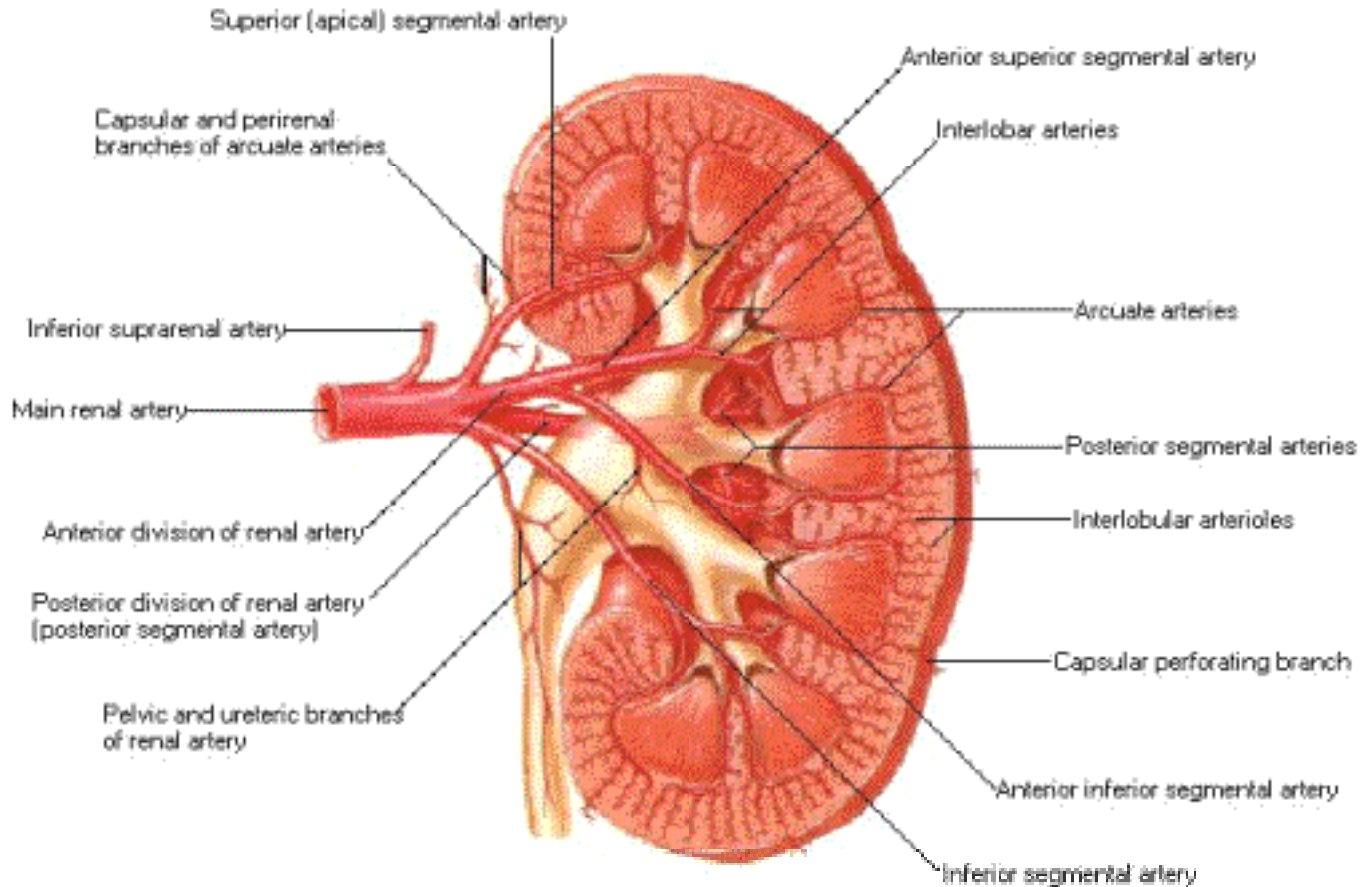
# Renal Artery and Vein in Situ



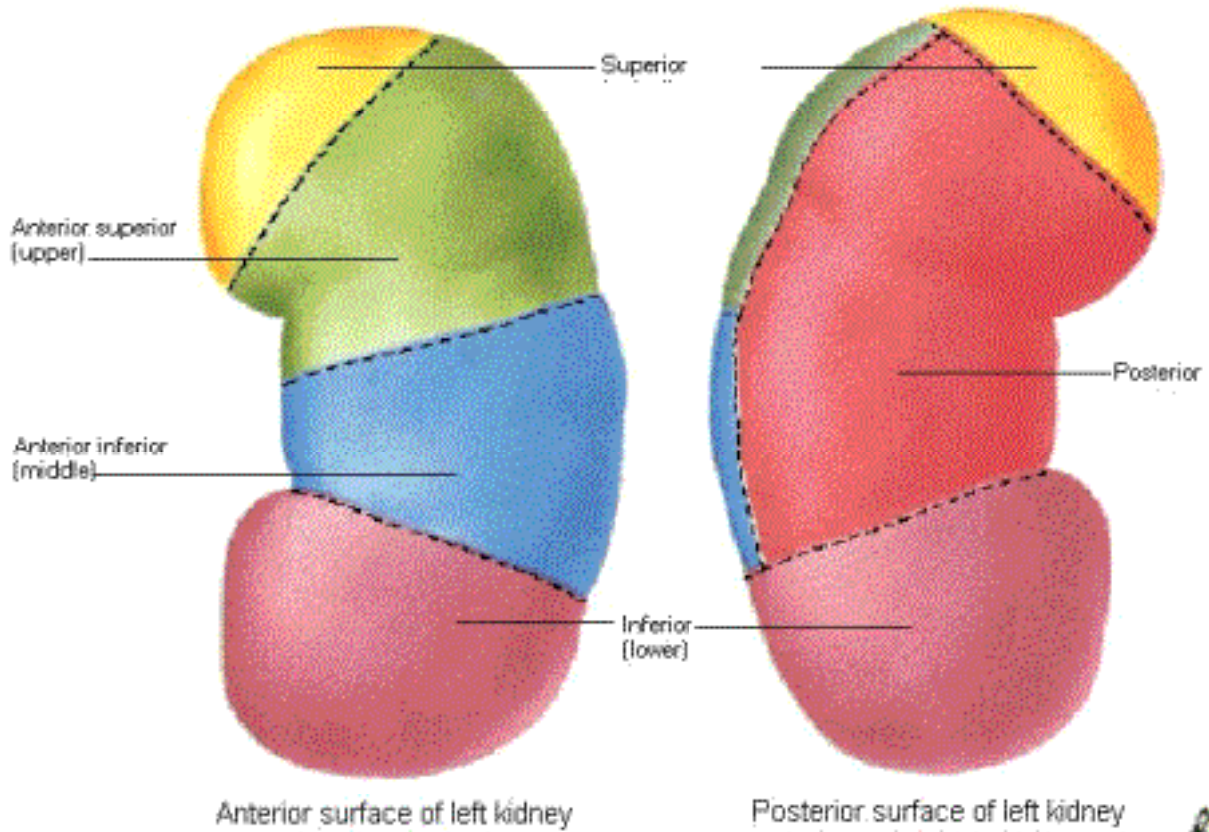
*F. Netter M.D.*  
© Novartis

# Intrarenal Arteries

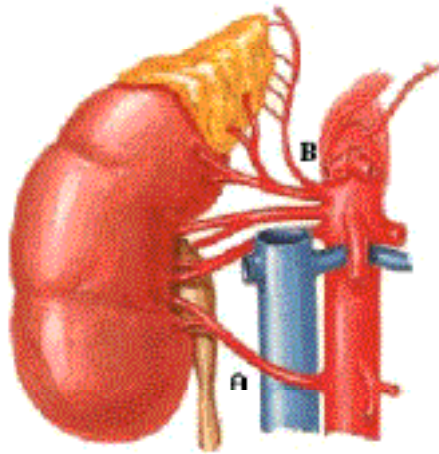
## Frontal Section of Left Kidney - Anterior View



# Vascular Renal Segments

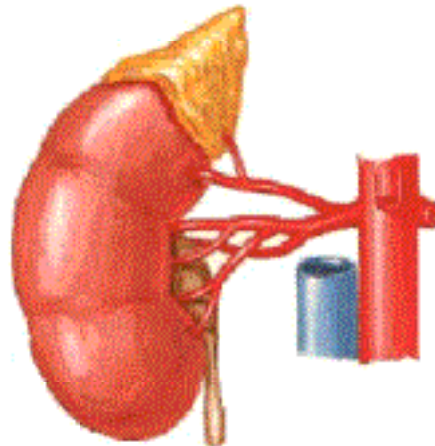


## Variations in Renal Artery



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

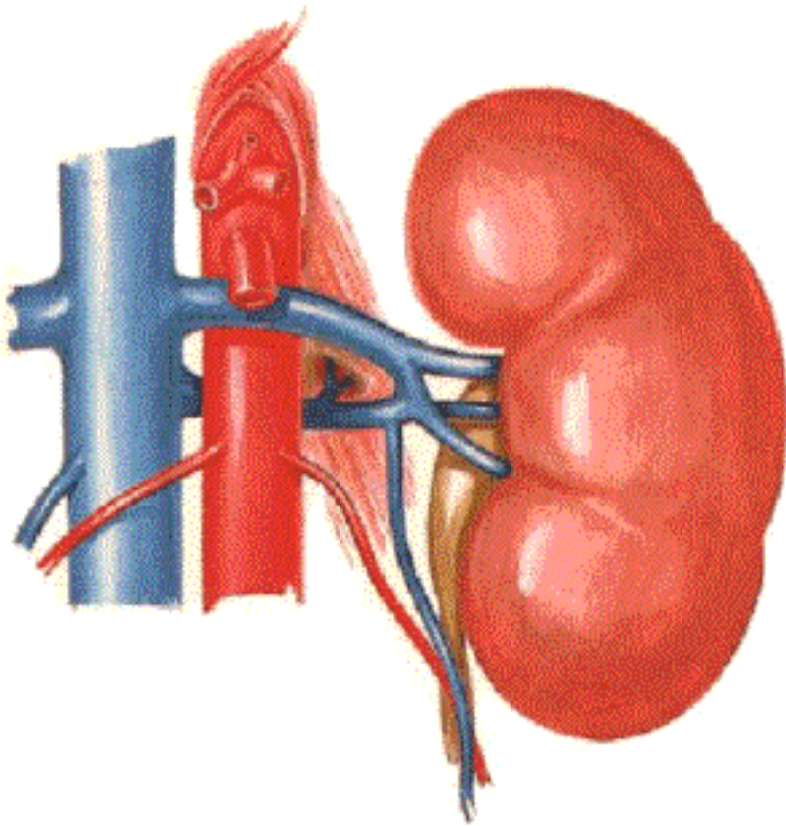
B) Inferior phrenic artery with suprarenal arteries may arise from renal artery



Proximal subdivision of renal artery

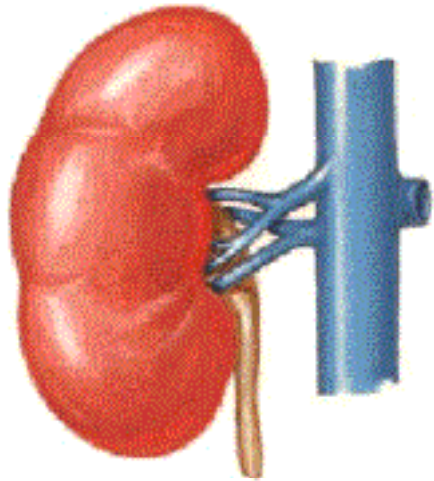


## Variations in Renal Vein



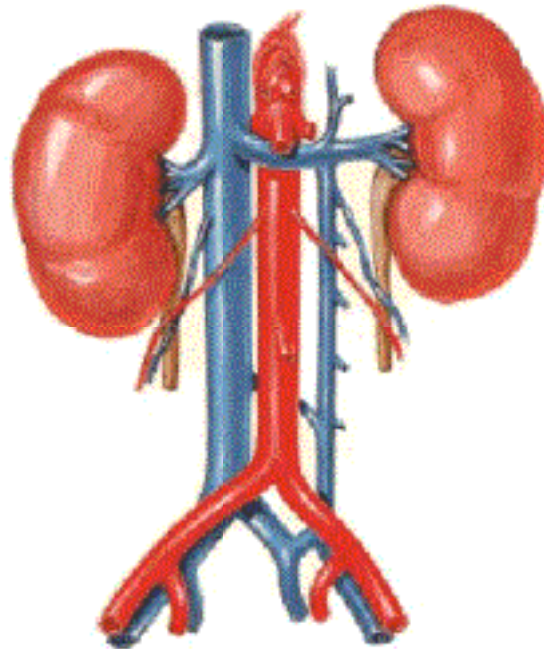
Double renal vein may form ring around aorta

## Variations in Renal Vein [Continued]

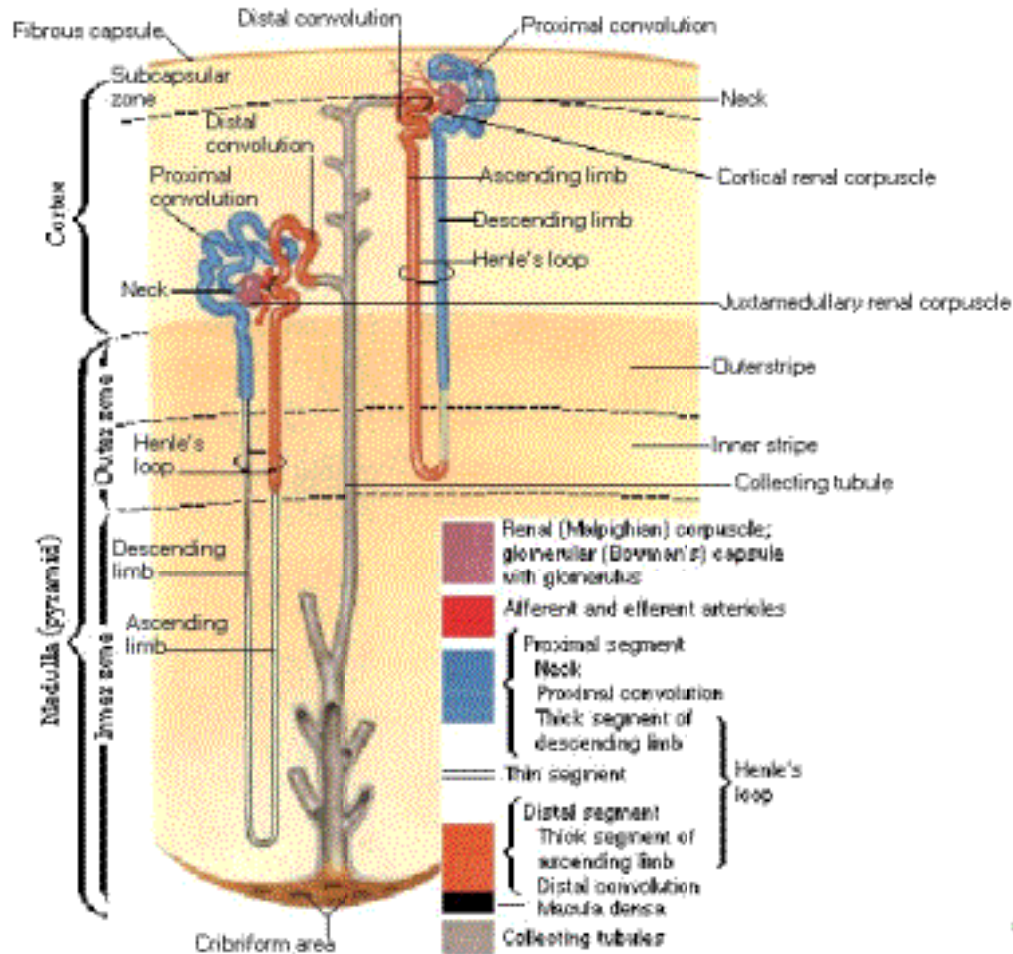


Multiple renal veins

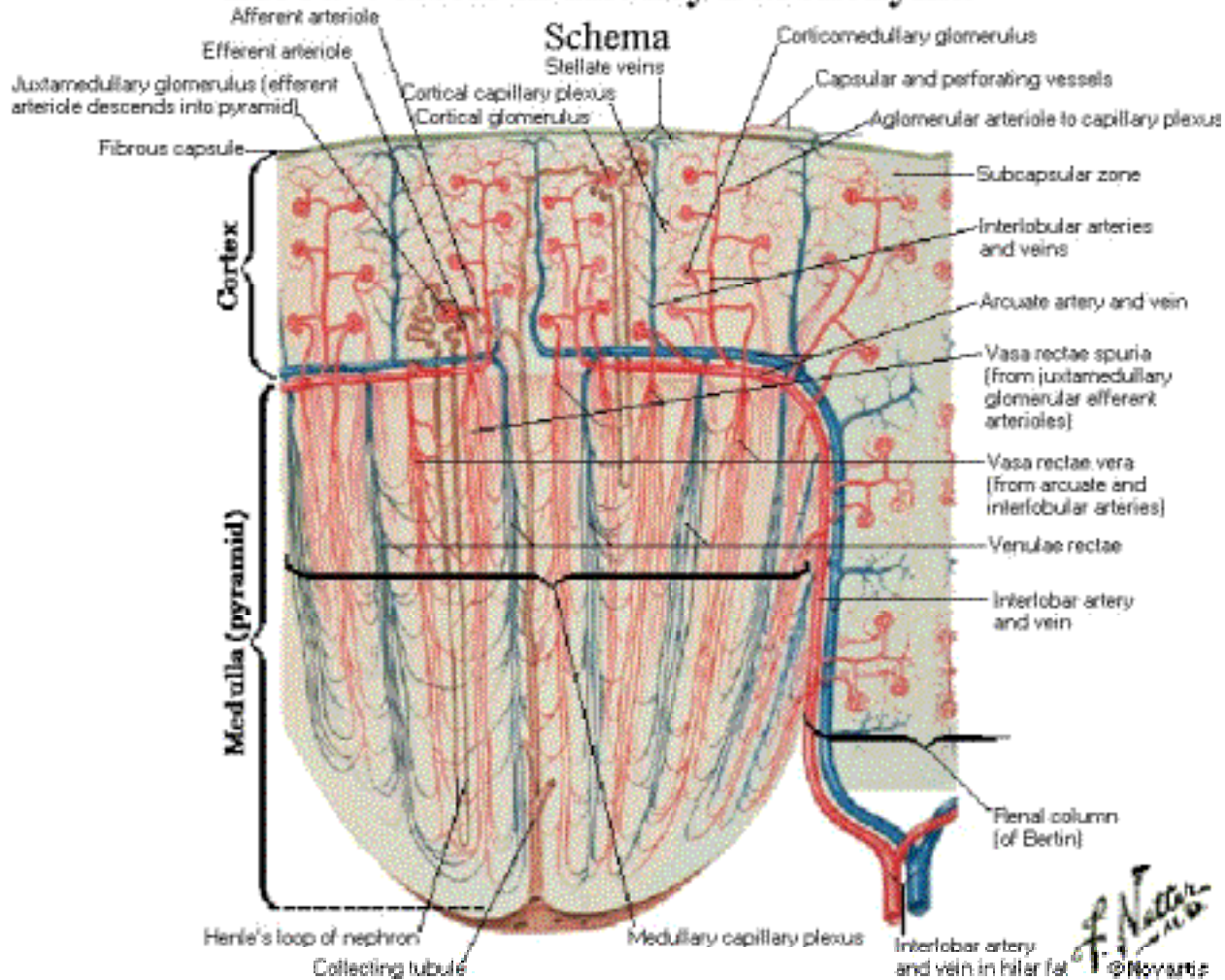
Persistent left inferior vena cava  
may join left renal vein



# Nephron and Collecting Tubule Schema



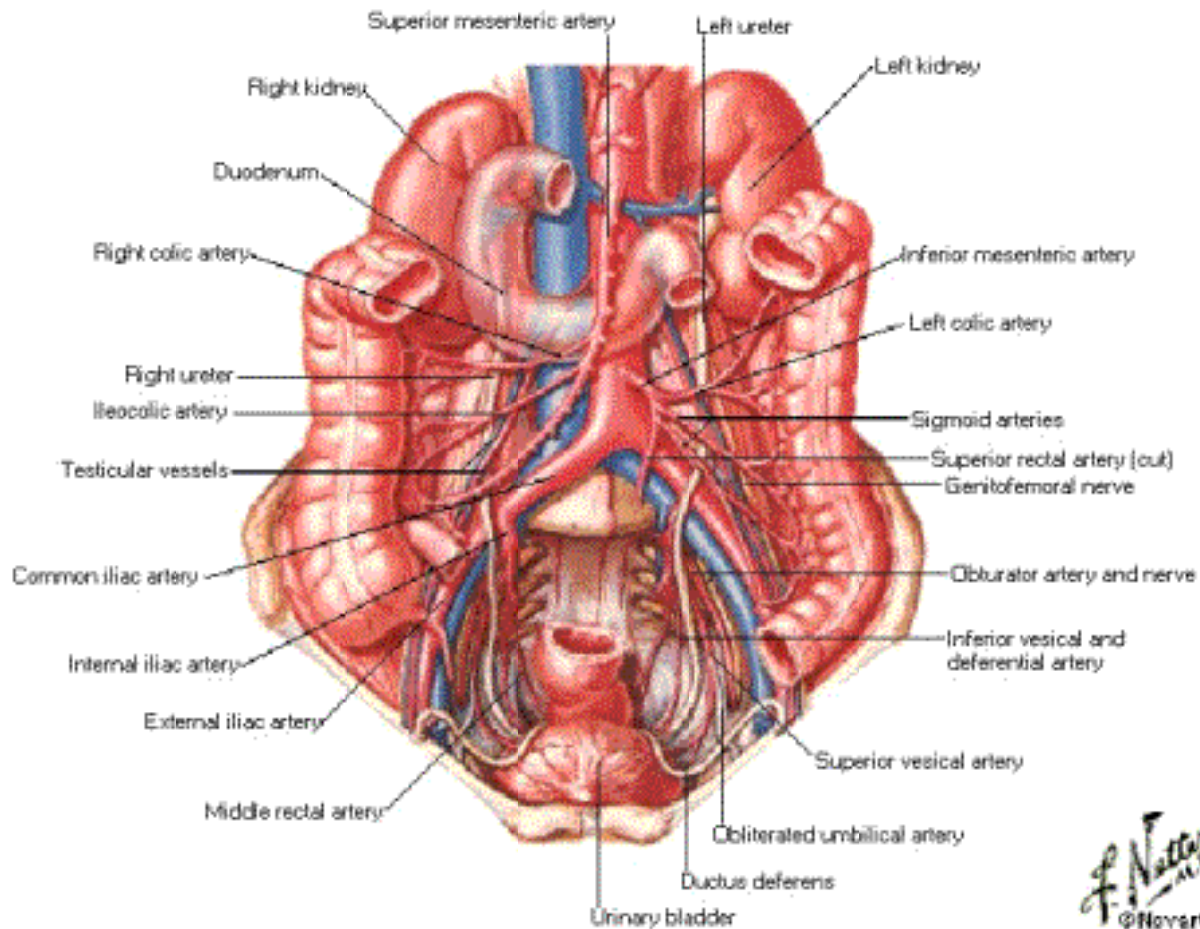
# Blood Vessels in Kidney Parenchyma





# Ureters in Male

## Anterior View



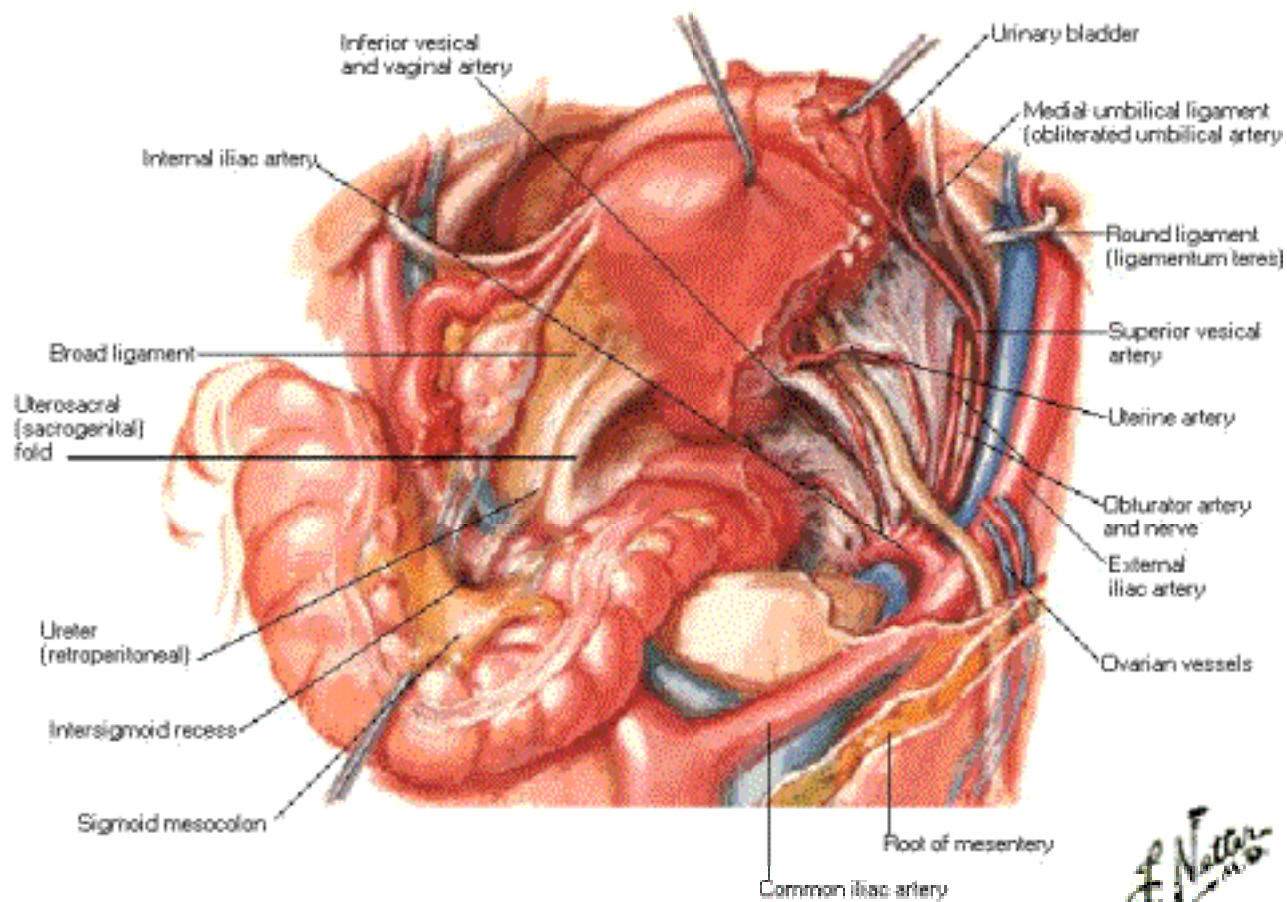
*F. Netter M.D.*  
© 1989

## Diagonal Course of Ureter through Bladder Wall

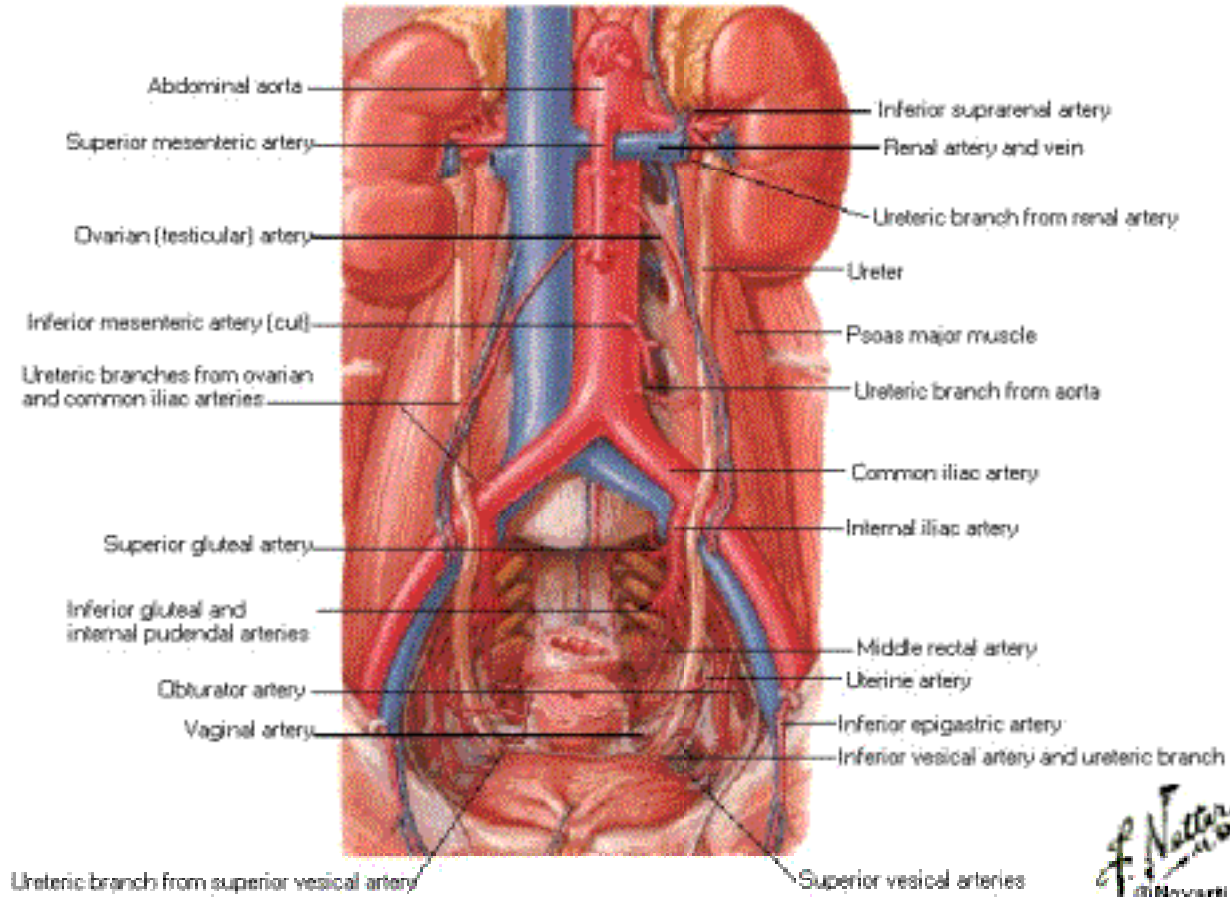


# Ureters in Female

## Superior View



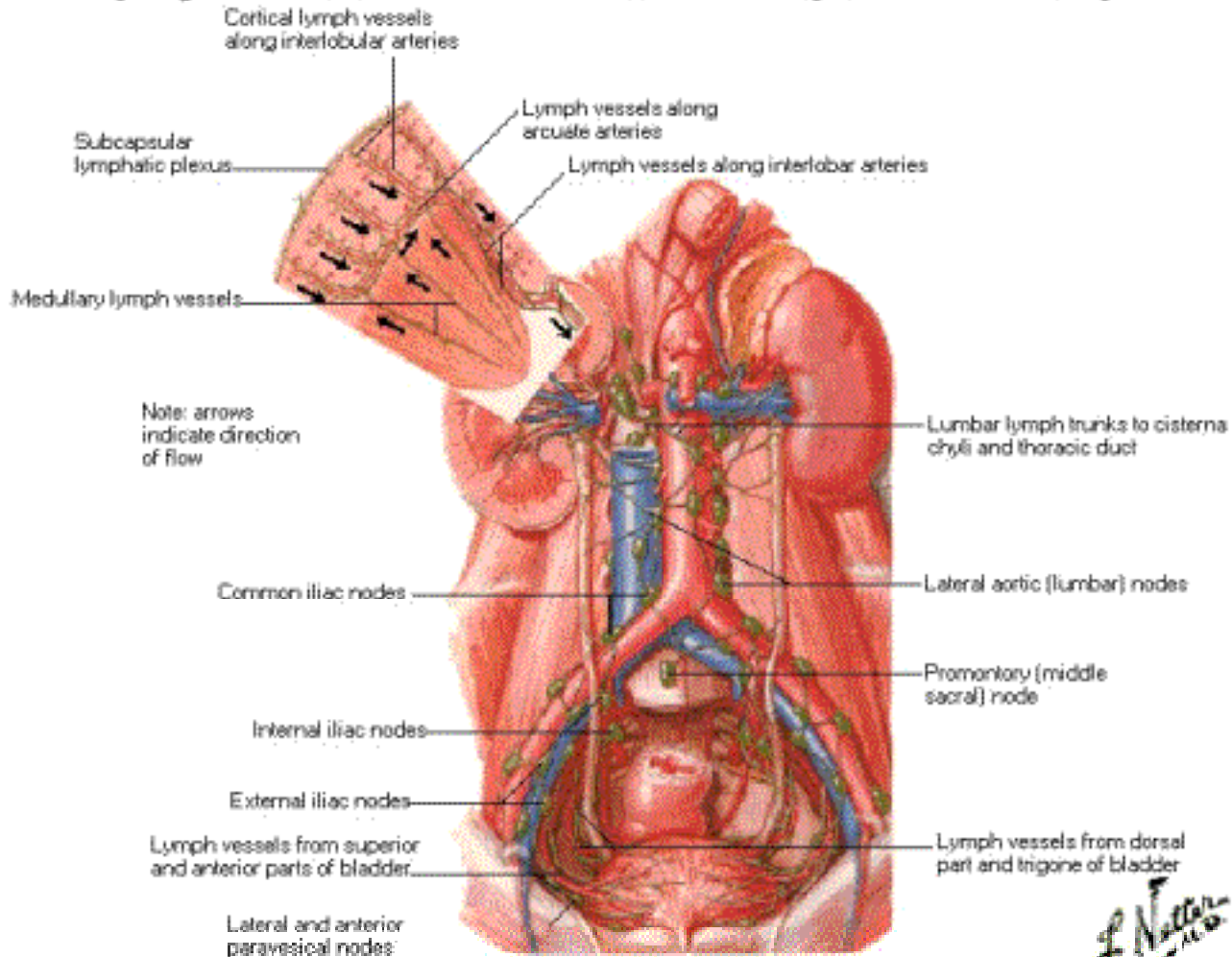
# Arteries of Ureters and Urinary Bladder



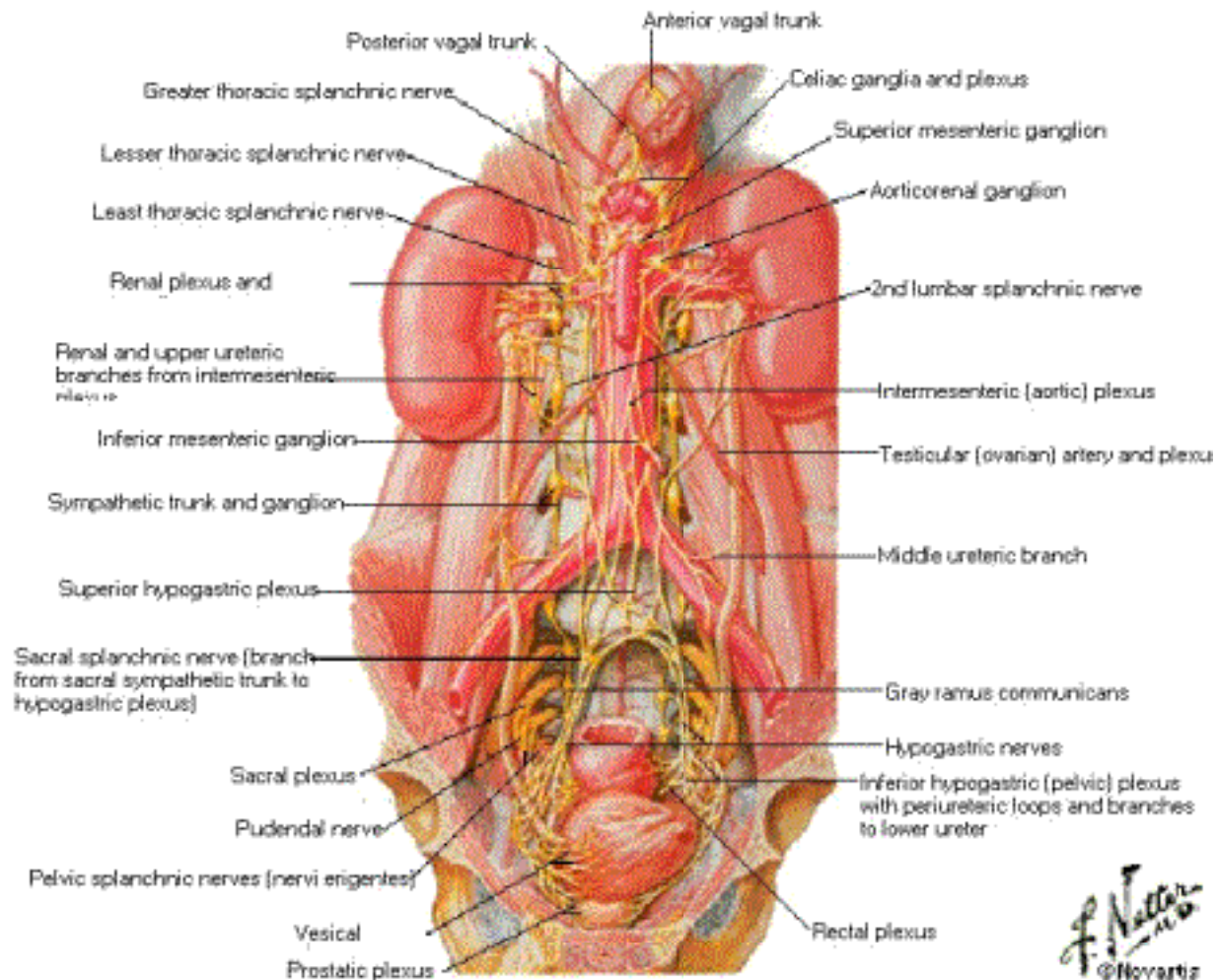
*F. Netter M.D.*  
© 1989



# Lymph Vessels and Nodes of Kidneys and Urinary



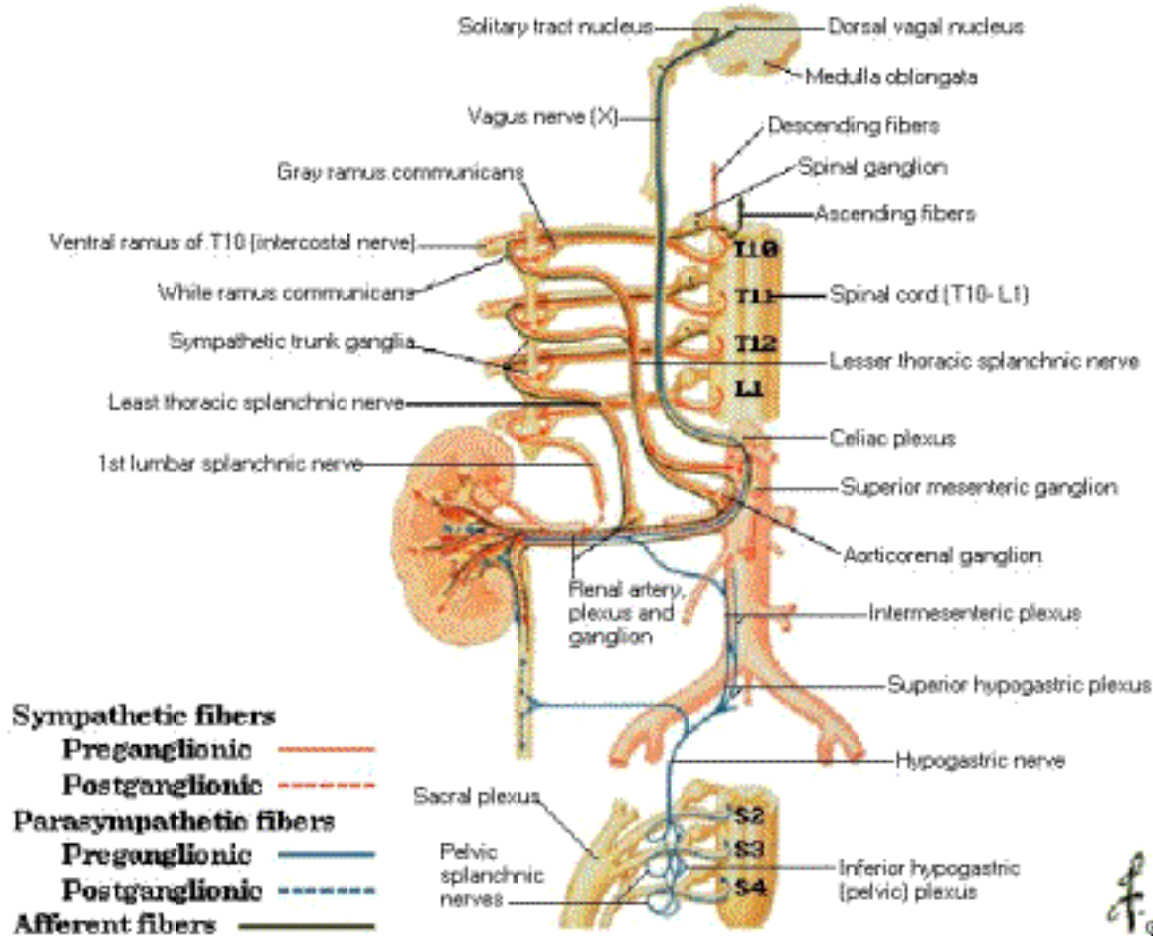
# Nerves of Kidneys, Ureters and Urinary Bladder



*F. Netter M.D.*  
©Hovartis

# Innervation of Kidneys and Upper Ureters

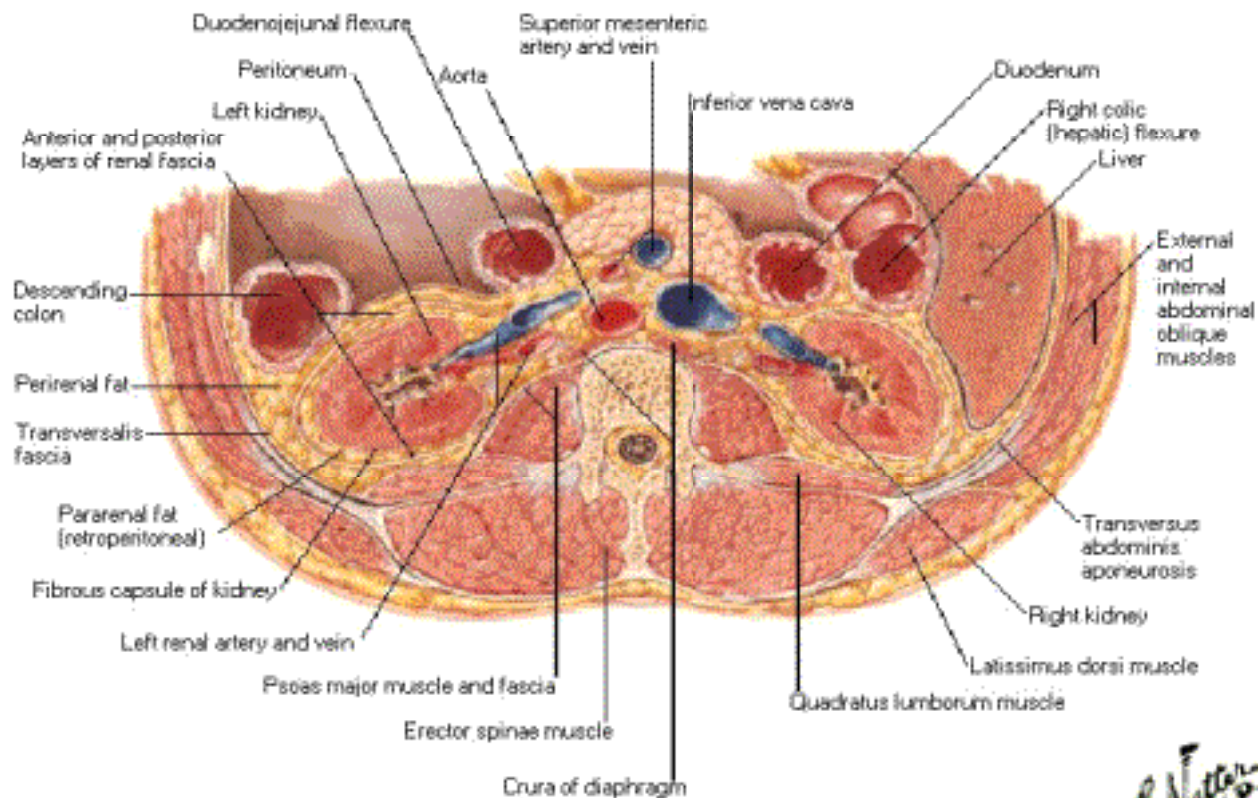
## Schema



*f*

# Renal Fascia

## Transverse Section through 2nd Lumbar Vertebra



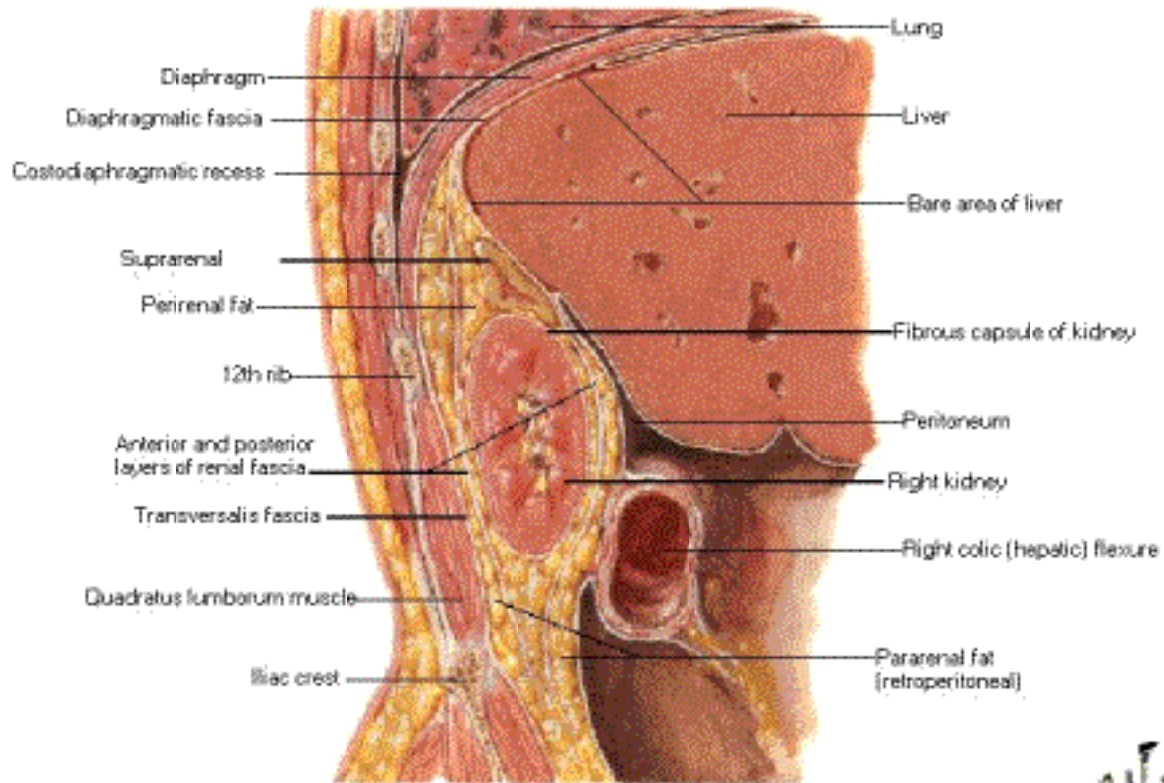
Demonstrates horizontal disposition of fascia

*F. Netter M.D.*  
© Netter



# Renal Fascia

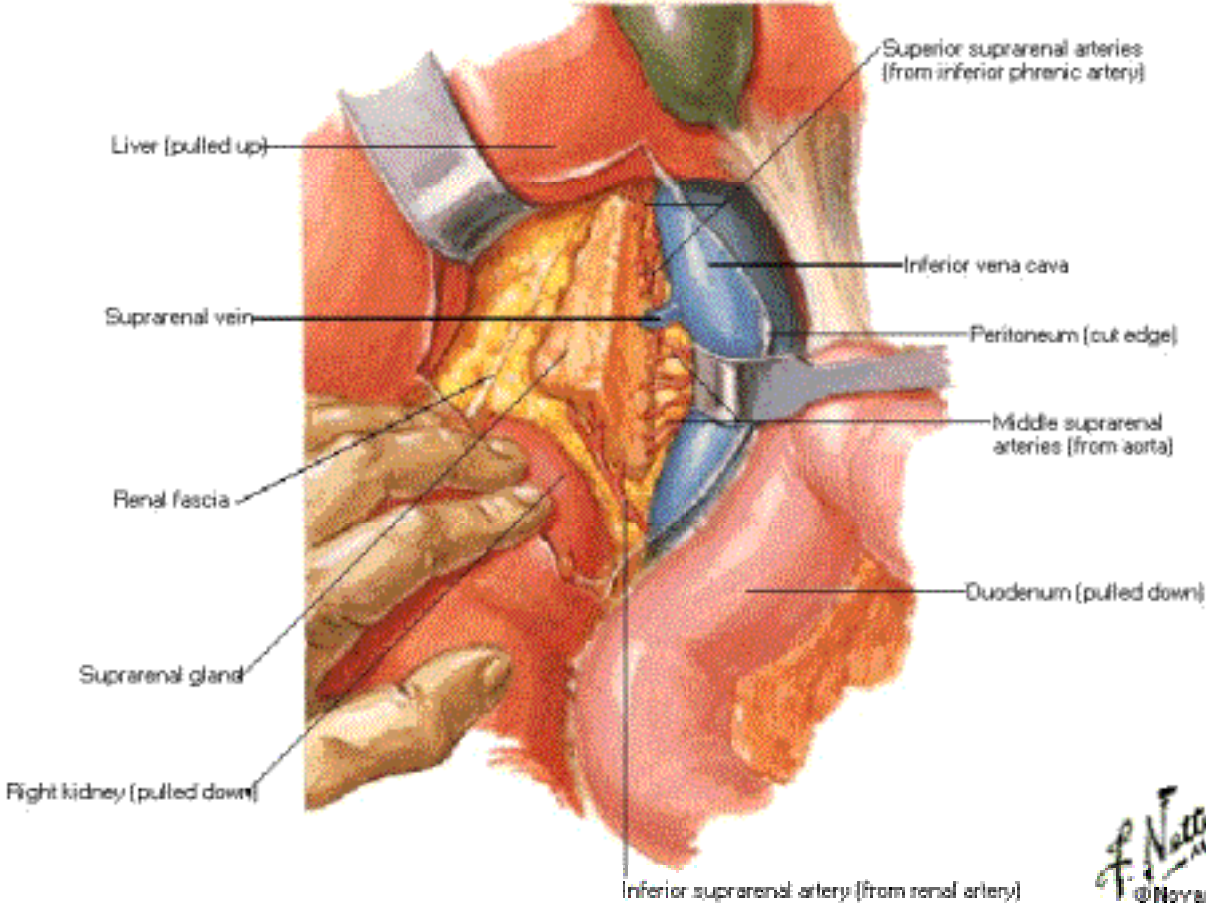
## Sagittal Section through Right Kidney



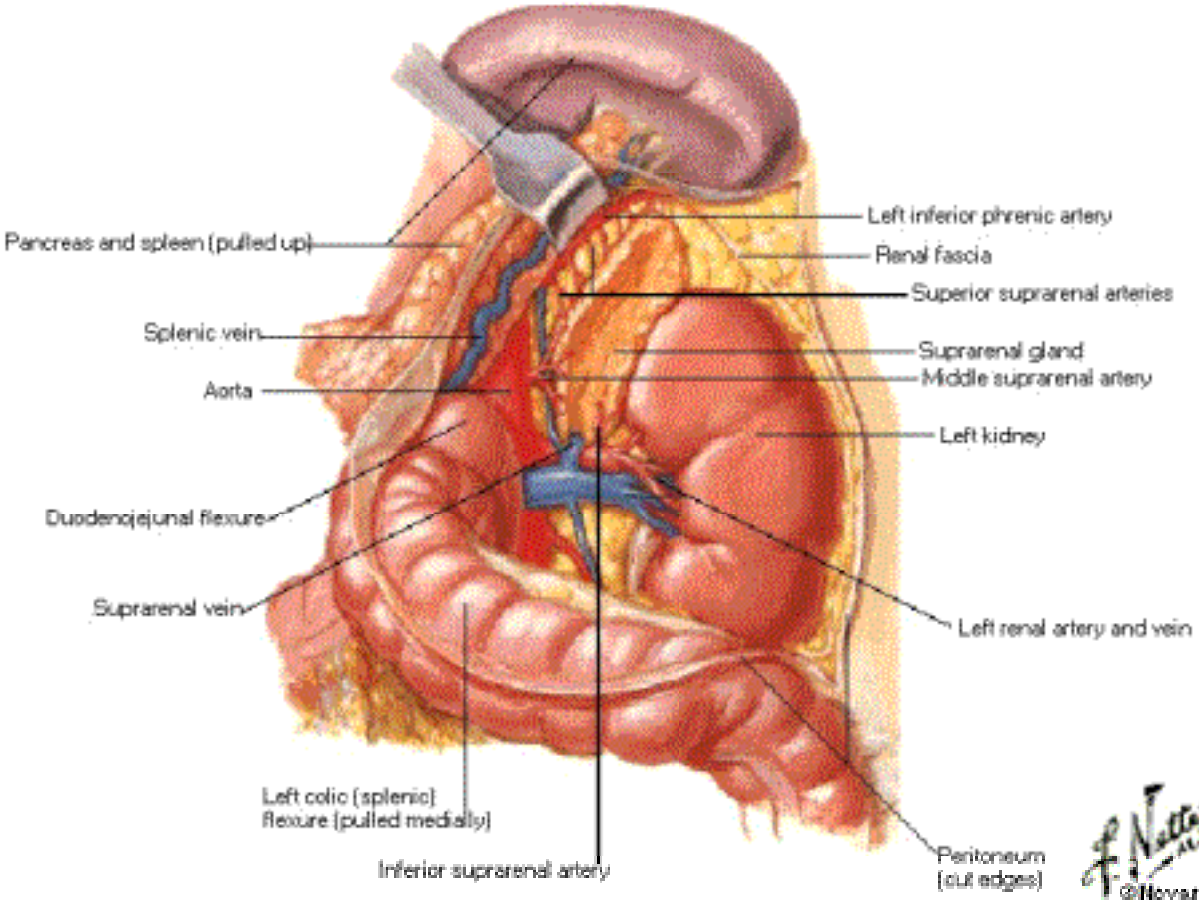
Demonstrates vertical disposition of renal fascia



# Arteries and Veins of Right Suprarenal Gland in Situ

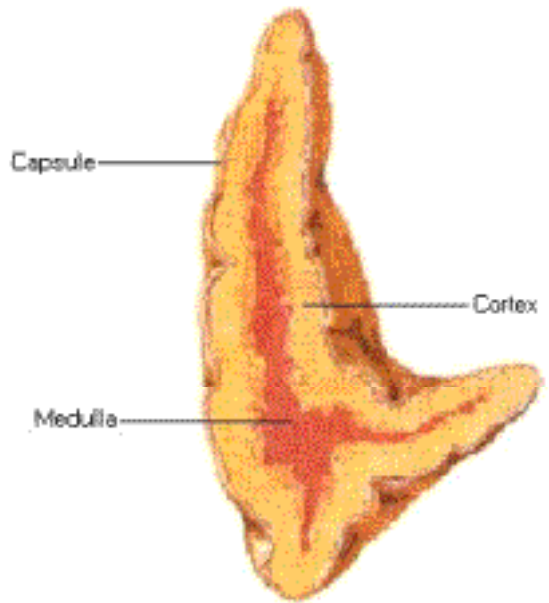


# Arteries and Veins of Left Suprarenal Gland in Situ



*F. Netter M.D.*  
 © Novartis

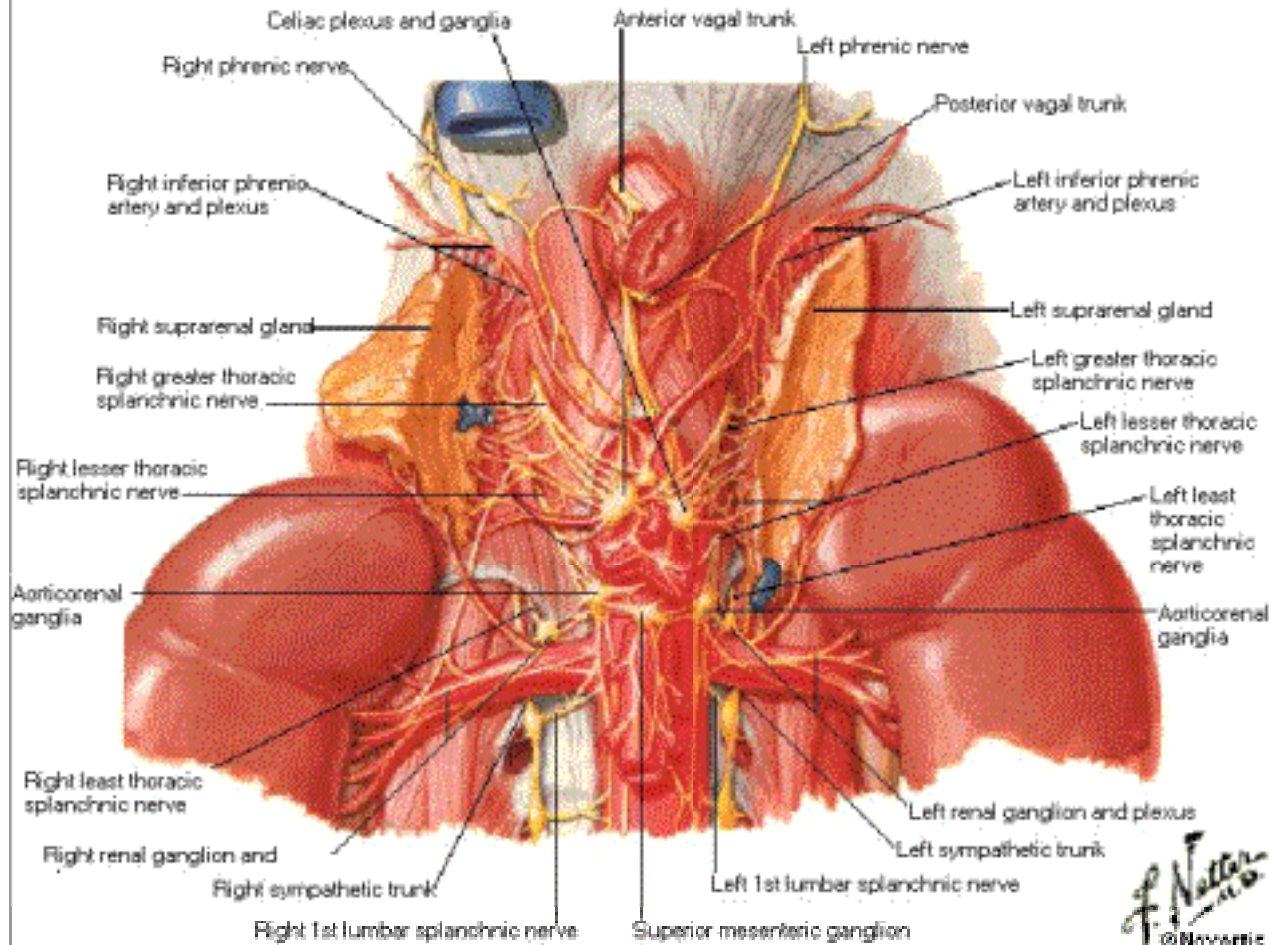
# Cross Section through Suprarenal Gland





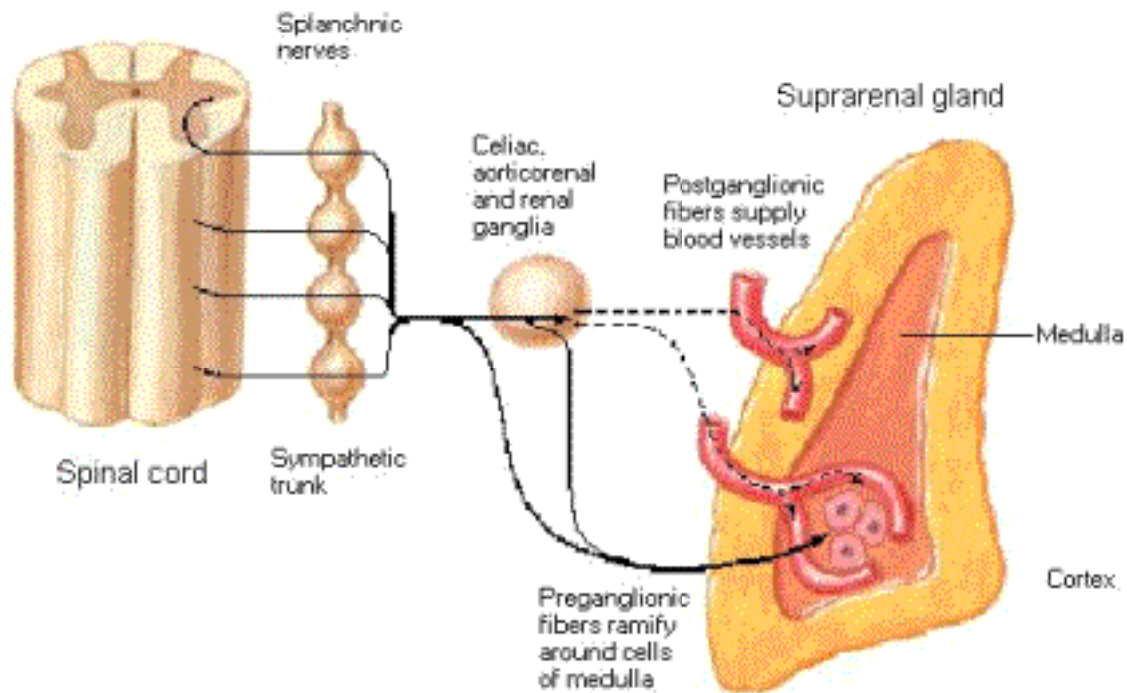
# Nerves of Suprarenal Glands

## Dissection



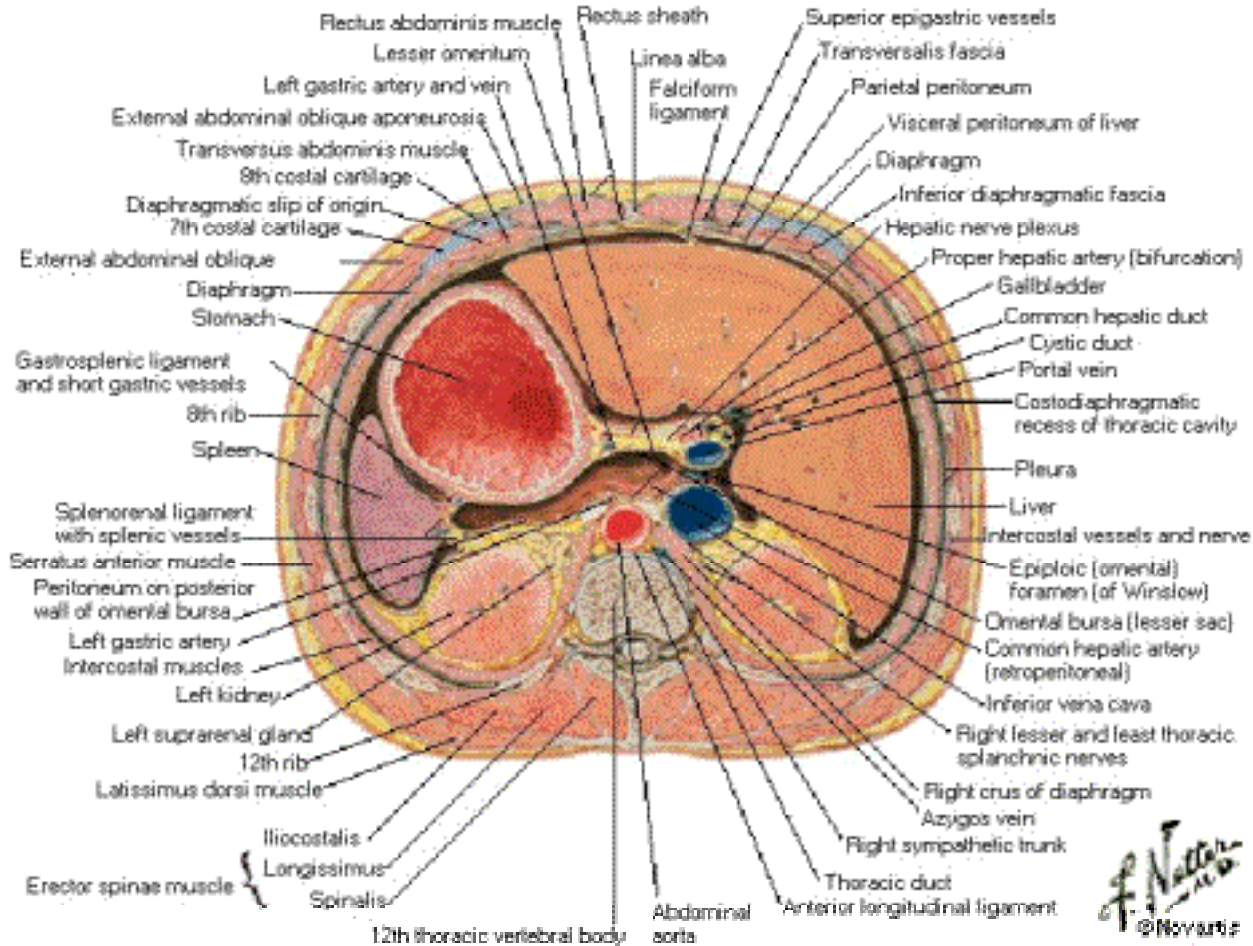
# Nerves of Suprarenal Glands

## Schema



# Abdominal Wall and Viscera

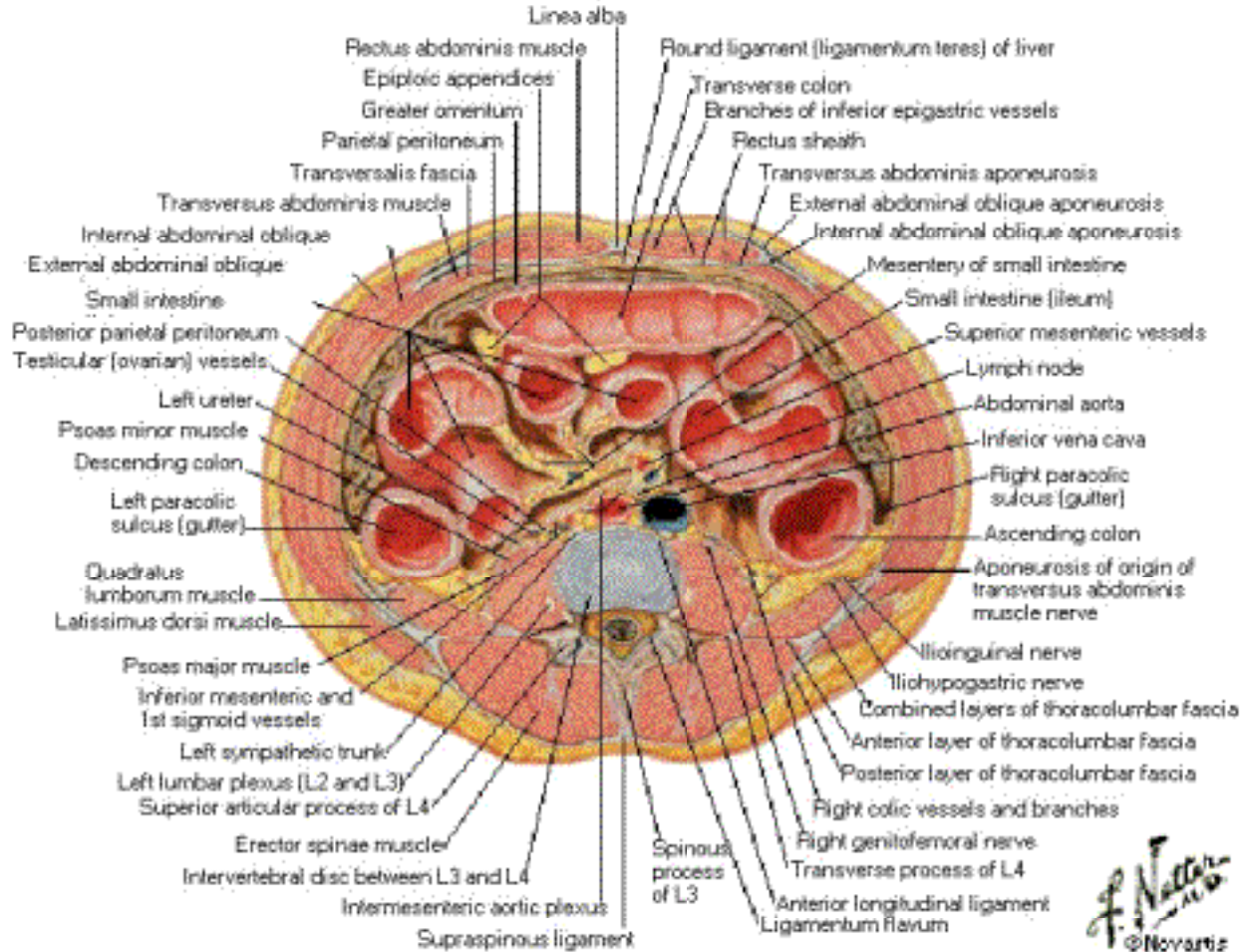
## Cross Section at T12



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# Abdominal Wall and Viscera

## Cross Section Between L2 and L3

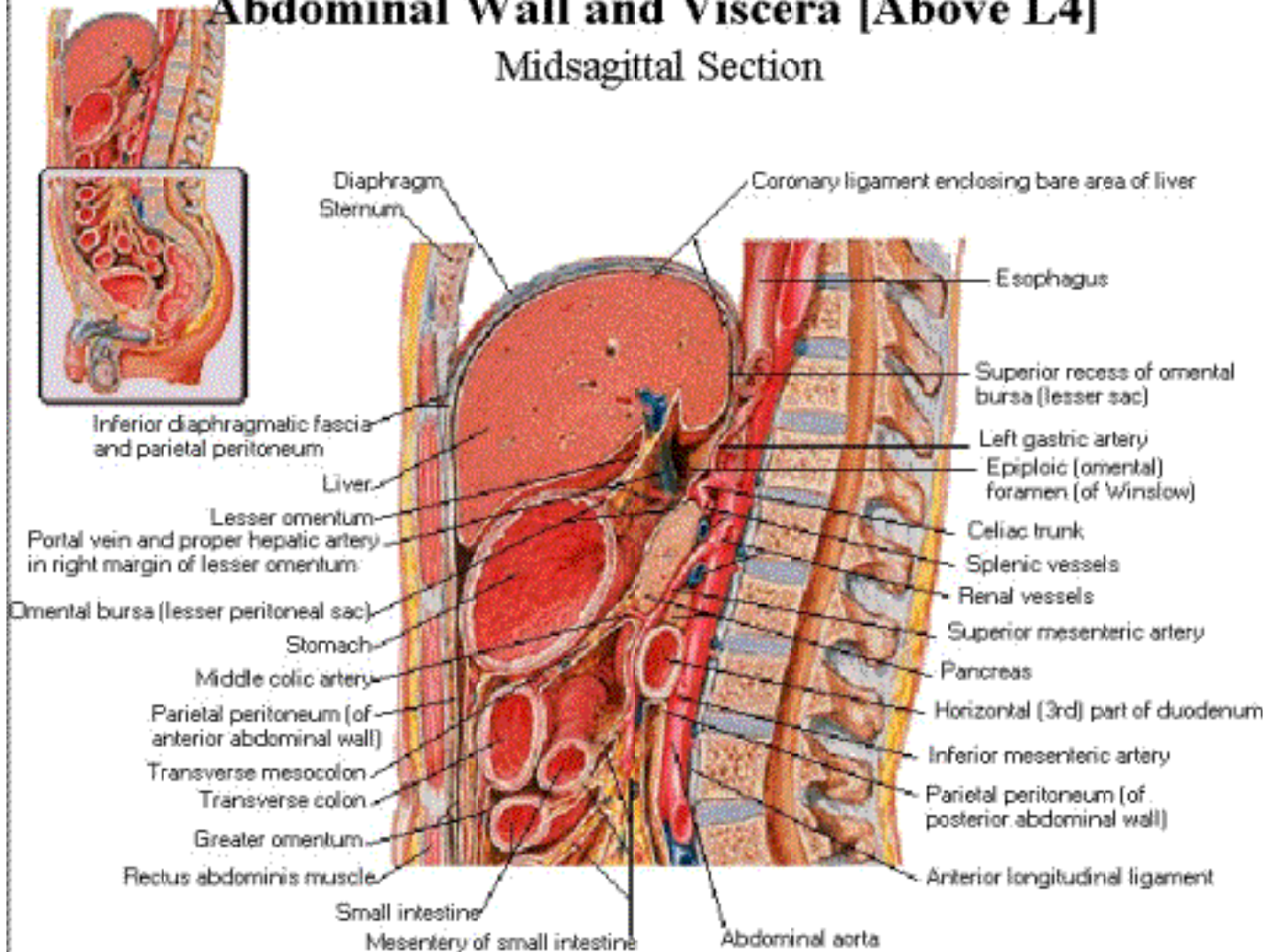


*F. Netter*  
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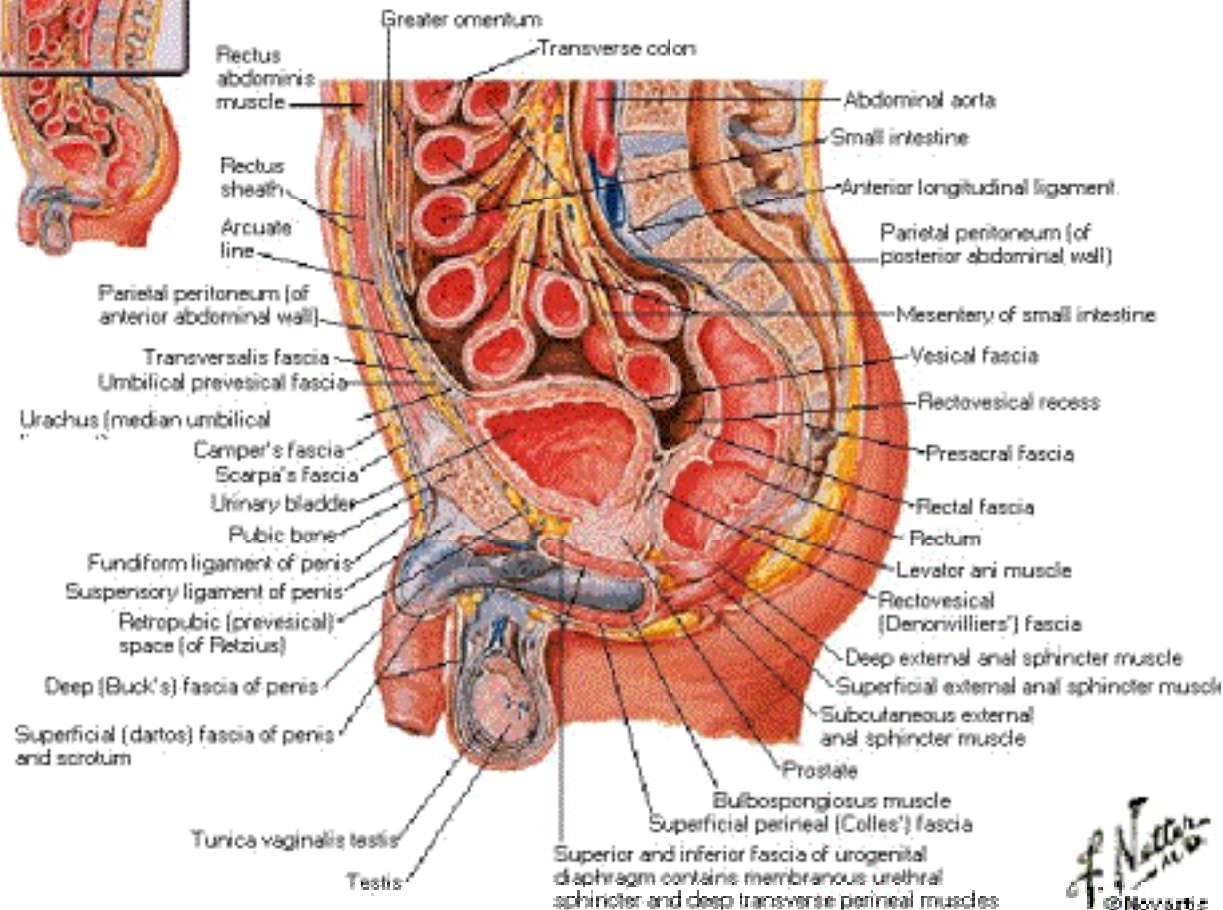
# Abdominal Wall and Viscera [Above L4]

## Midsagittal Section



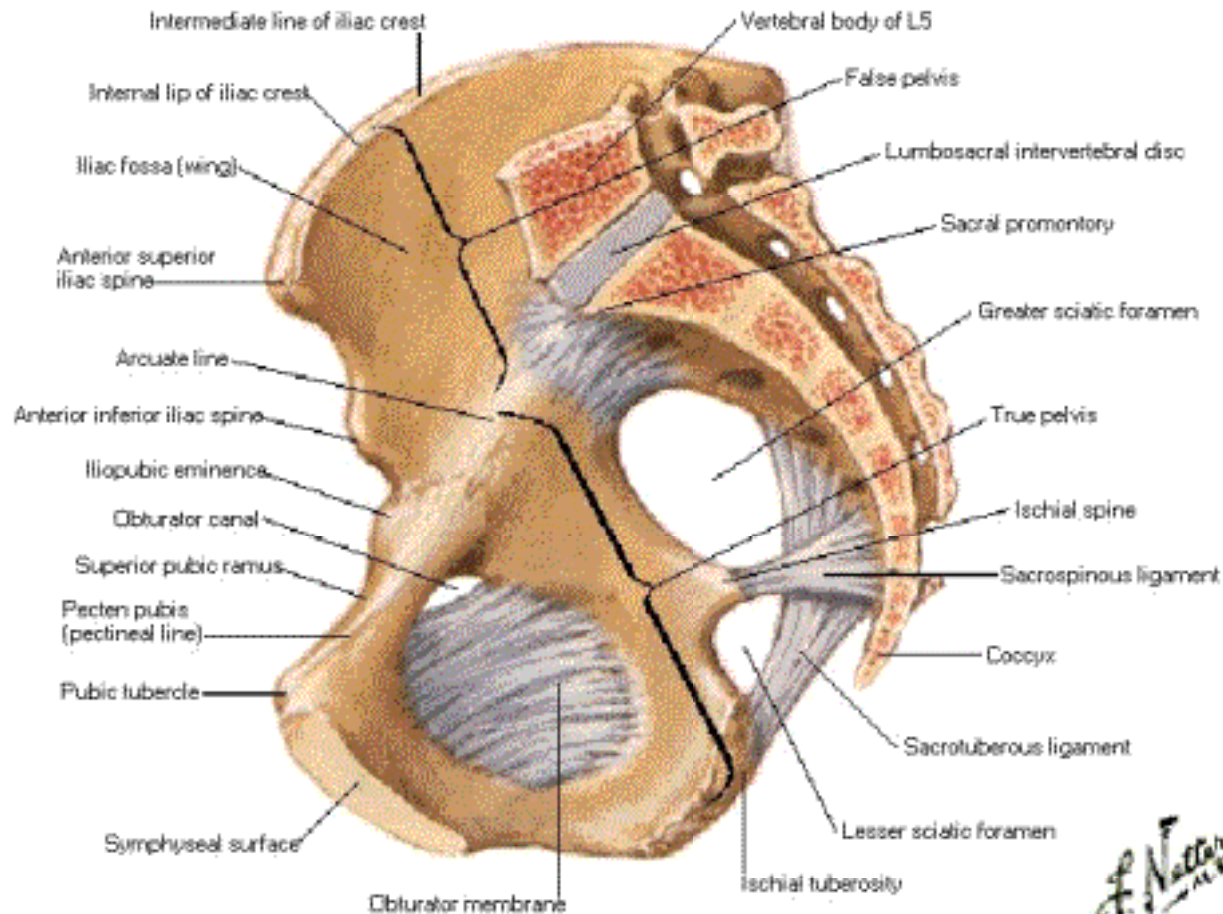
# Abdominal Wall and Viscera [Below L4]

## Midsagittal Section



# Bones and Ligaments of Pelvis

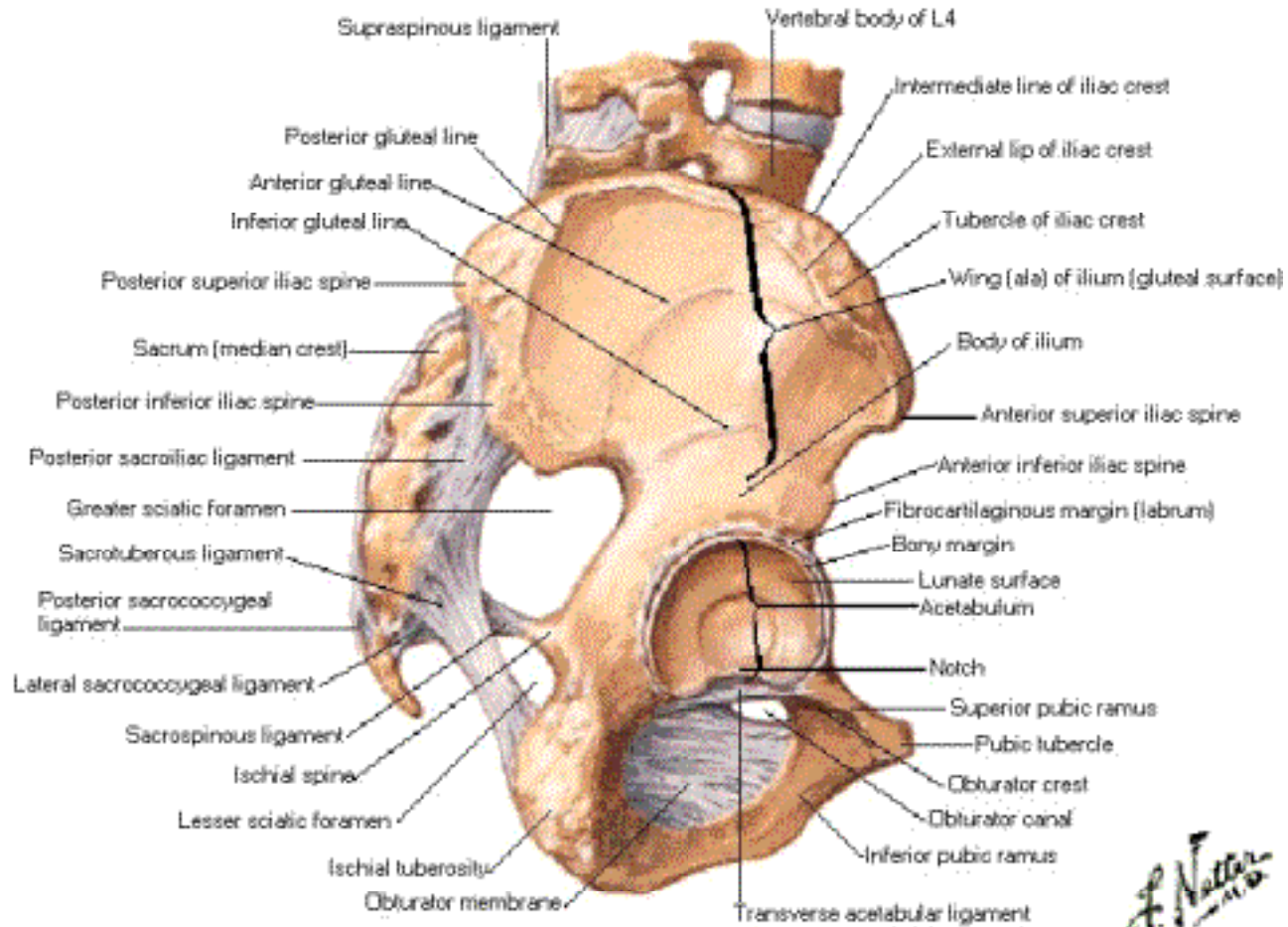
## Midsagittal Section



*F. Netter M.D.*

# Bones and Ligaments of Pelvis

## Lateral View

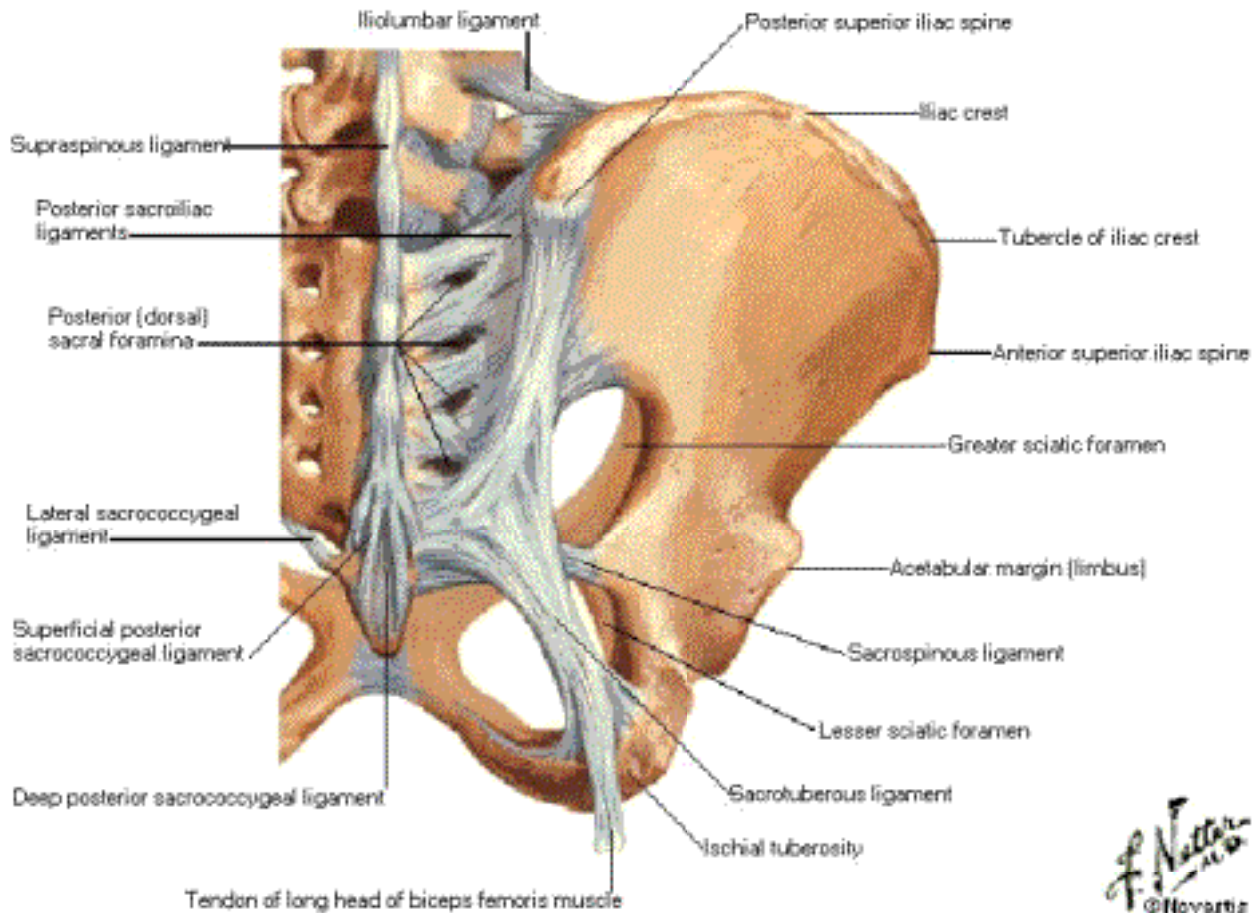


*F. Netter M.D.*



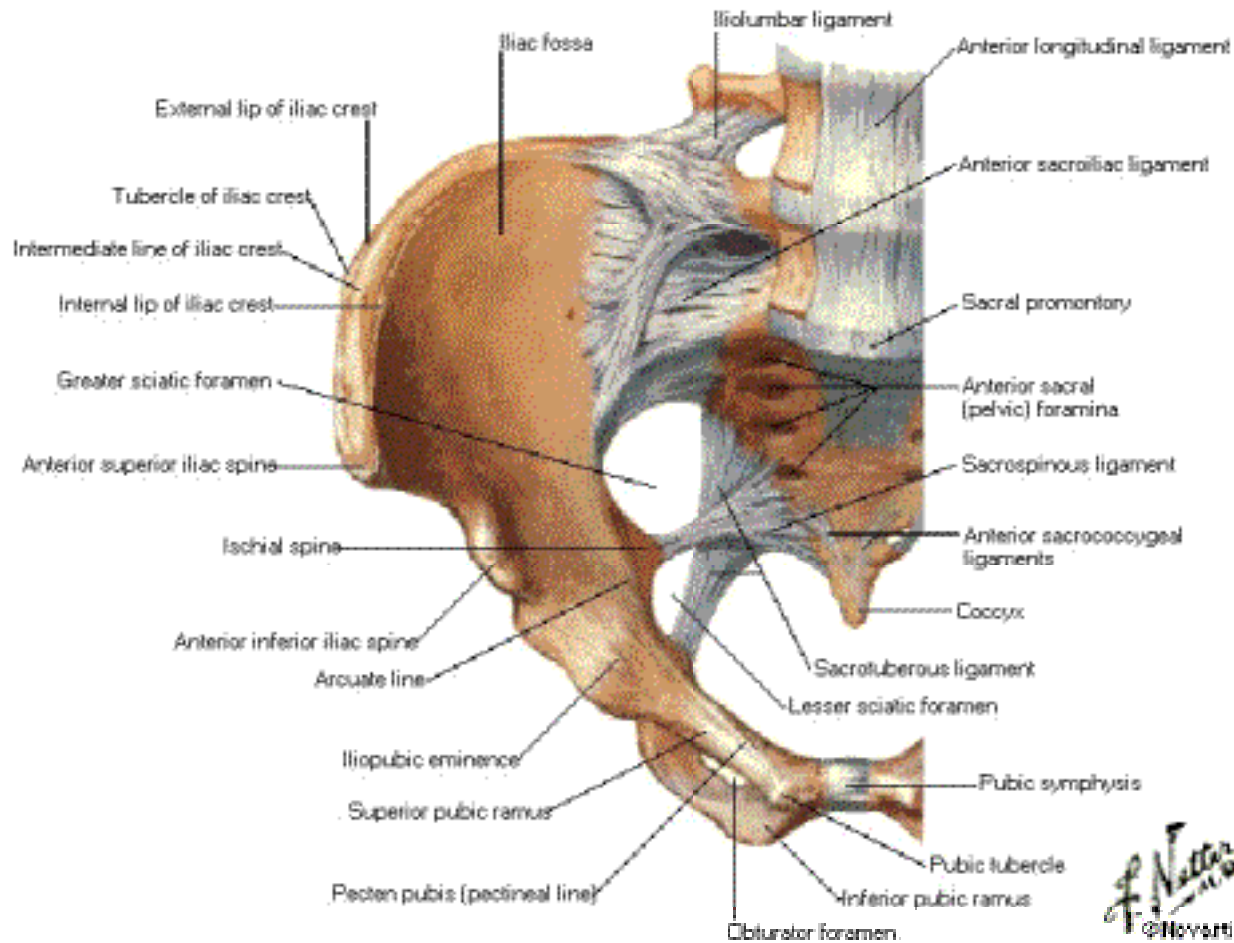
# Bones and Ligaments of Pelvis

## Posterior View



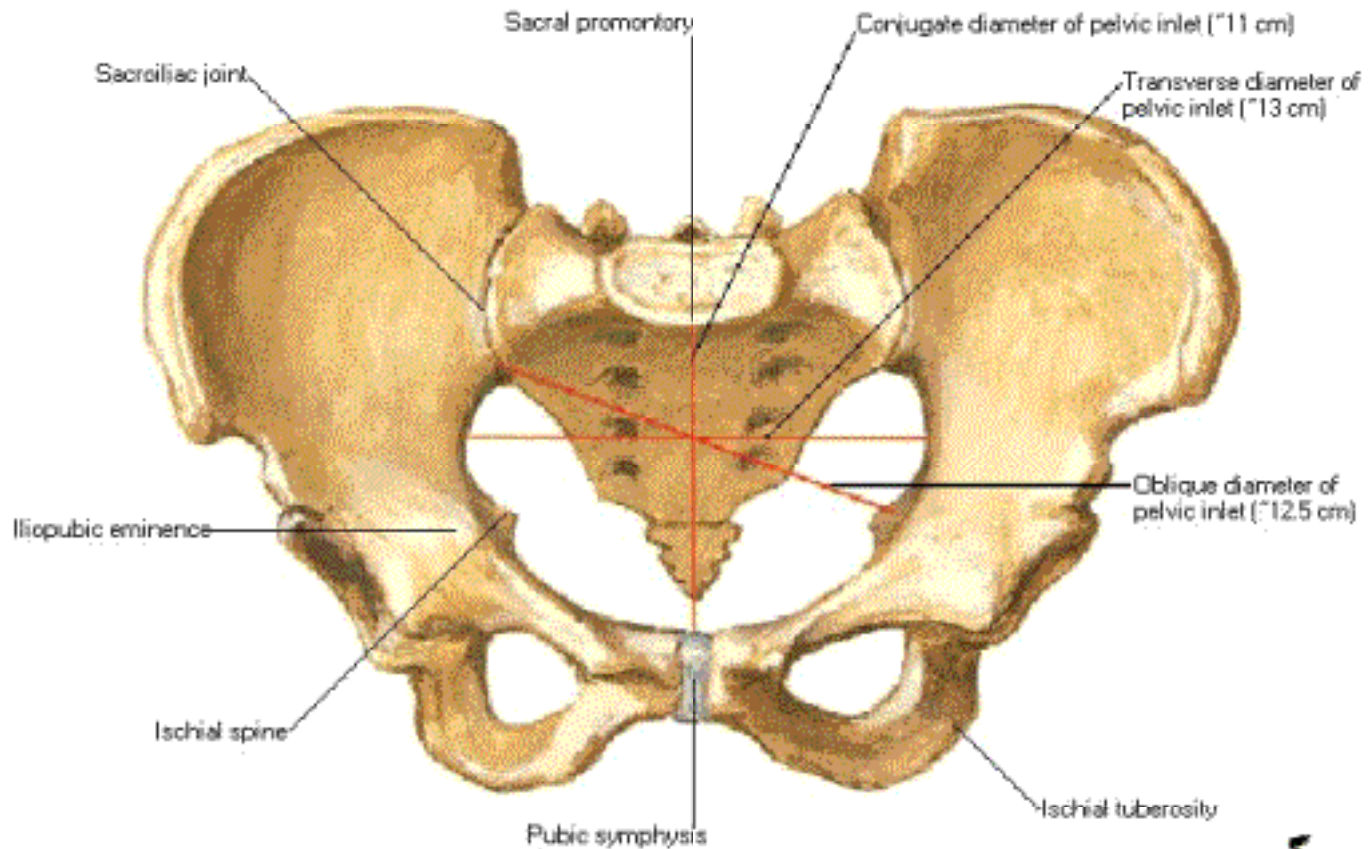
# Bones and Ligaments of Pelvis

## Anterior View



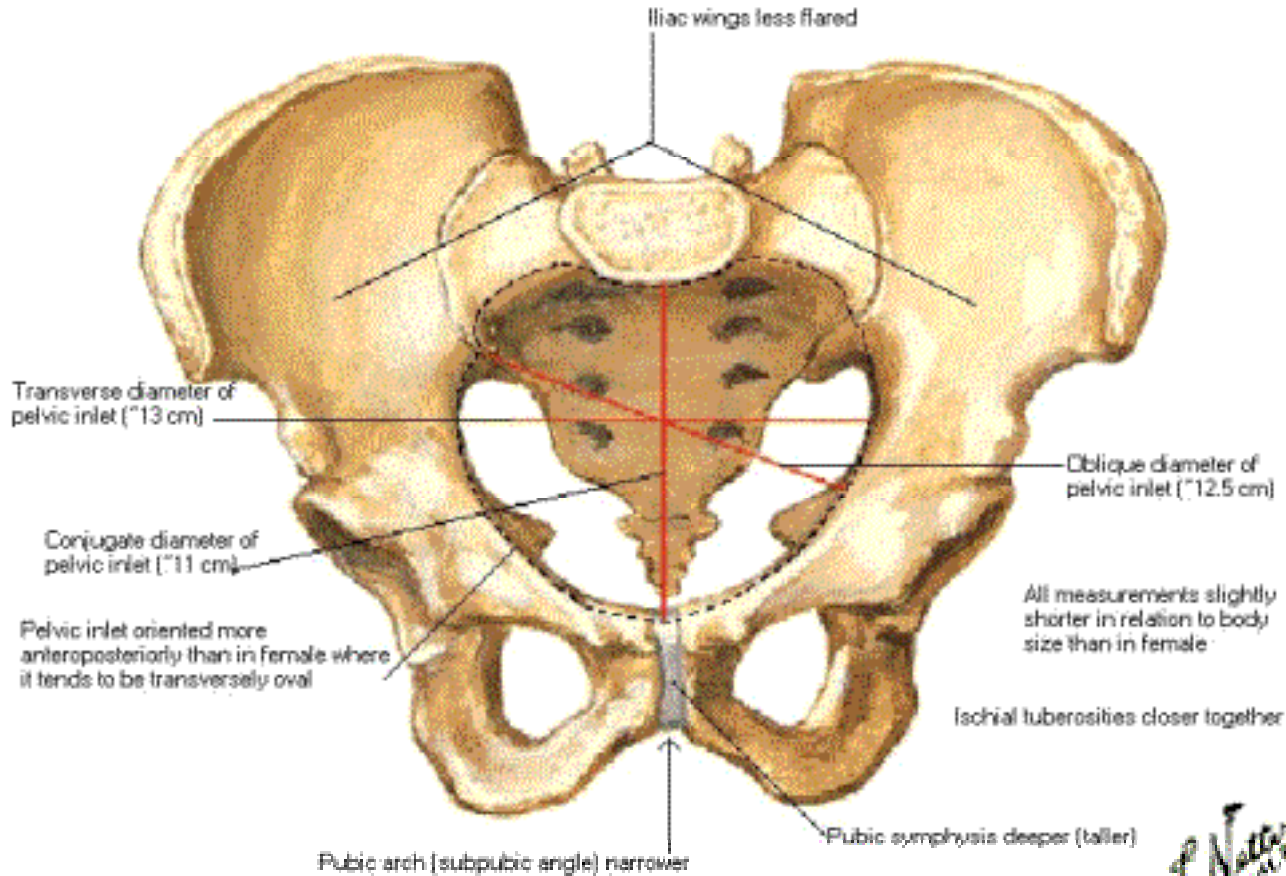
# Female Pelvis

## Measurements - Anterior View



# Male Pelvis

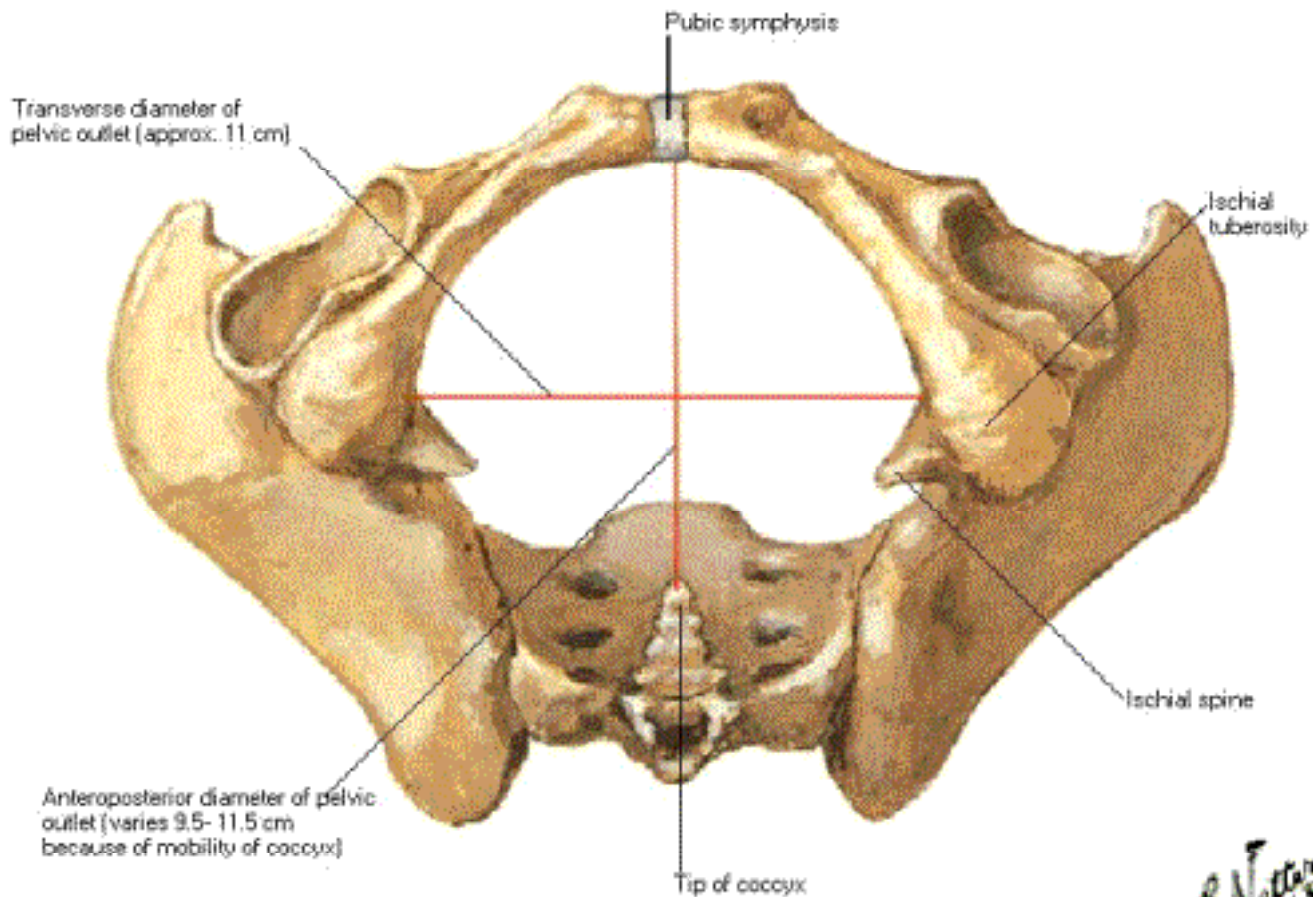
## Measurements - Anterior View





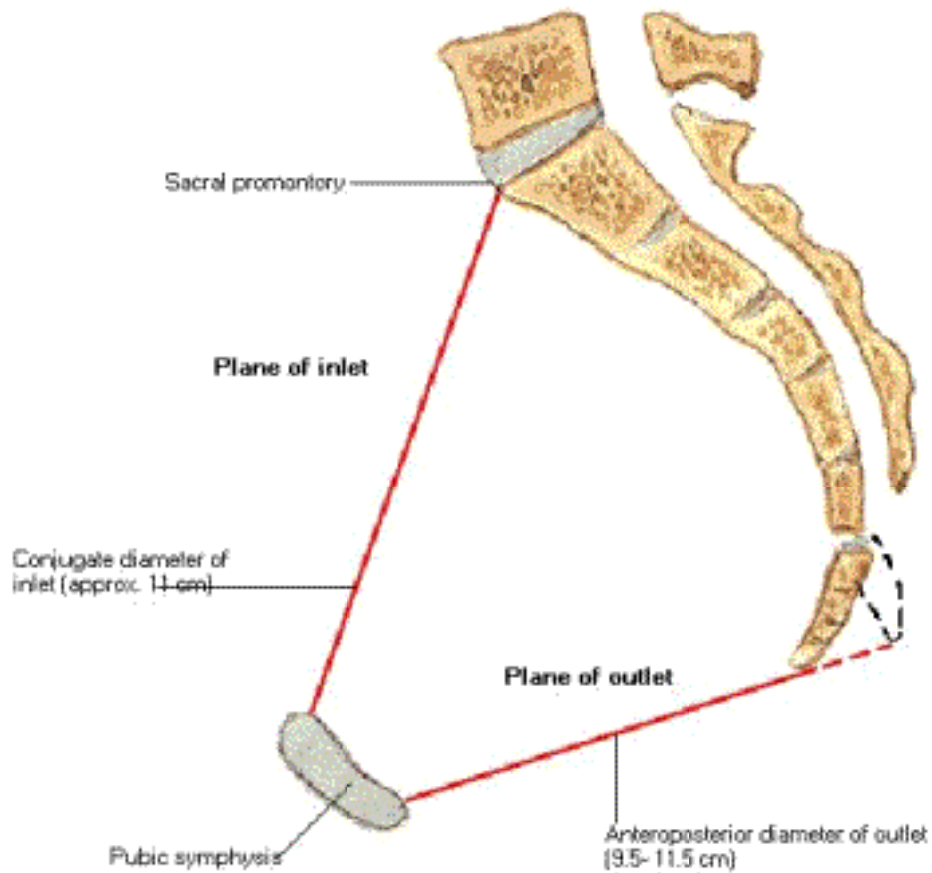
# Female Pelvis

## Measurements - Inferior View



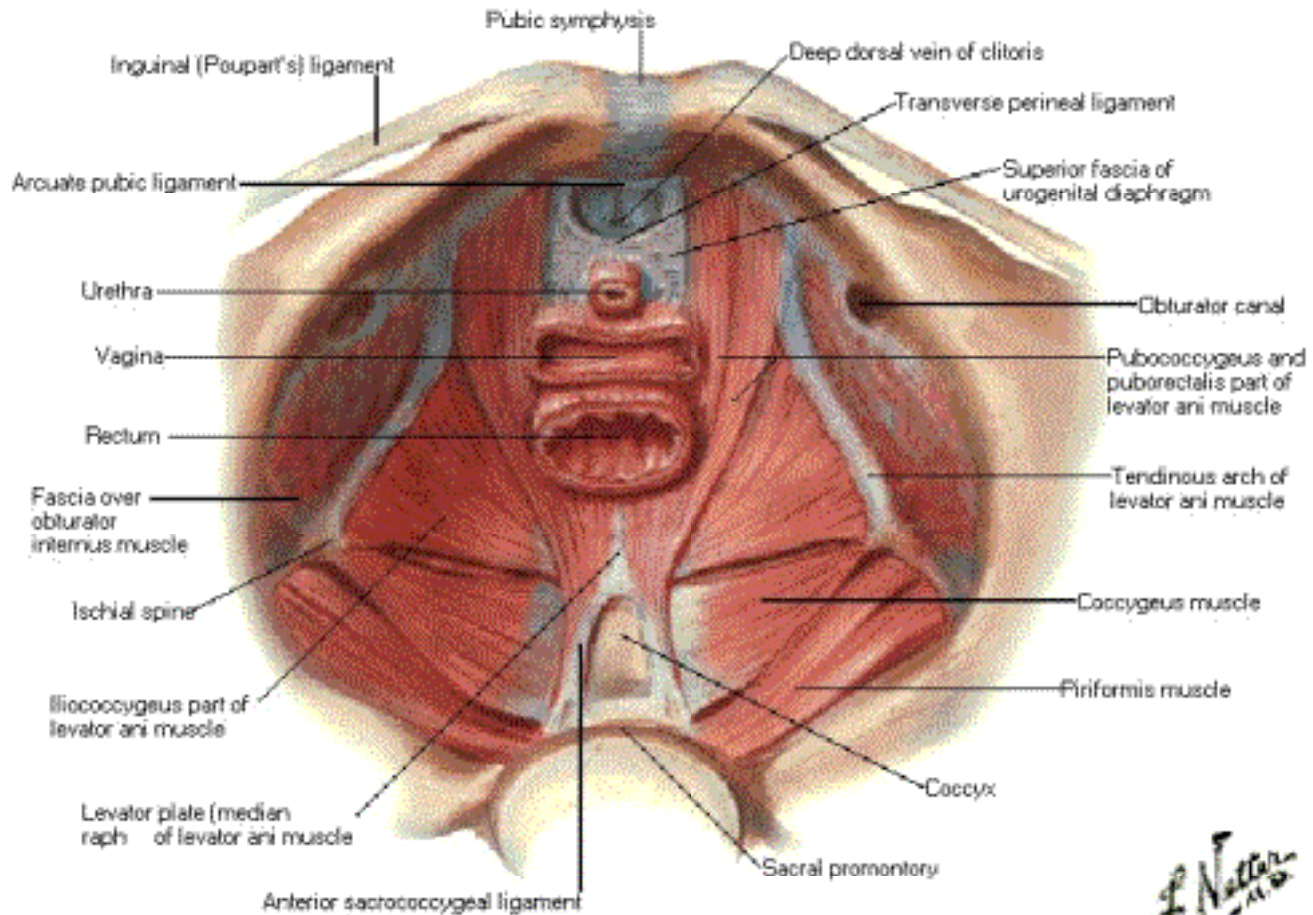
# Female Pelvis

## Measurements - Sagittal Section



# Pelvic Diaphragm of Female

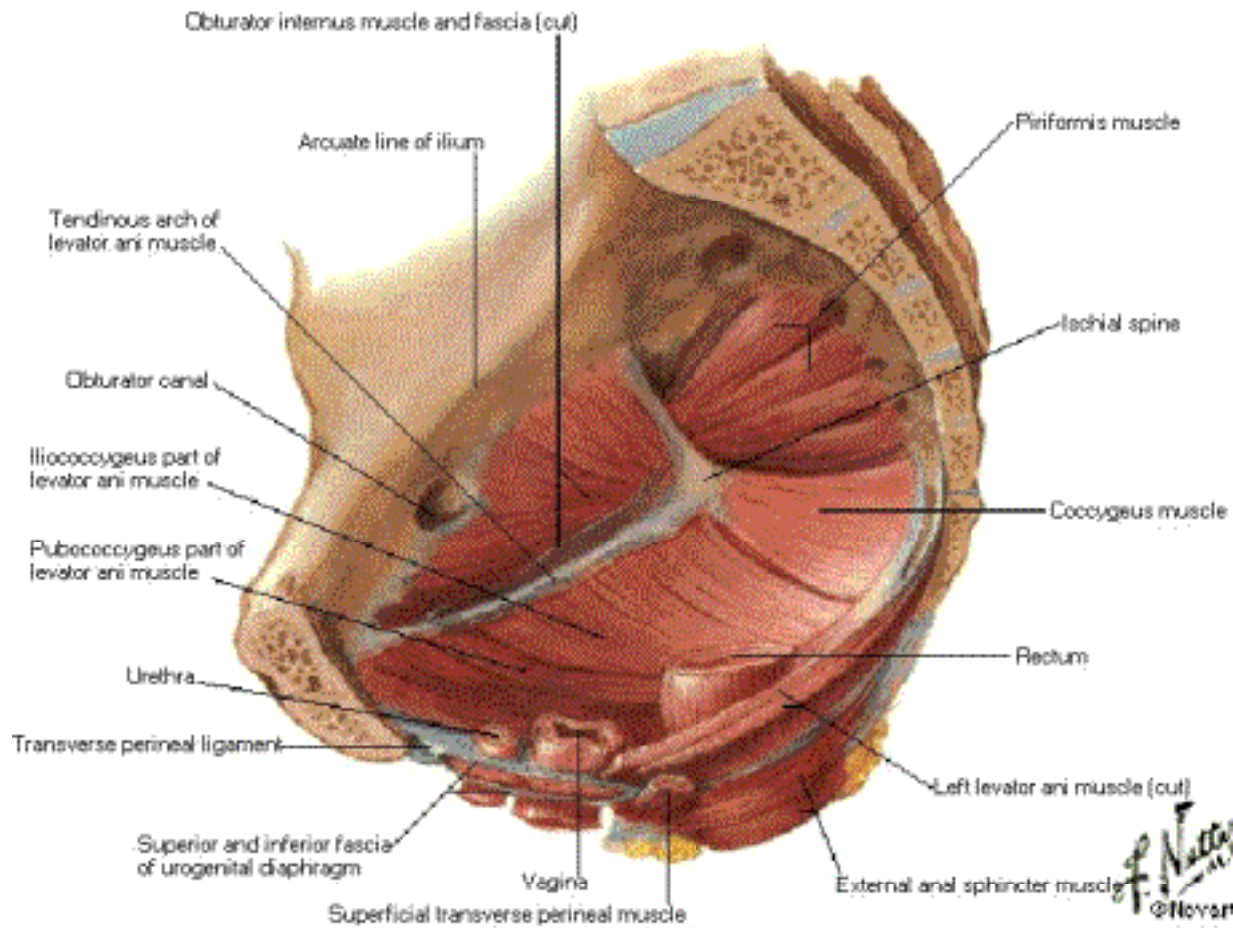
## Superior View



*F. Netter M.D.*

# Pelvic Diaphragm of Female

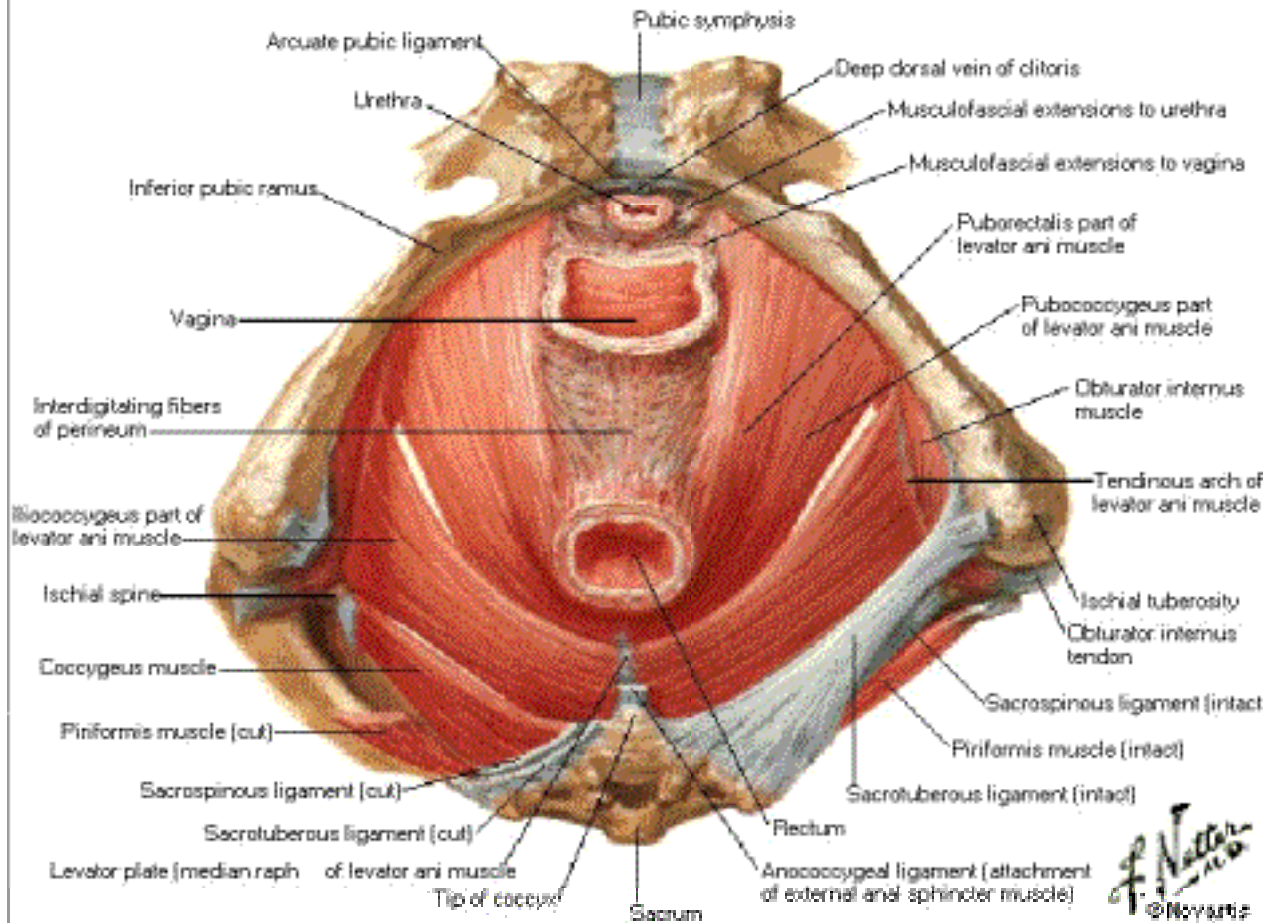
## Medial View





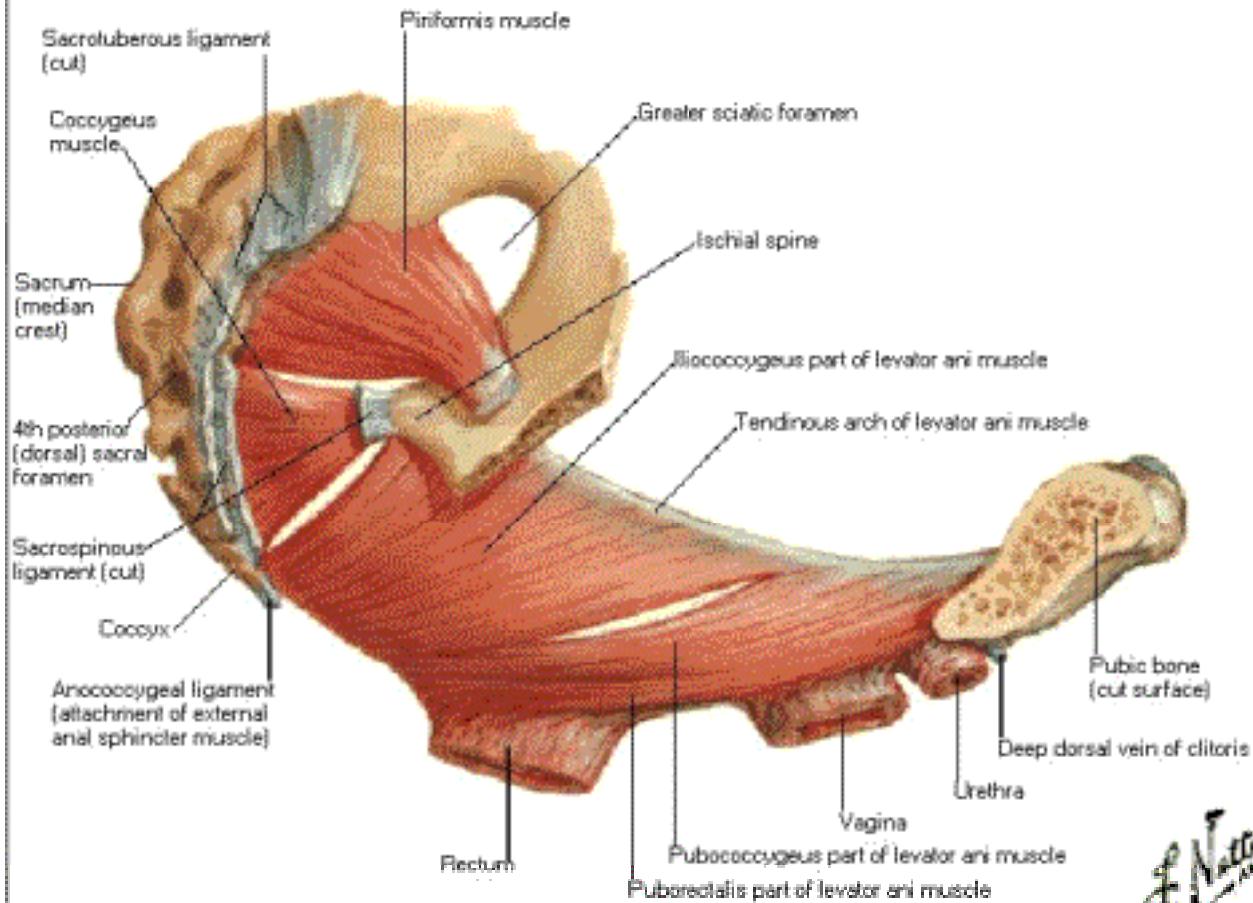
# Pelvic Diaphragm of Female

## Inferior View



# Pelvic Diaphragm of Female

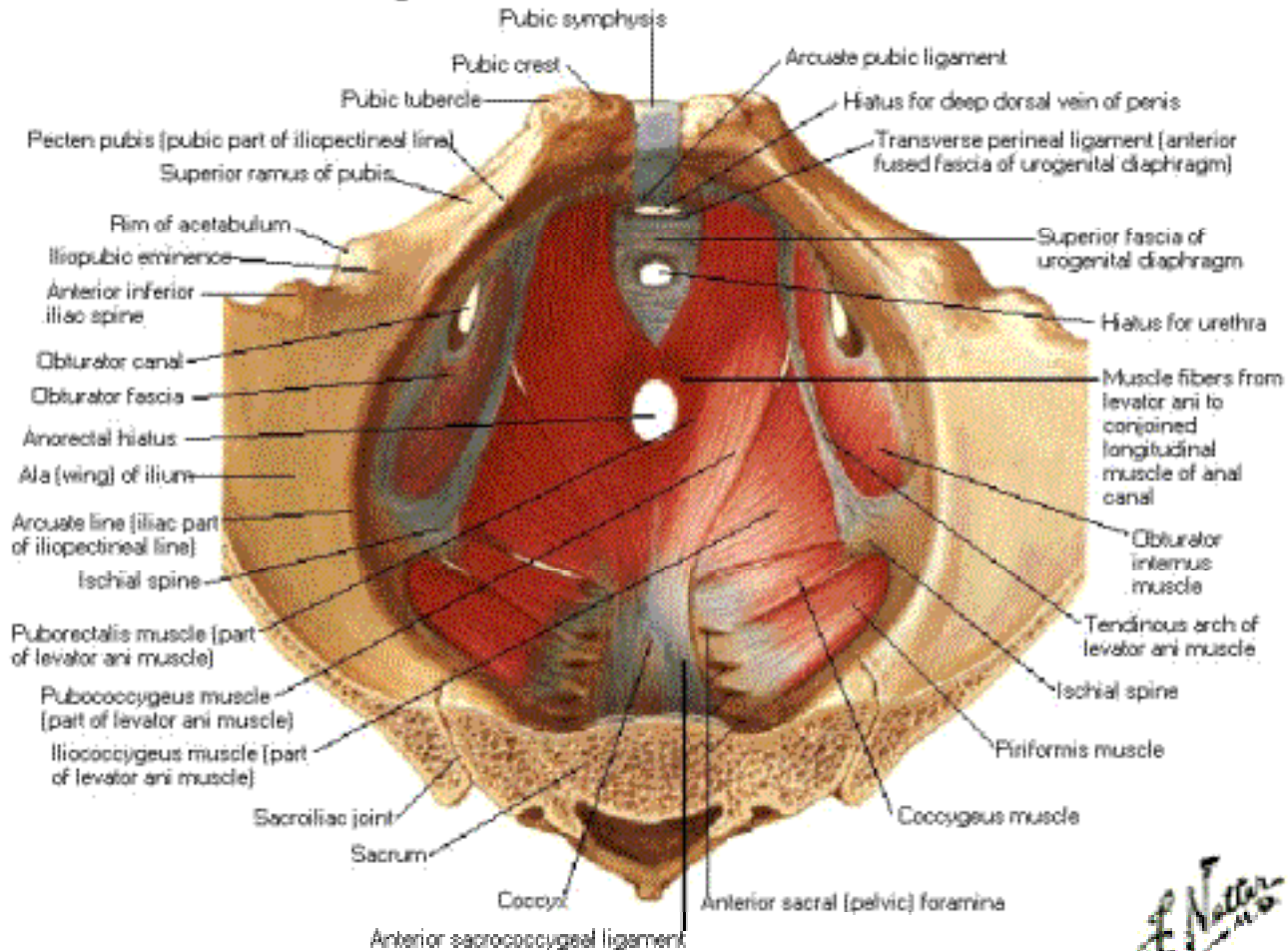
## Lateral View



*F. Netto*

# Pelvic Diaphragm of Male

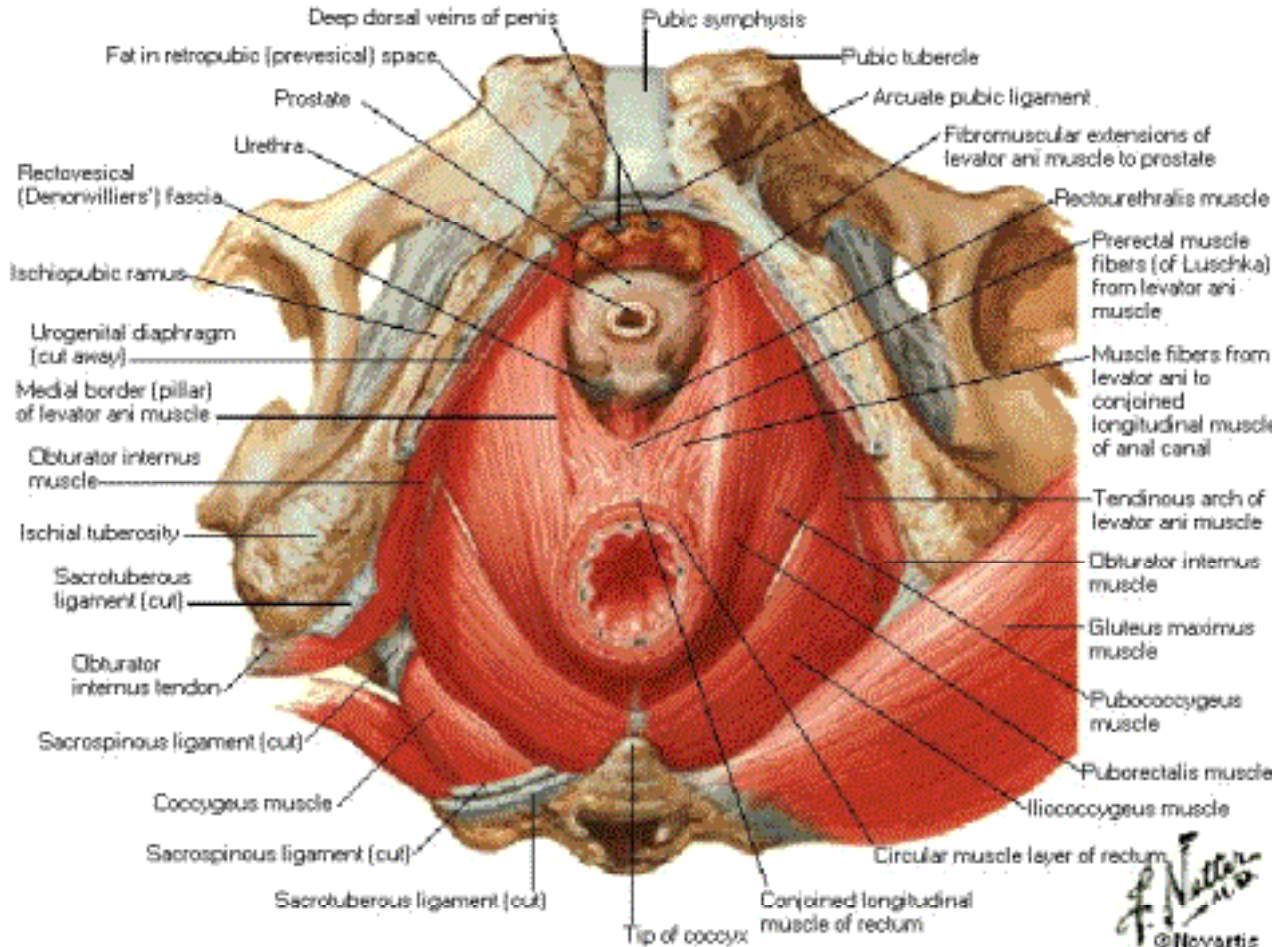
## Superior View - Viscera Removed



*F. Netter M.D.*

# Pelvic Diaphragm of Male

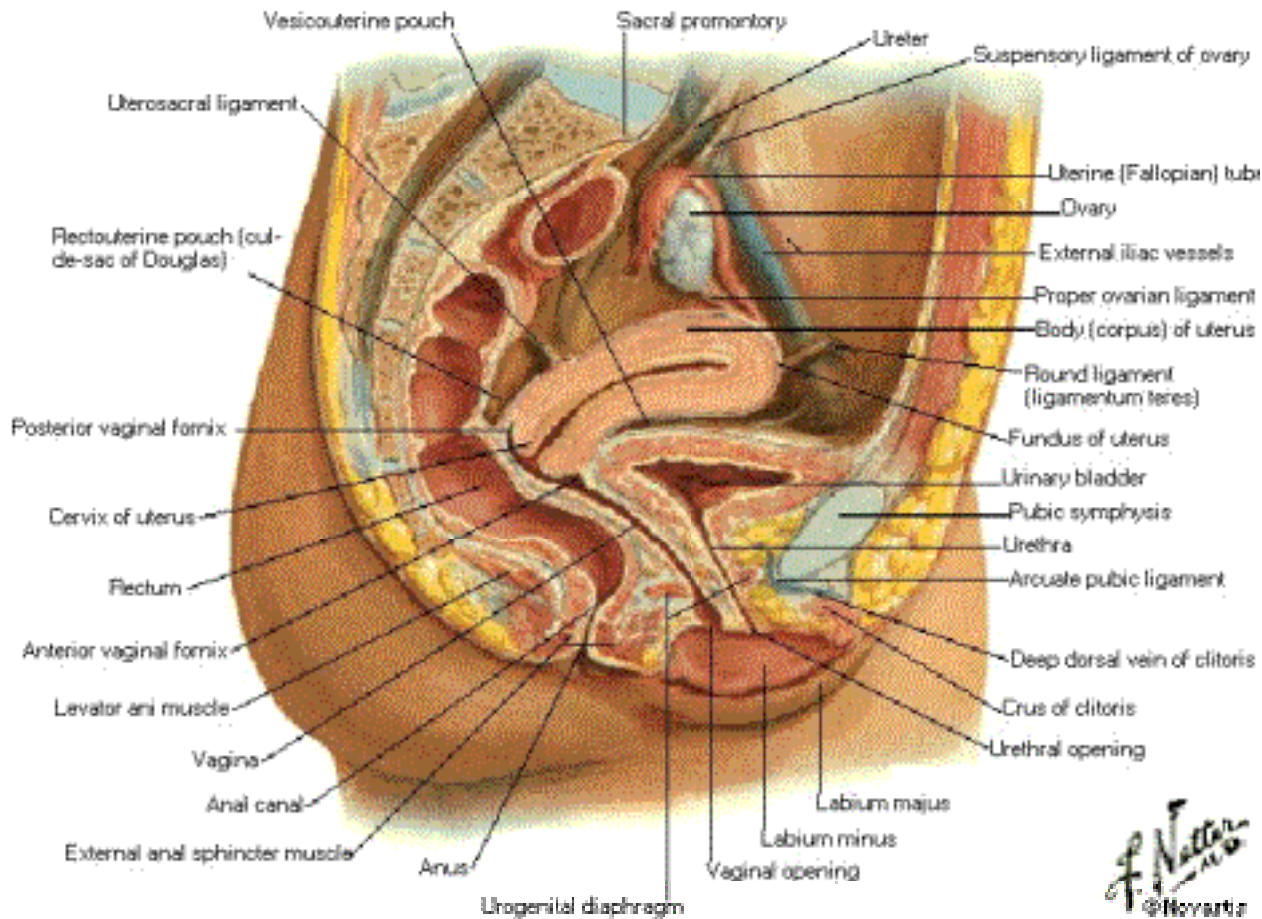
## Inferior View





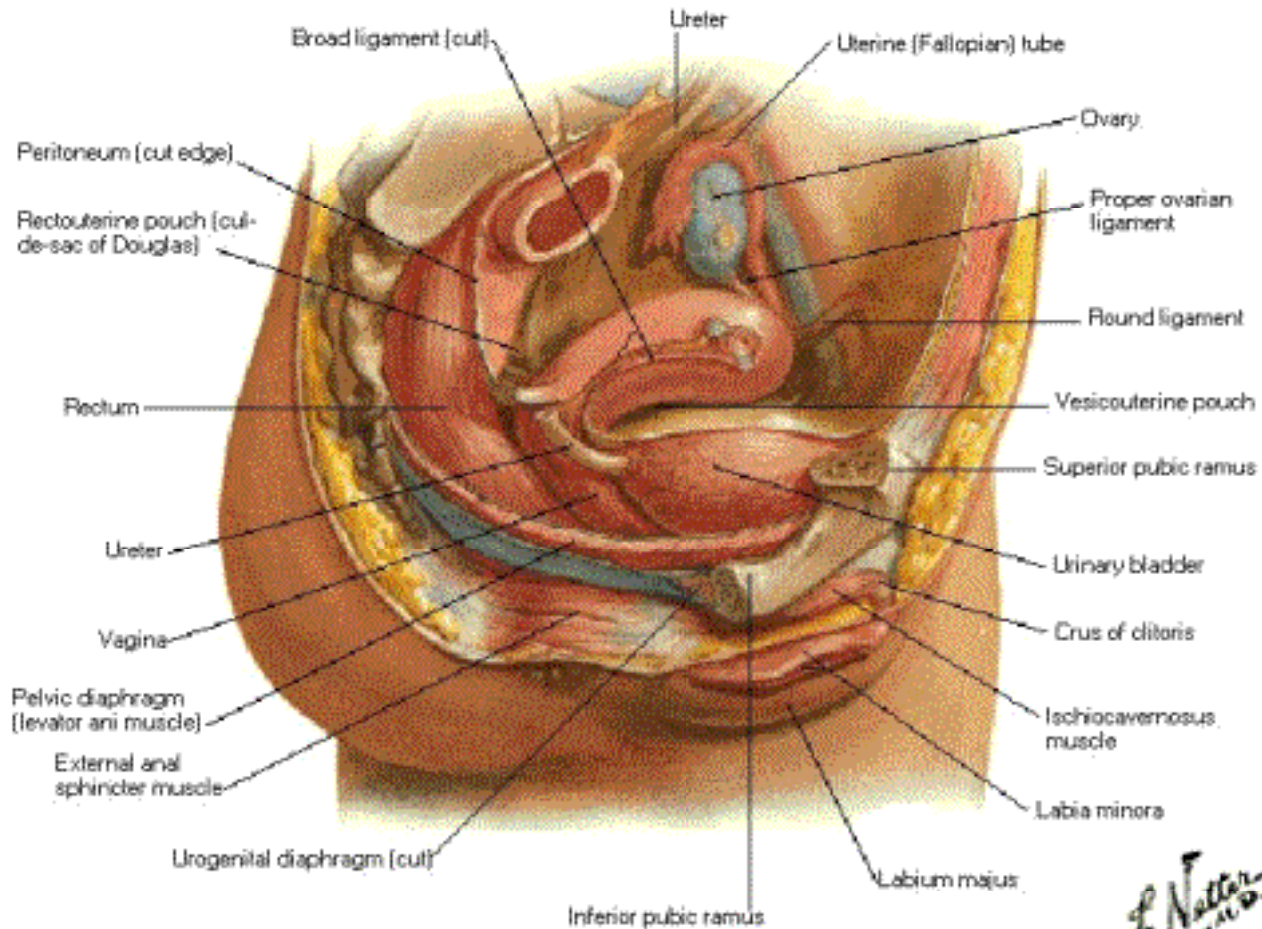
# Pelvic Viscera and Perineum of Female

## Midsagittal Section



# Pelvic Viscera and Perineum of Female

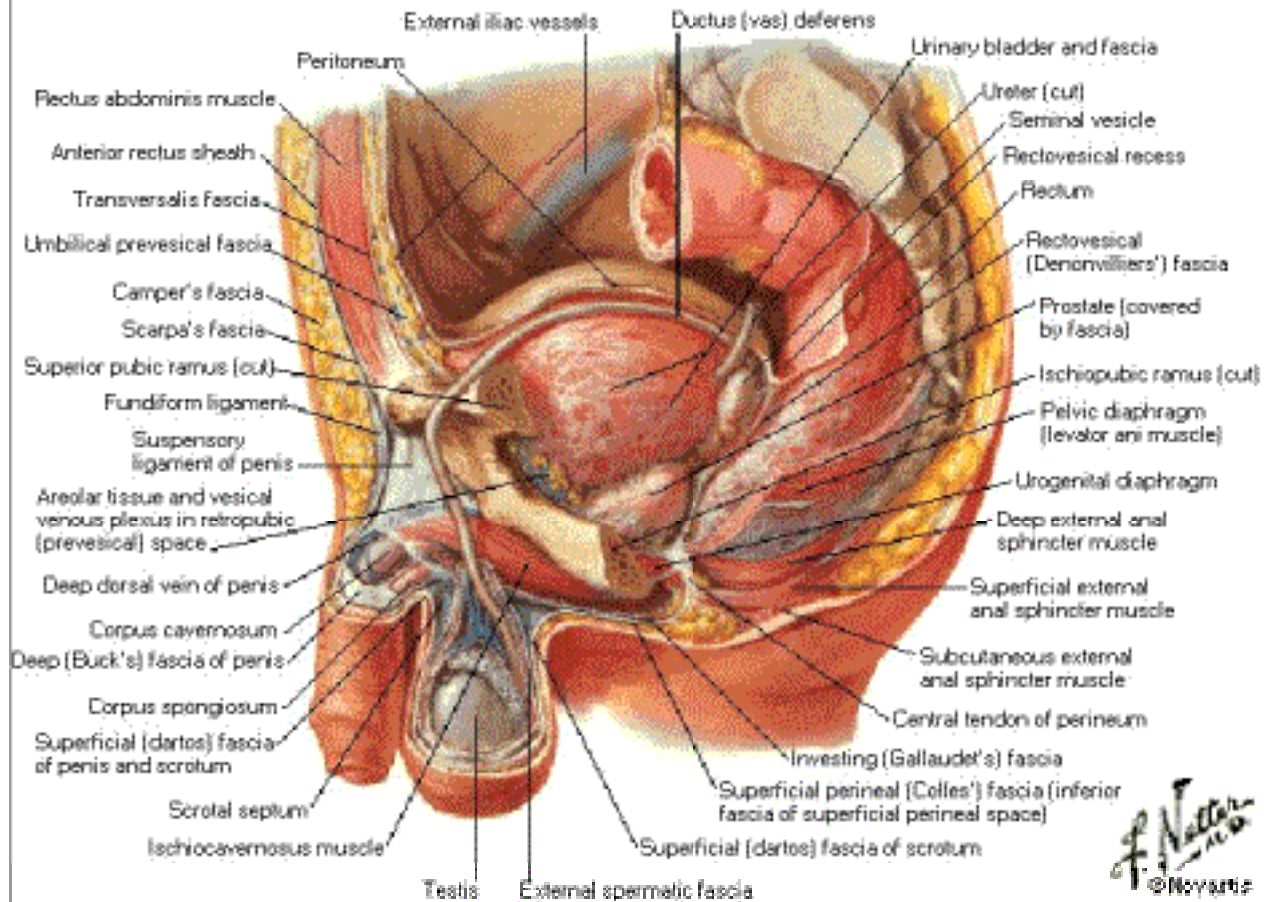
## Paramedian Sagittal Section



*L. Netter M.D.*

# Pelvic Viscera and Perineum of Male

## Paramedian Sagittal Section

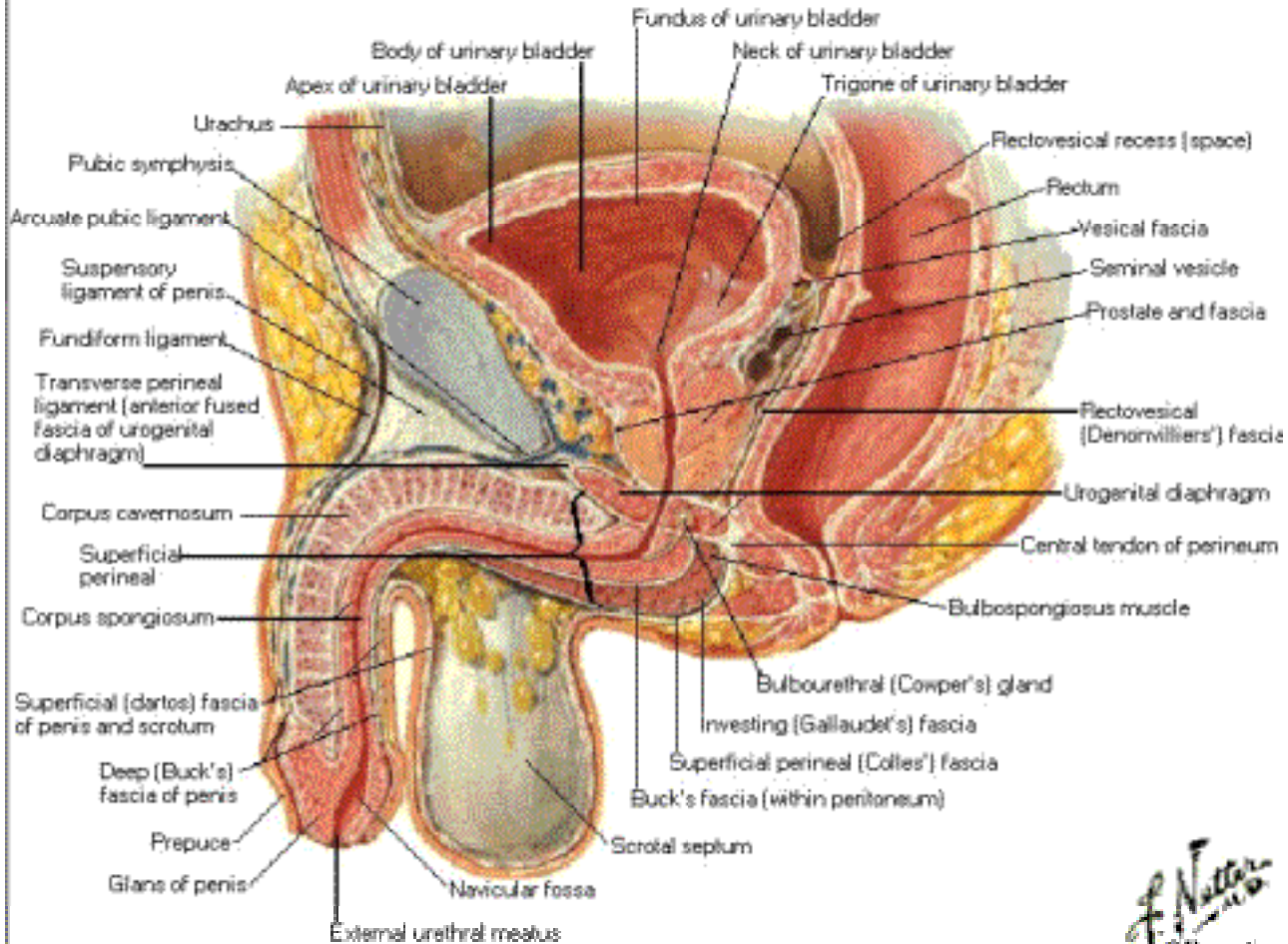


*F. Netter*  
© 1996



# Pelvic Viscera and Perineum of Male

## Midsagittal Section

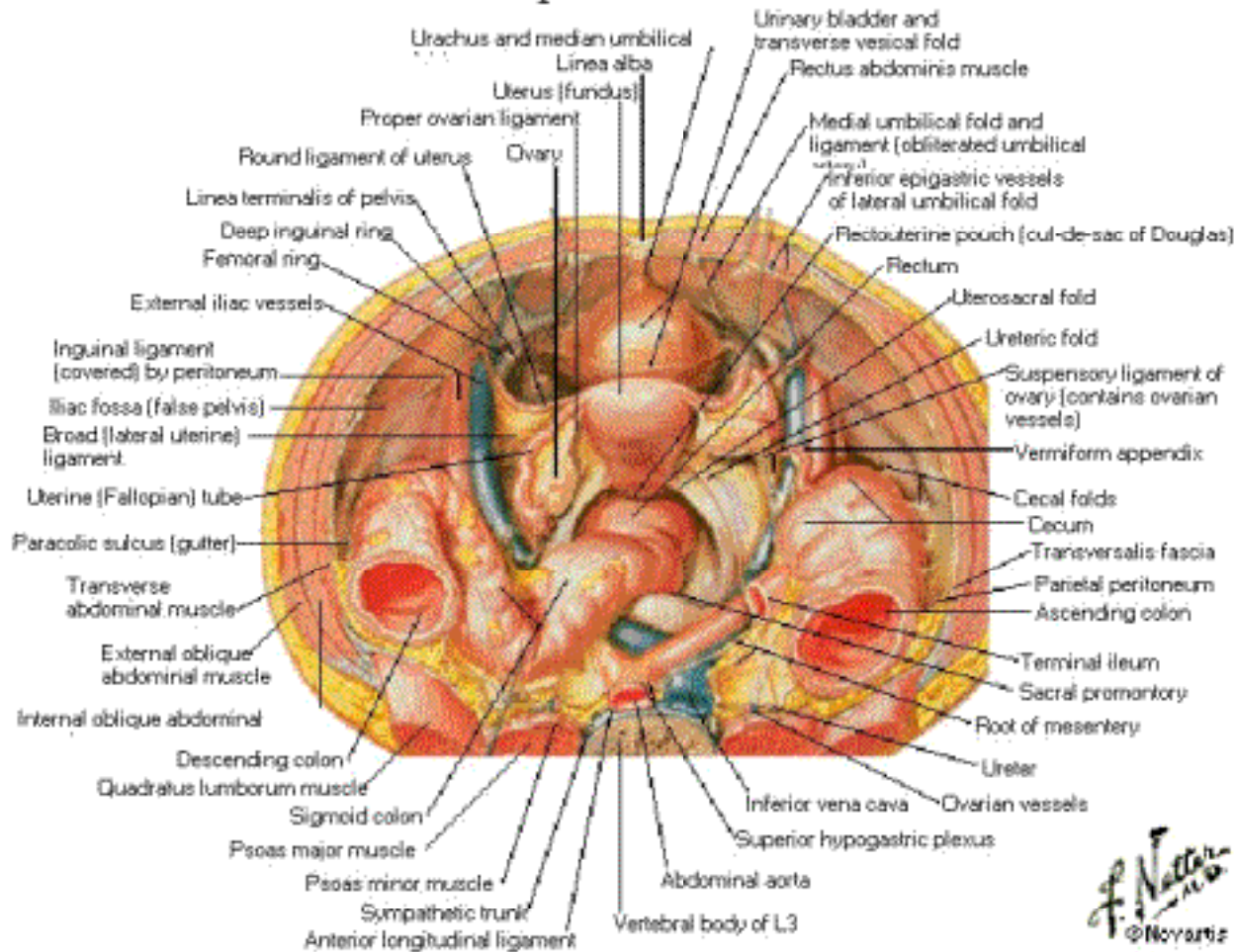


*F. Netter M.D.*  
© 1989



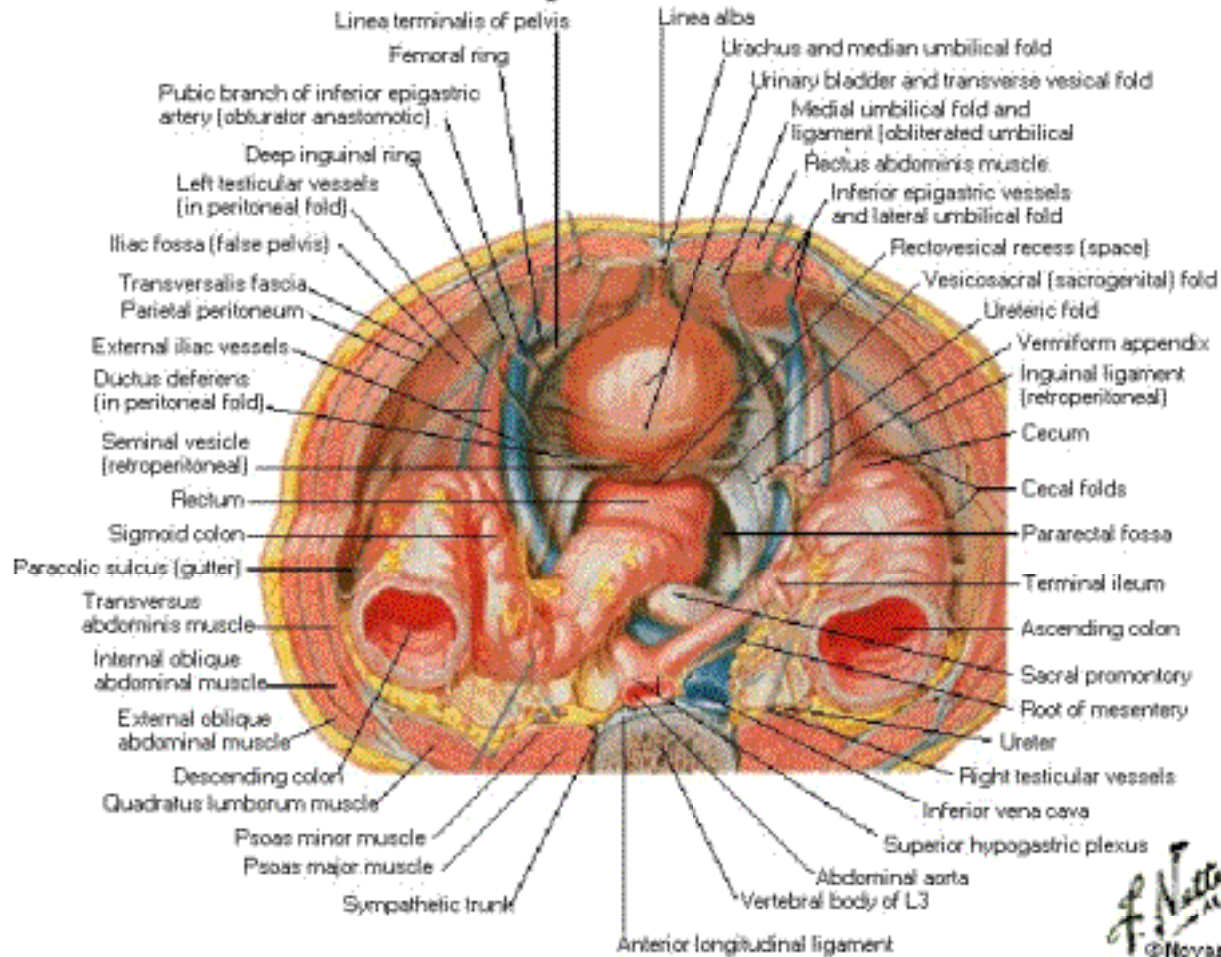
# Pelvic Contents of Female

## Superior View



# Pelvic Contents of Male

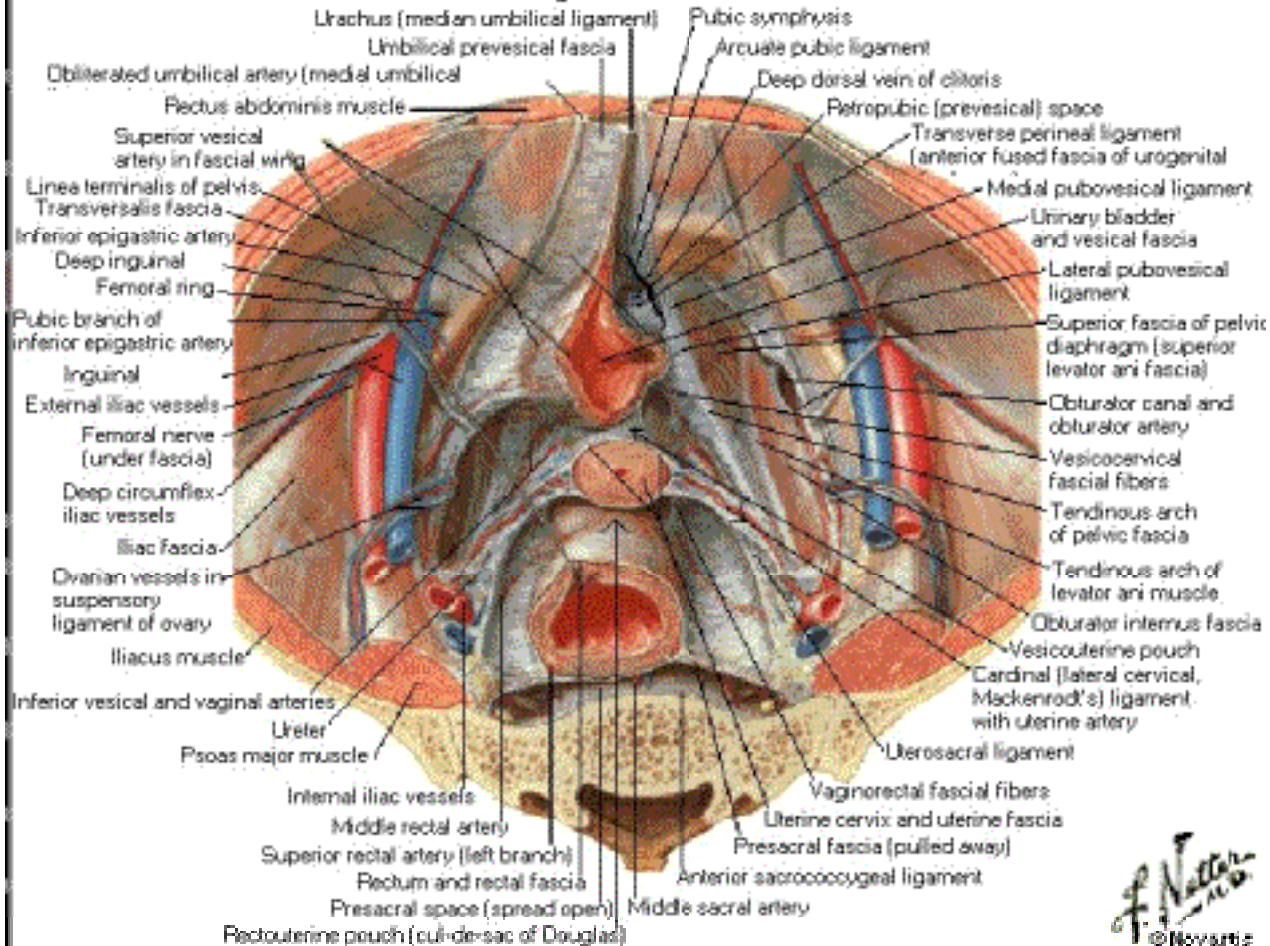
## Superior View



*F. Netto*  
©Novar

# Endopelvic Fascia and Spaces of Female

## Superior View

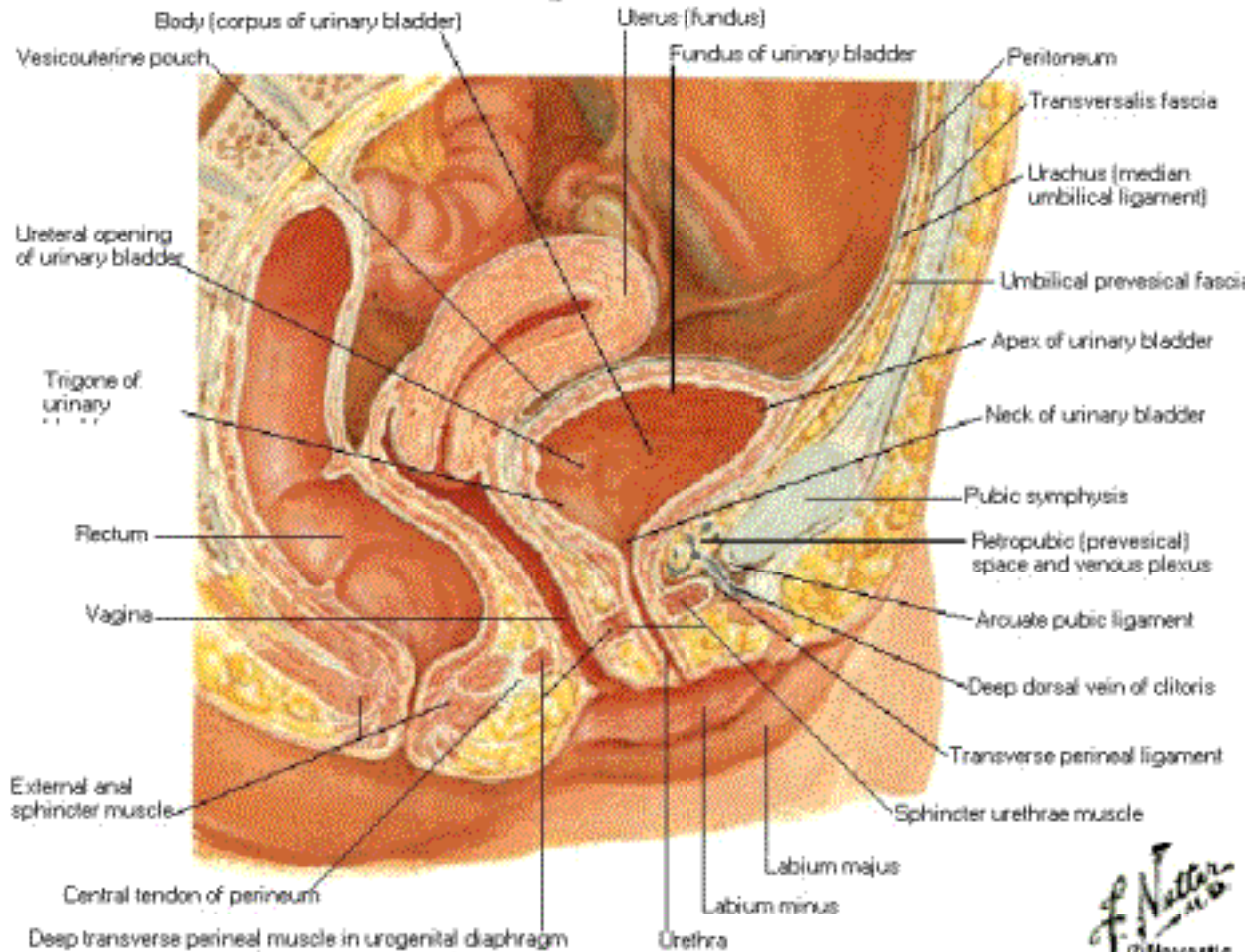


*F. Netter M.D.*  
© Novartis



# Urinary Bladder - Orientation and Supports

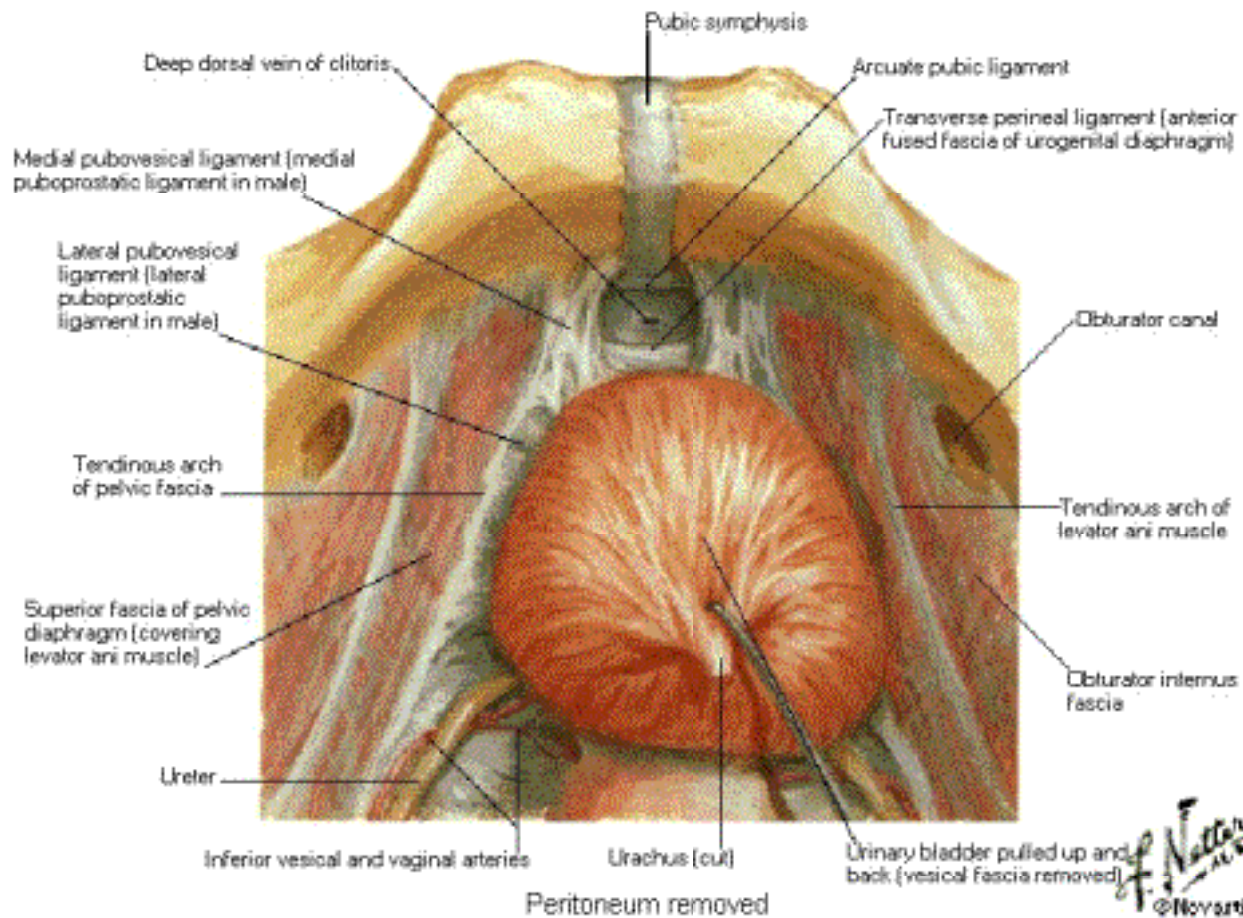
## Midsagittal Section





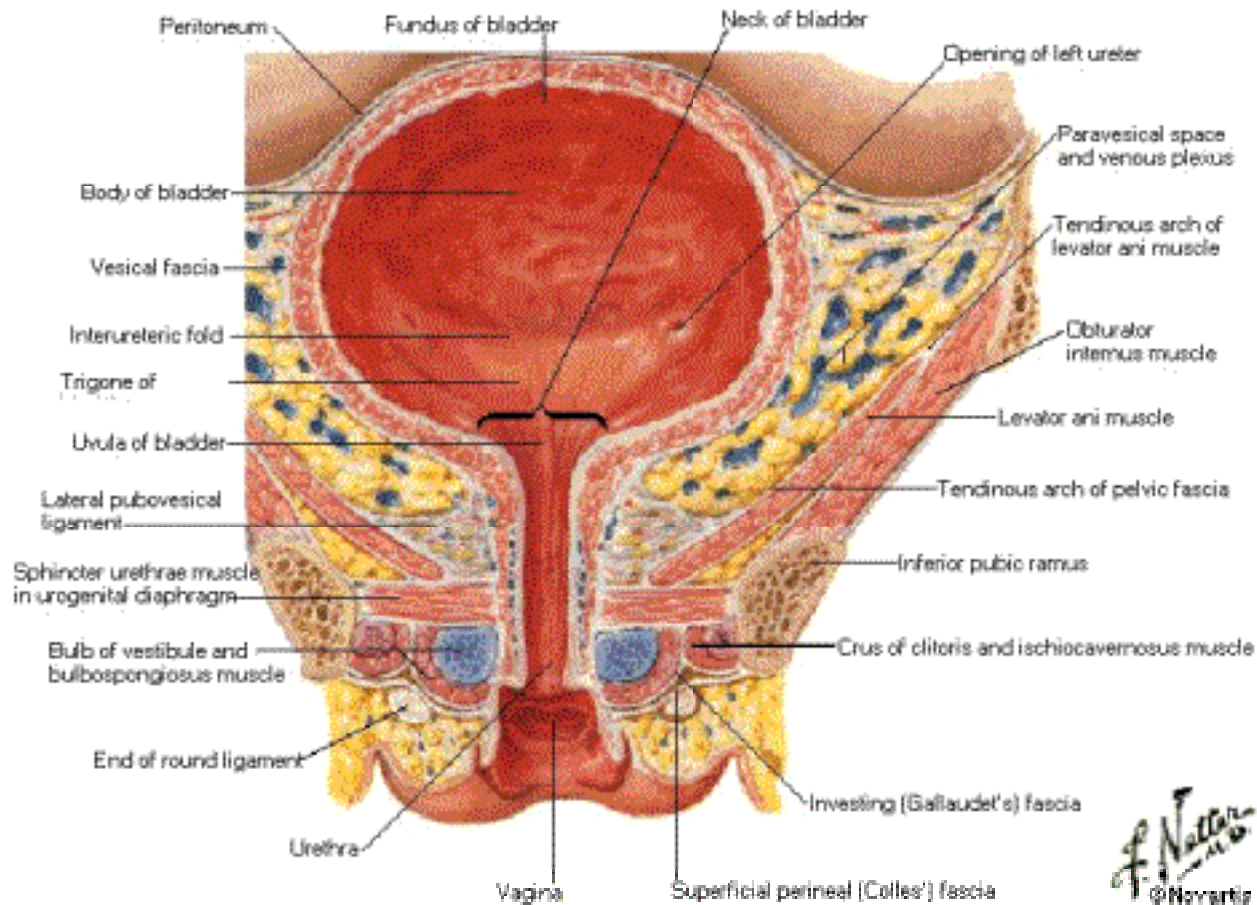
# Urinary Bladder - Orientation and Supports

## Superior View



# Urinary Bladder of Female

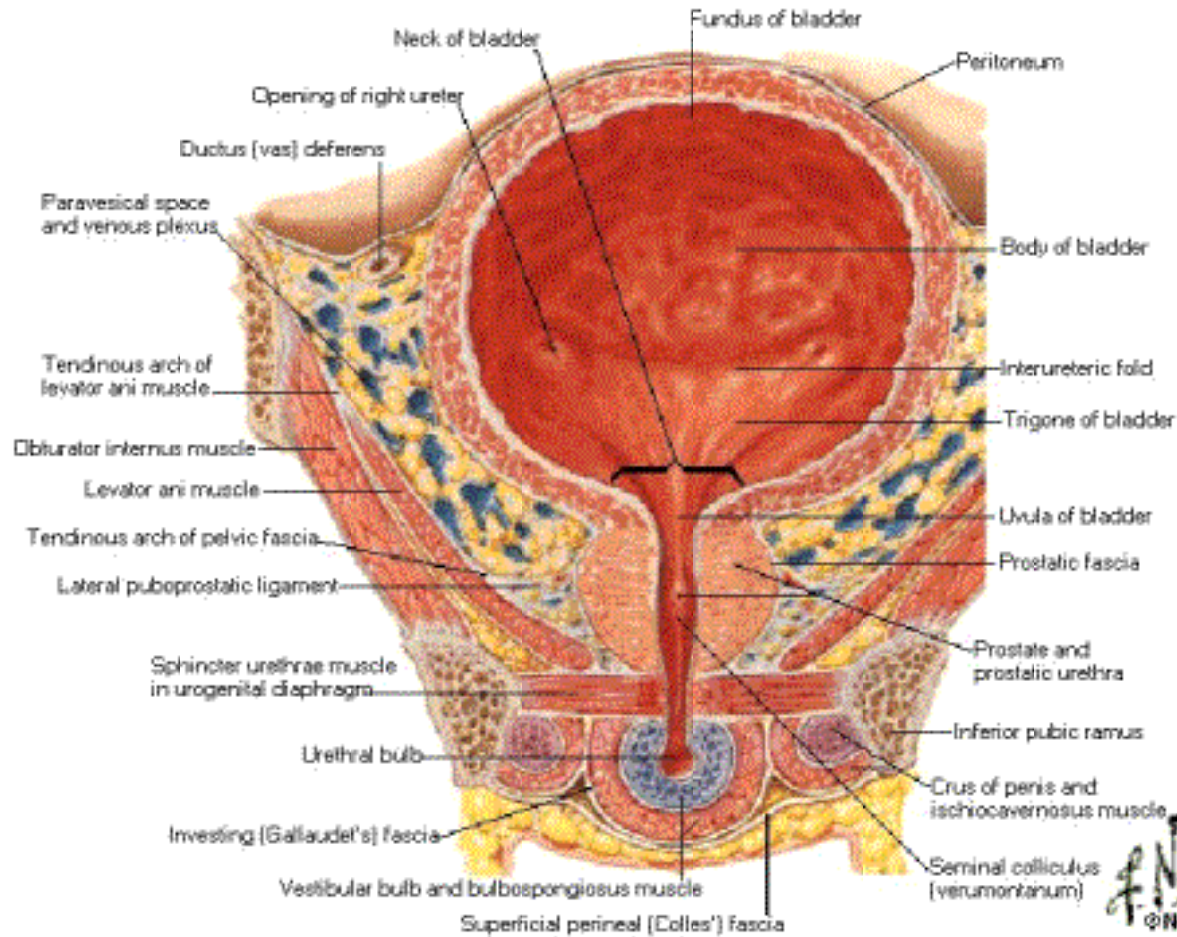
## Frontal Section



*F. J. Netter M.D.*  
© Novartis

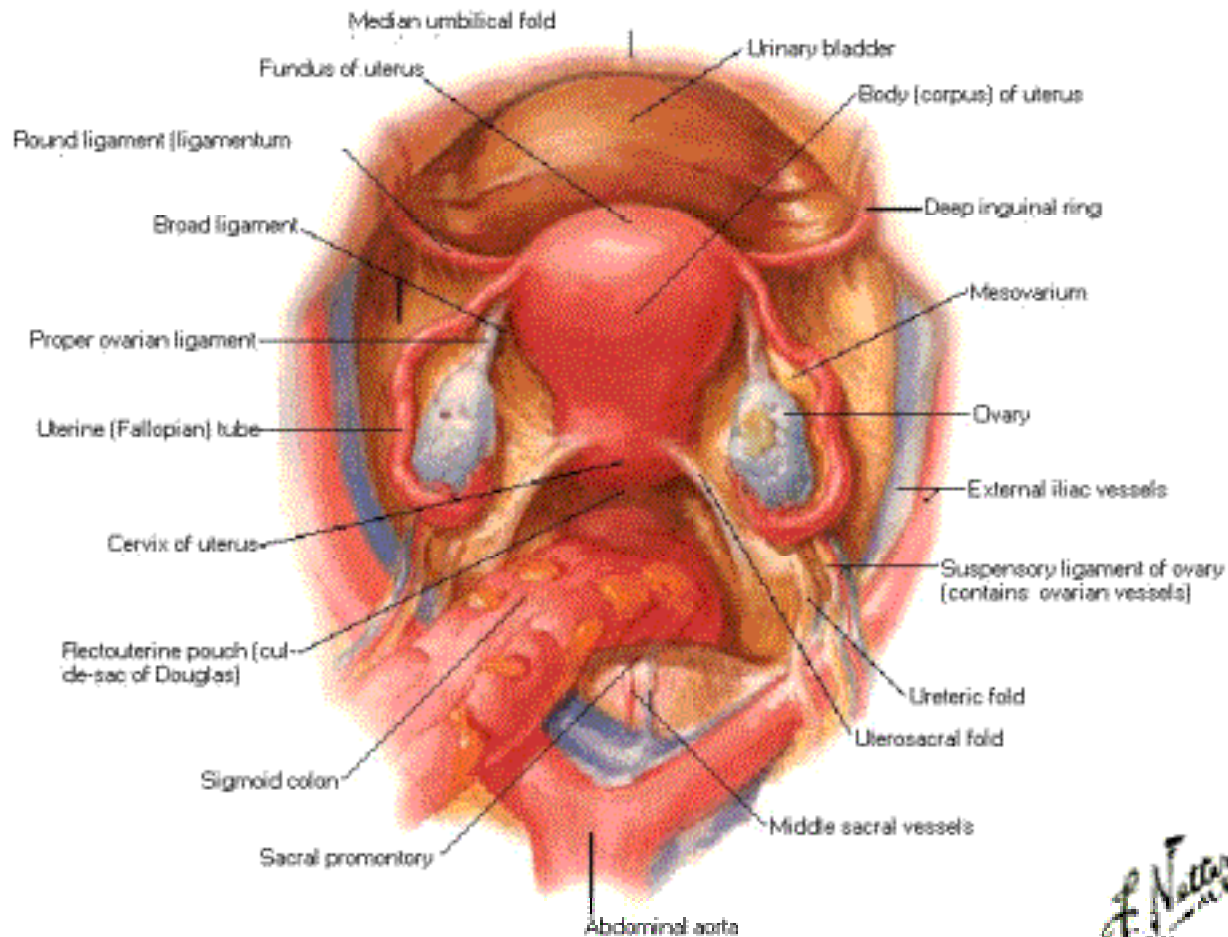
# Urinary Bladder of Male

## Frontal Section



# Pelvic Viscera of Female

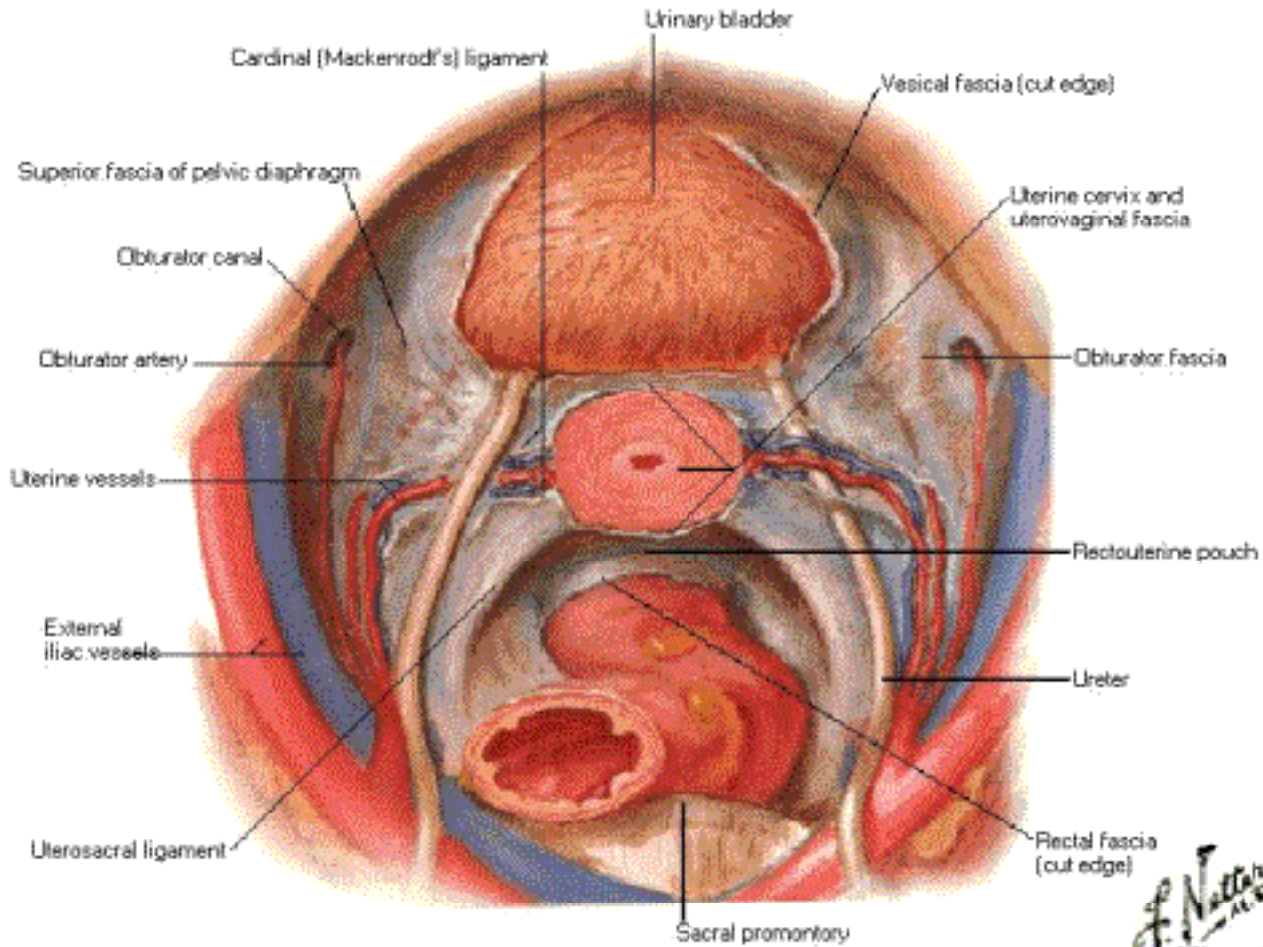
## Superior View - Peritoneum Intact



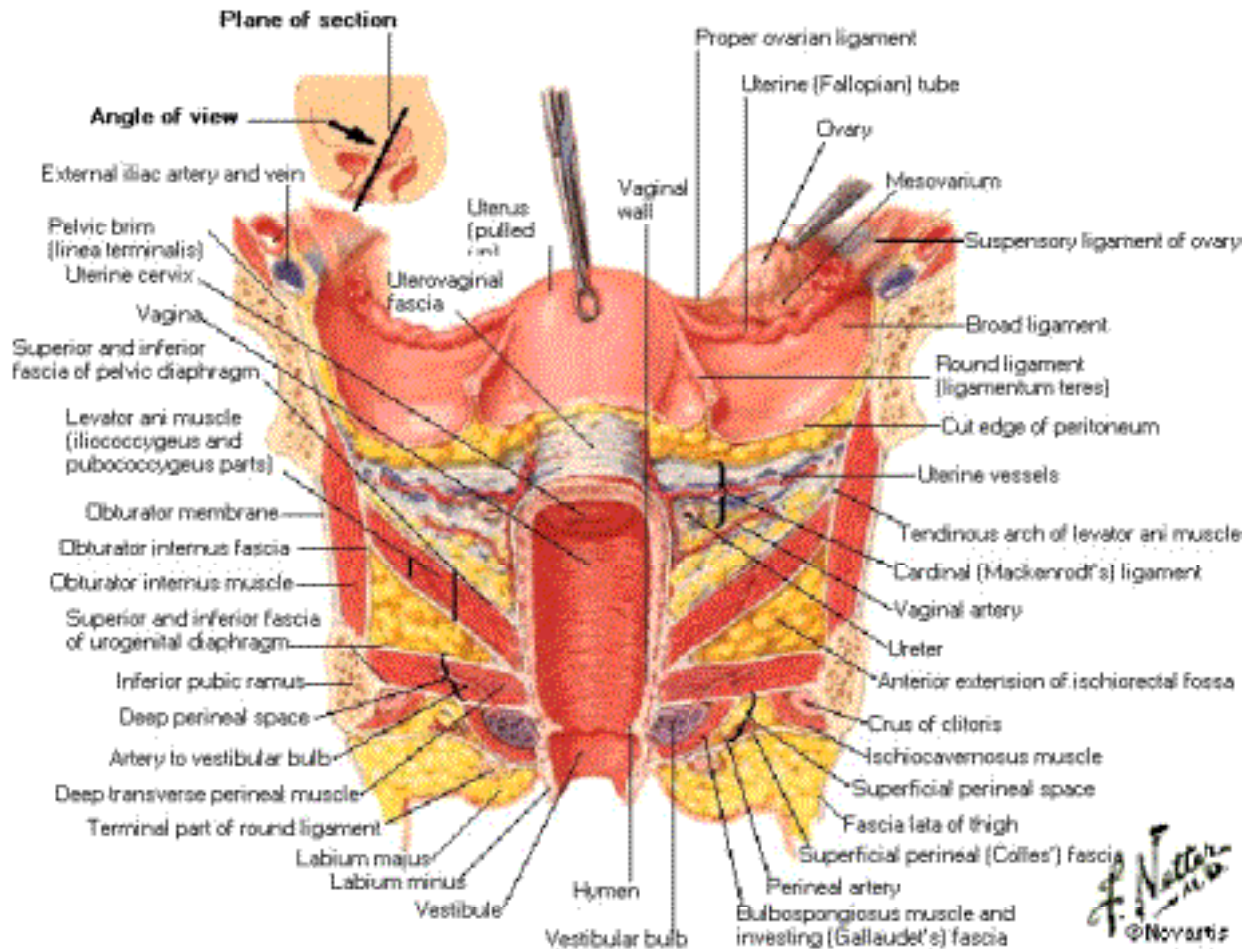


# Pelvic Viscera of Female

## Superior View - Peritoneum Removed

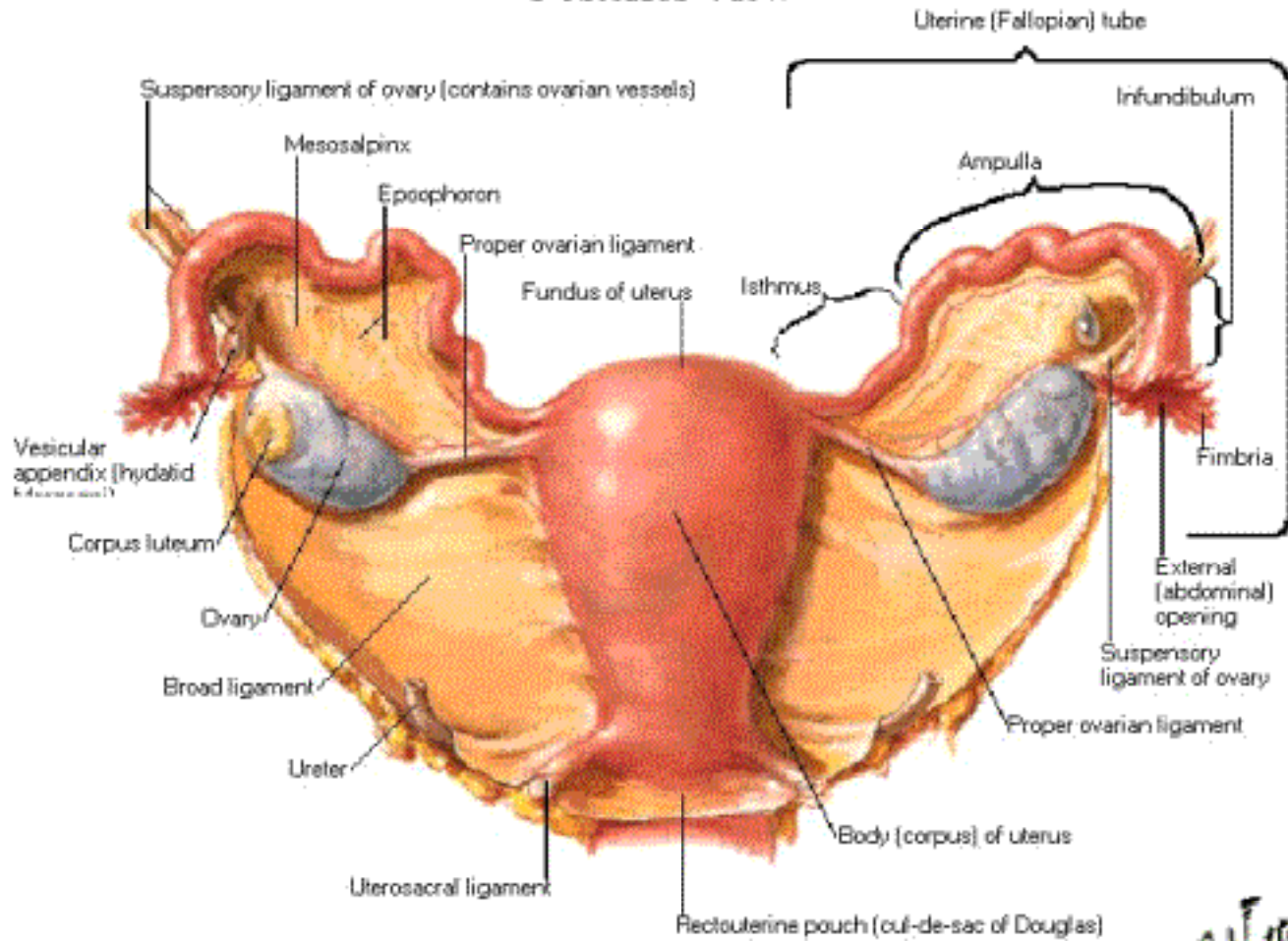


# Uterus, Vagina and Supporting Structures



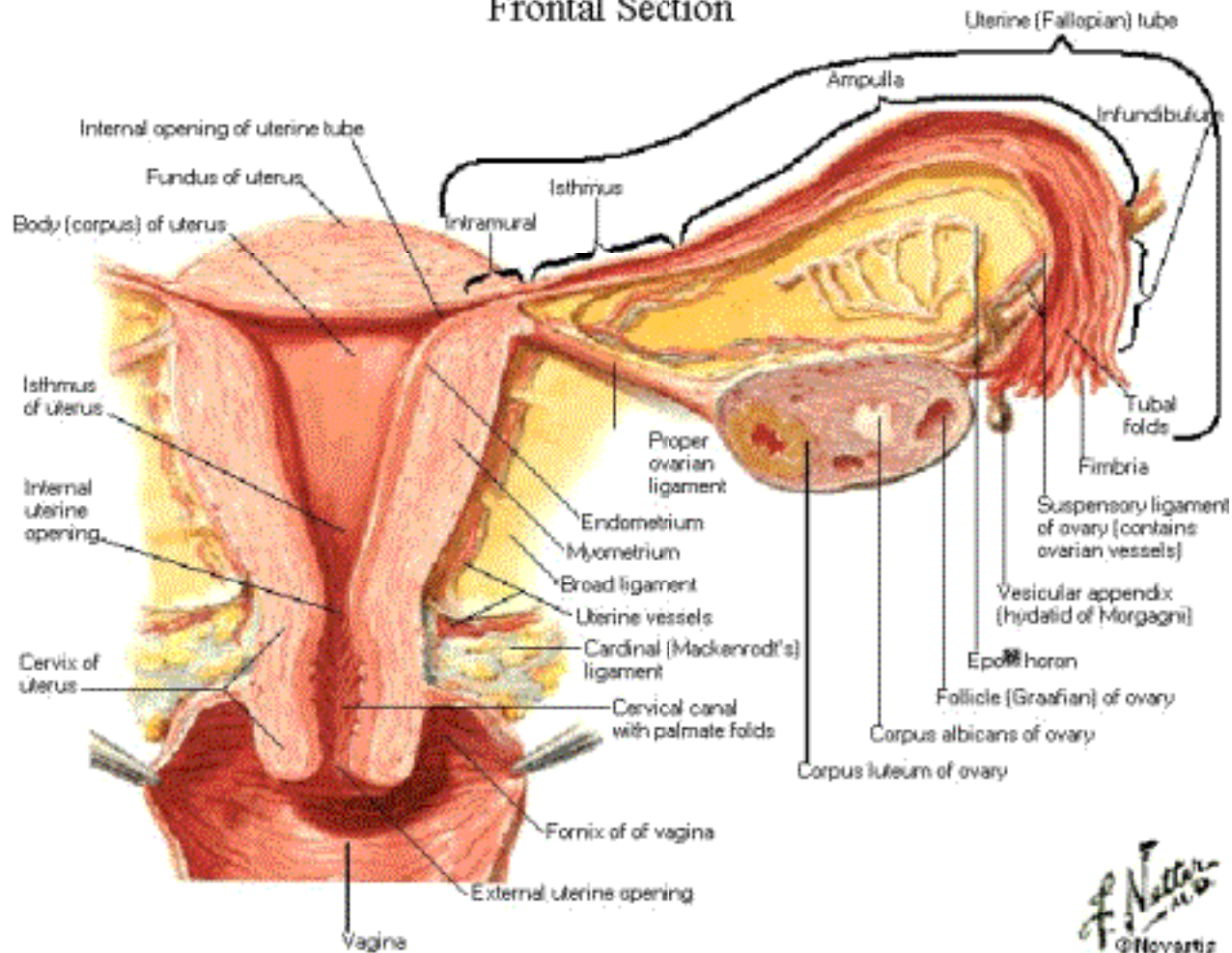
# Uterus and Adnexa

## Posterior View



# Uterus and Adnexa

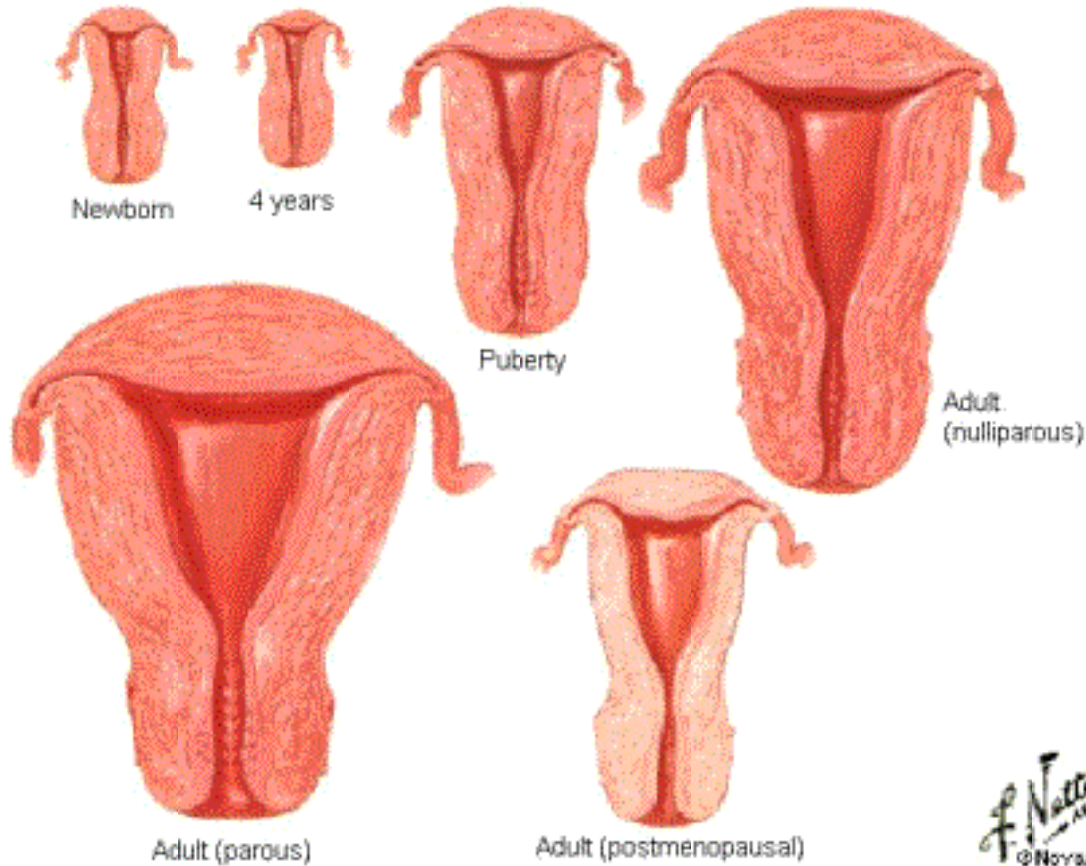
## Frontal Section





# Uterus

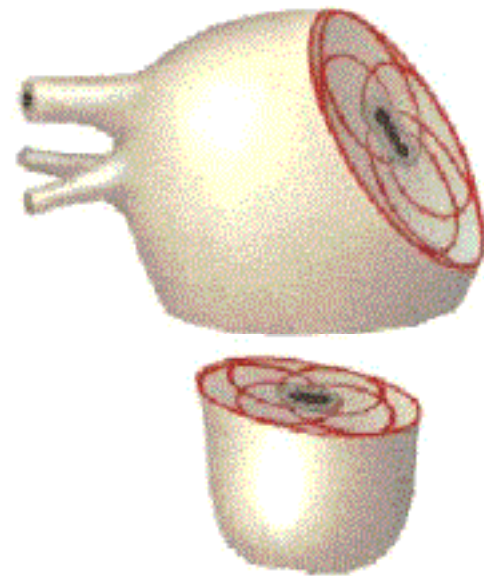
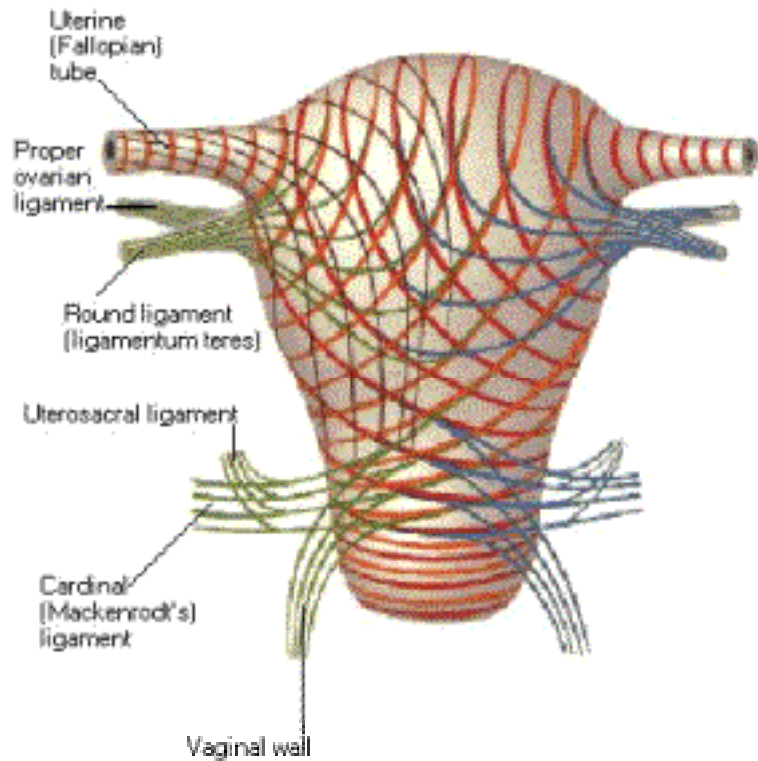
## Changes with Age



*F. Natta*  
© Novus

# Uterus

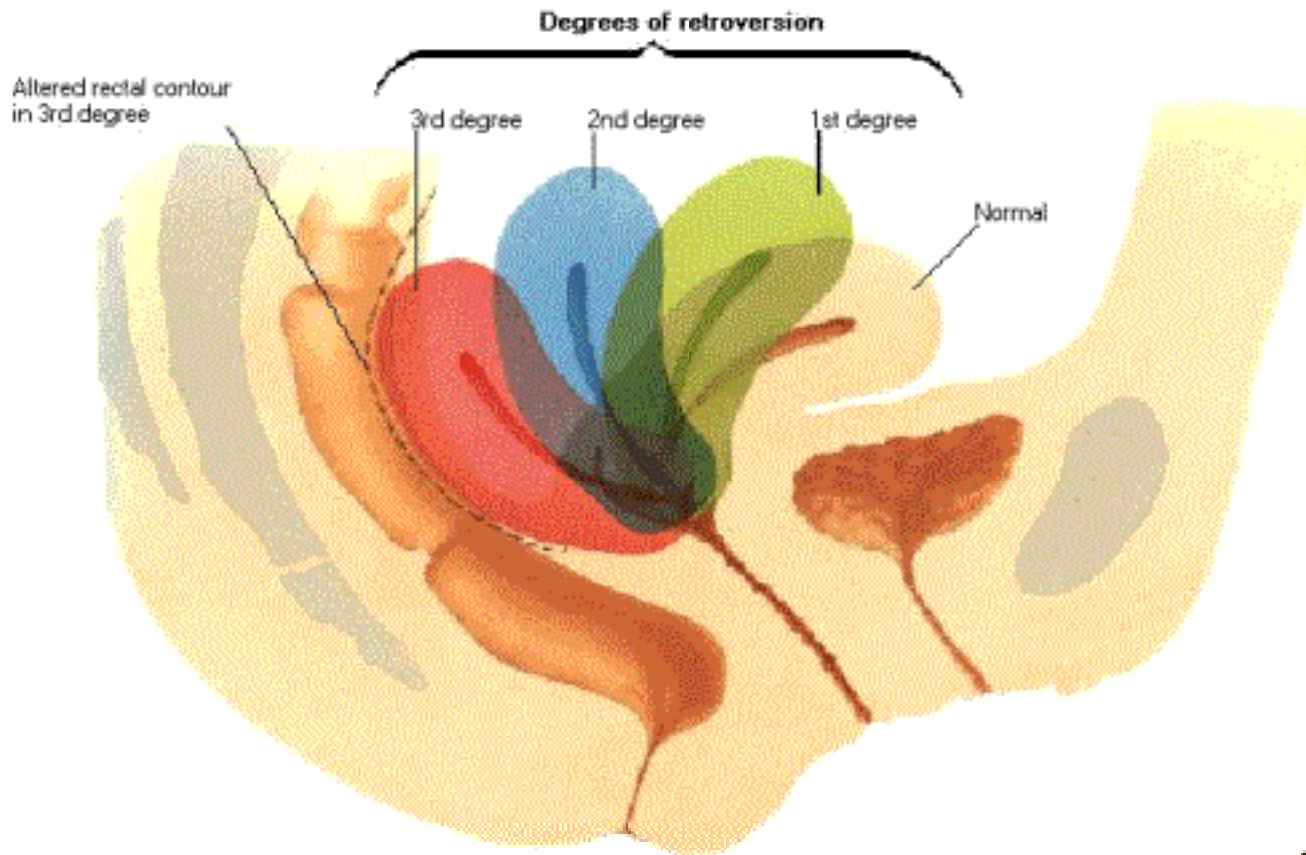
## Schema of Musculature



Spiral fibers pass deeply into wall and interface (schema)

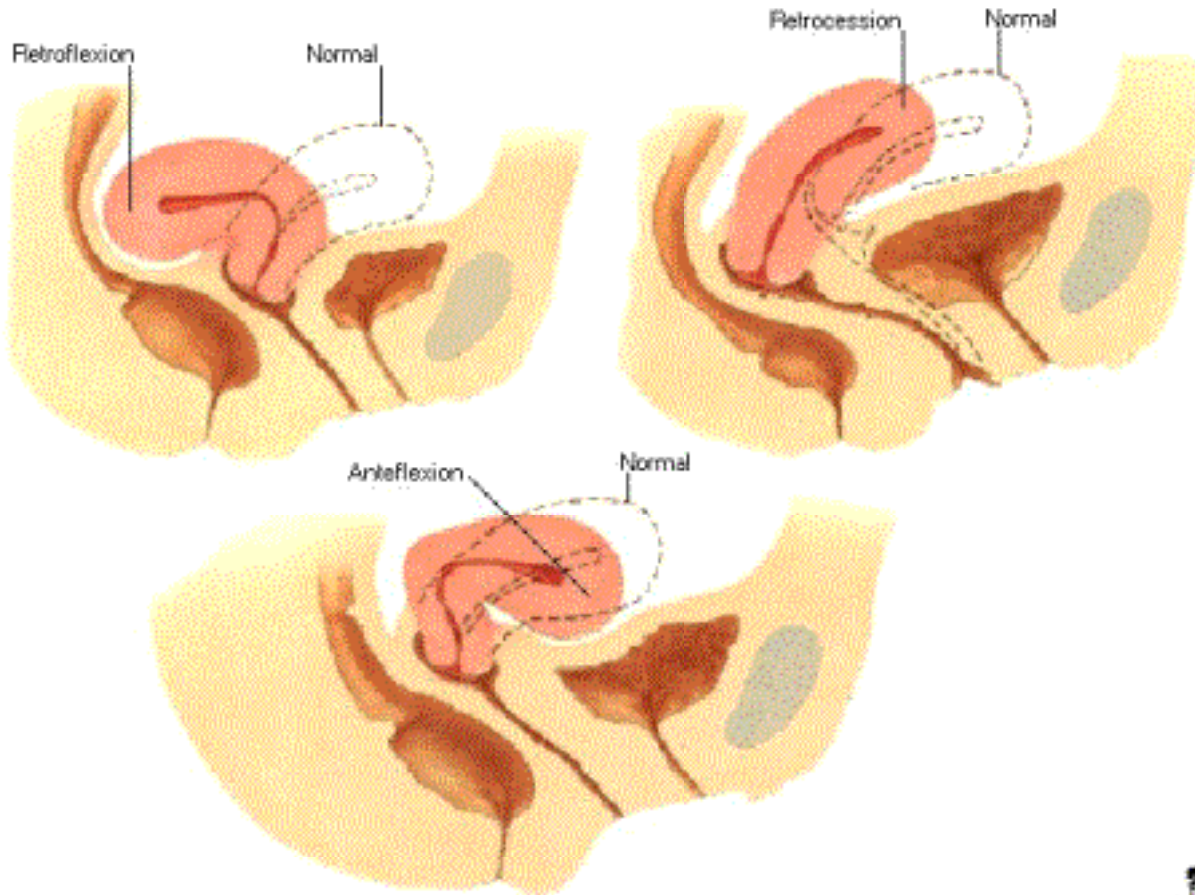
# Uterus

## Variations in Position



# Uterus [Continued]

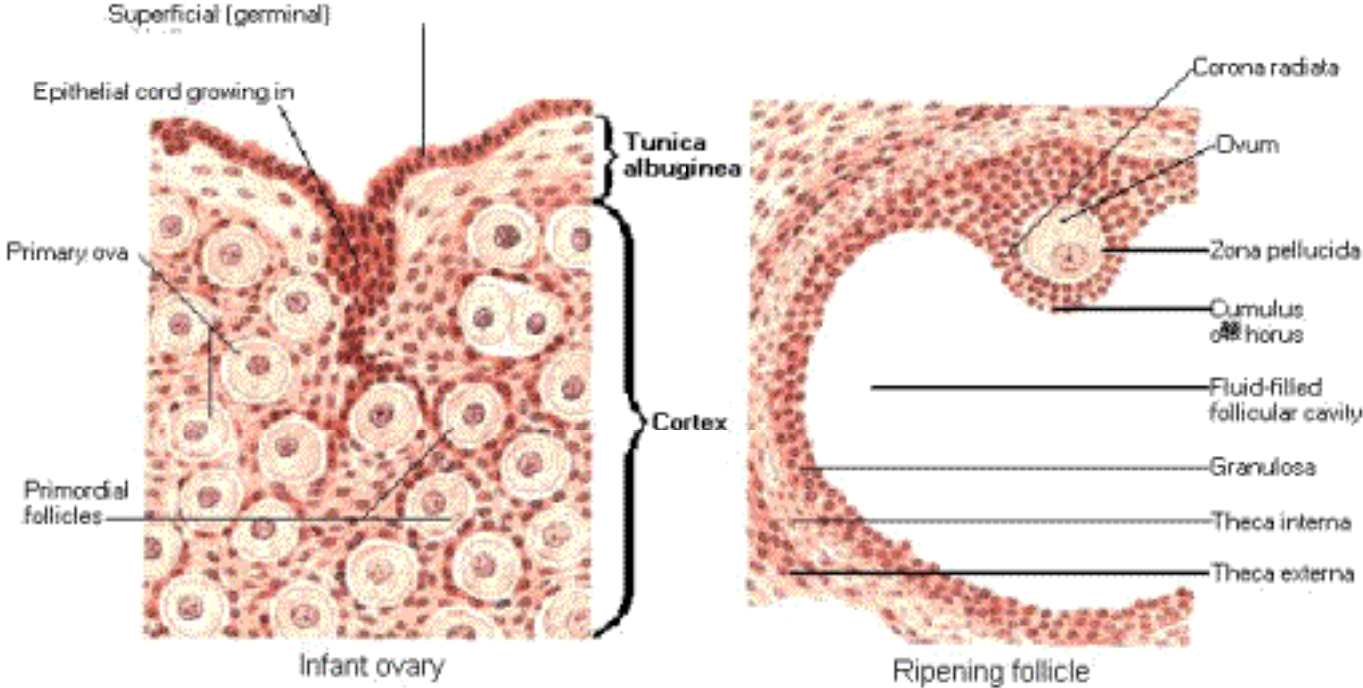
## Variations in Position



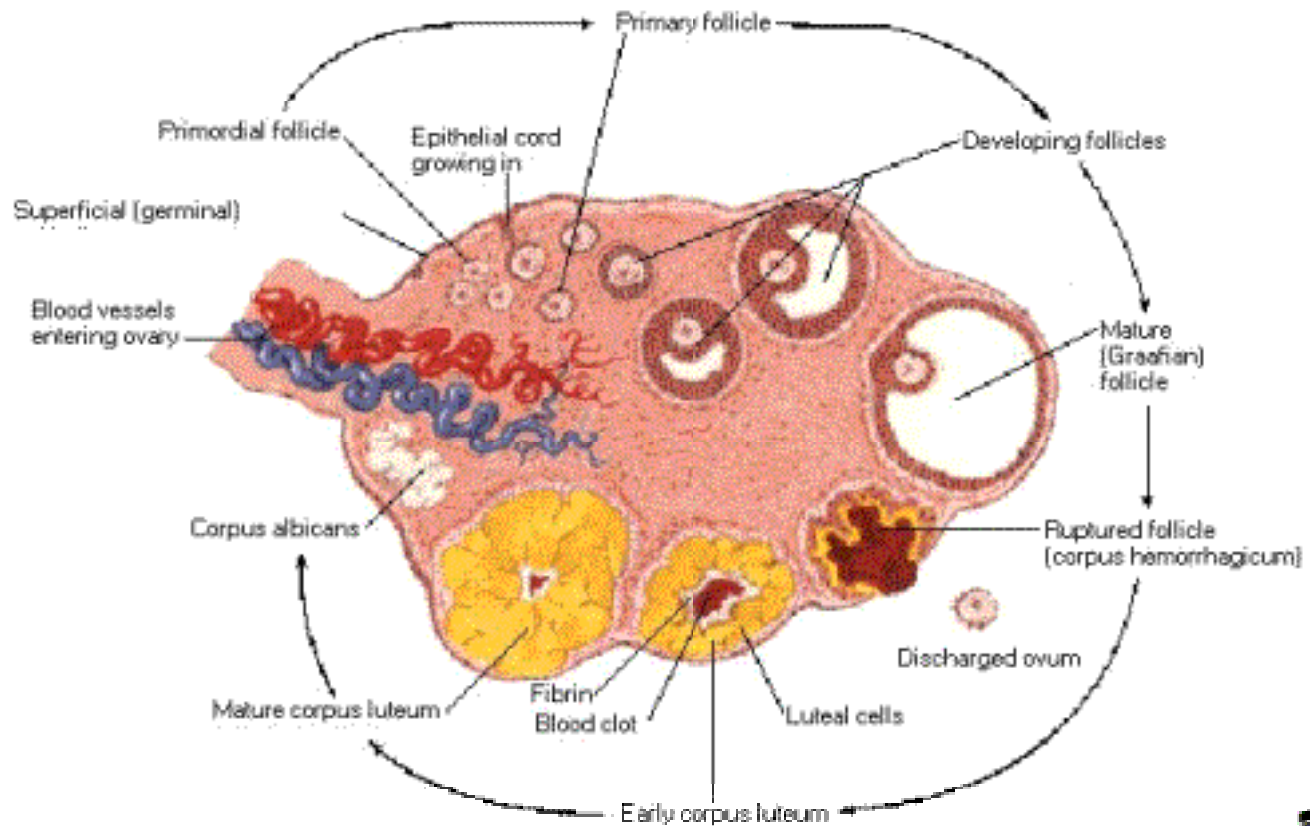


# Infant Ovary and Ripening Follicle

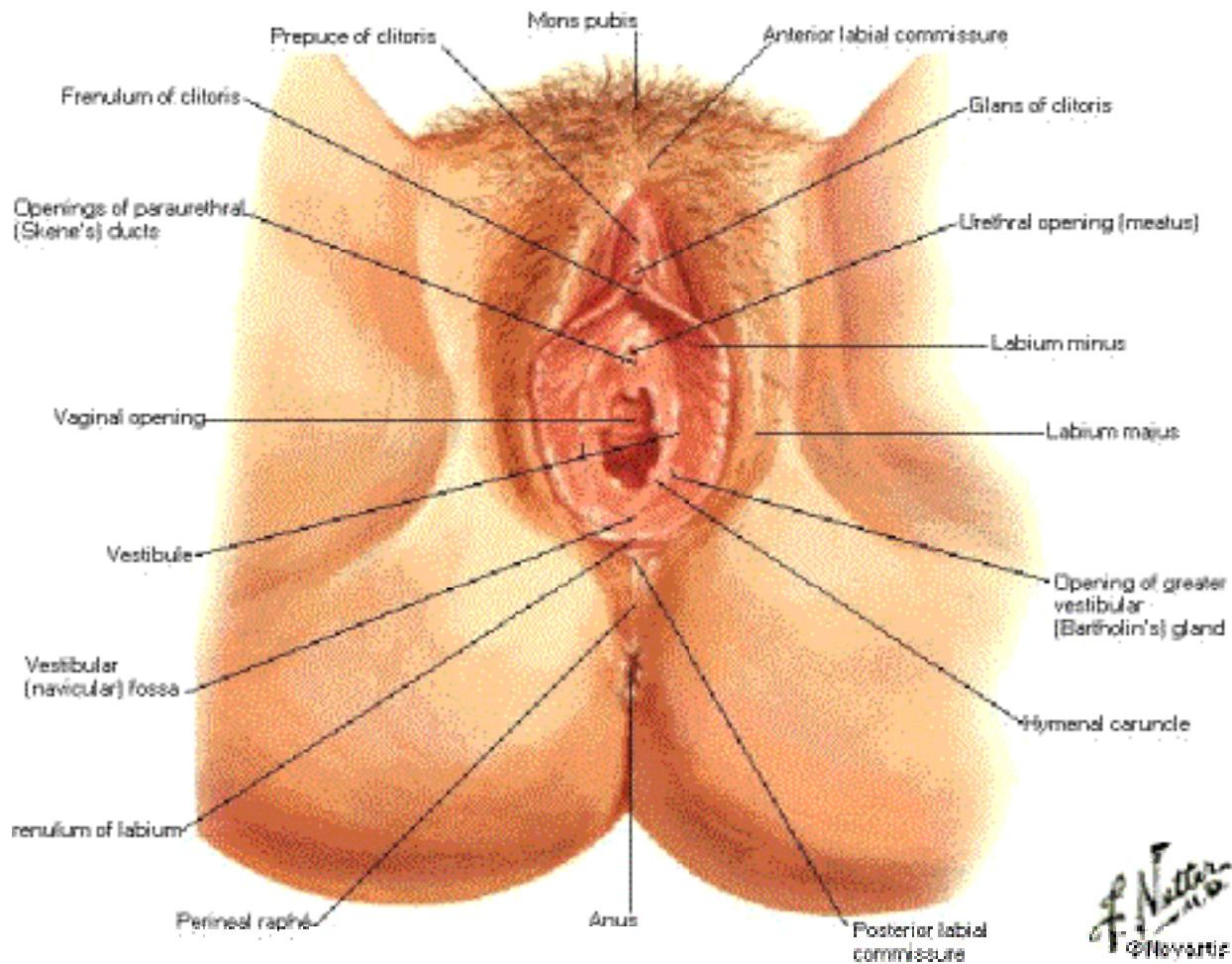
## Histology



# Stages of Ovum and Follicle



# Perineum and External Genitalia of Female



## Perineum and External Genitalia of Female [Continued]



Annular hymen



Septate hymen



Cribriform hymen

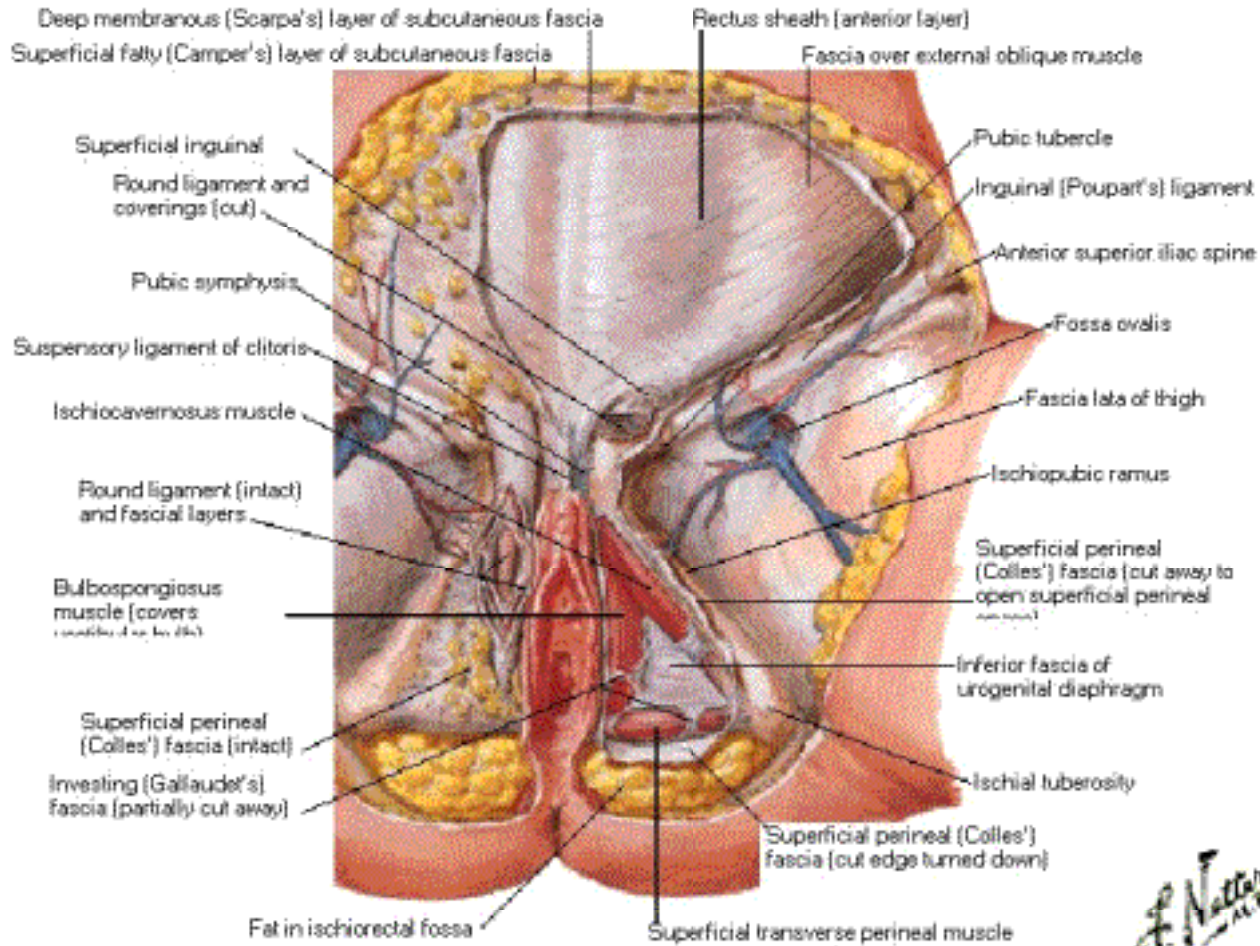


Parous introitus



# Perineum of Female

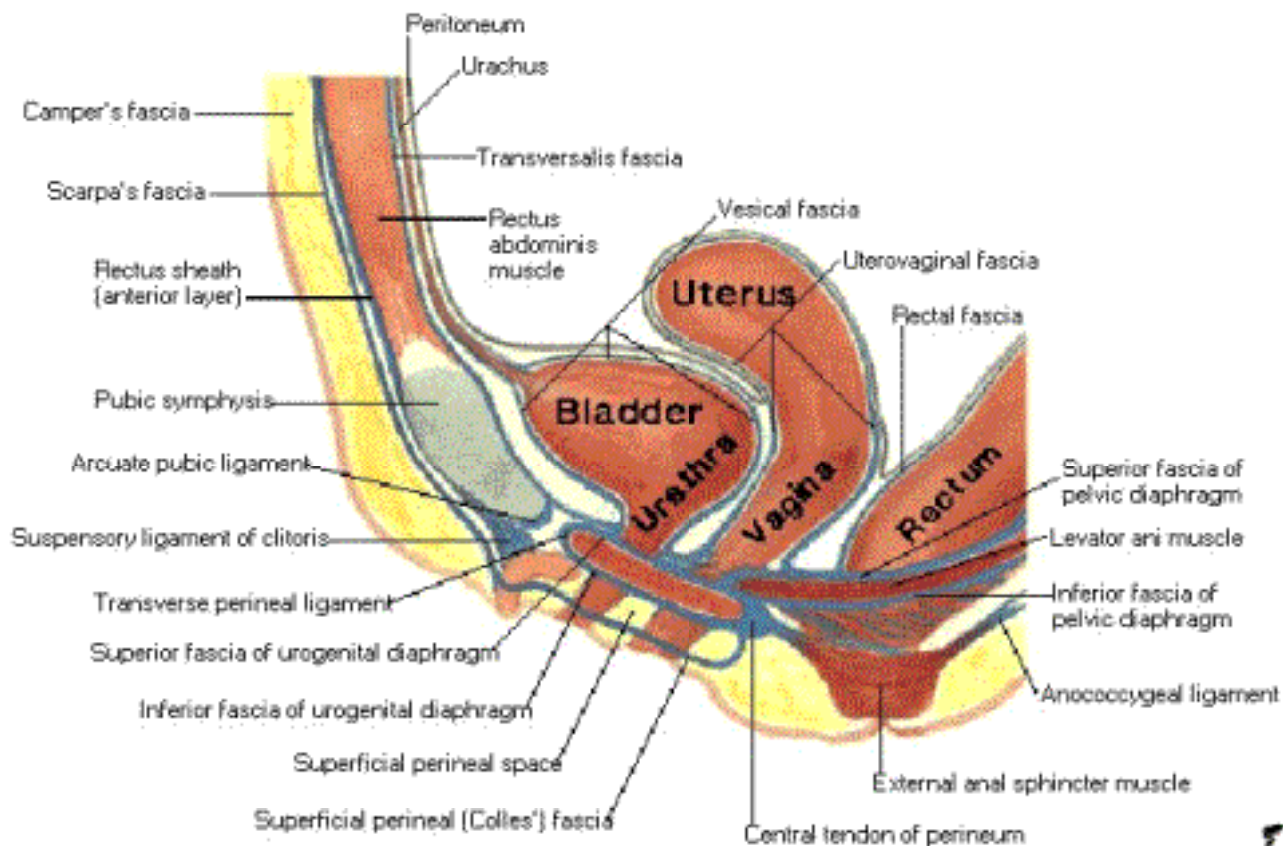
## Superficial Dissection



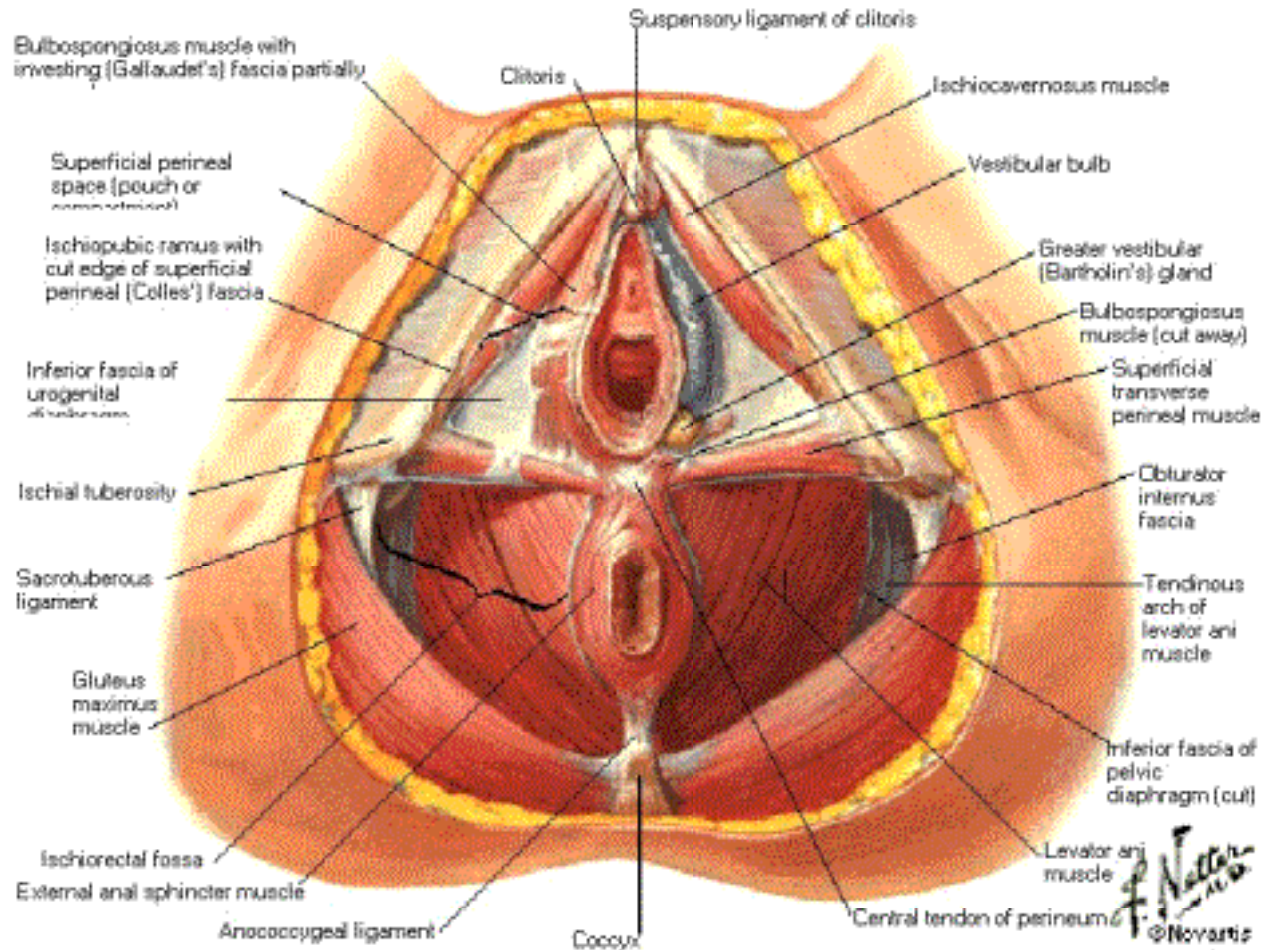
*F. Netter M.D.*

# Perineum of Female

## Midsagittal Section

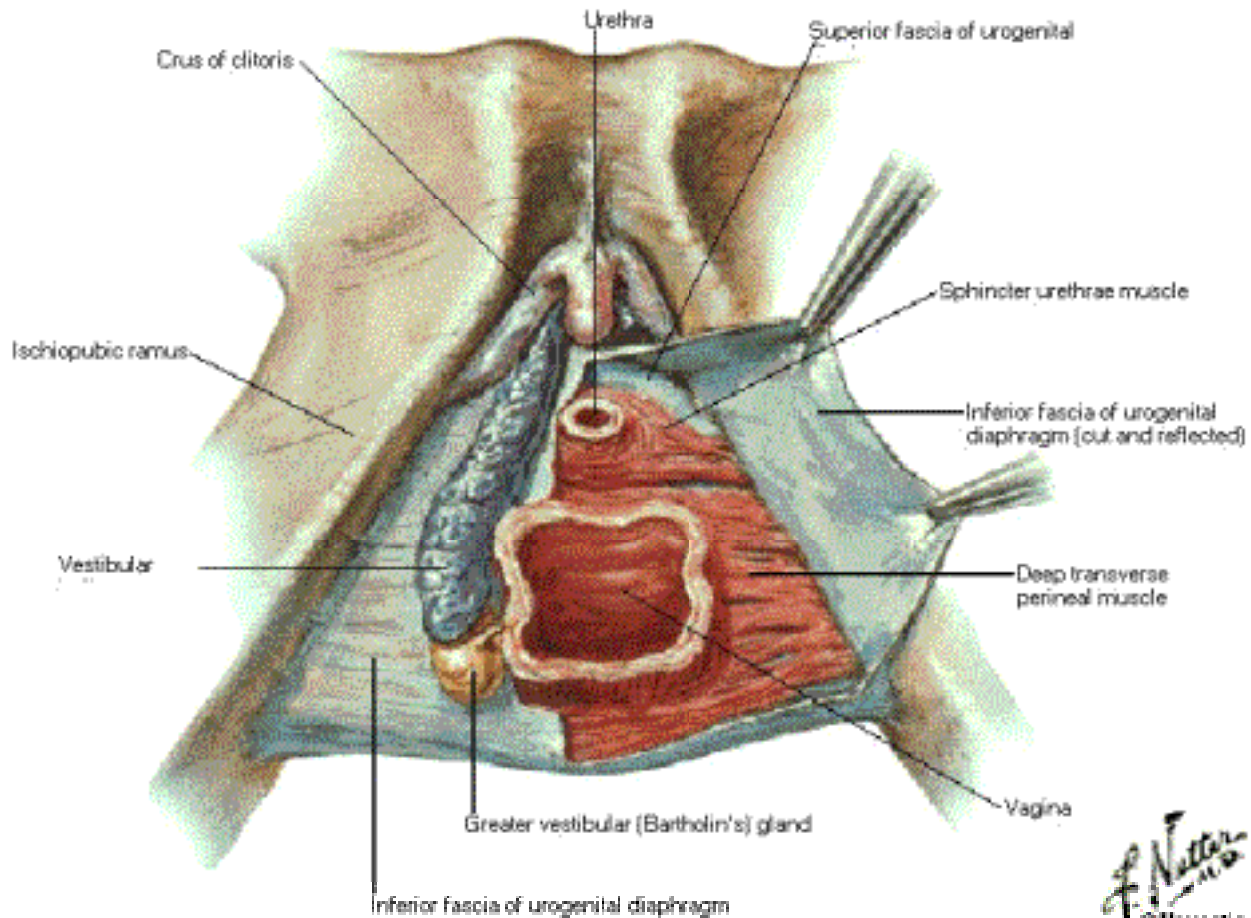


# Perineum and Urogenital Diaphragm of Female



# Perineum and Urogenital Diaphragm of Female

## Deep Dissection

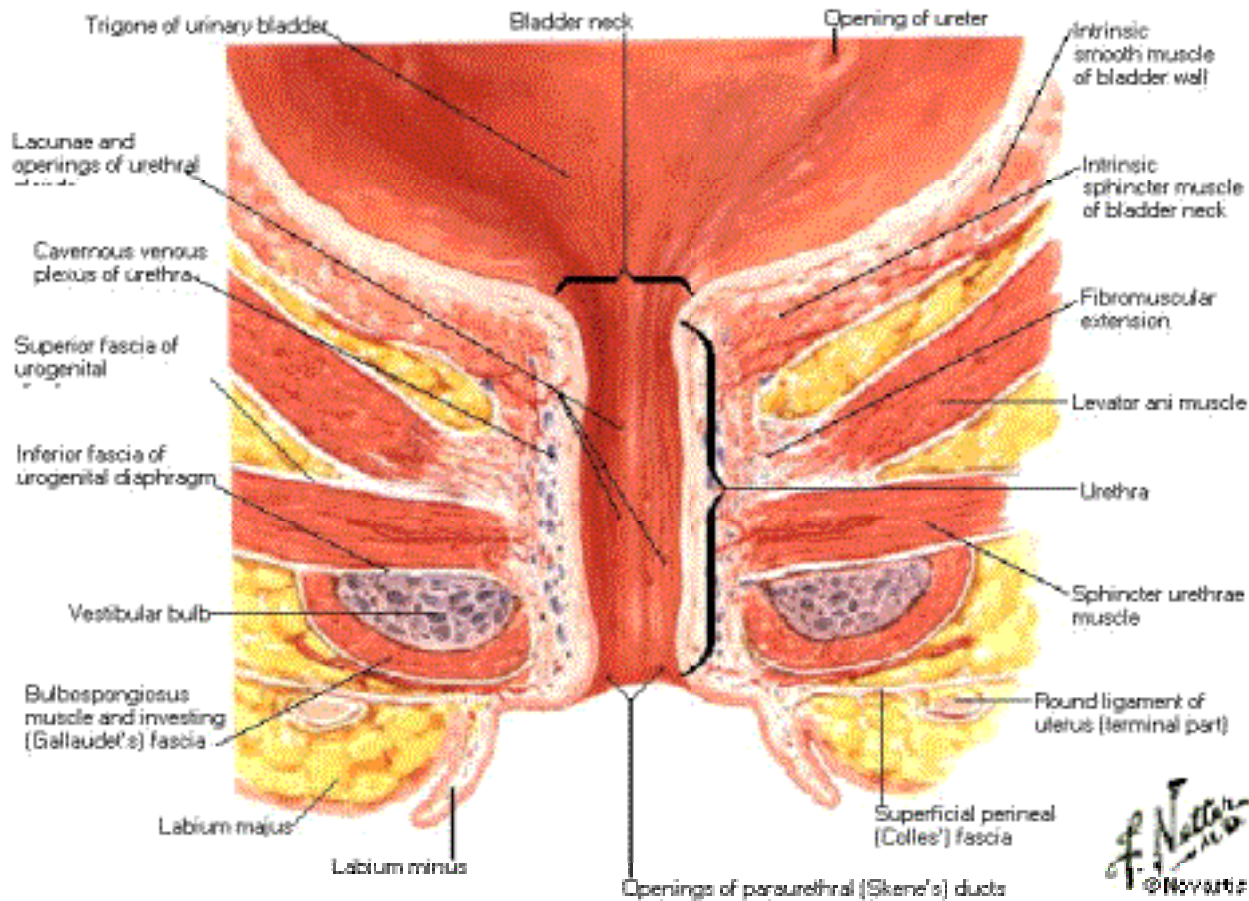


*F. Netter*  
M.D.



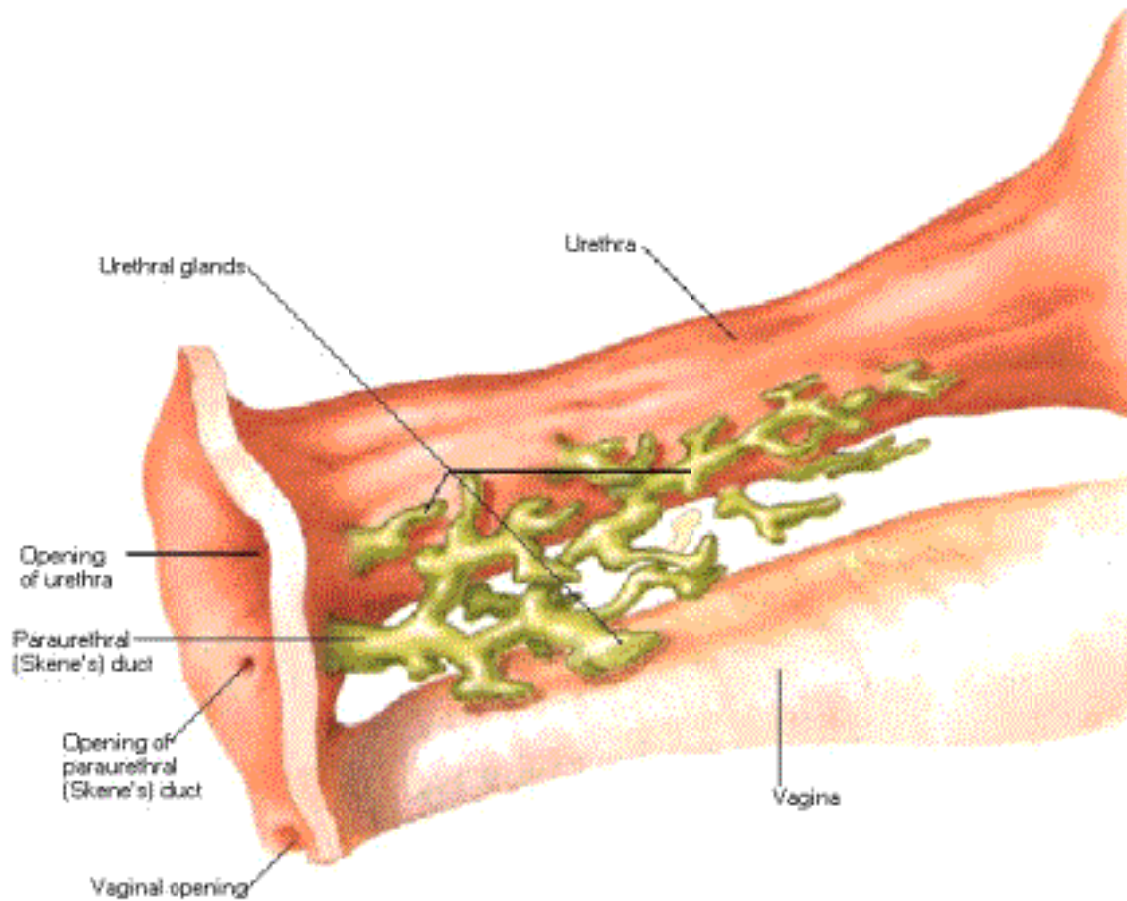
# Urethra of Female

## Frontal Section



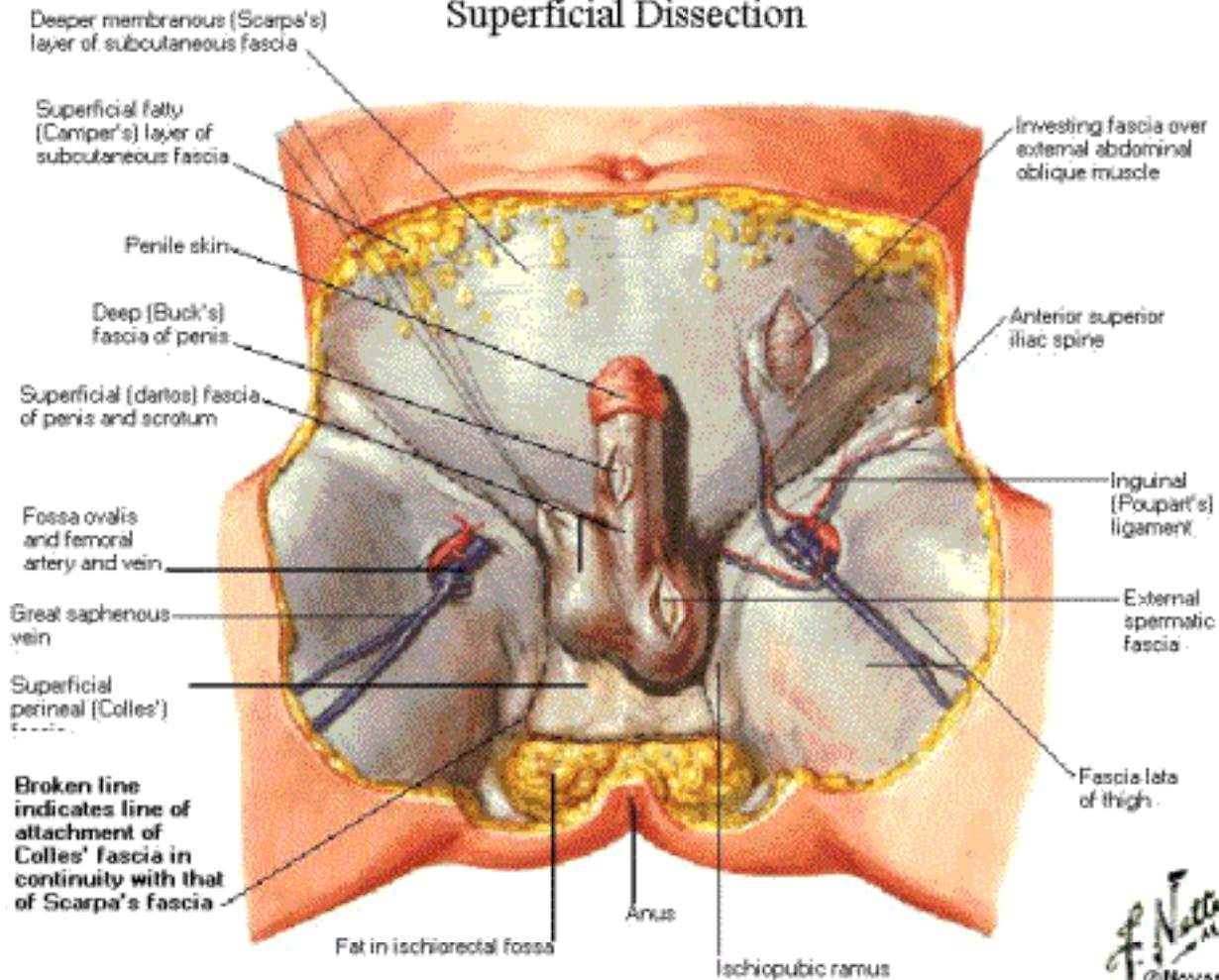
# Urethra of Female

## Schematic Reconstruction



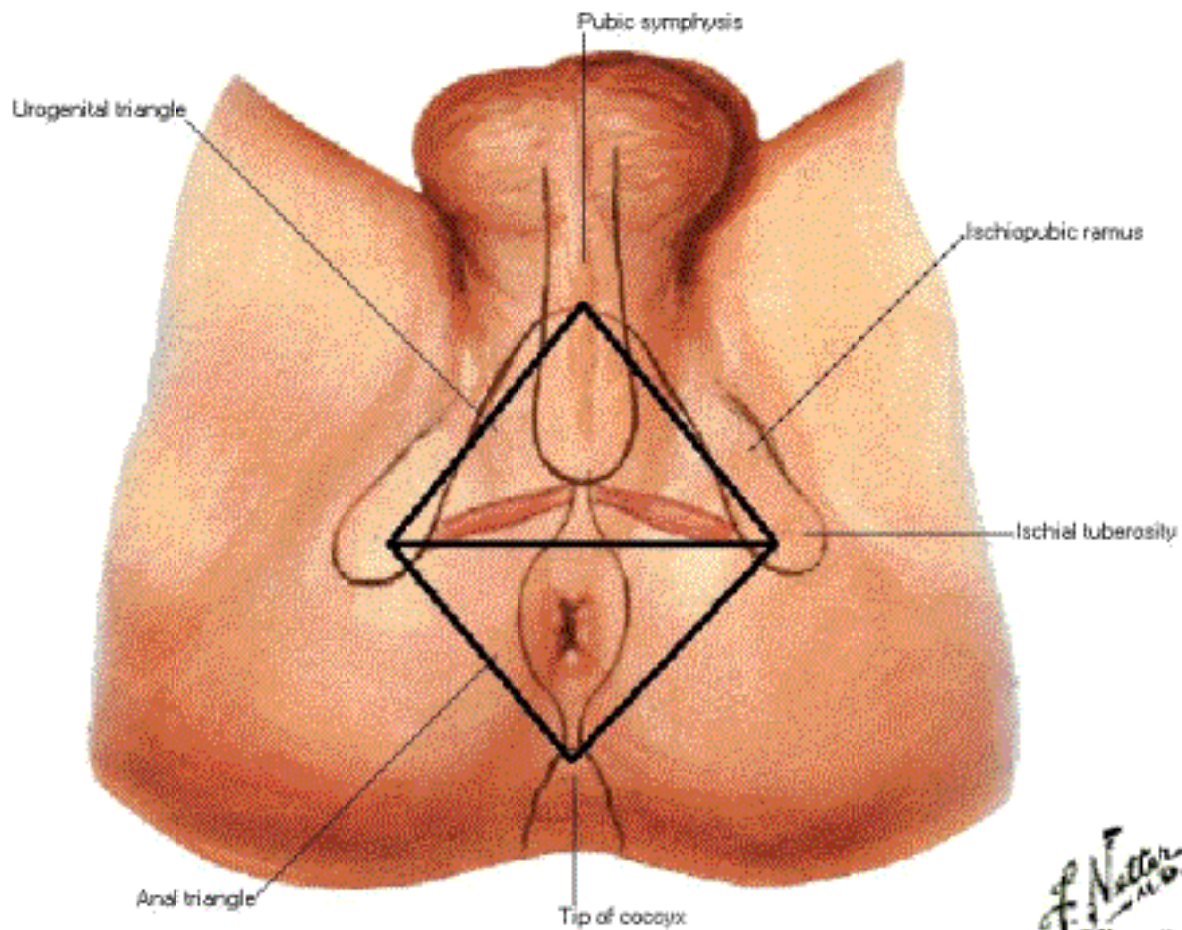
# Perineum and External Genitalia of Male

## Superficial Dissection



# Perineum of Male

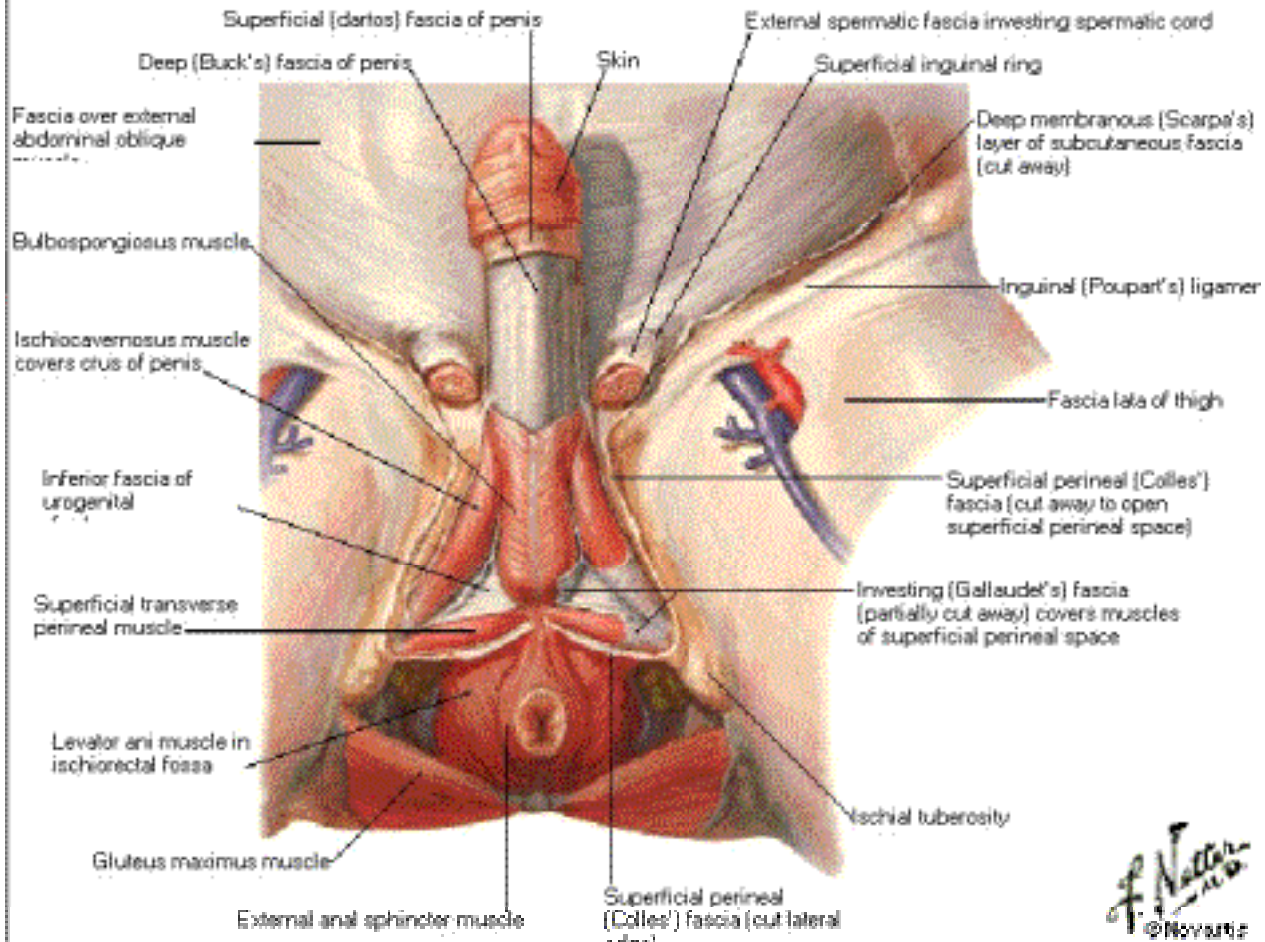
## Regions [Triangles] and Surface Topography



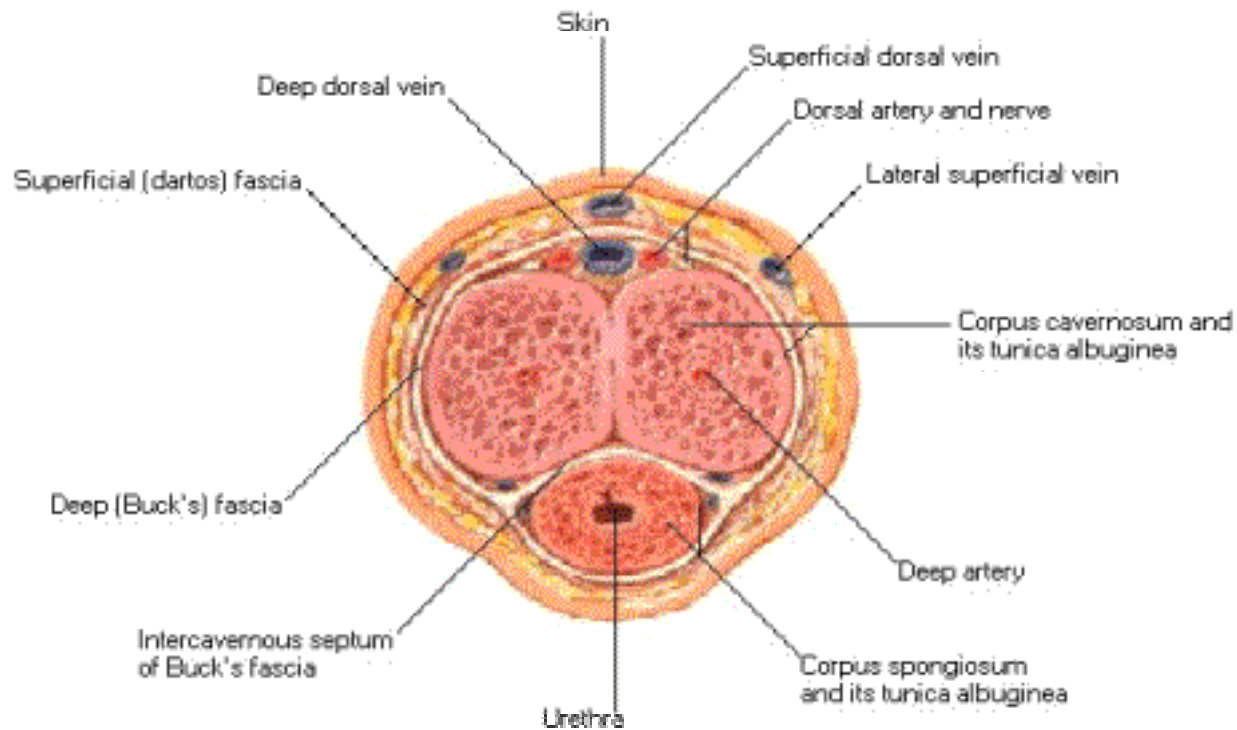


# Perineum and External Genitalia of Male

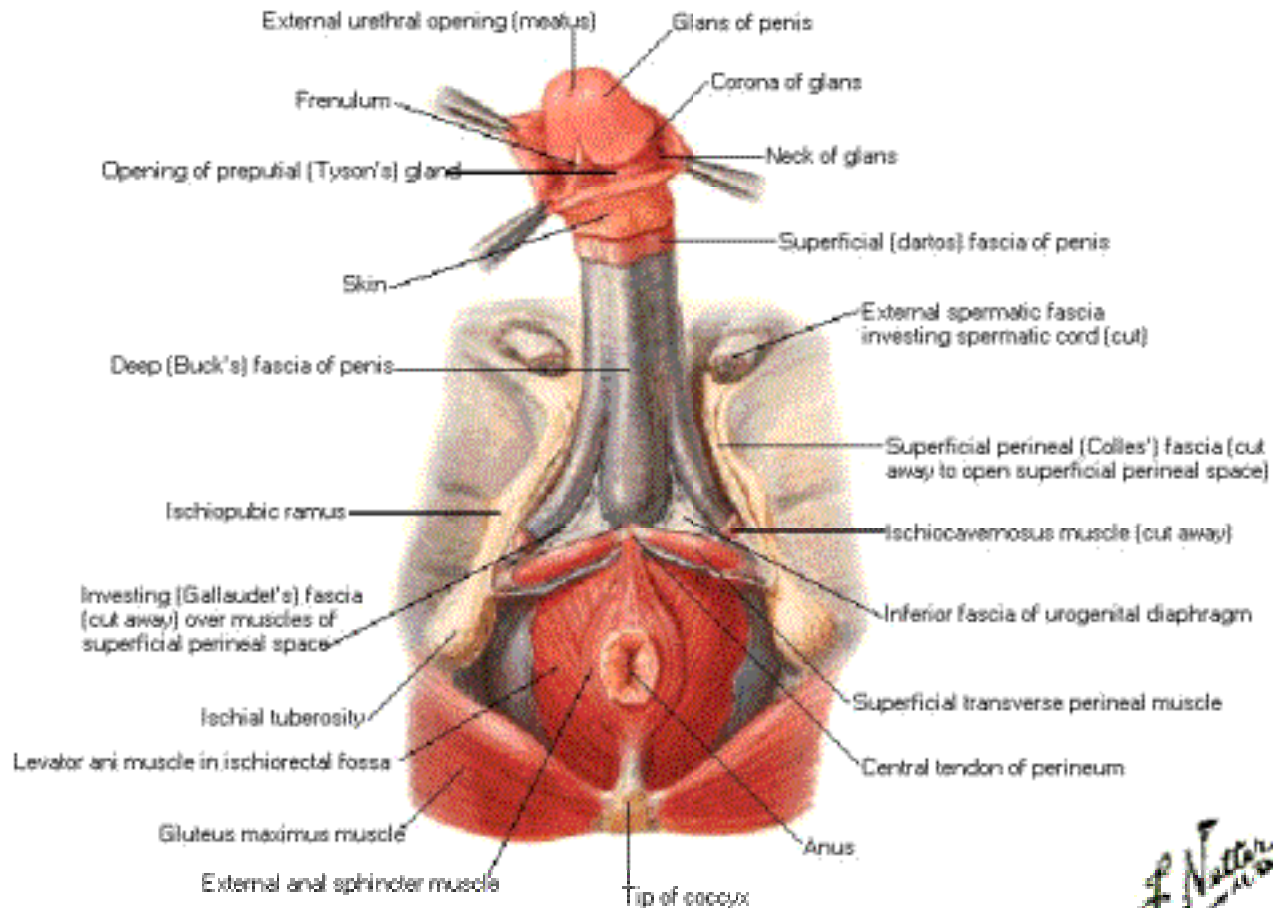
## Deep Dissection



## Section through Body of Penis

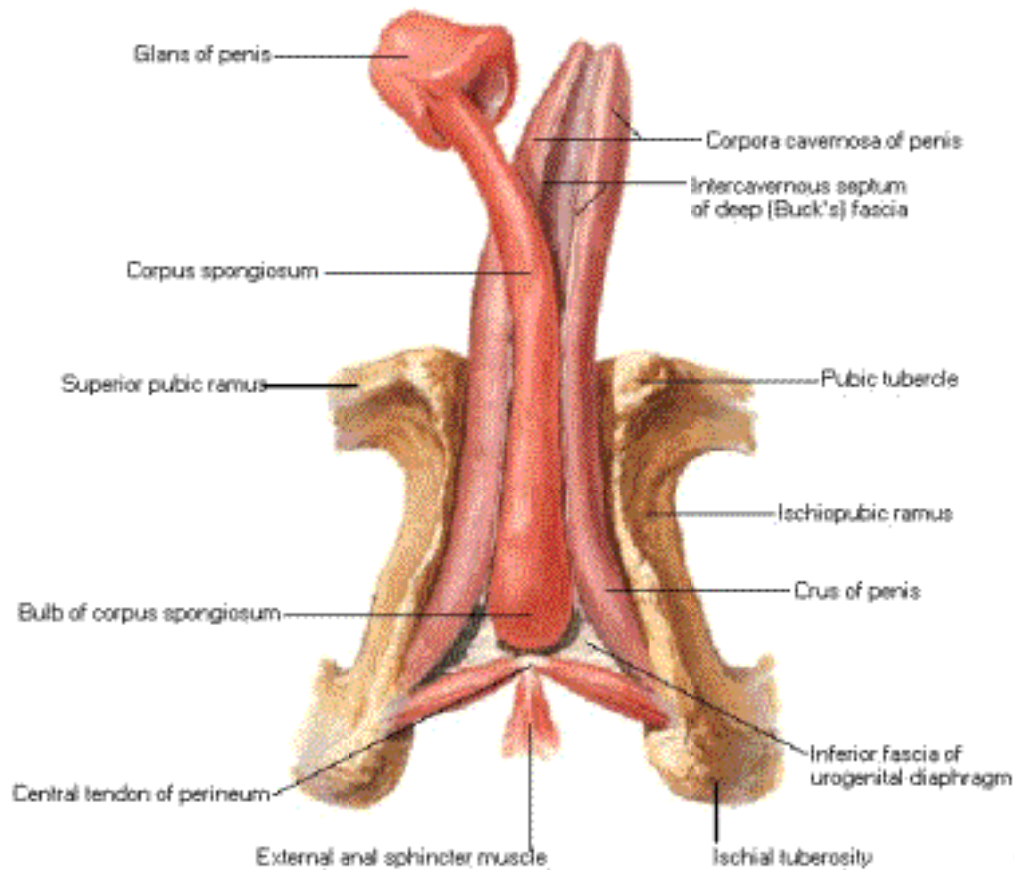


# Penis



*A. Netter M.D.*

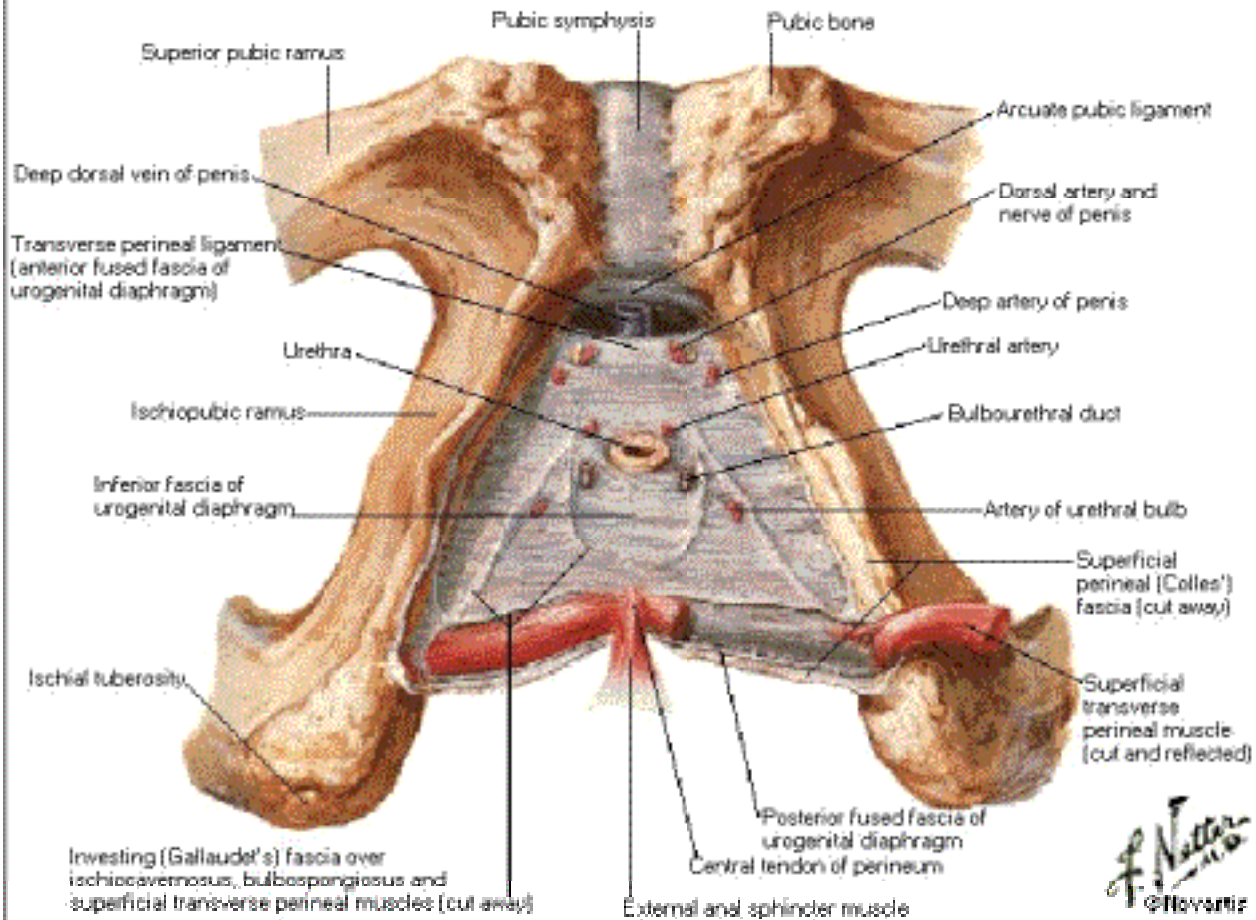
## Penis [Continued]





# Urogenital Diaphragm of Male

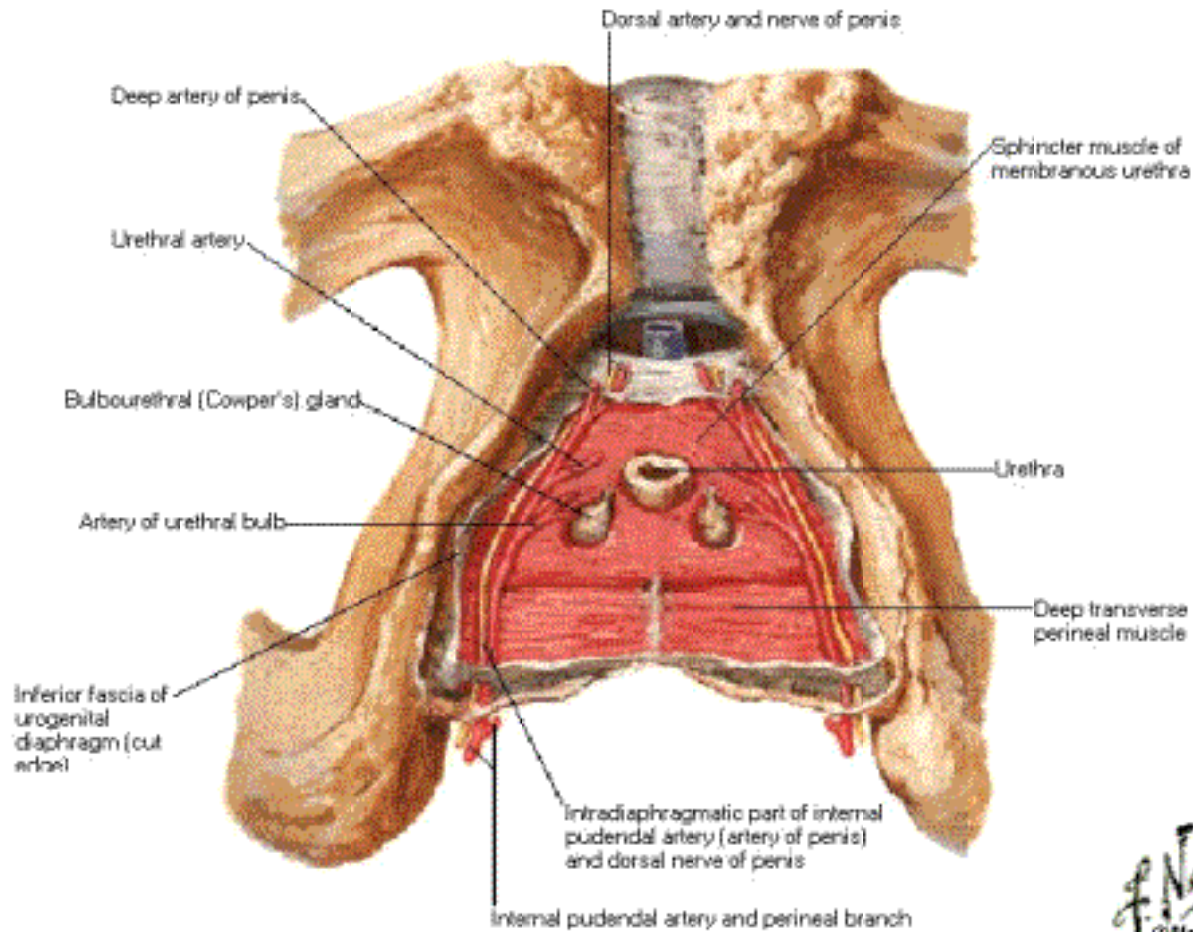
## Dissection



*F. Netter M.D.*  
©Hovavitz

# Urogenital Diaphragm of Male

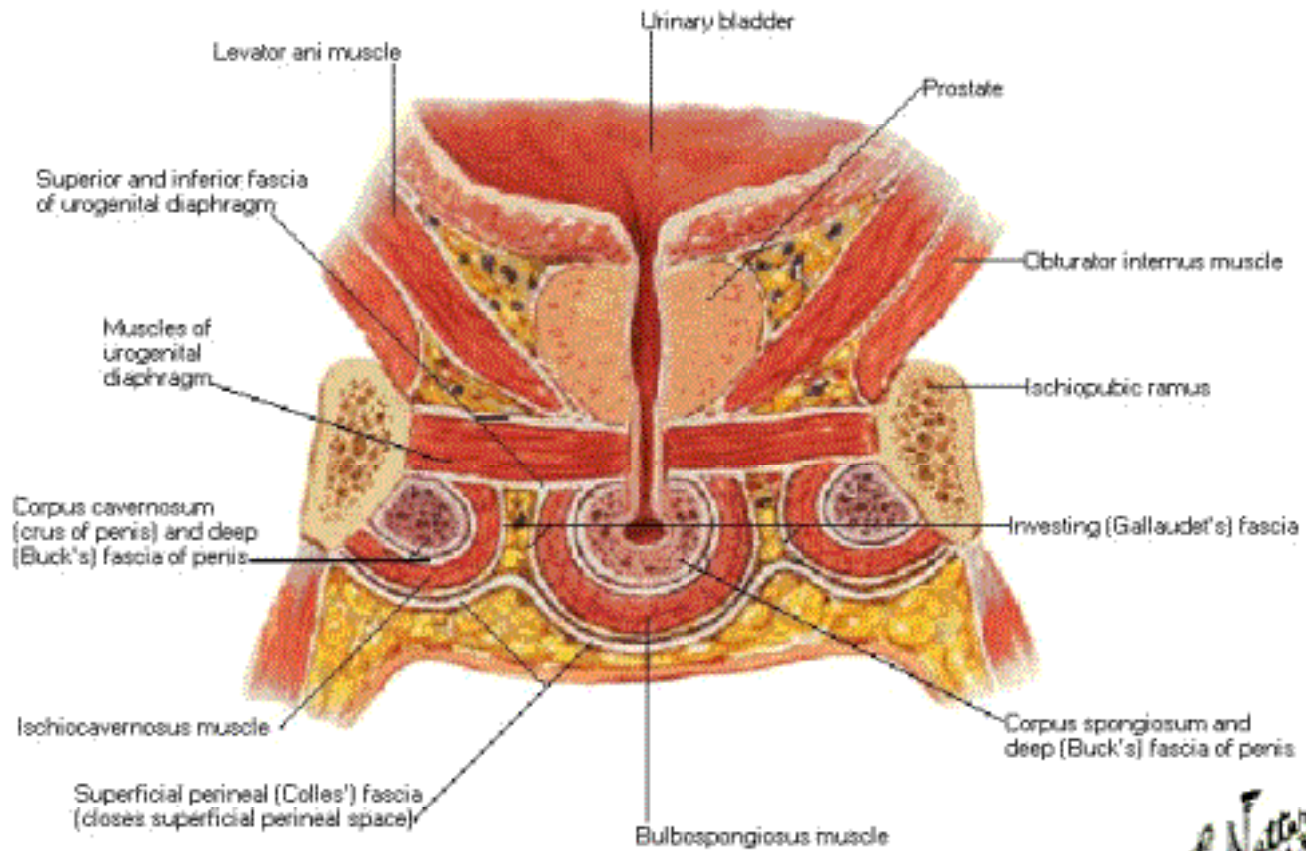
## Deep Dissection



F.N.  
2018

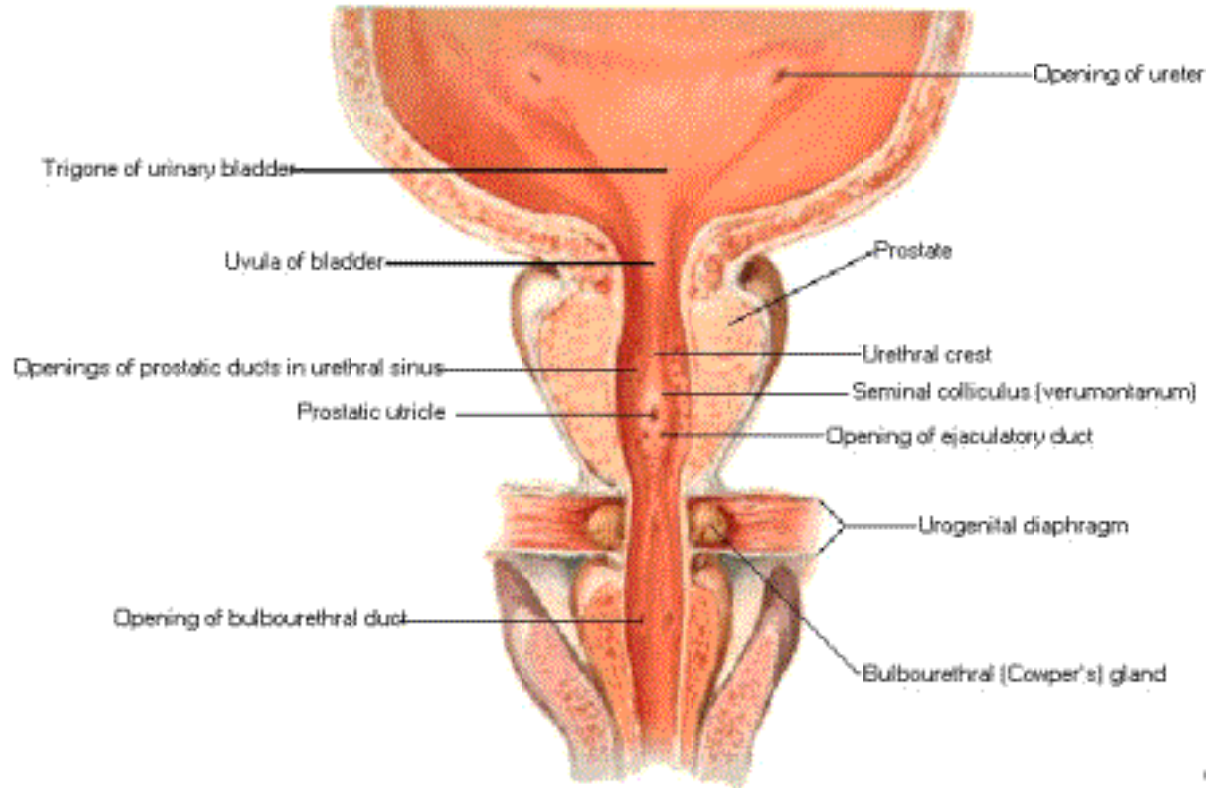
# Urogenital Diaphragm of Male

## Frontal Section - Schema



# Prostate and Seminal Vesicles

## Frontal Section



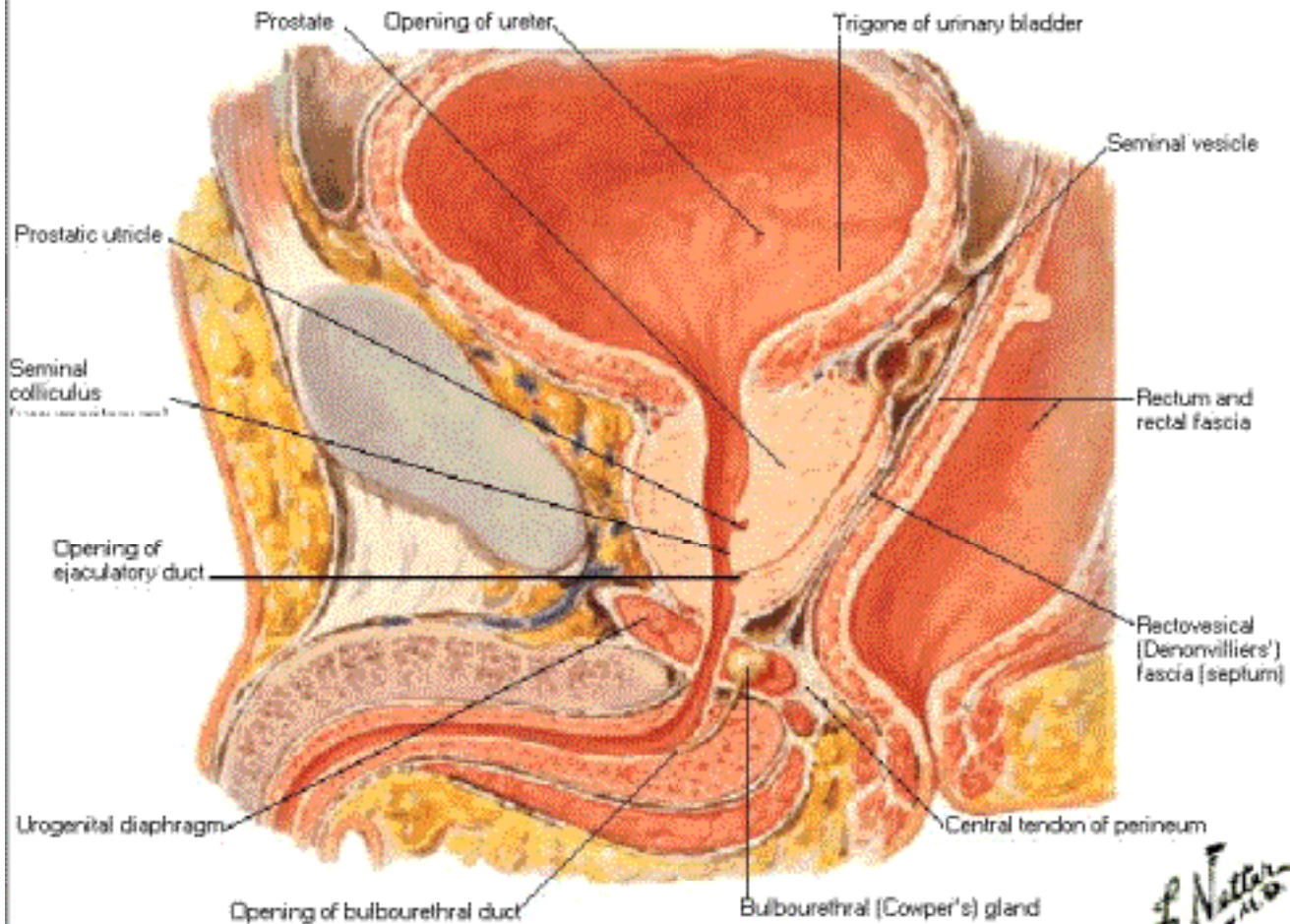
Urethral bulb schematically extended

21



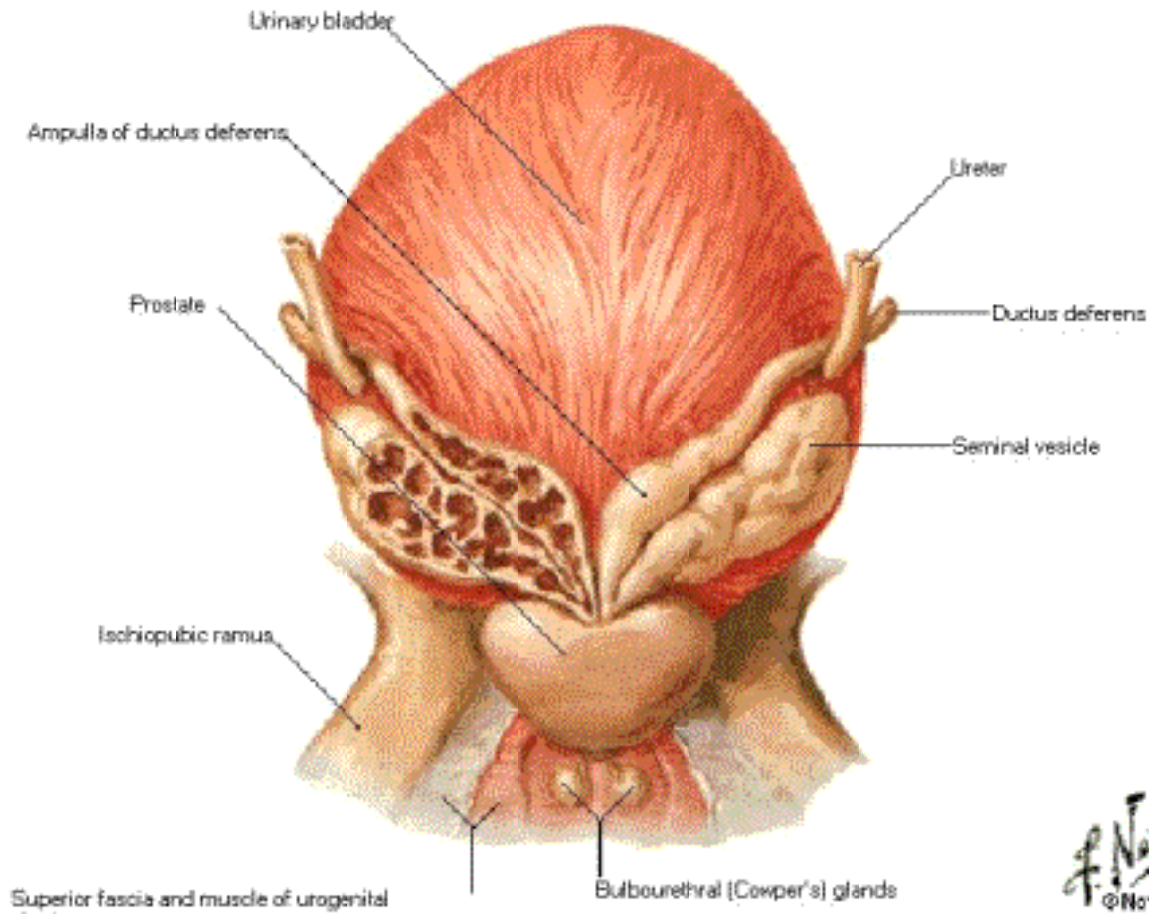
# Prostate and Seminal Vesicles

## Sagittal Section



# Prostate and Seminal Vesicles

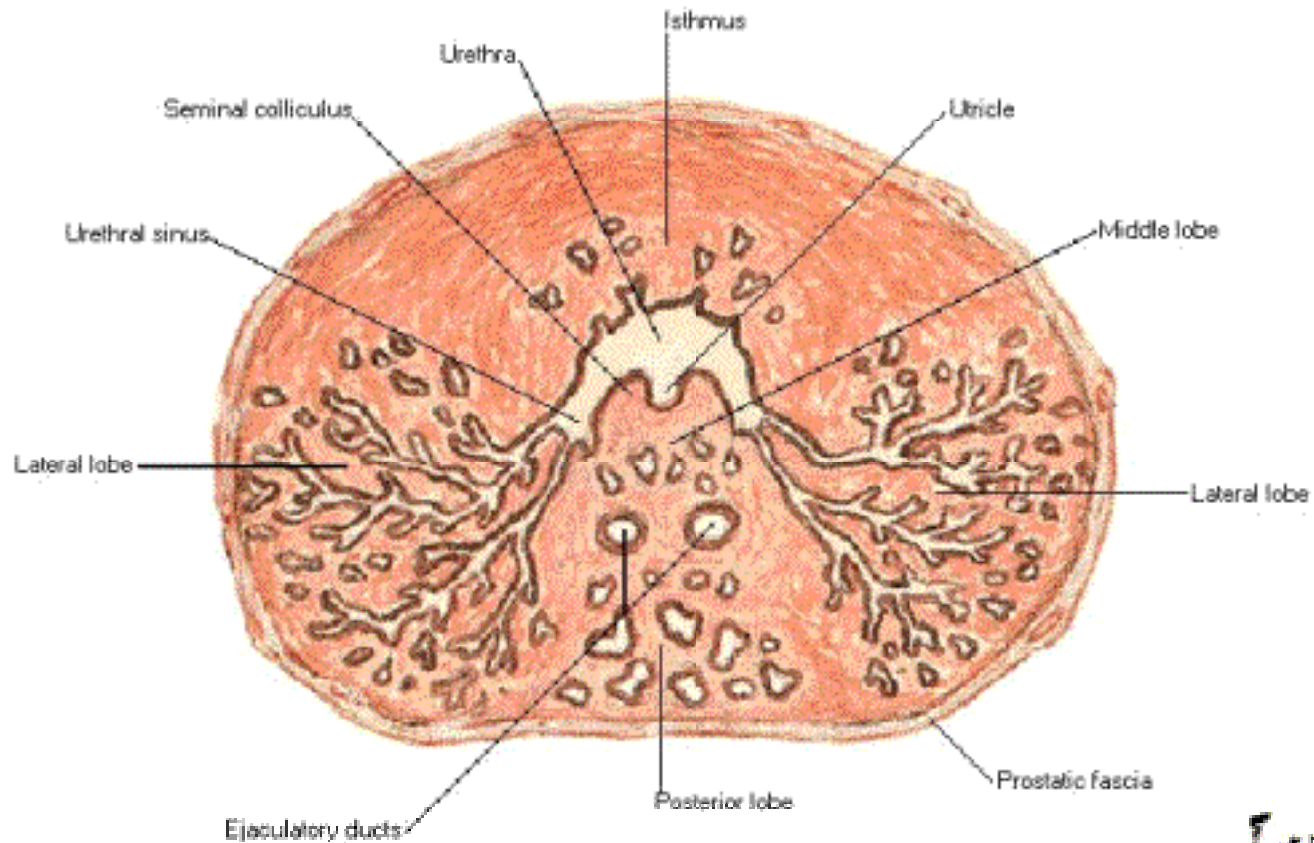
## Posterior View



*f. No.*  
© No.

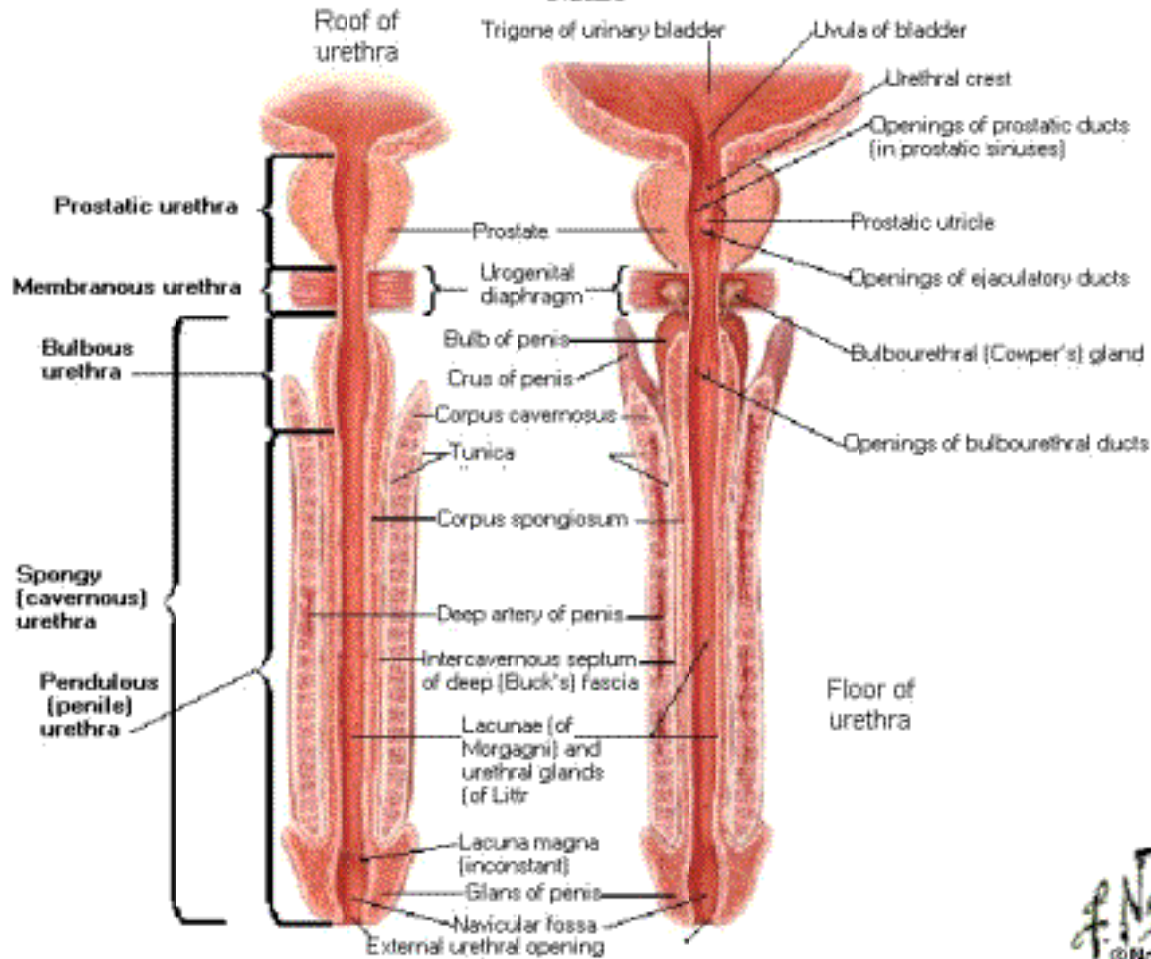
# Prostate and Seminal Vesicles

## Cross Section through Prostate



# Urethra

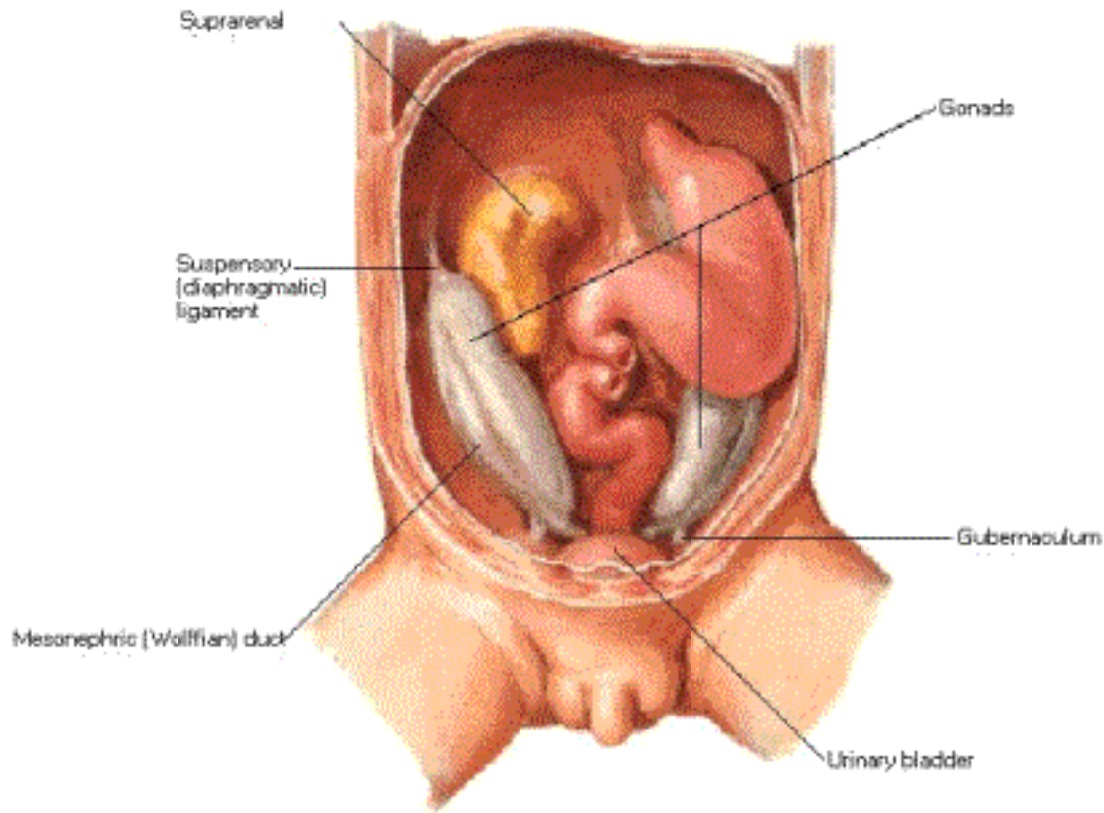
## Male





# Descent of Testis

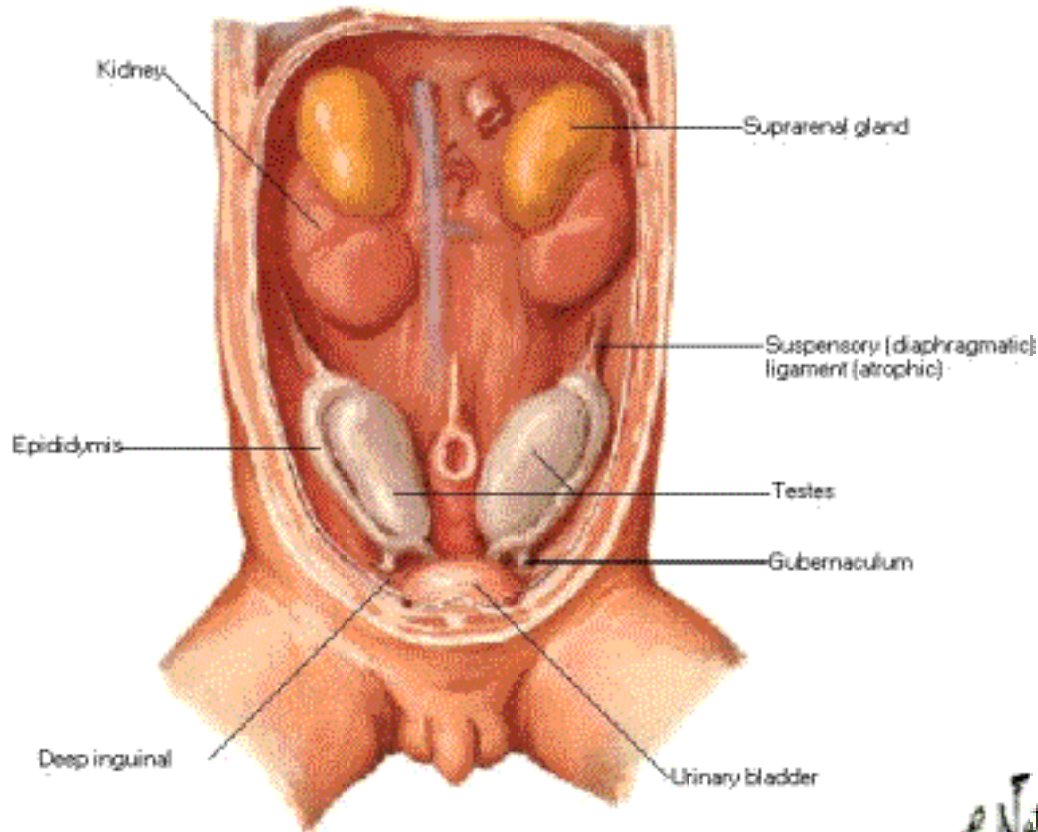
## 8 Weeks



22.5-mm crown rump

# Descent of Testis

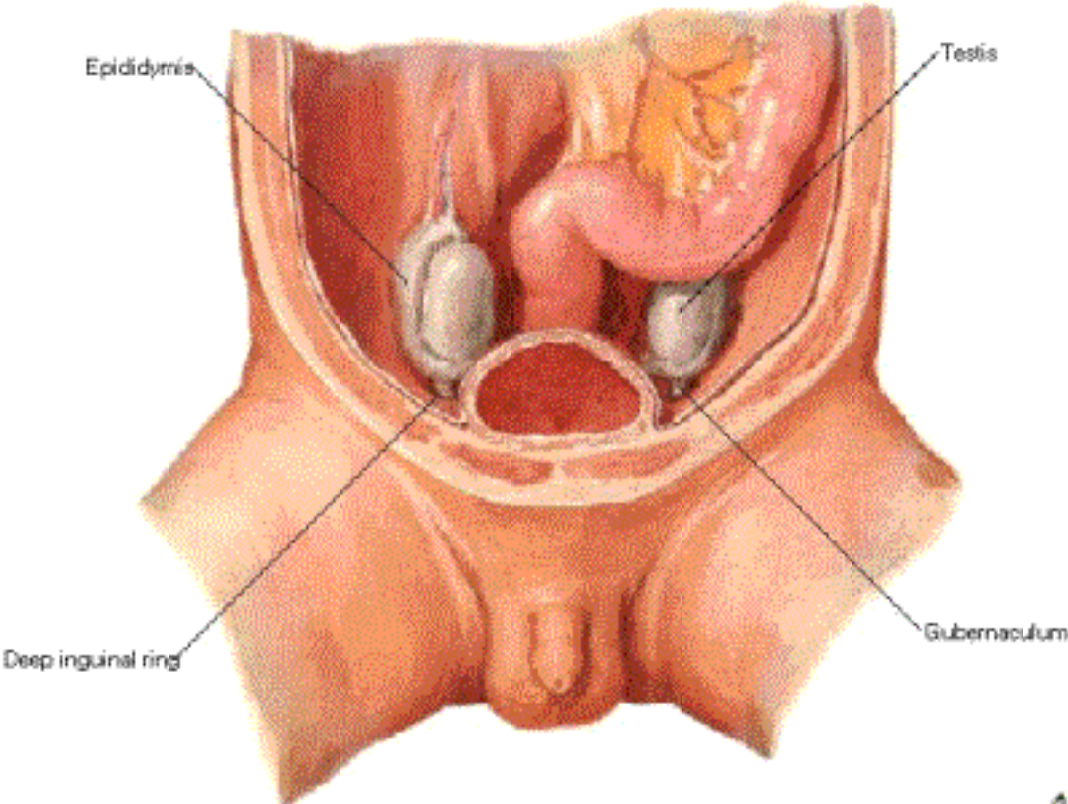
11 Weeks



43-mm crown rump

# Descent of Testis

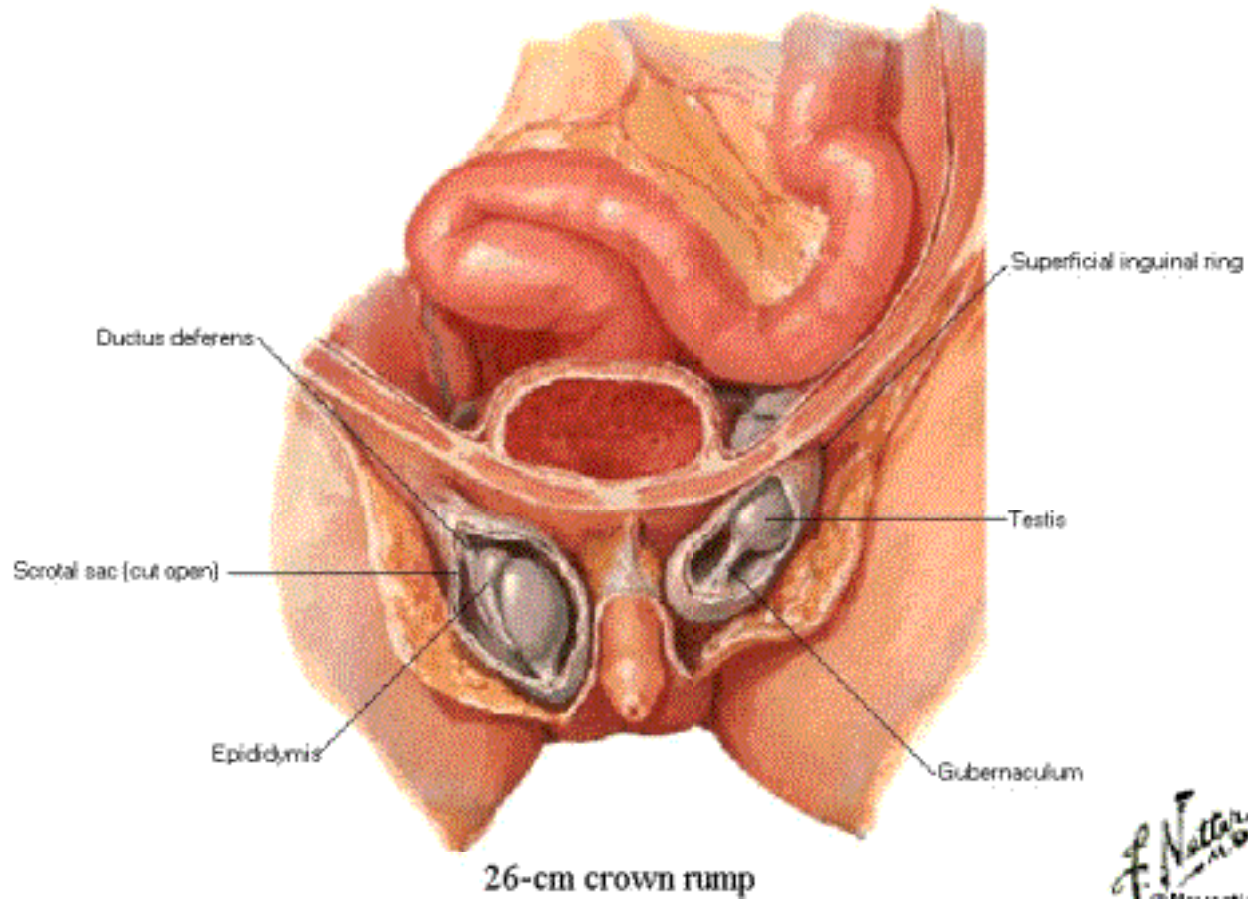
4 Lunar Months



107-mm crown rump

# Descent of Testis

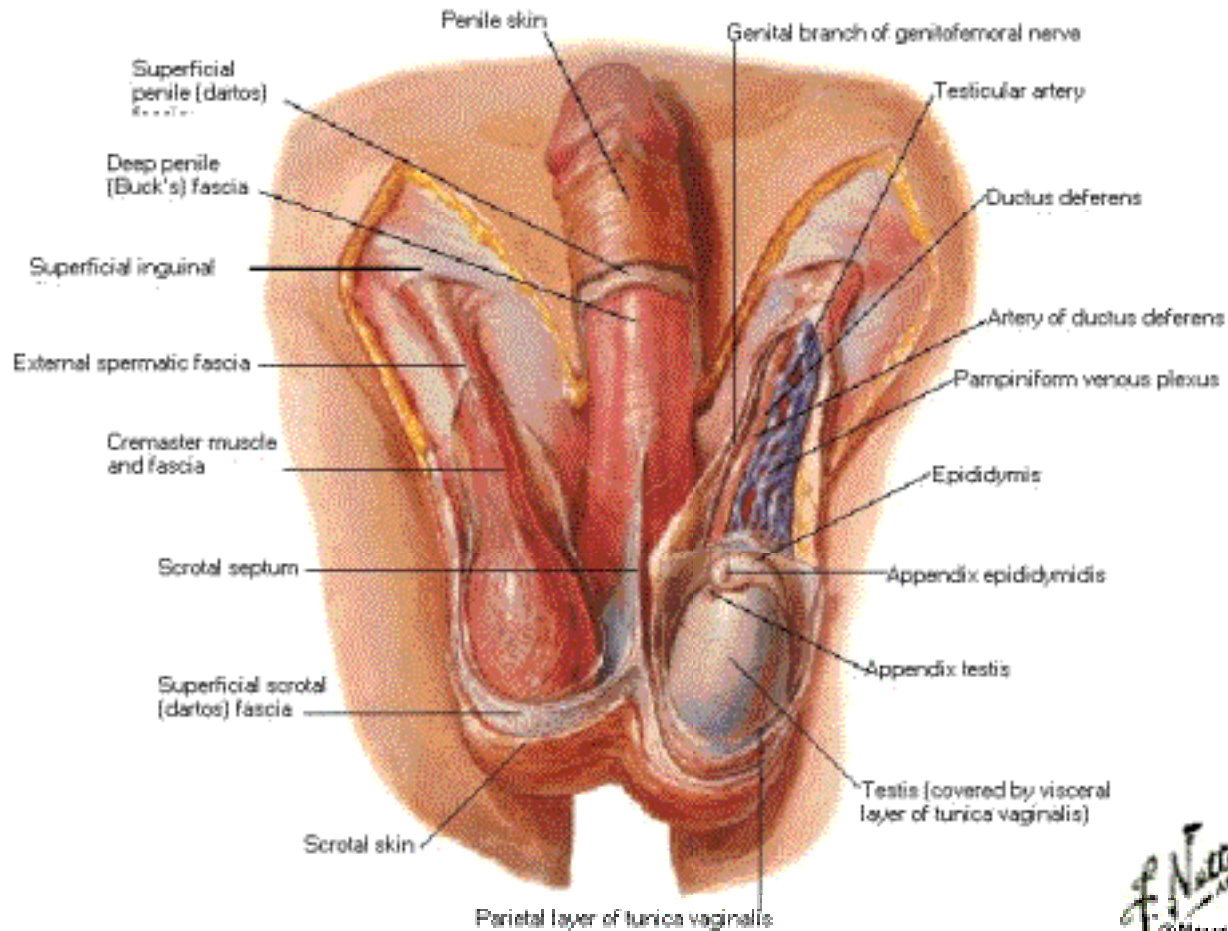
8 Lunar Months





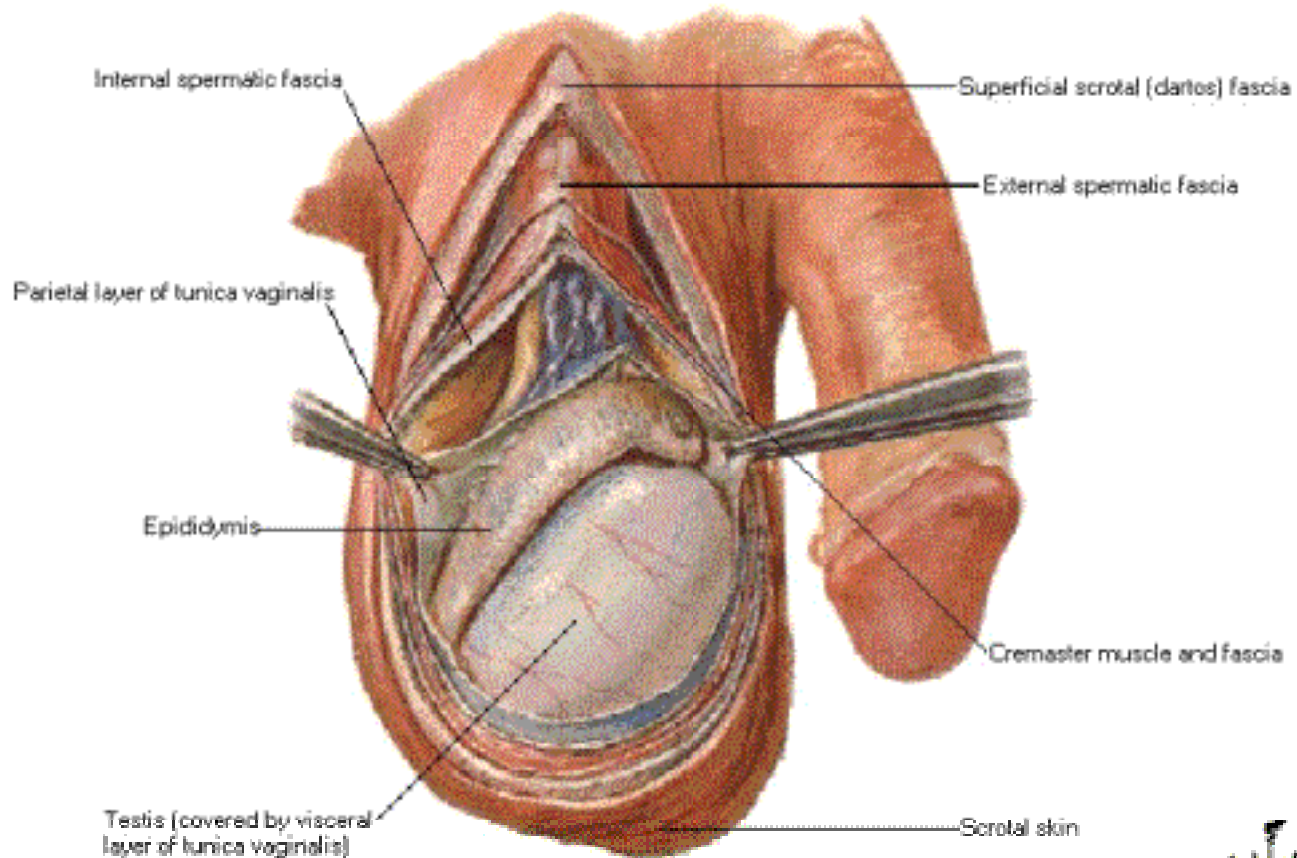
# Scrotum and Contents

## Anterior View



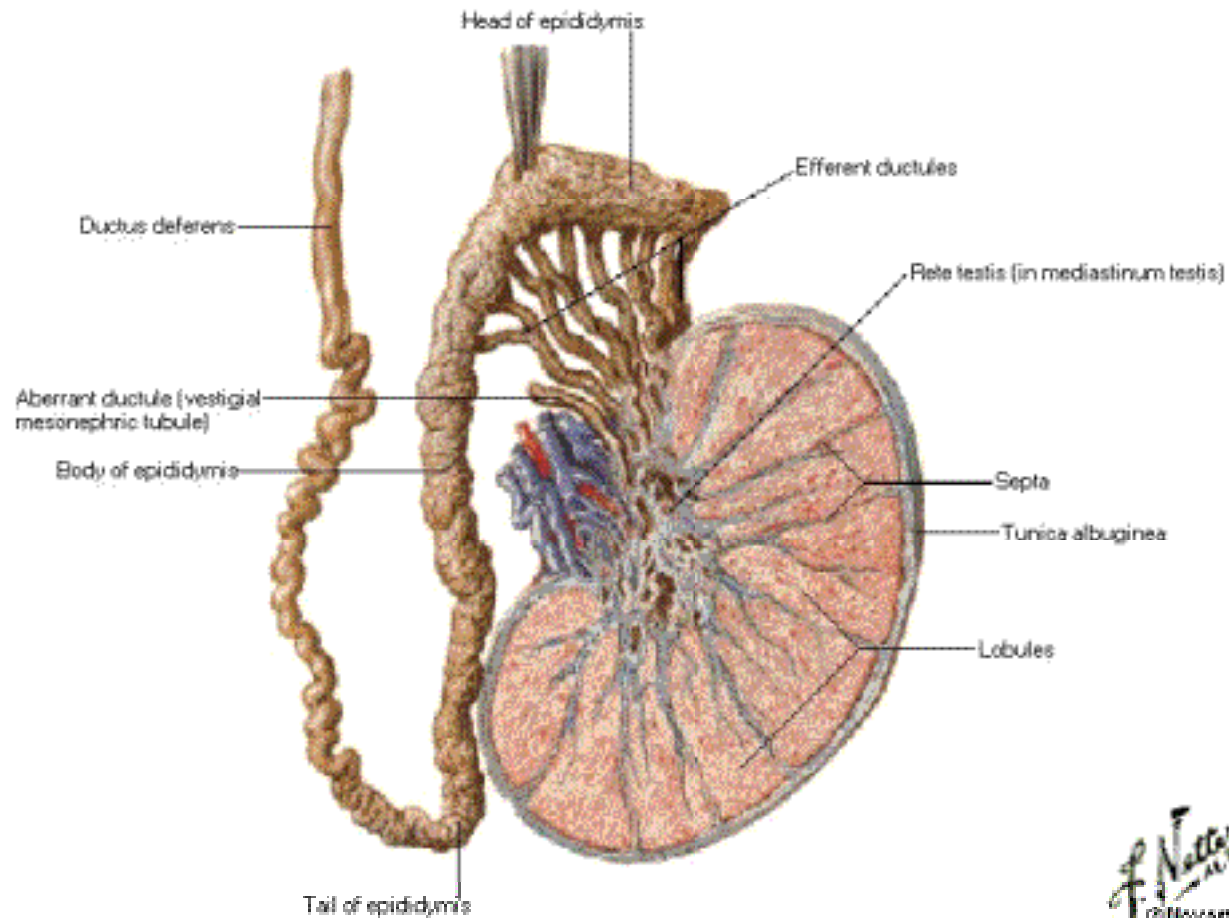
# Scrotum and Contents

## Lateral View

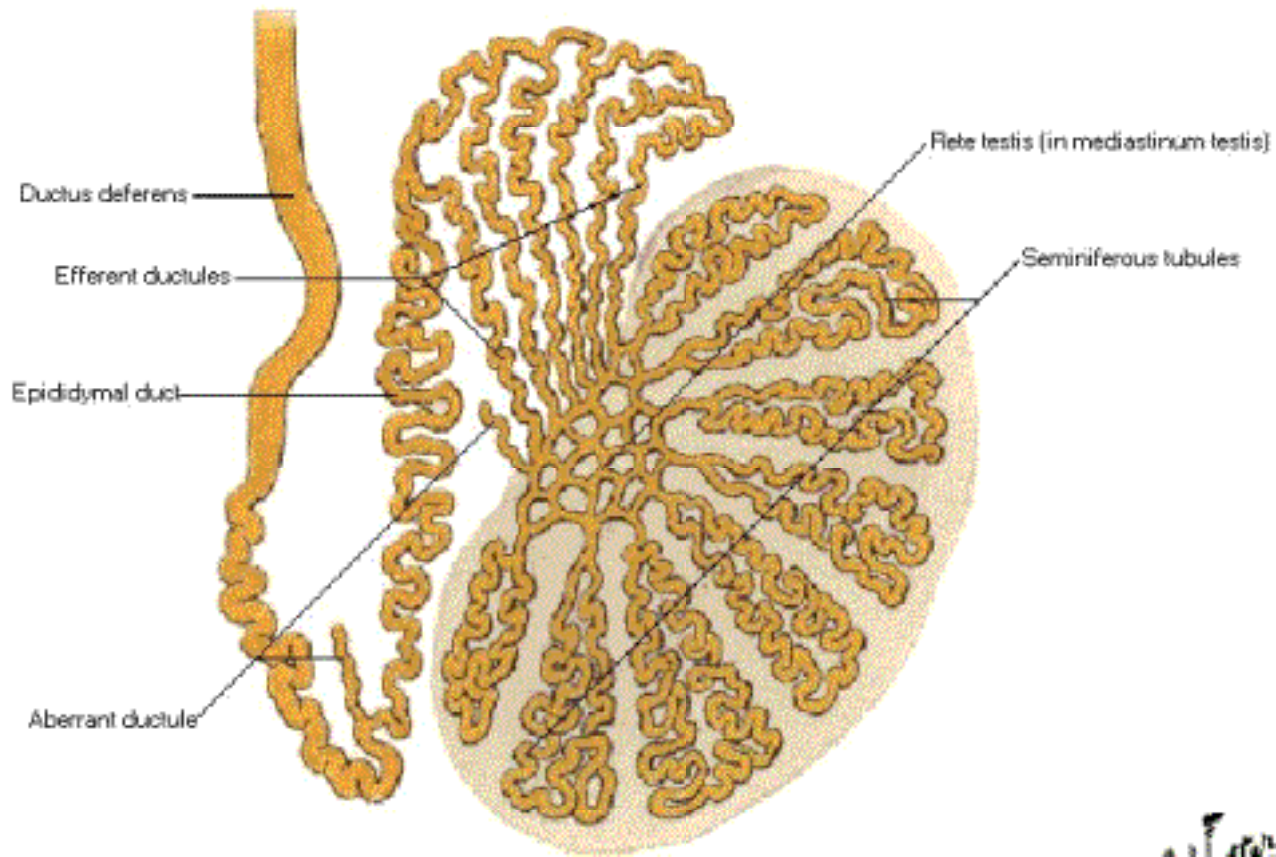


# Testis, Epididymis and Ductus Deferens

## Frontal Section



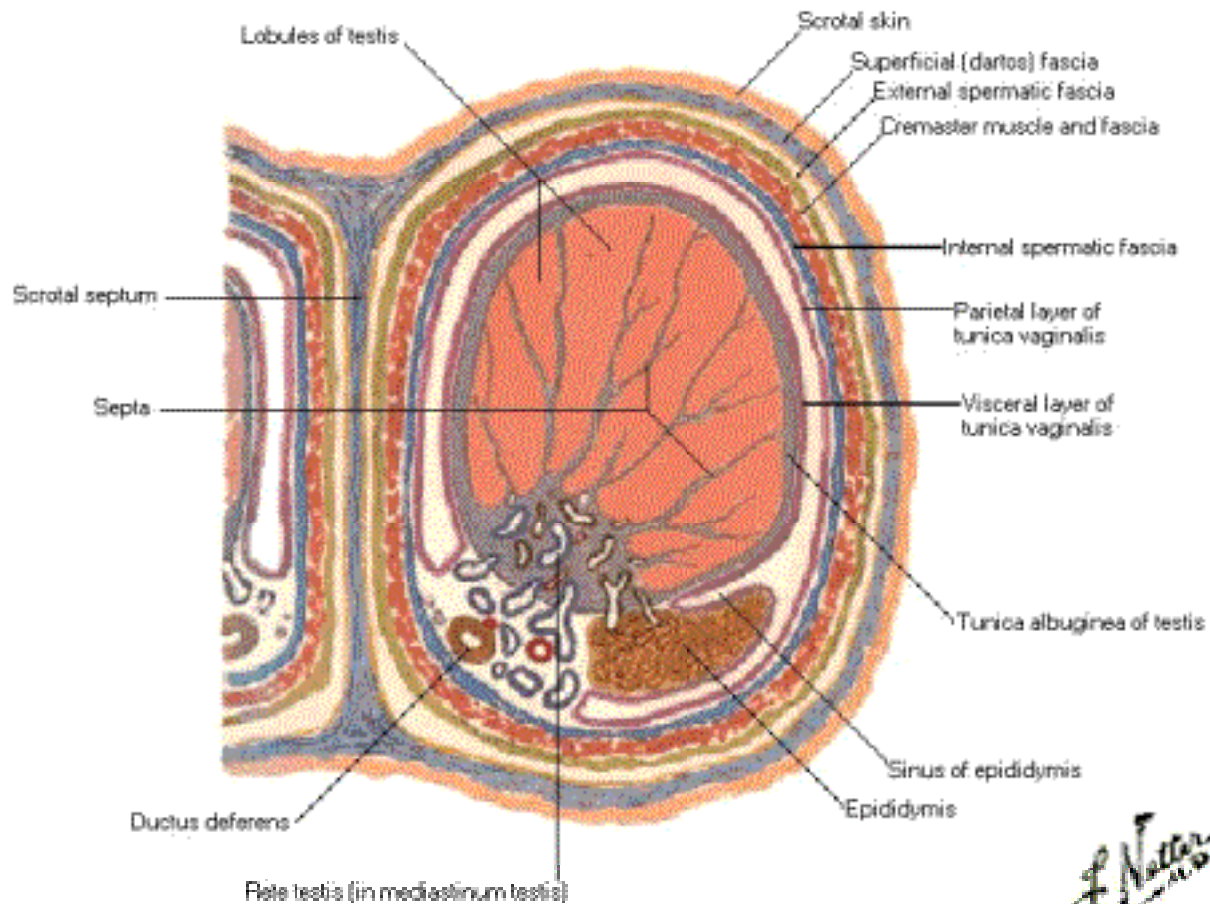
# Testis, Epididymis and Ductus Deferens Schema





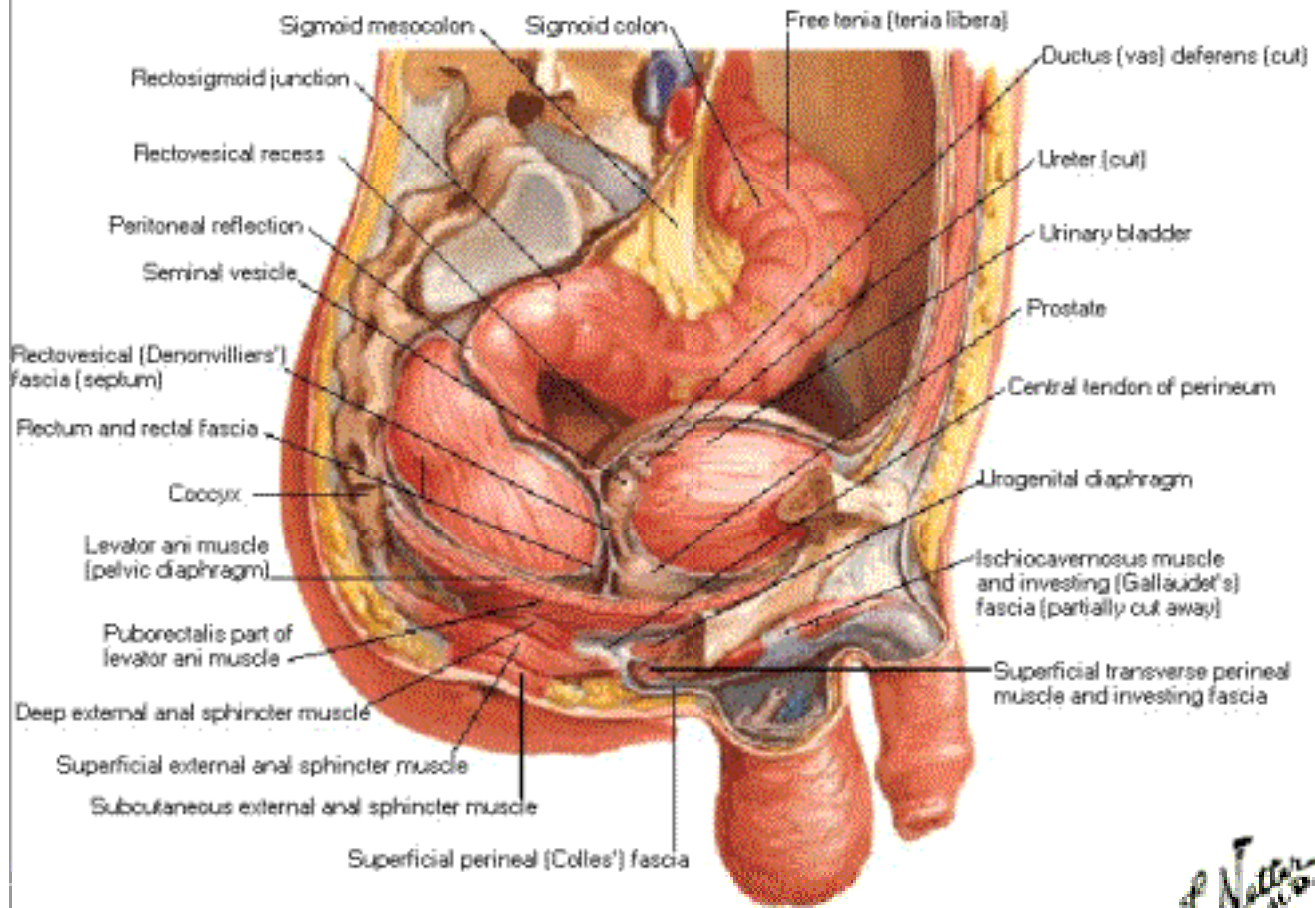
# Testis, Epididymis and Ductus Deferens

## Cross Section

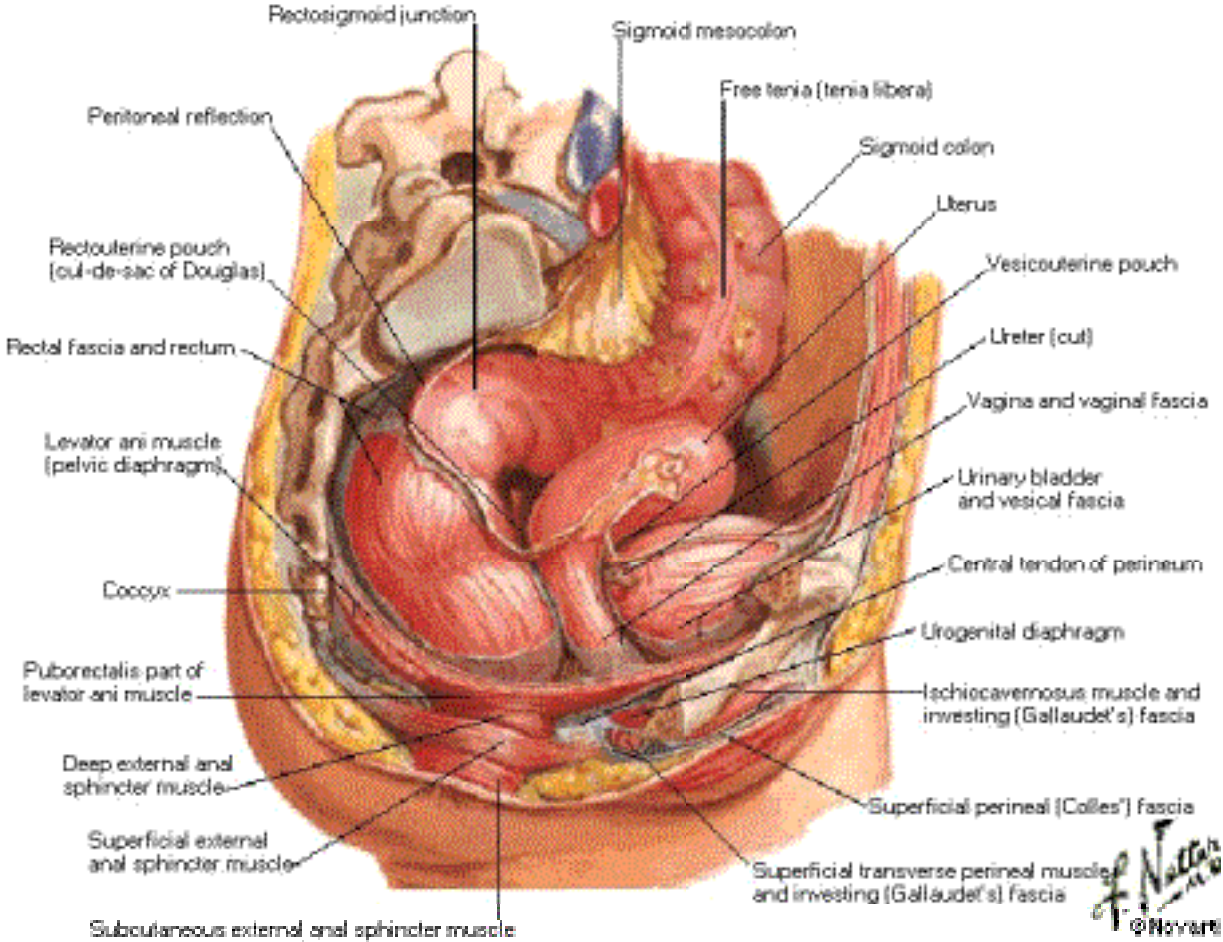


*F. Natter*  
2015

## Rectum of Male in Situ



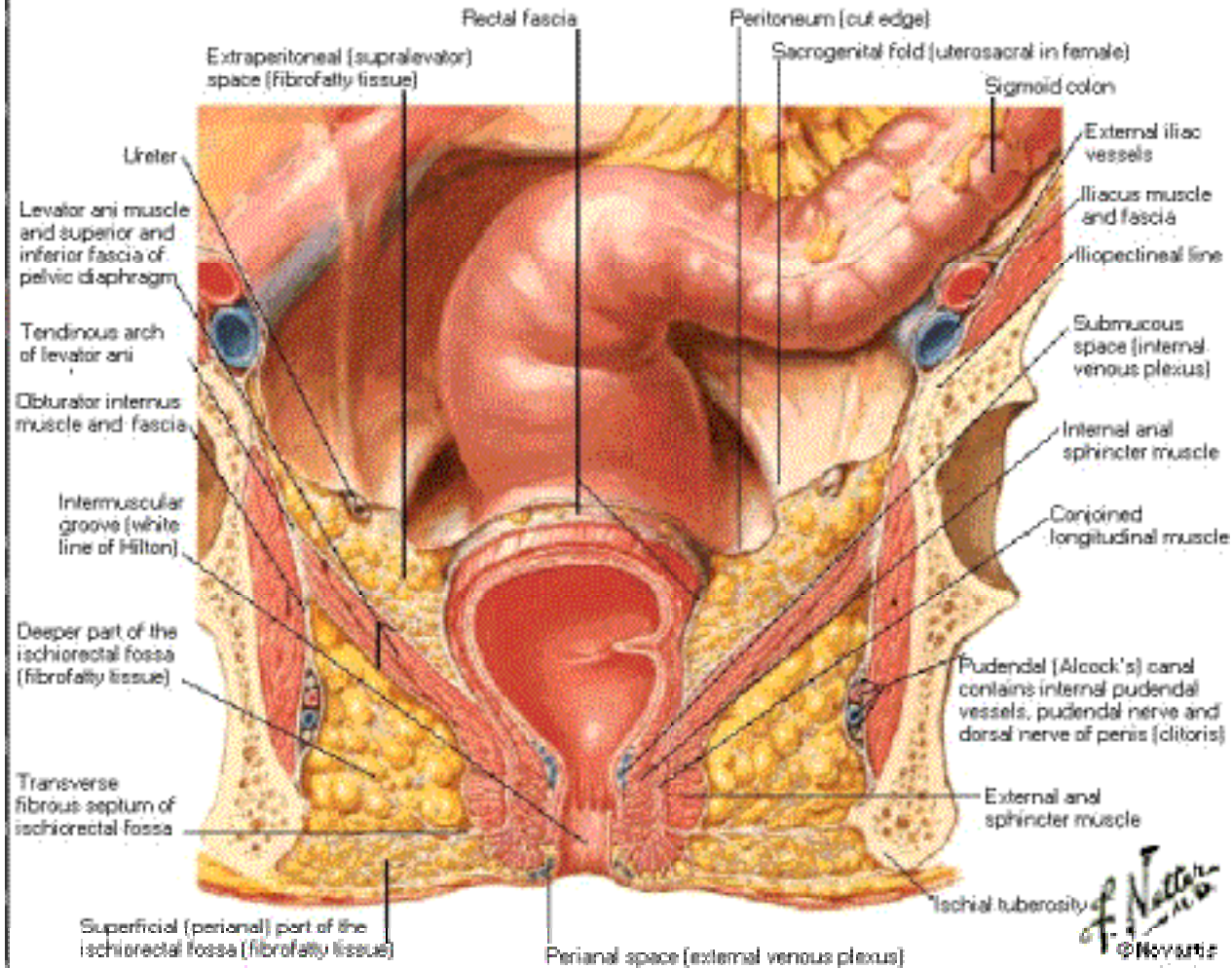
# Rectum of Female in Situ



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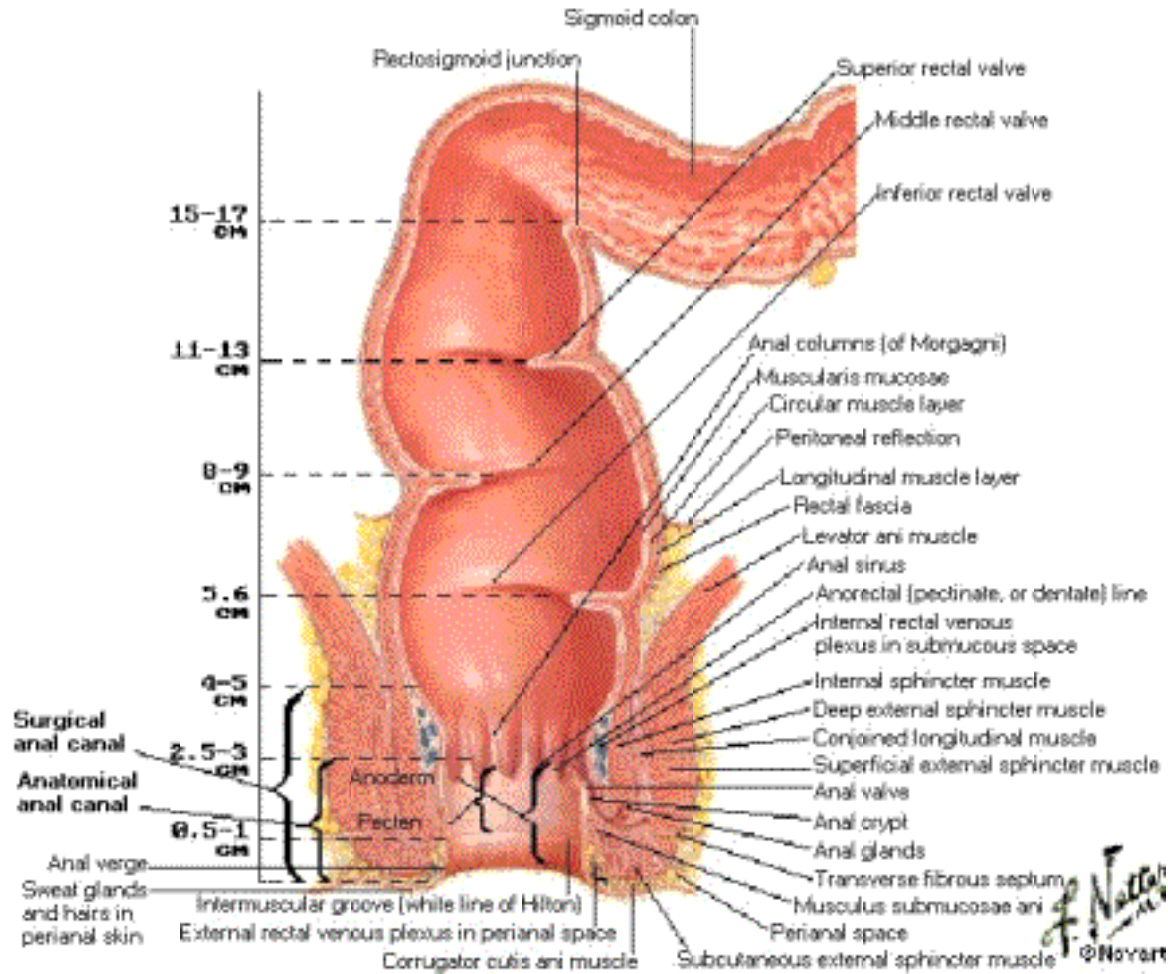
# Ischioanal Fossa



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© HCV 2012

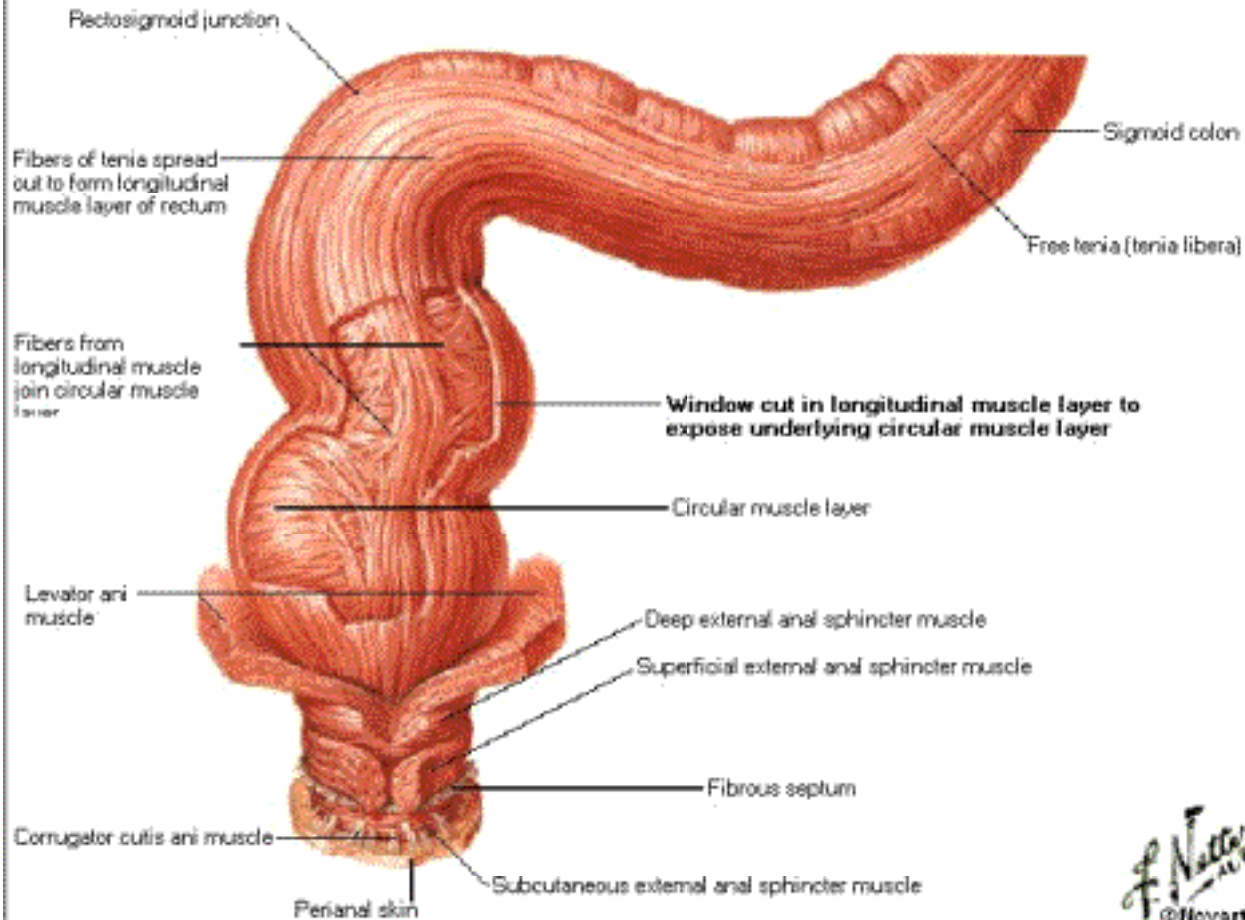


# Rectum and Anal Canal



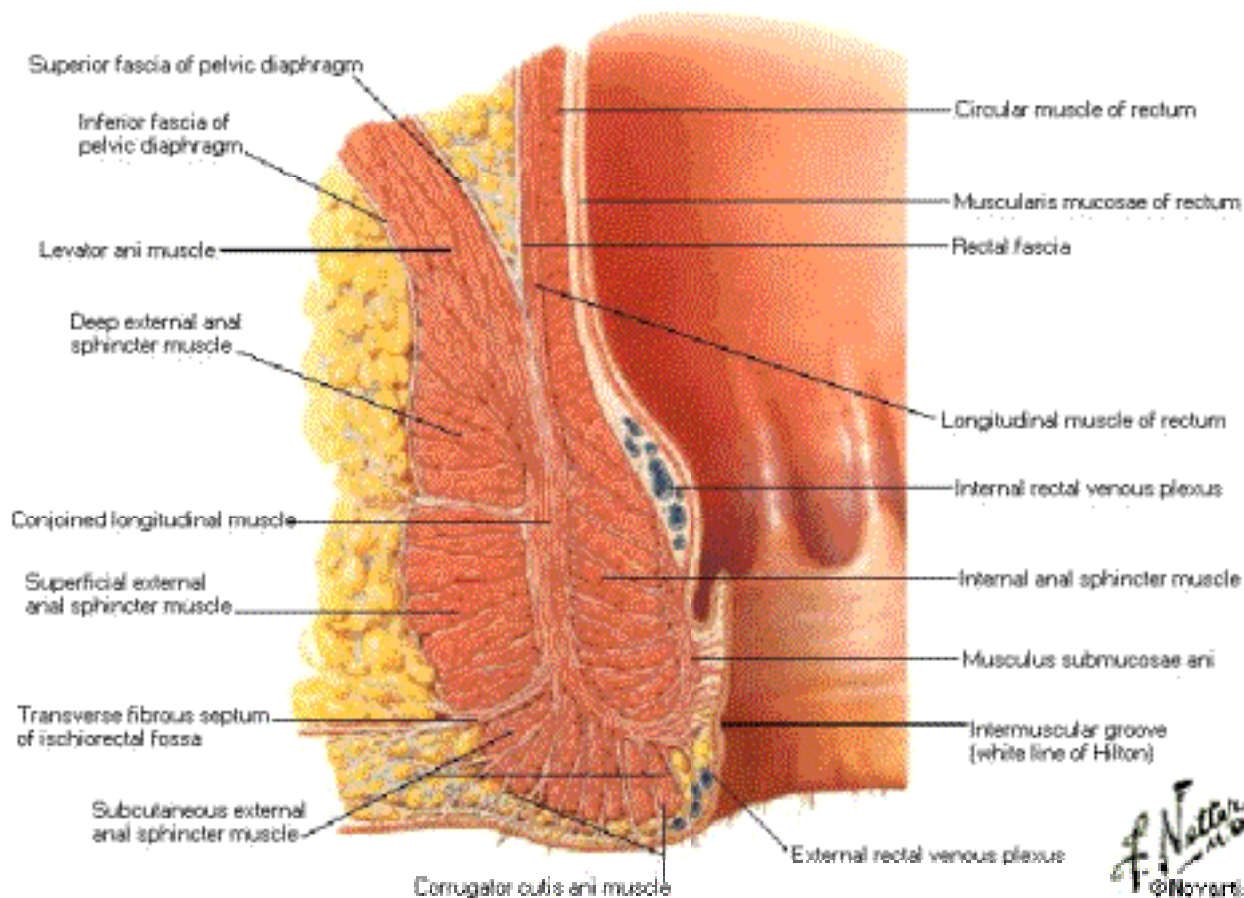
# Anorectal Musculature

## Anterior View



# Anorectal Musculature

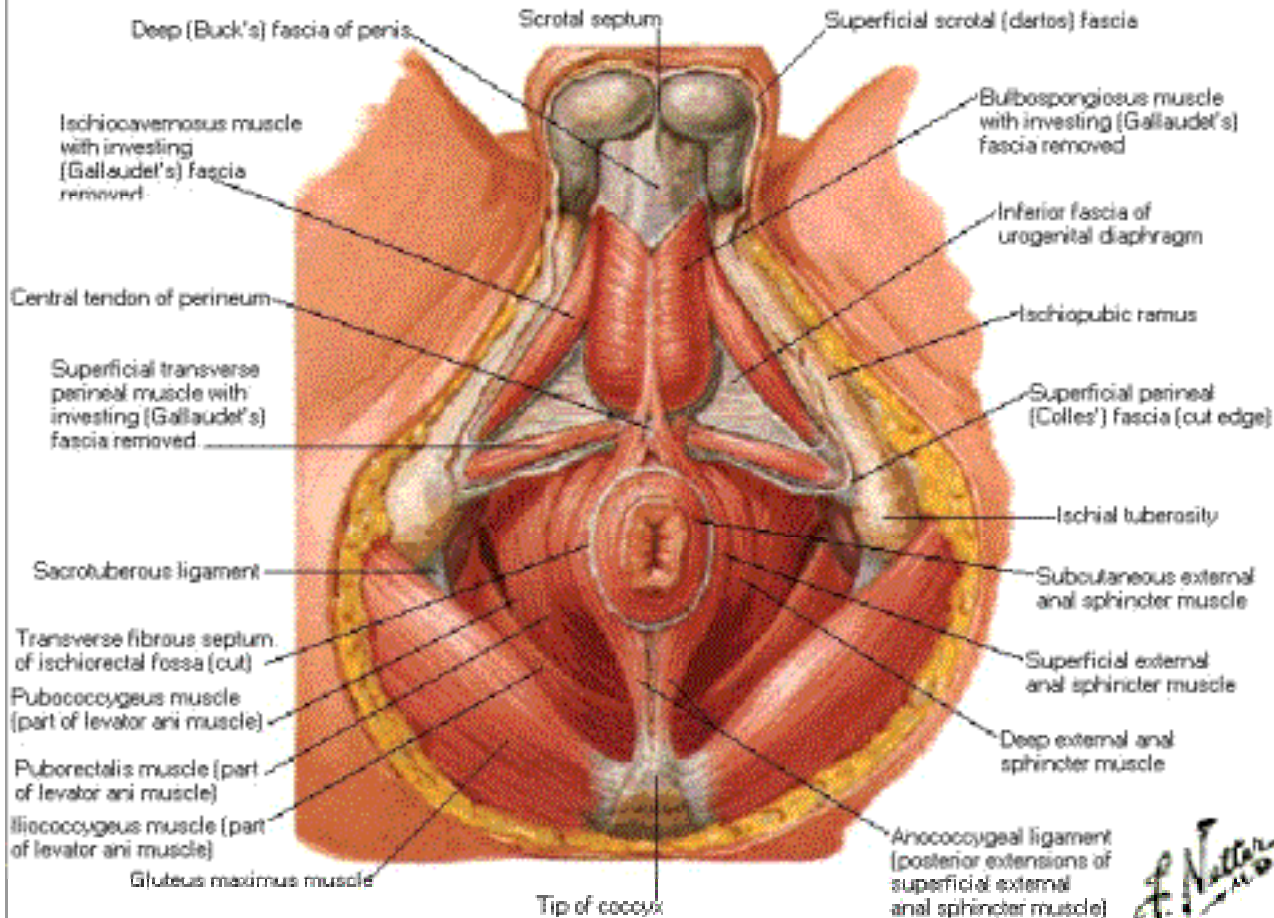
## Frontal Section



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# External Anal Sphincter Muscle of Male

## Perineal View

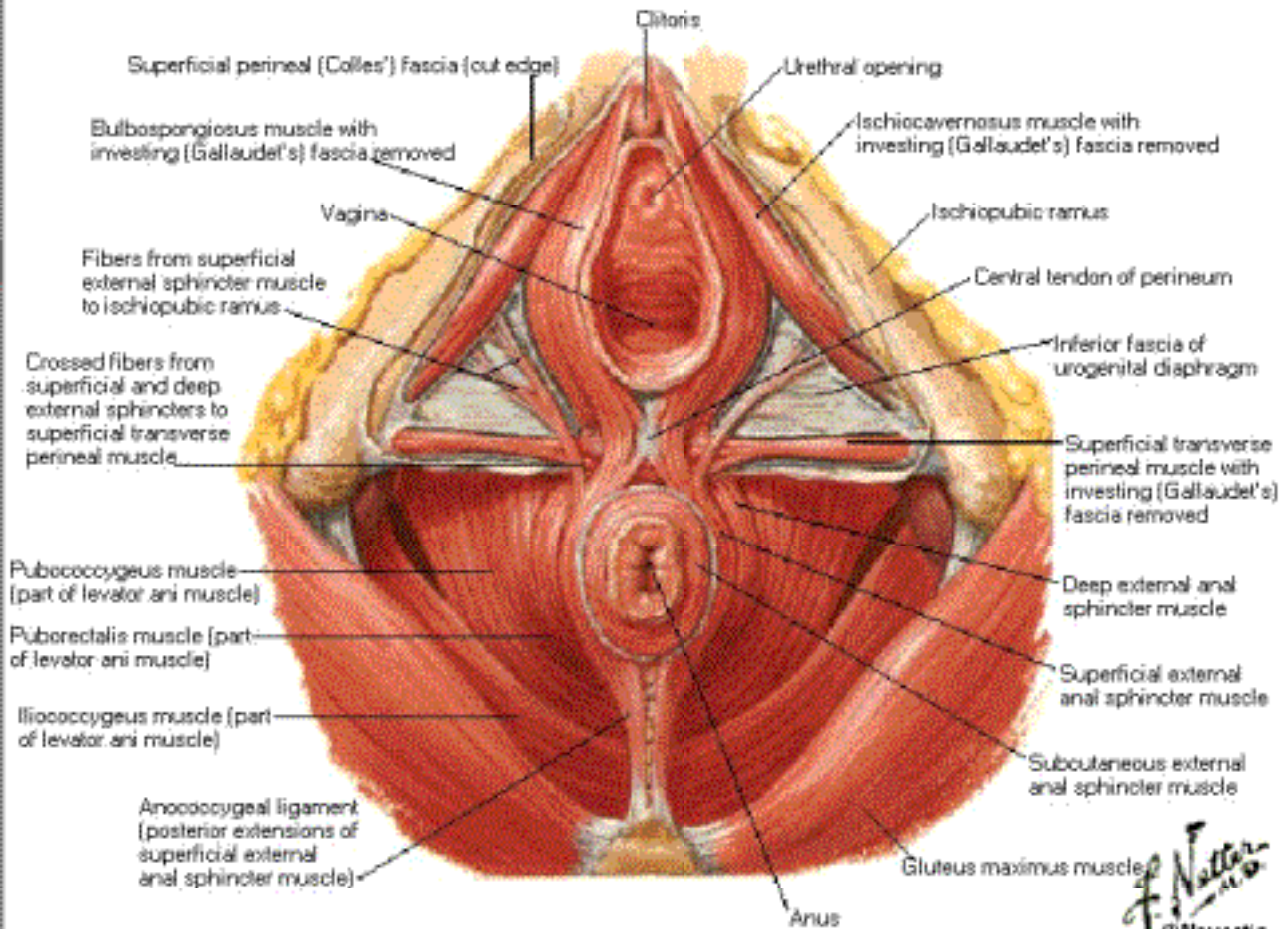


*F. Netter M.D.*



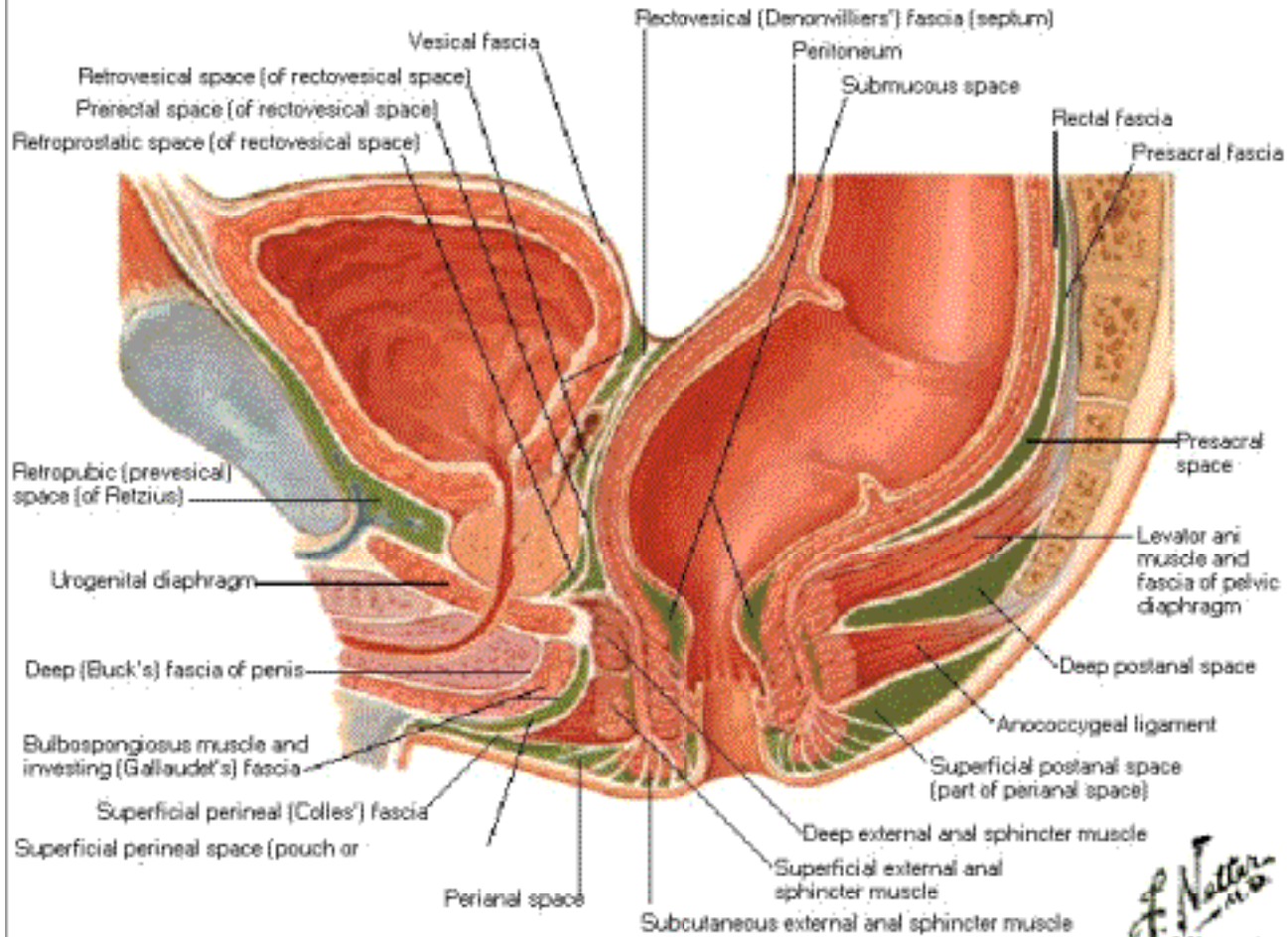
# External Anal Sphincter Muscle of Female

## Perineal View



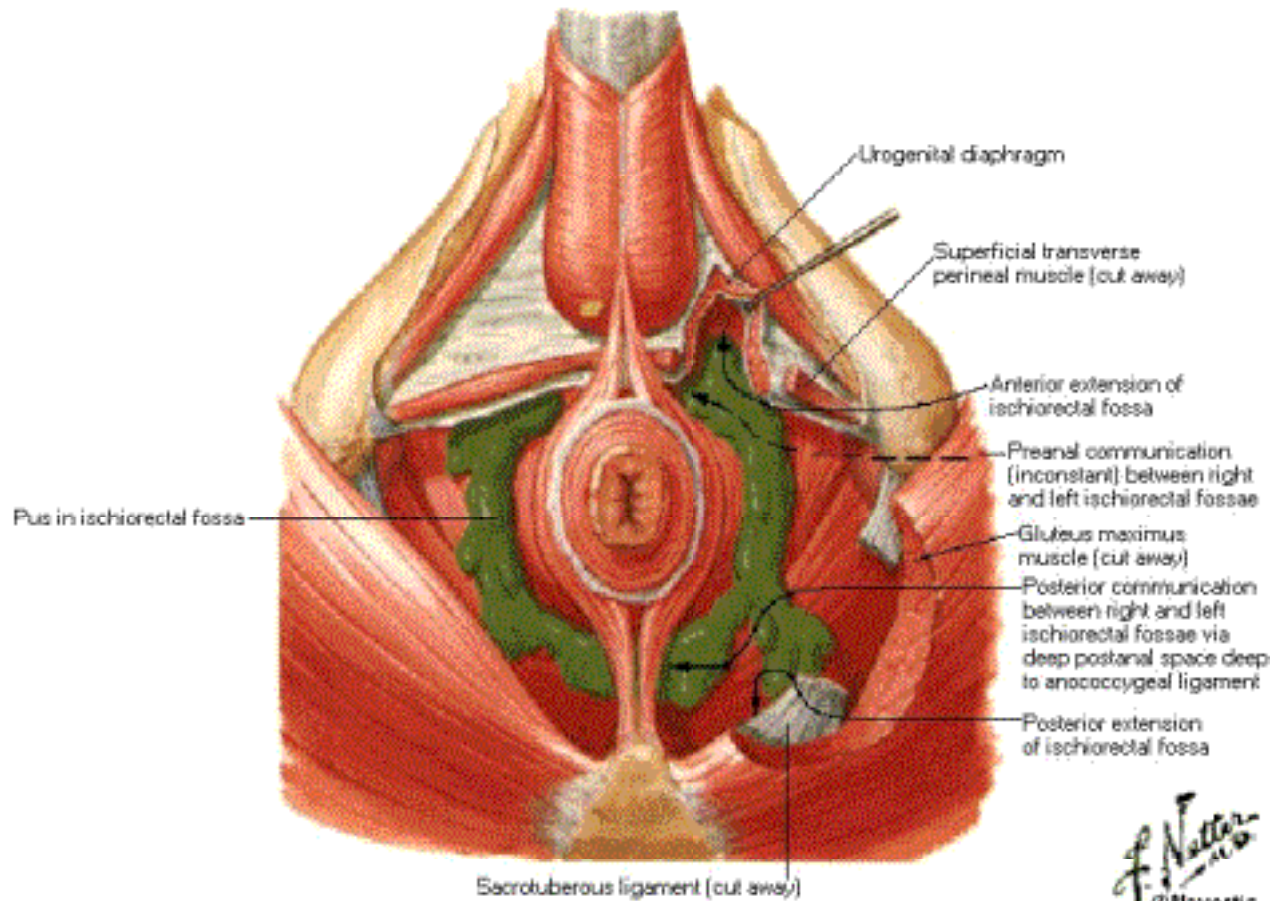
# Perineopelvic Spaces

## Sagittal Section



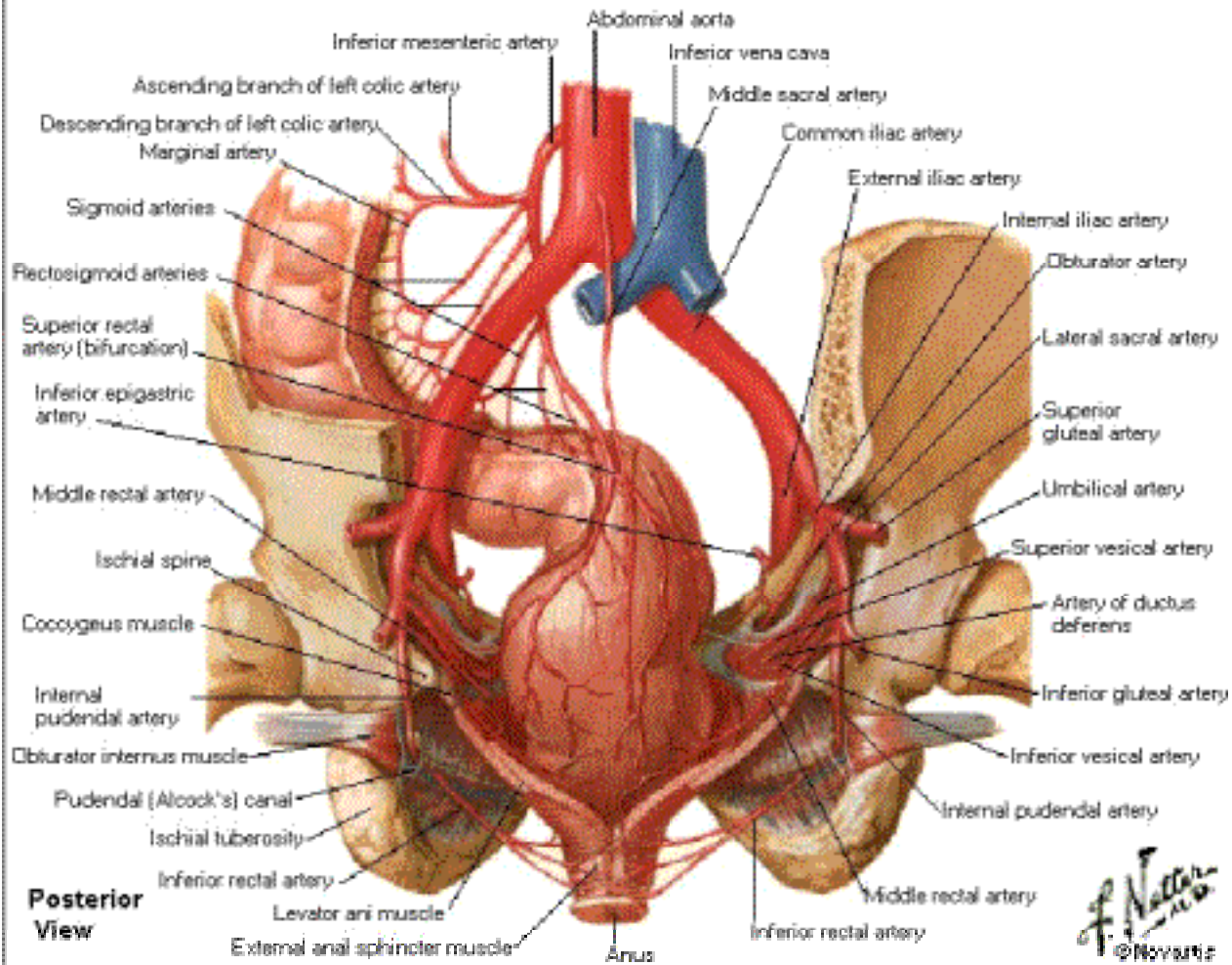
# Perineopelvic Spaces

## Perineal View





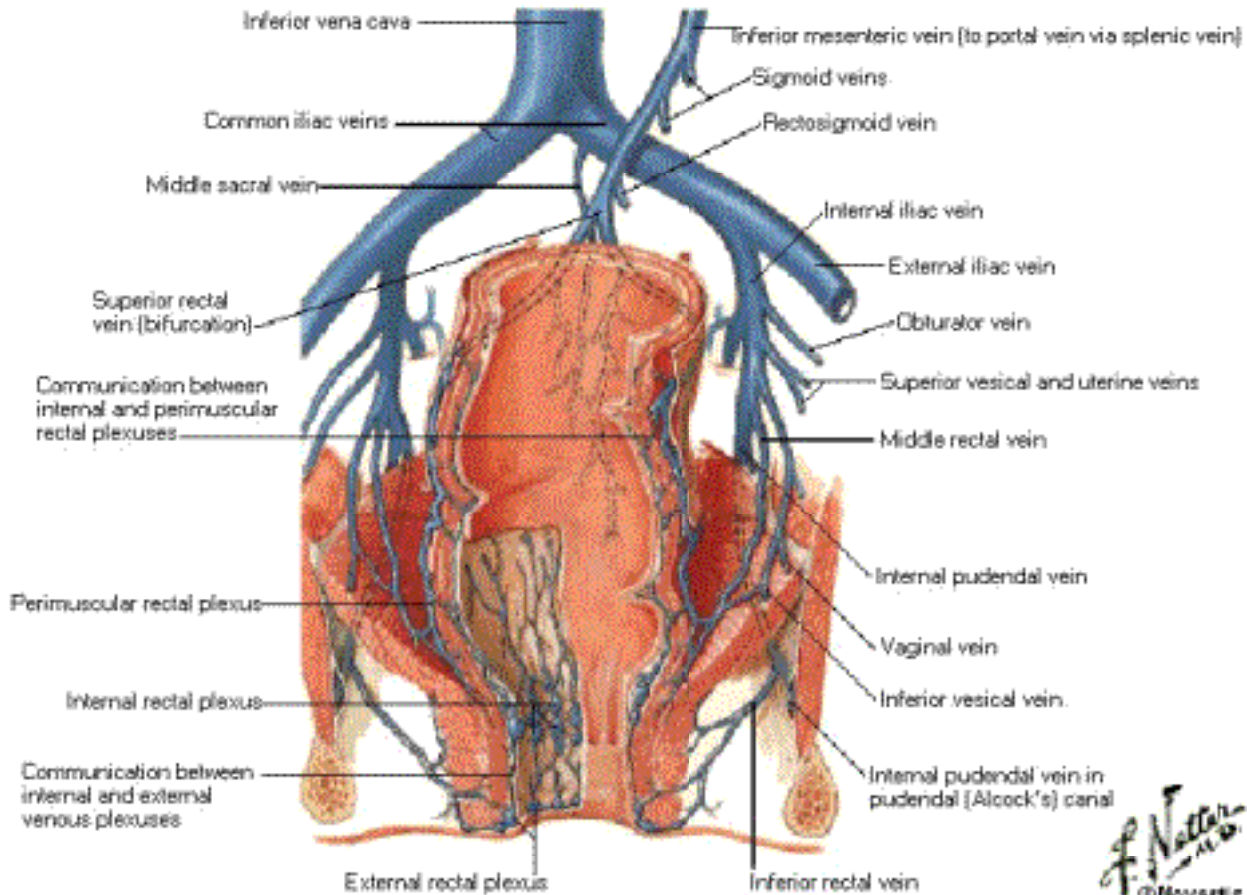
# Arteries of Rectum and Anal Canal





# Veins of Rectum and Anal Canal

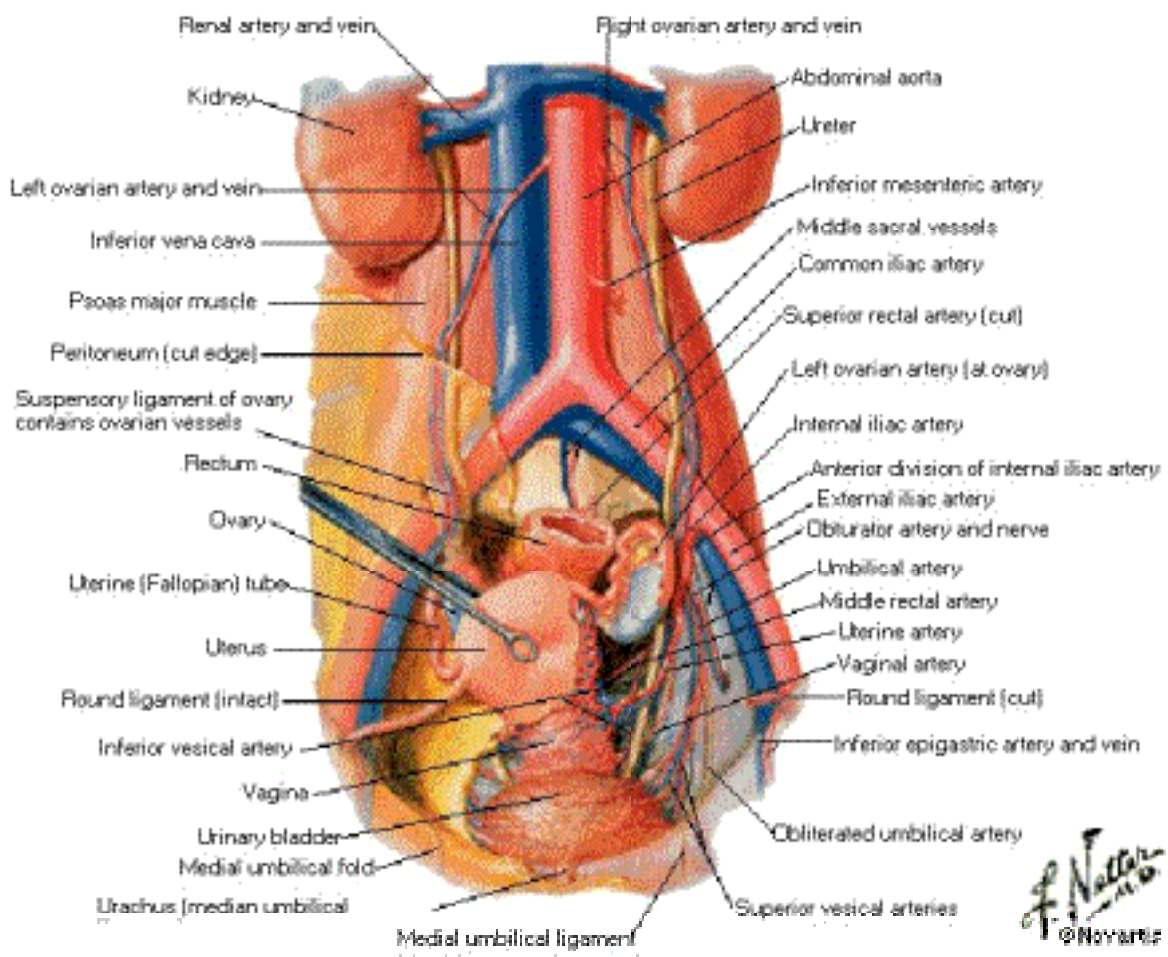
## Anterior View



# Arteries and Veins of Pelvic Organs

Anterior View

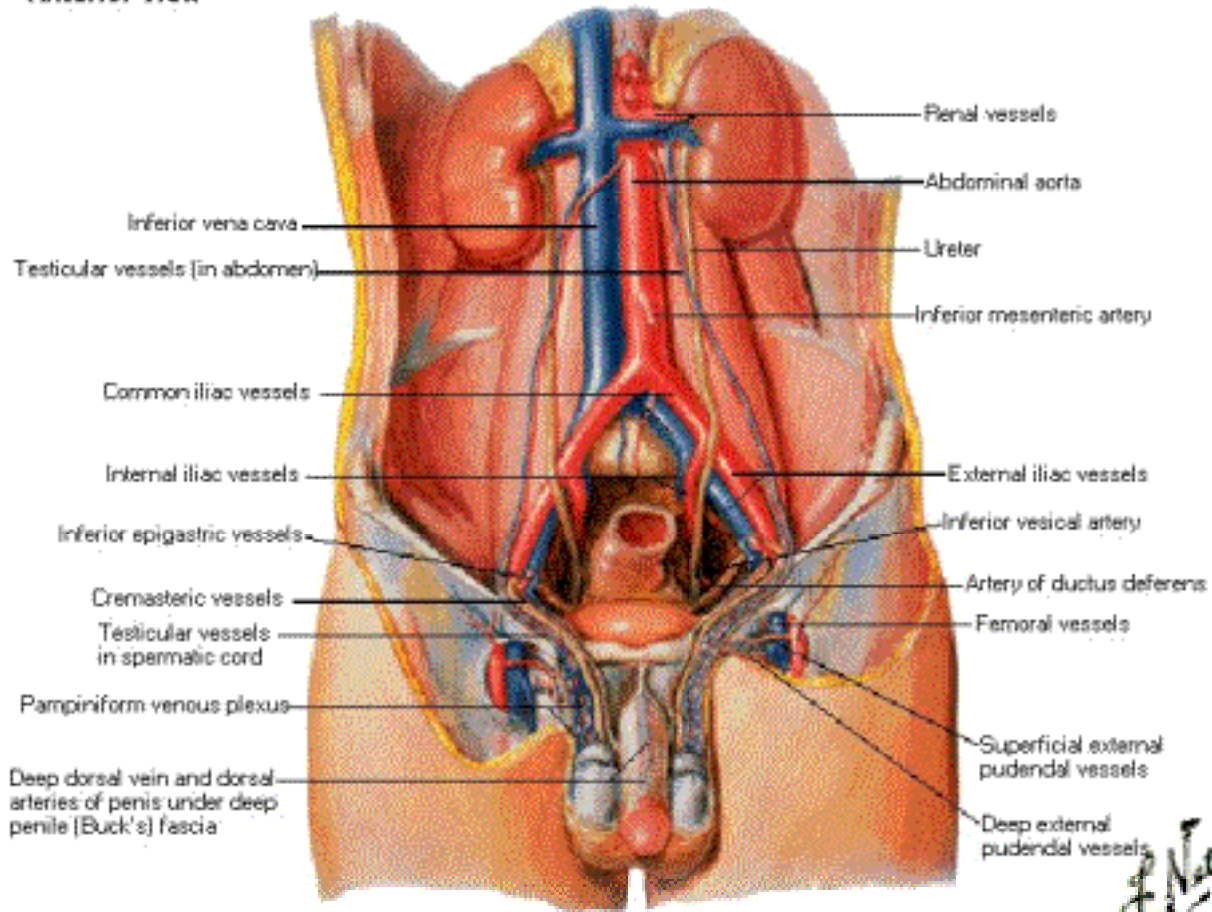
Female



*F. Netter M.D.*  
© Novartis

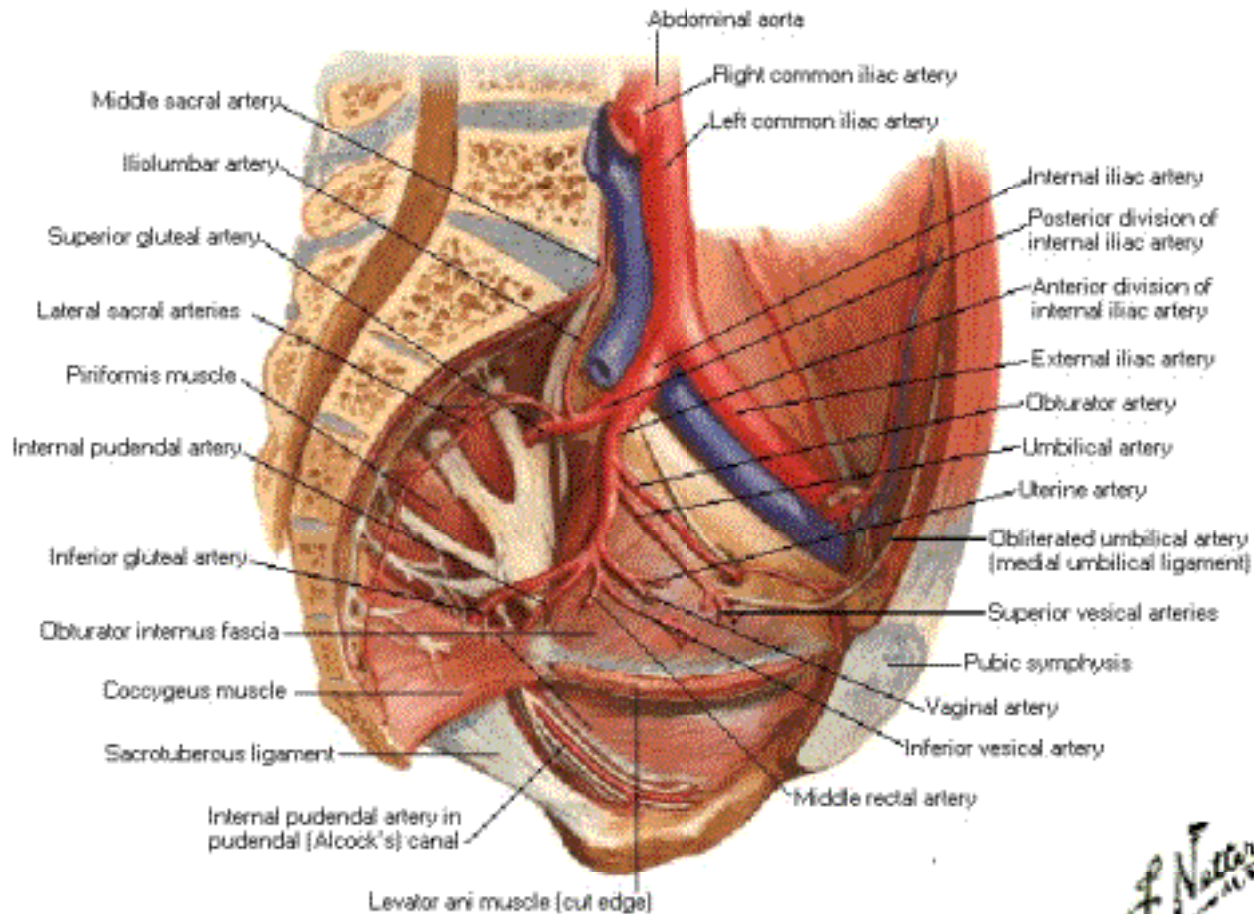
# Arteries and Veins of Testis

## Anterior View



# Arteries and Veins of Pelvis

## Female - Sagittal Section



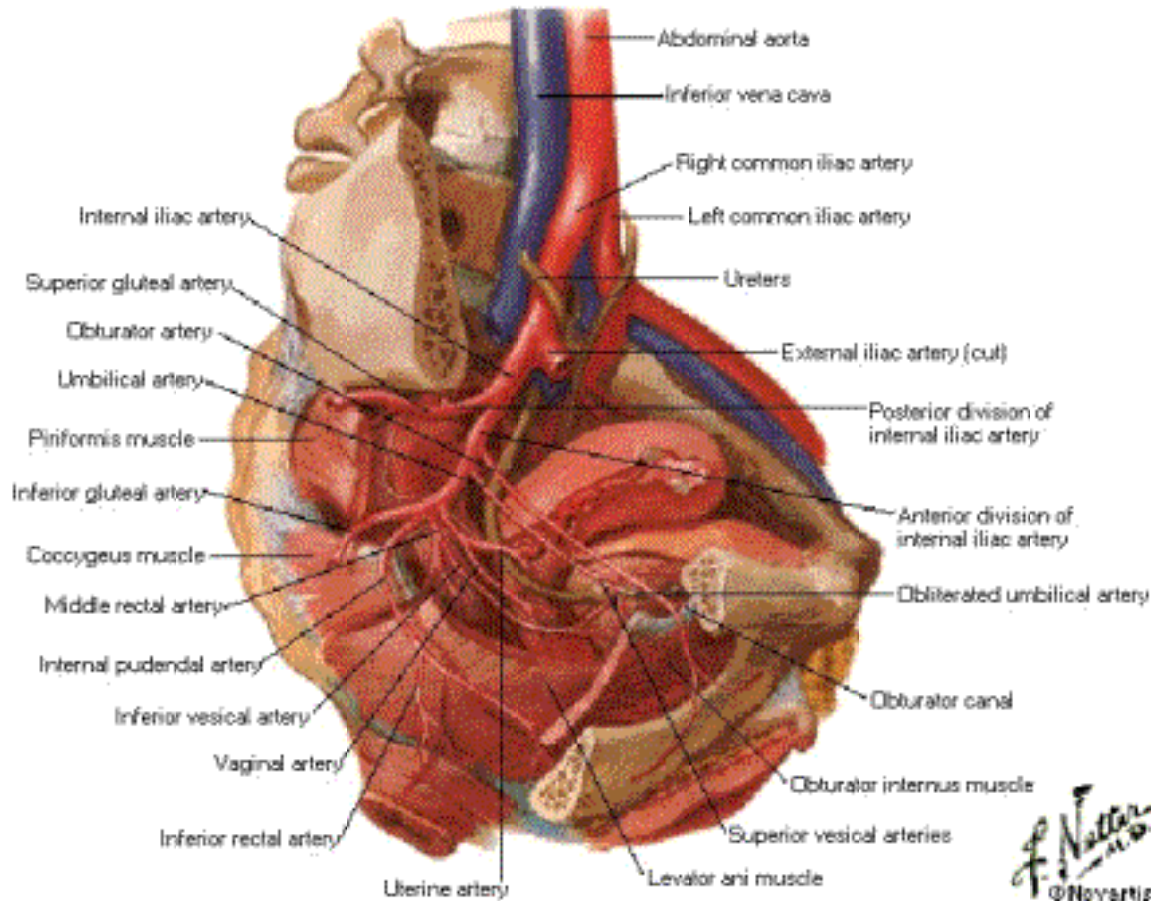
*F. Netter*



# Arteries and Veins of Pelvis

## Female - Right Paramedian Section

### Lateral View

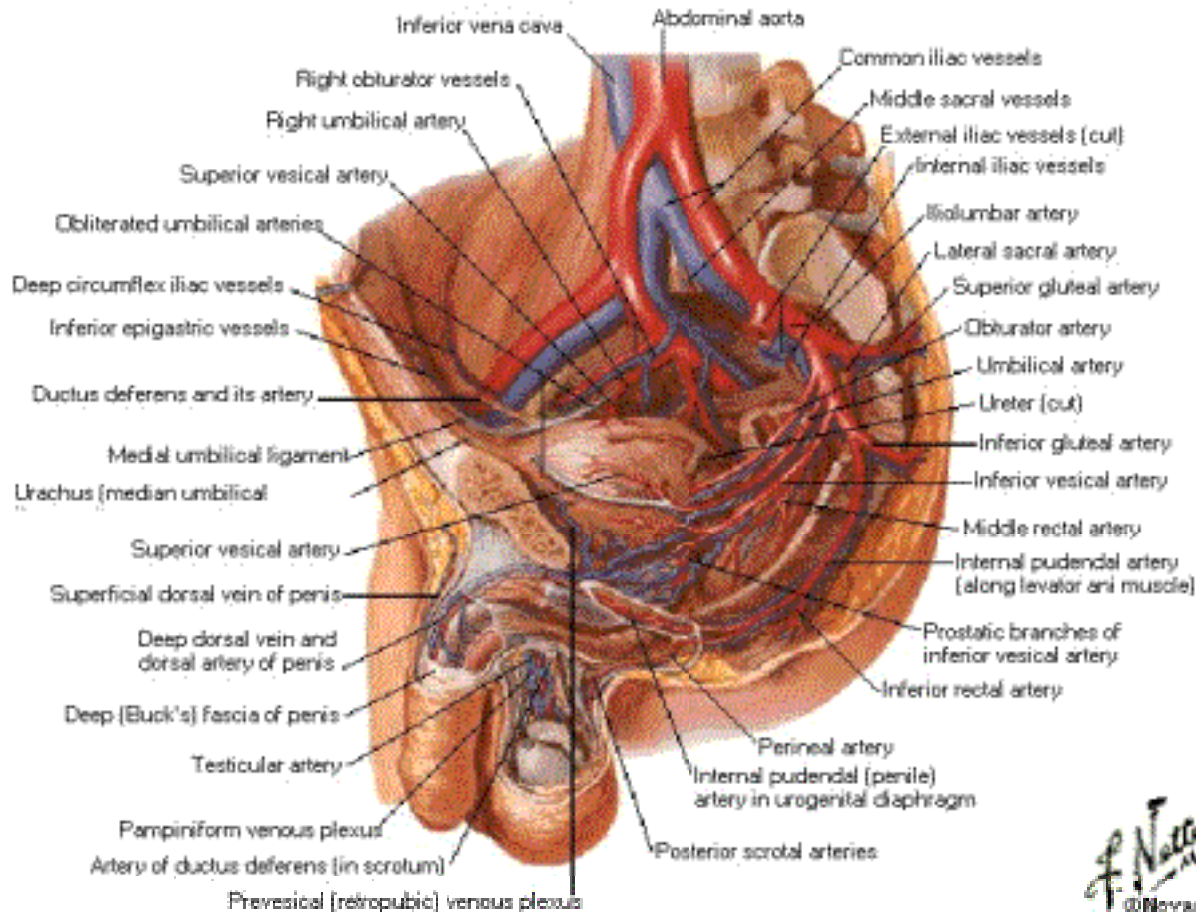


F. Netter  
M.D.  
© Novartis

# Arteries and Veins of Pelvis

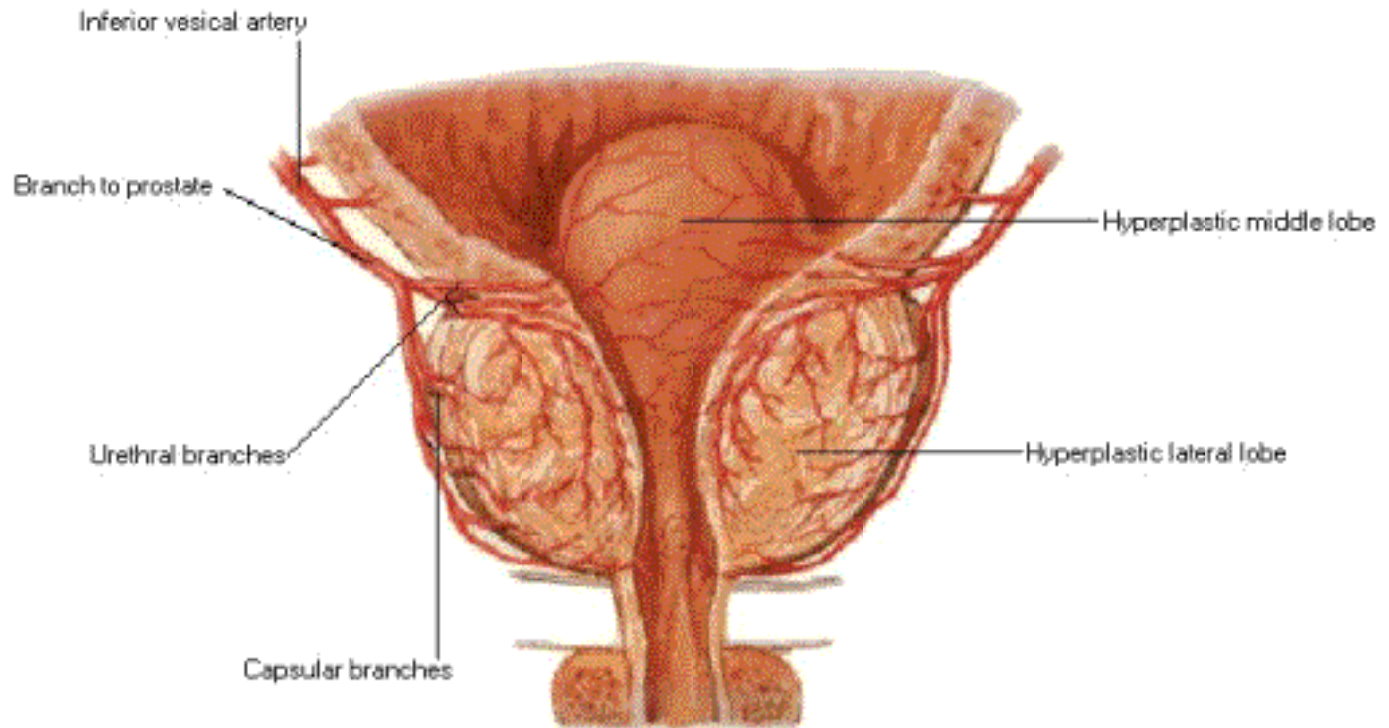
## Male - Left Paramedian Section

### Lateral View



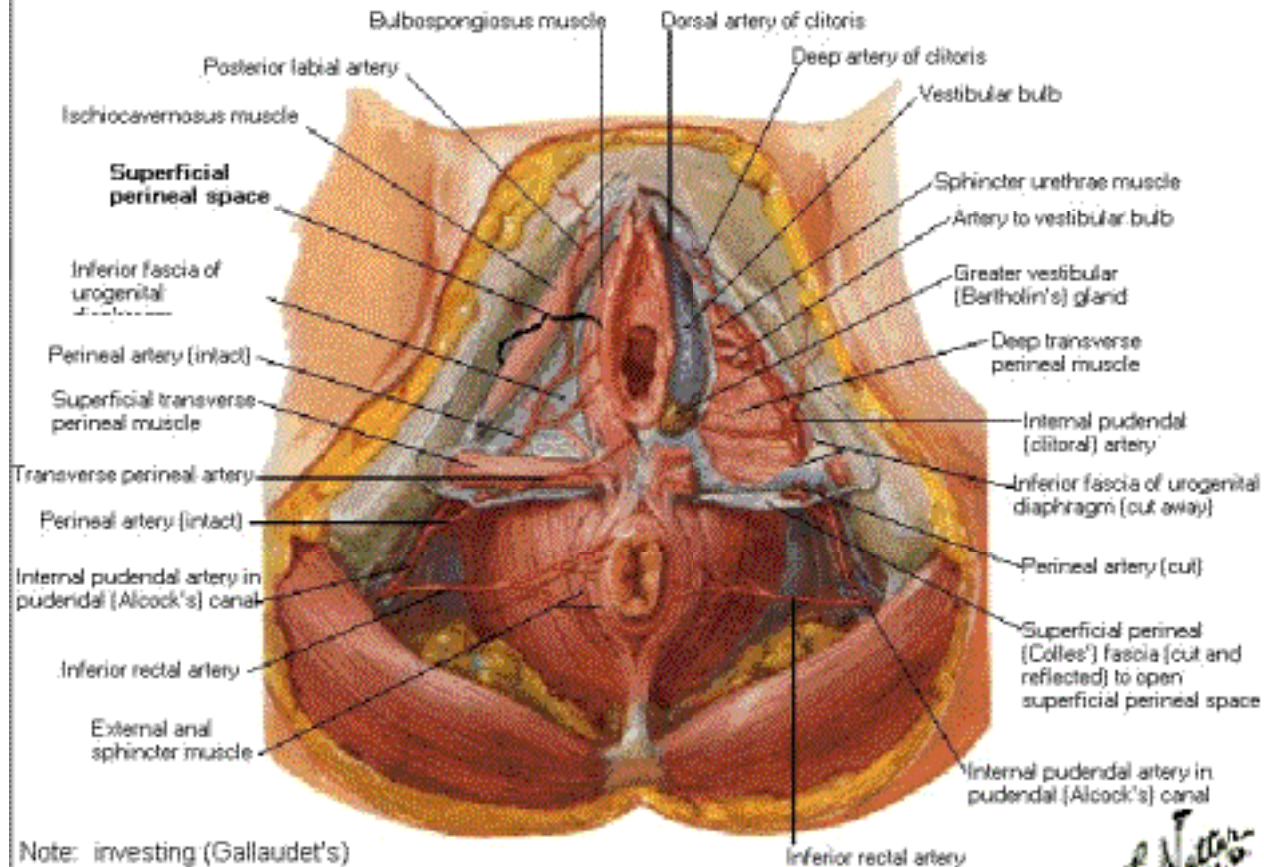
F. Netter  
© Novart

# Arterial Supply of Prostate



# Arteries and Veins of Perineum

## Female

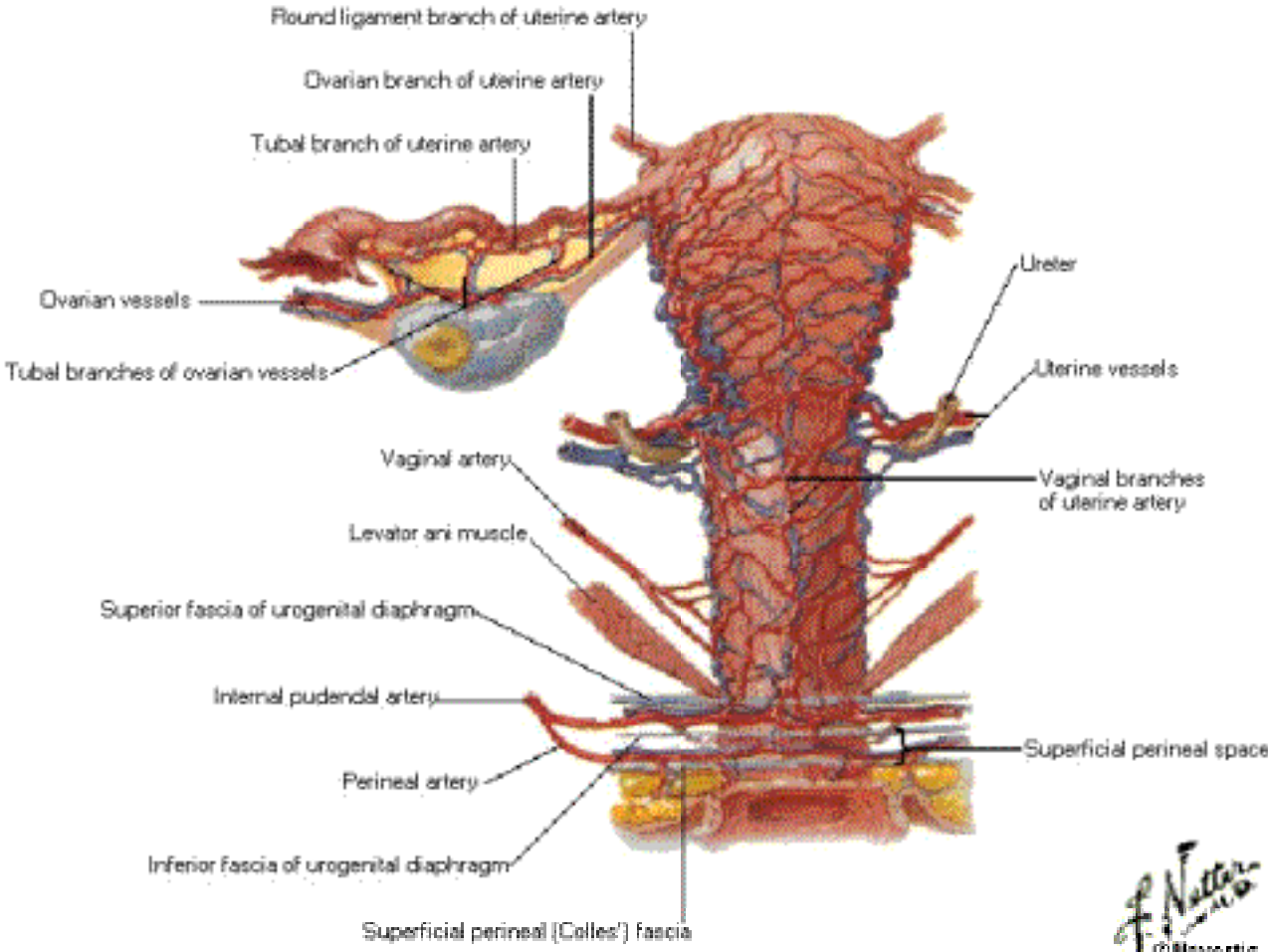


Note: investing (Gallaudet's) fascia removed from muscles of superficial perineal space

*F. Netter M.D.*  
© NOV 2012



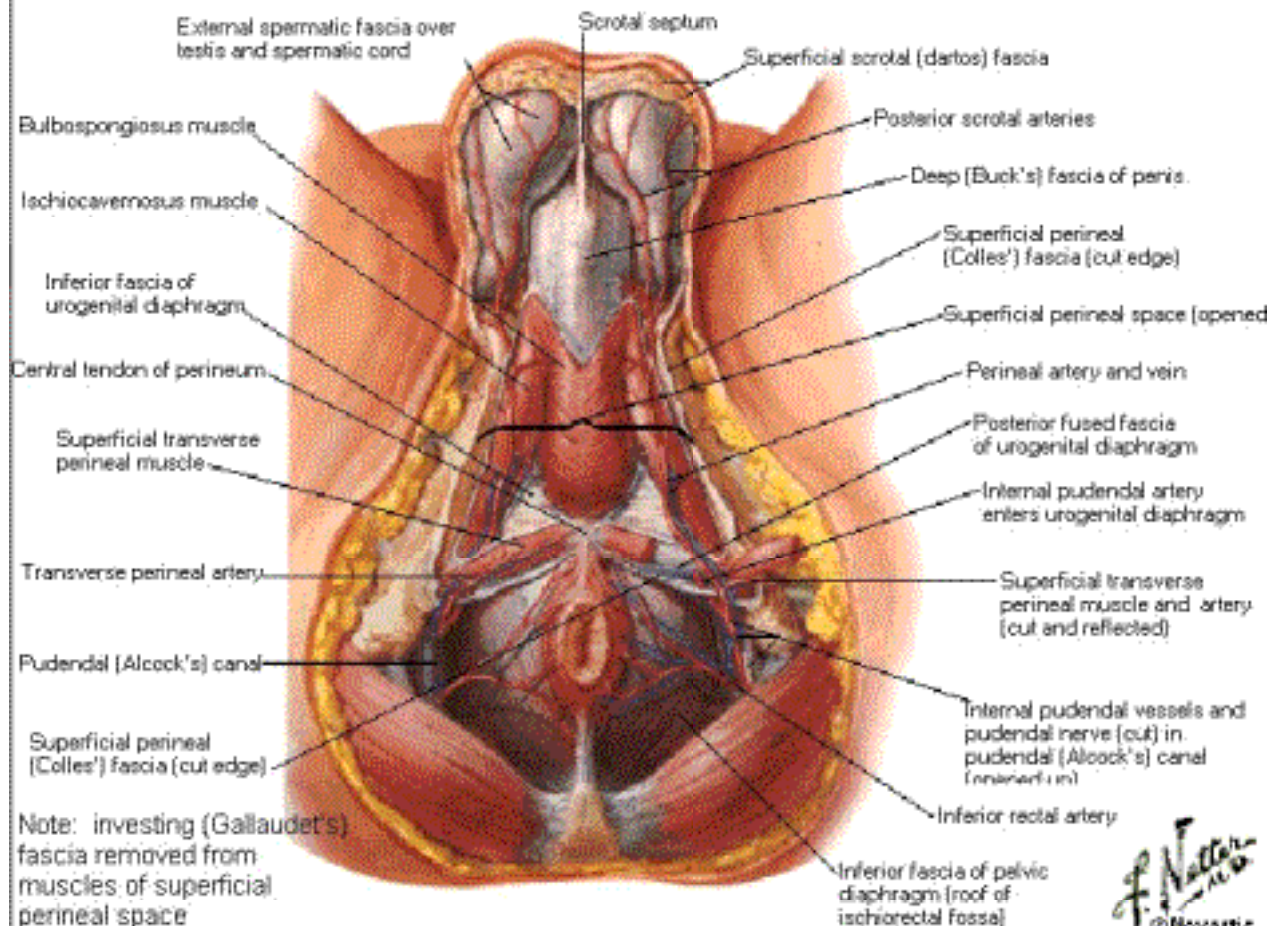
# Arteries and Veins of Uterus



*F. Netter M.D.*  
© 1989

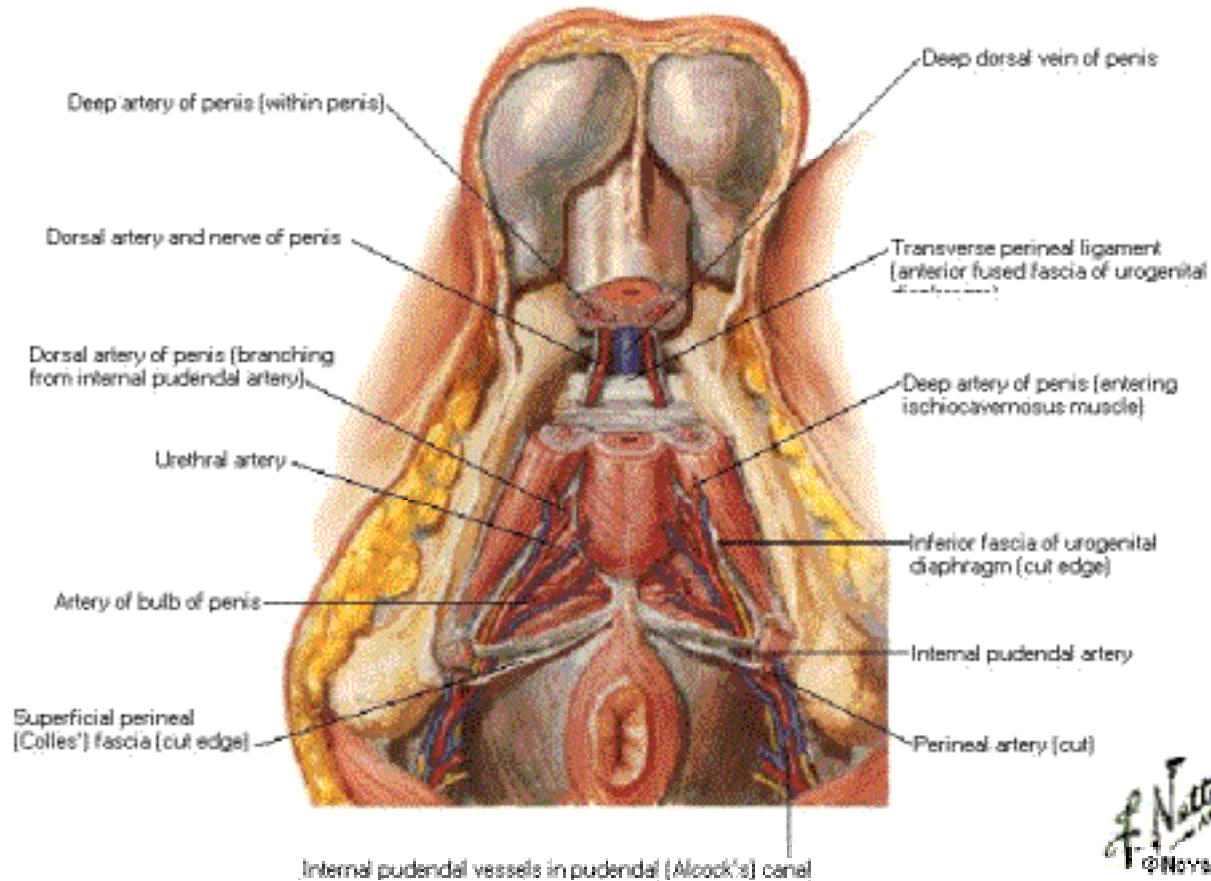
# Arteries and Veins of Perineum

## Male



# Arteries and Veins of Perineum [Continued]

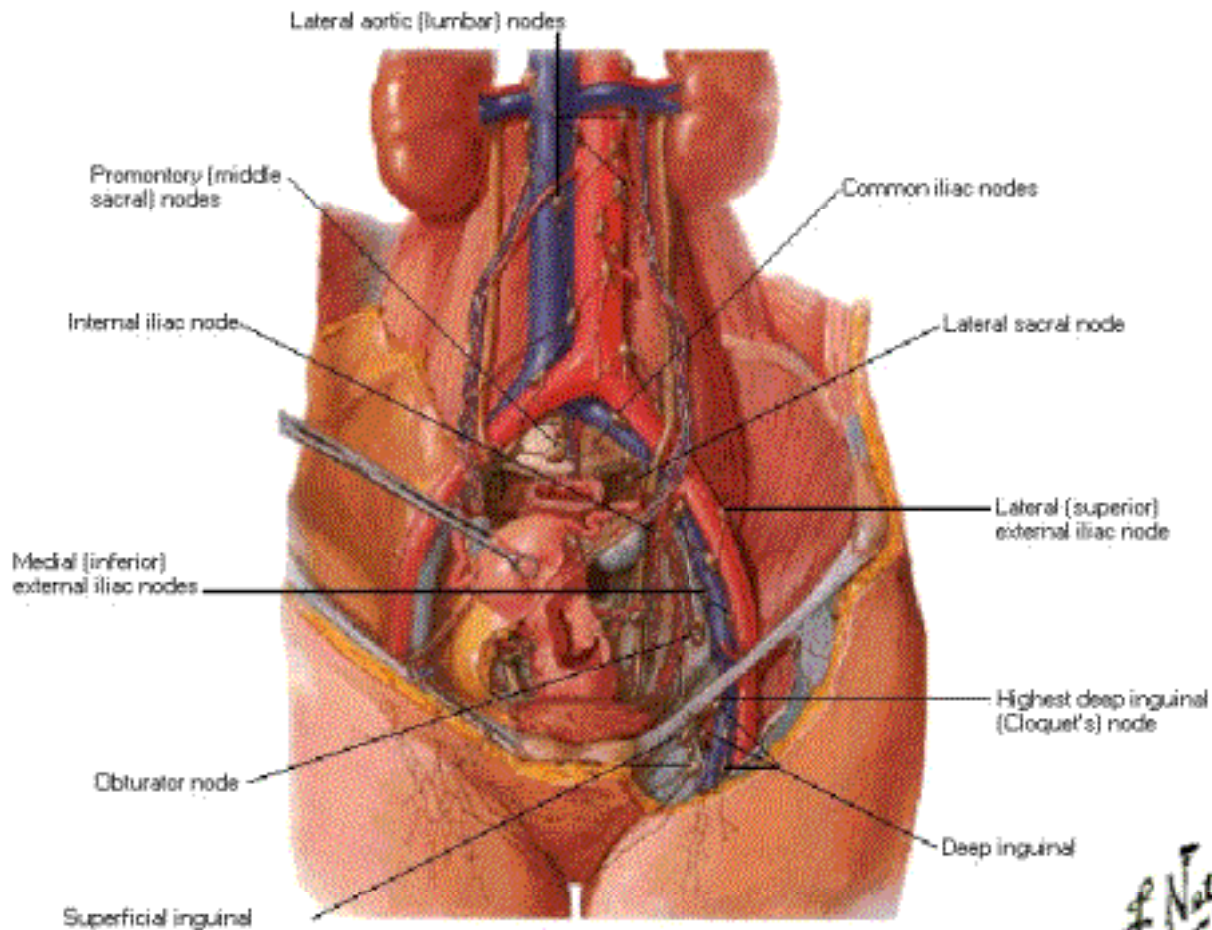
Male



F. Netto  
© Nova

# Lymph Vessels and Nodes of Pelvis and Genitalia

## Female

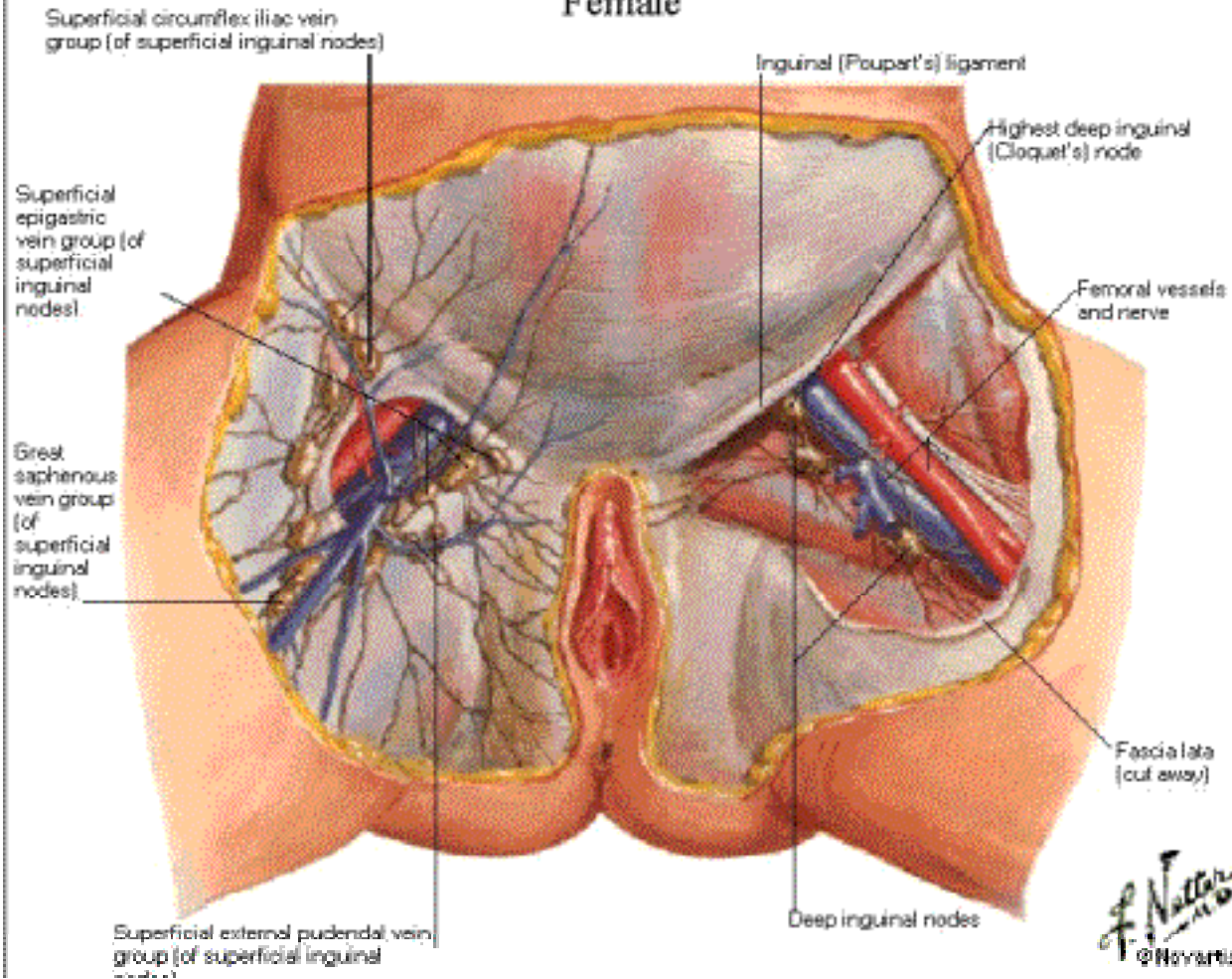




i@

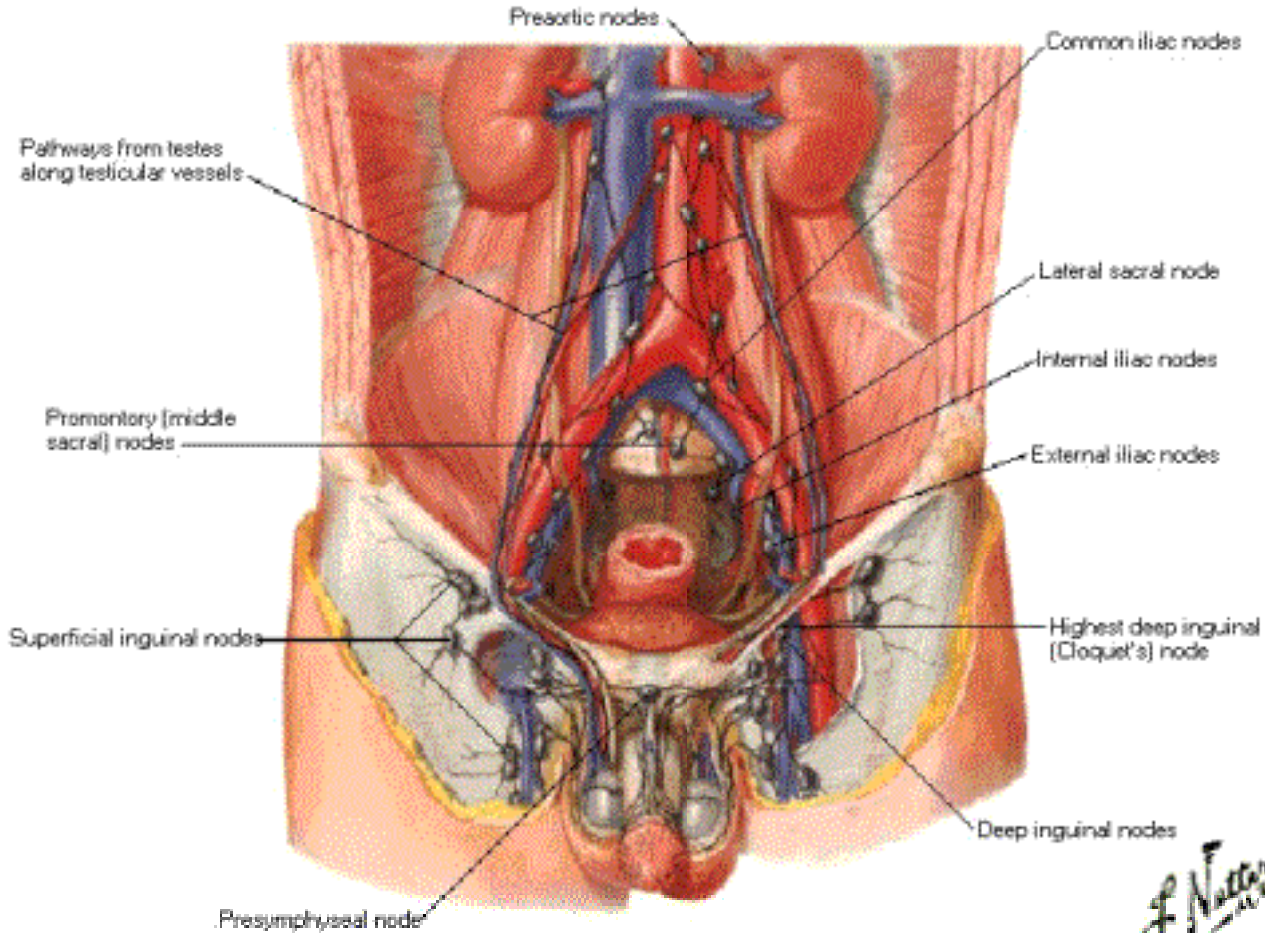
# Lymph Vessels and Nodes of Perineum

Female

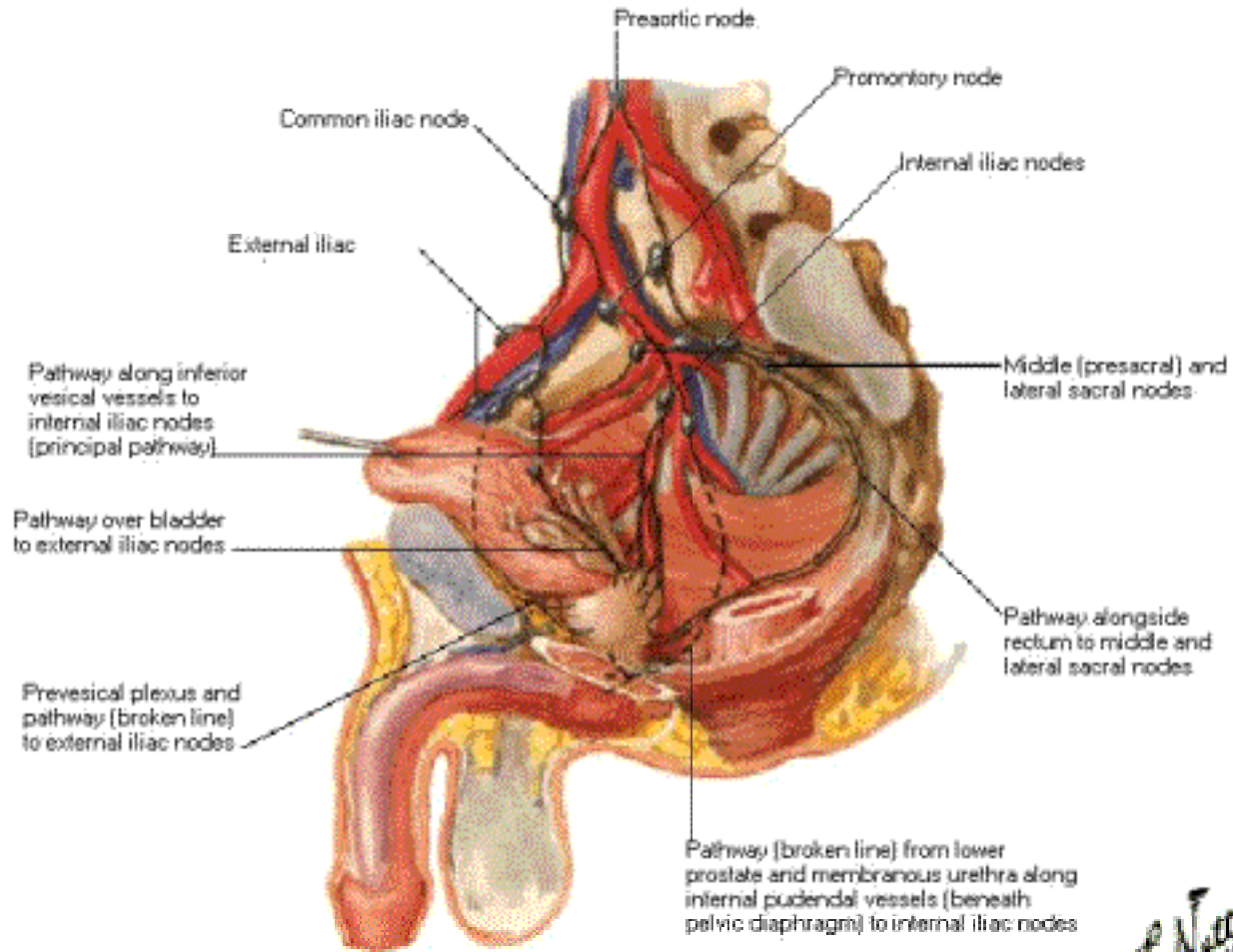


# Lymph Vessels and Nodes of Pelvis and Genitalia

Male

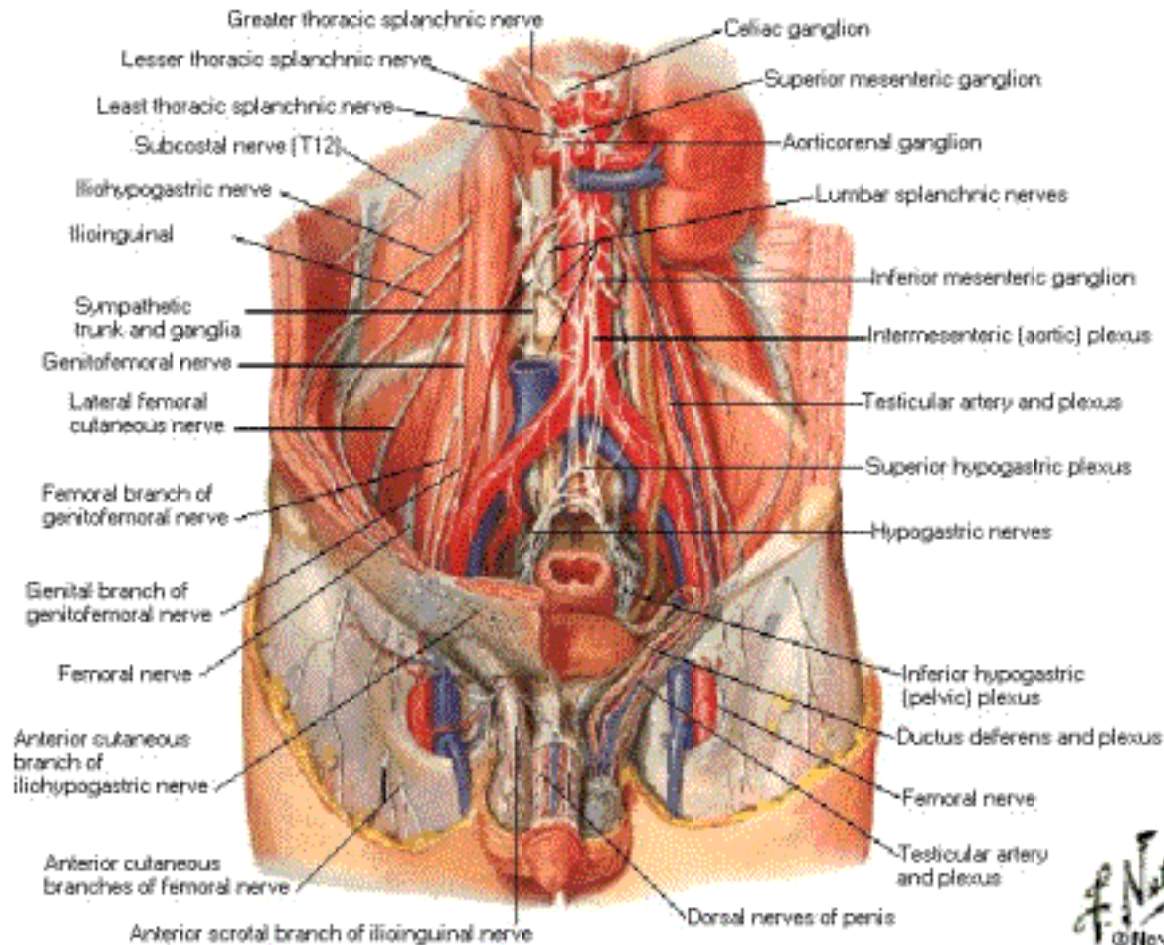


# Lymphatic Drainage from Prostate



# Nerves of External Genitalia

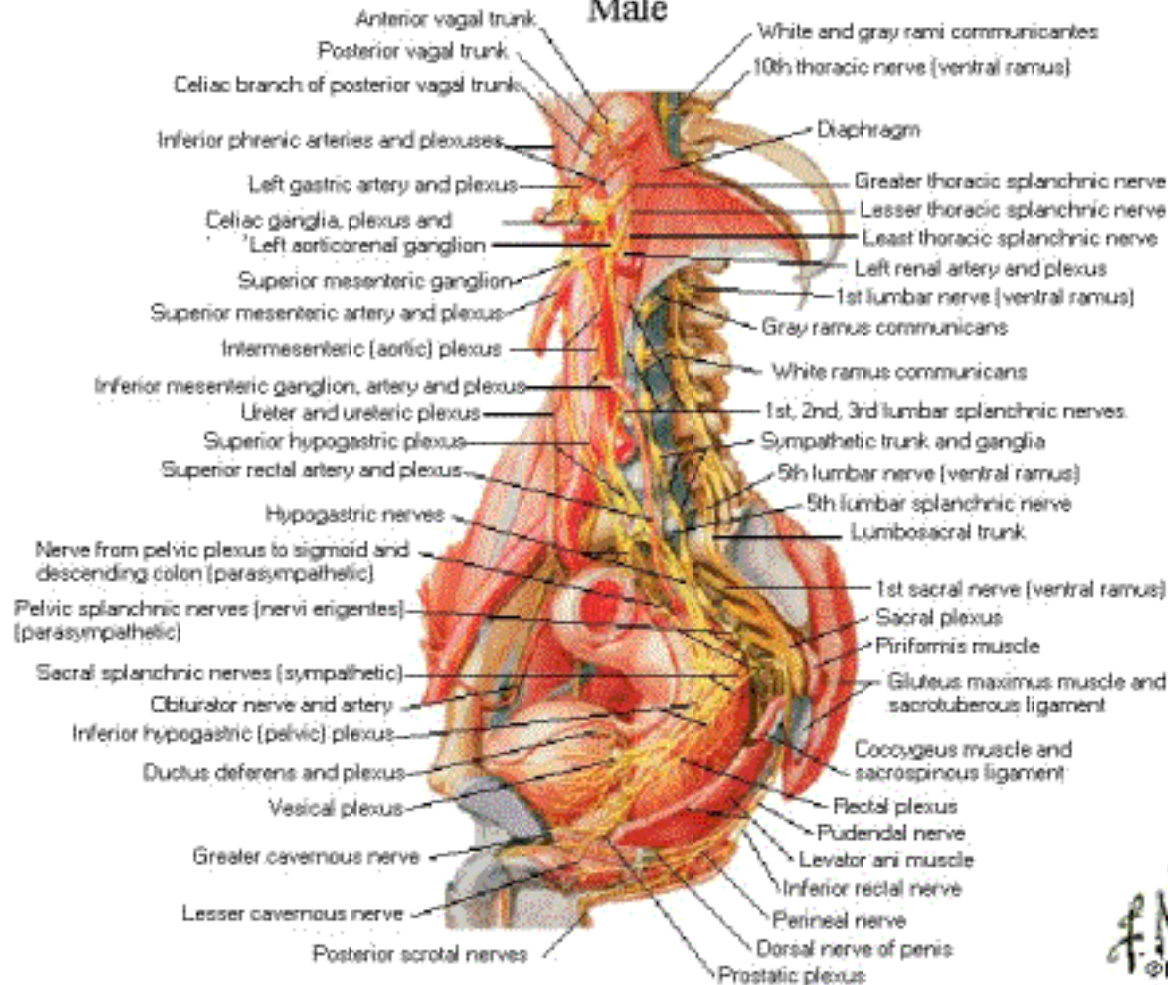
## Male





# Nerves of Pelvic Viscera

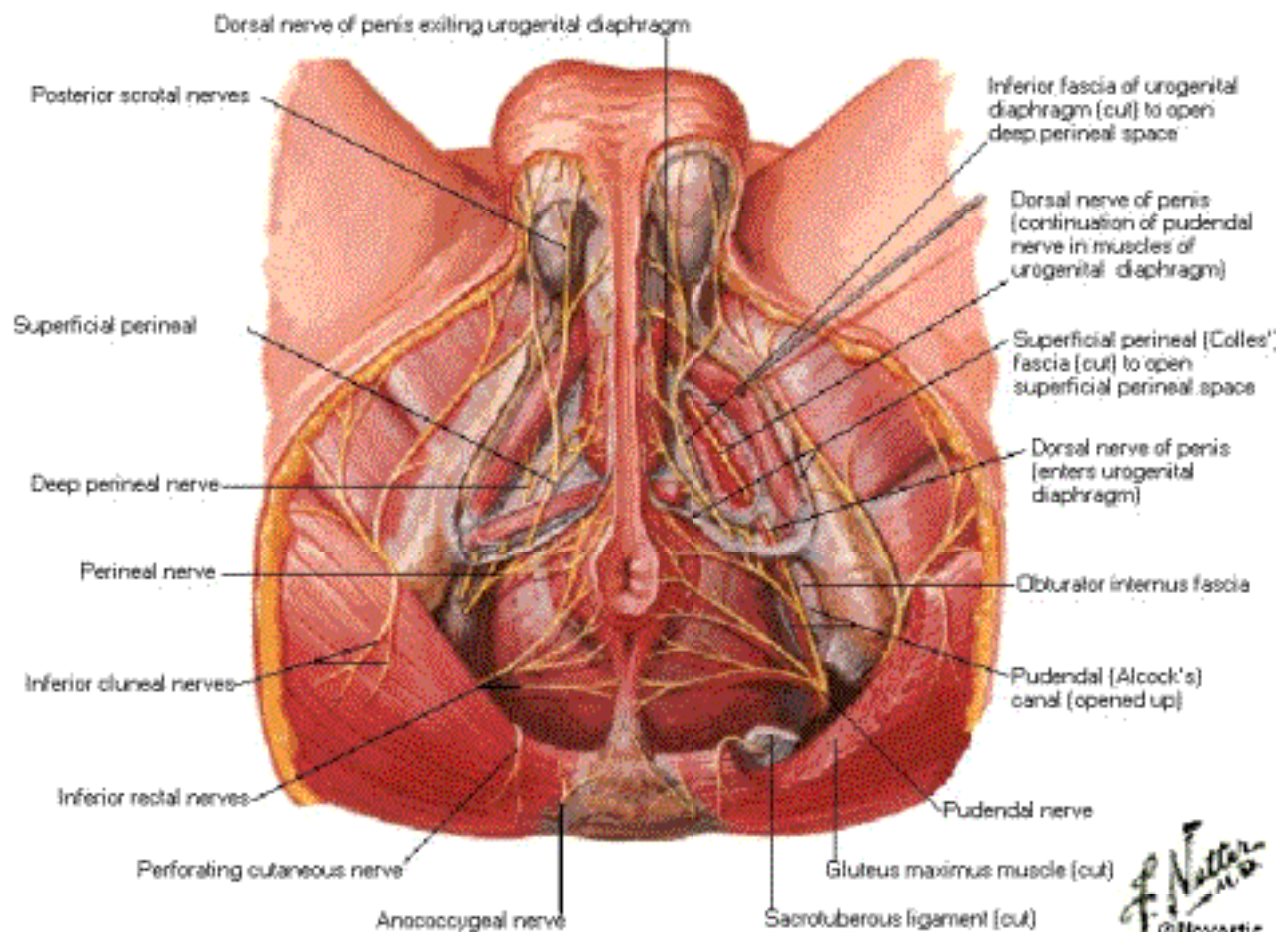
Male



*FN*  
©10

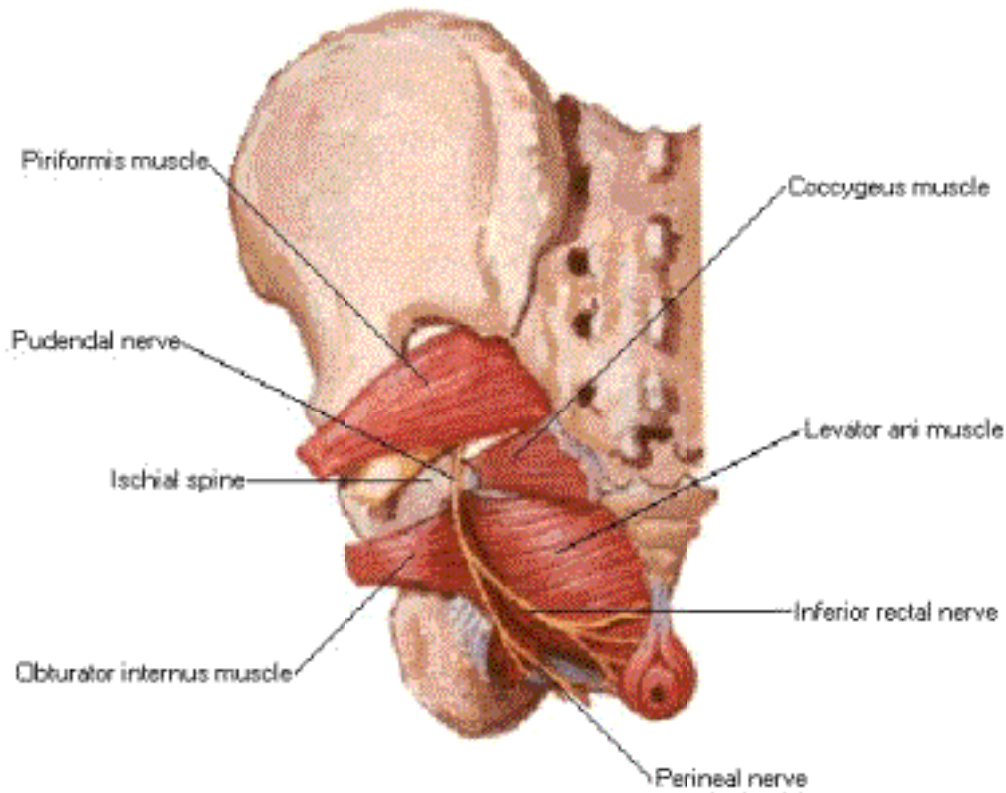
# Nerves of Perineum

## Male - Perineal View



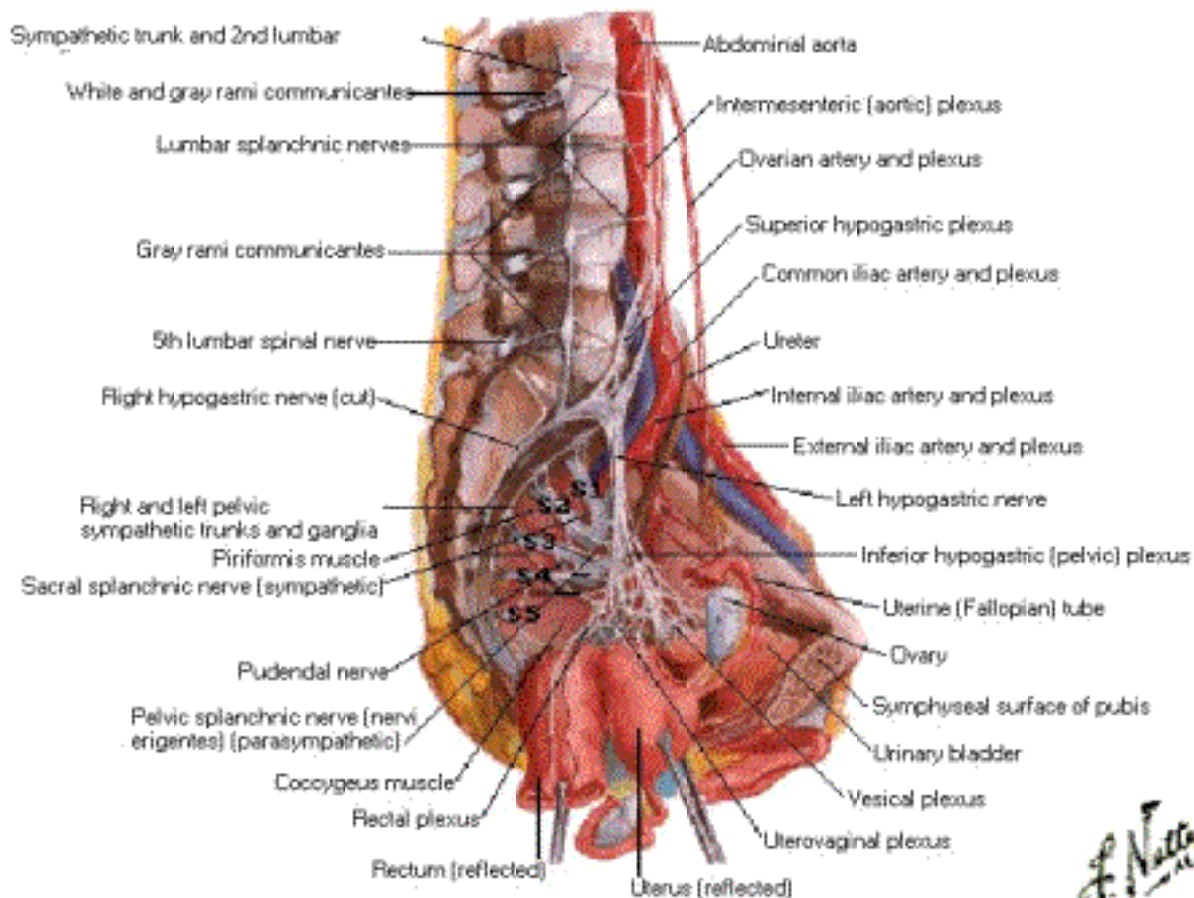
# Nerves of Perineum

## Male - Inferior View



# Nerves of Pelvic Viscera

## Female - Sagittal Section

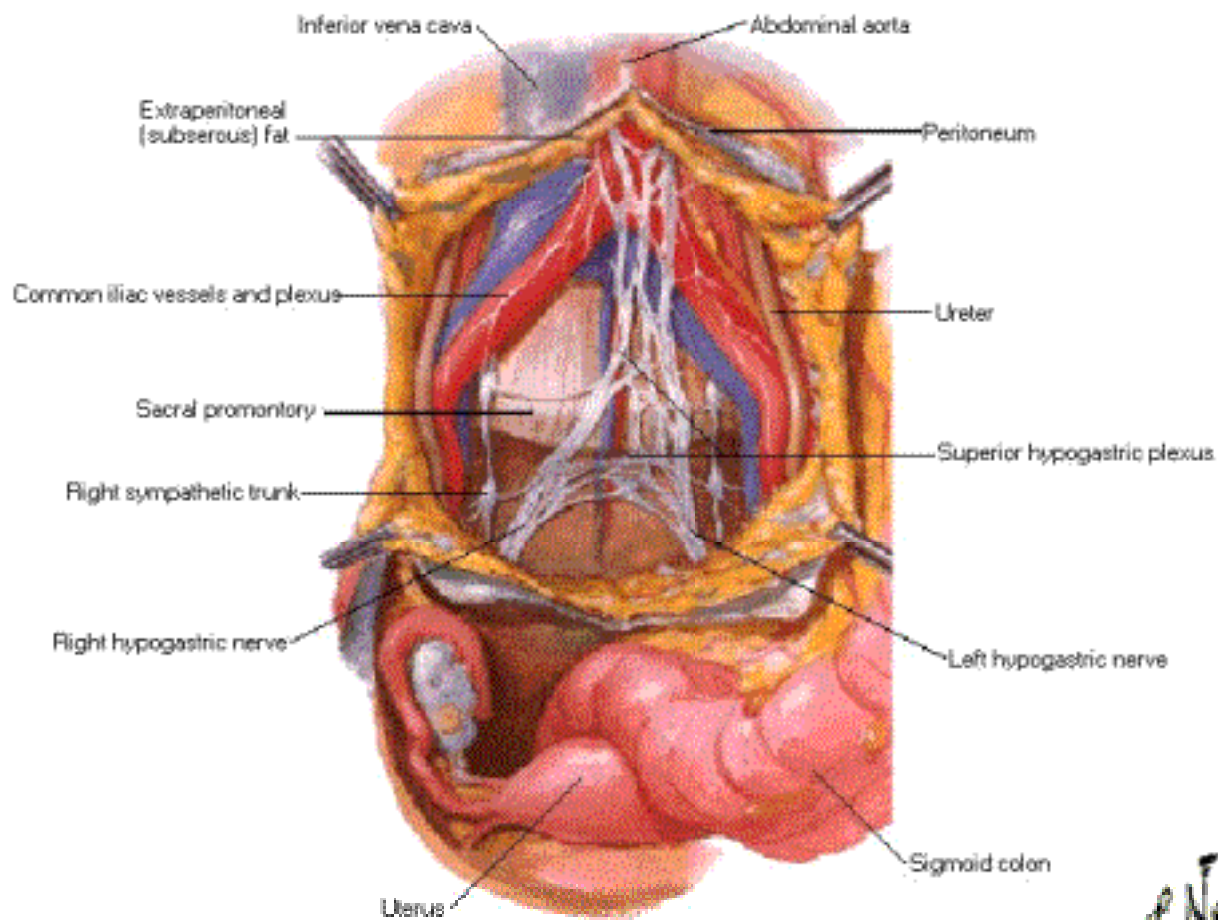


*F. Netto*



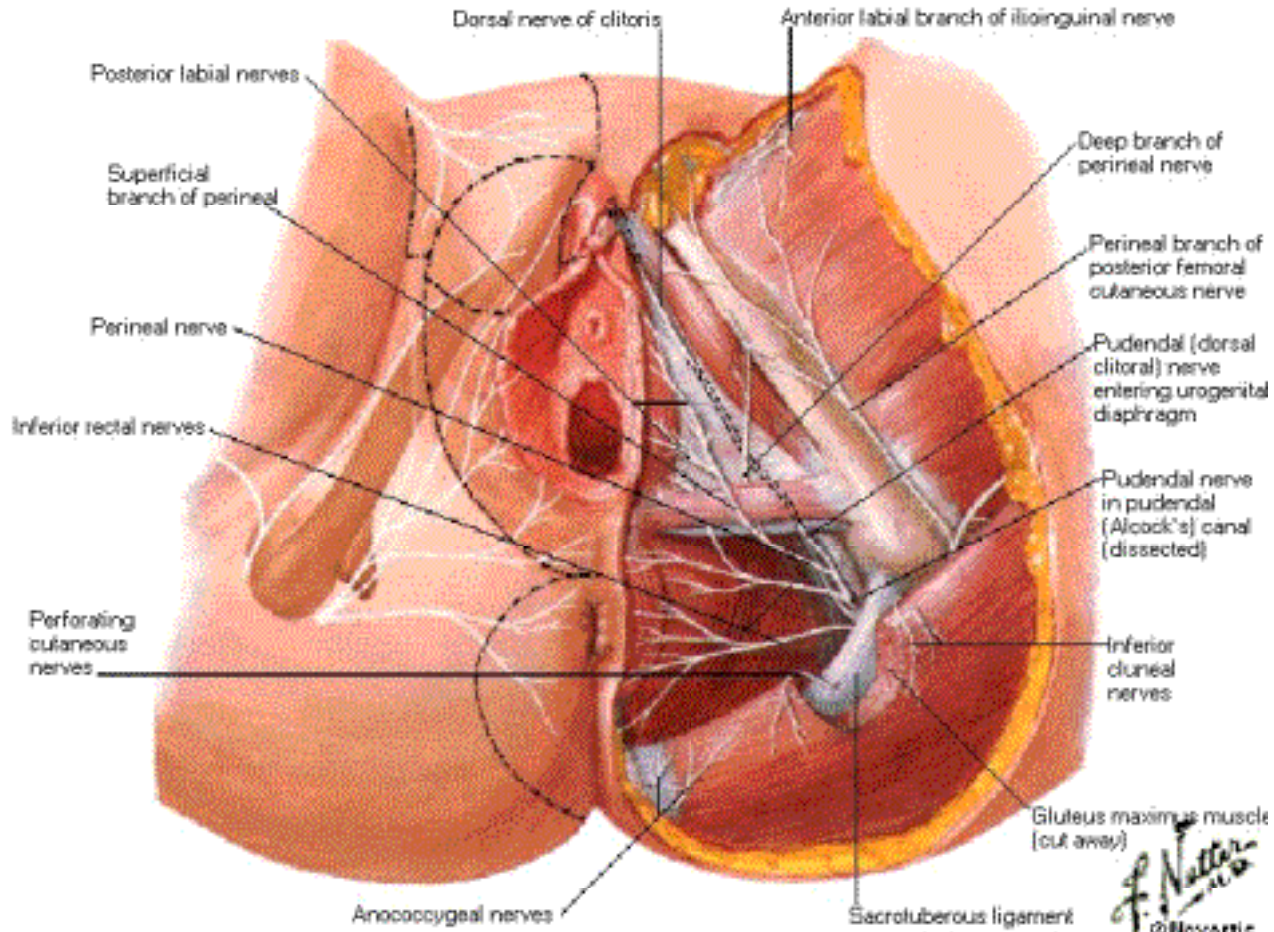
# Nerves of Pelvic Viscera

## Female - Superior View



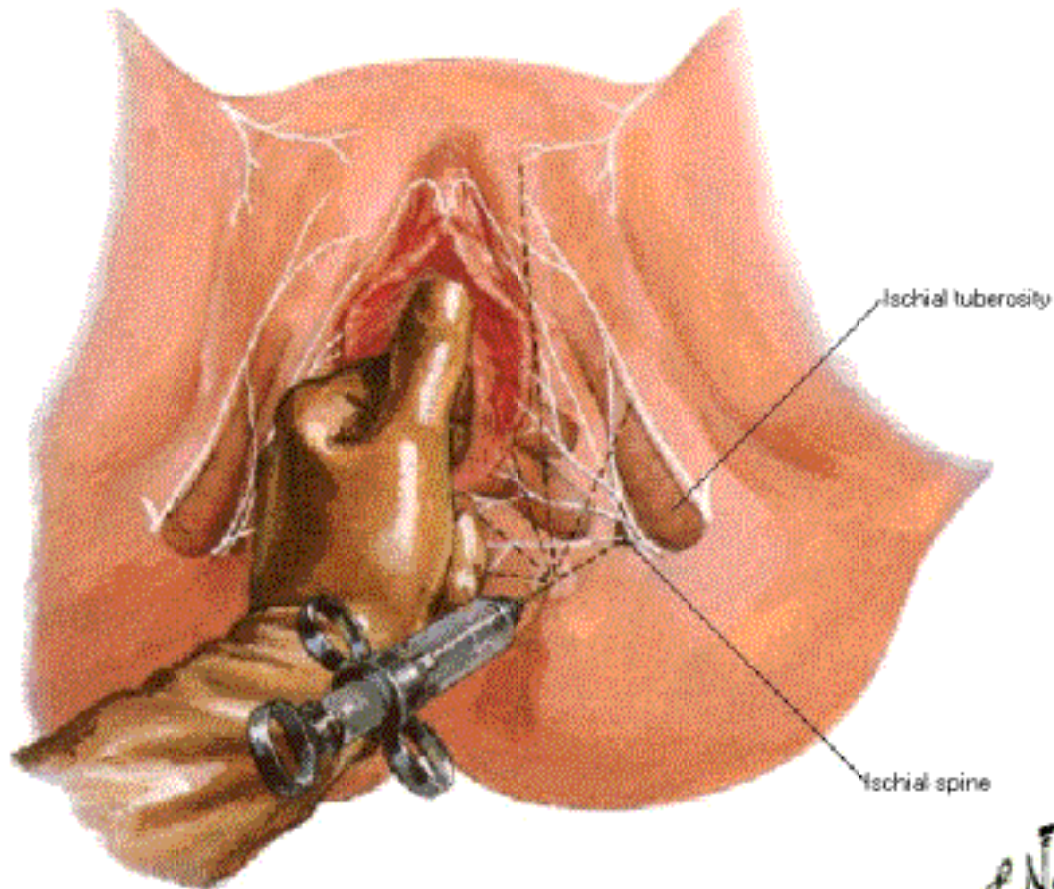
# Nerves of Perineum and External Genitalia

## Female

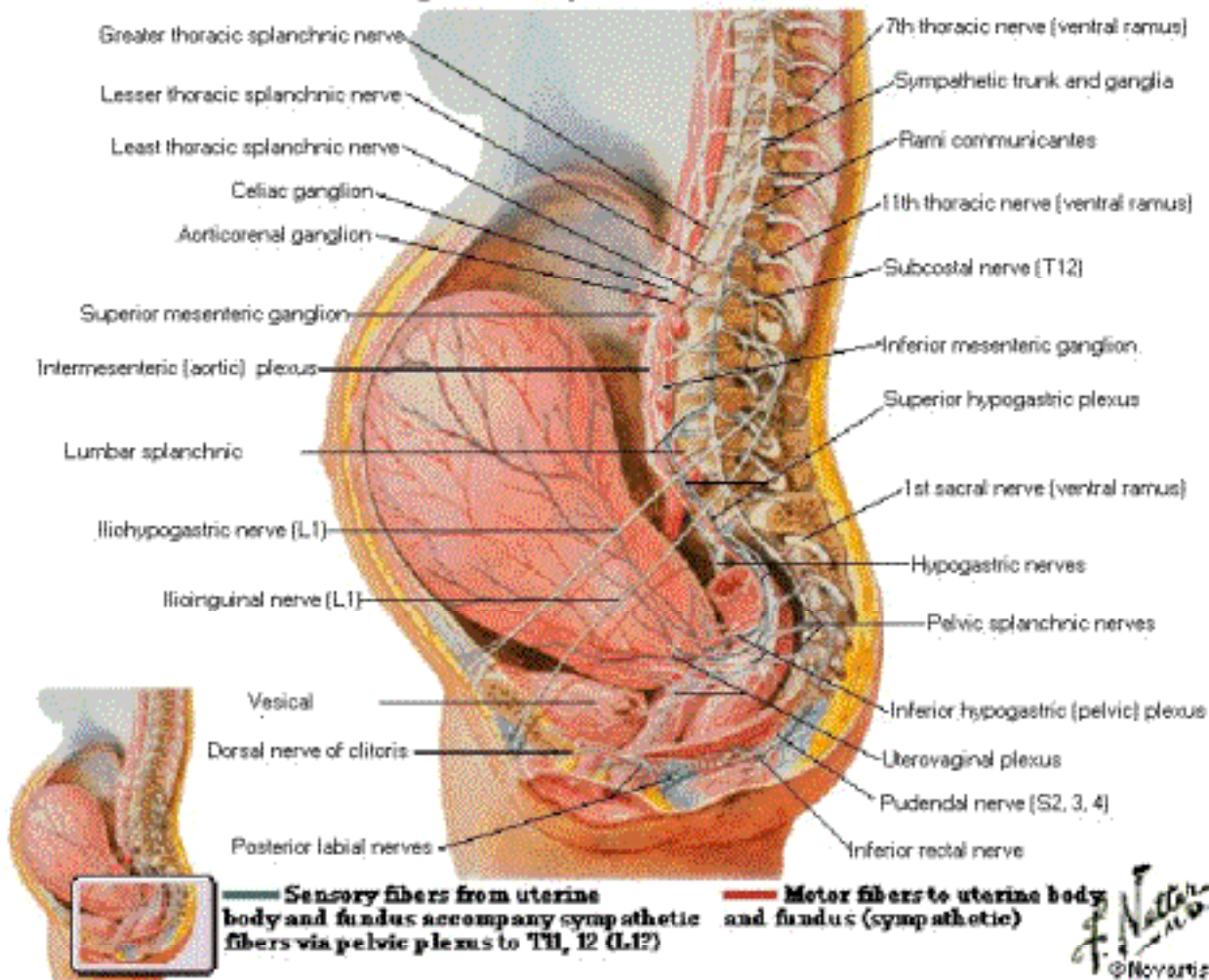


# Block Anesthesia of Perineal Area

Primarily Pudendal Nerve



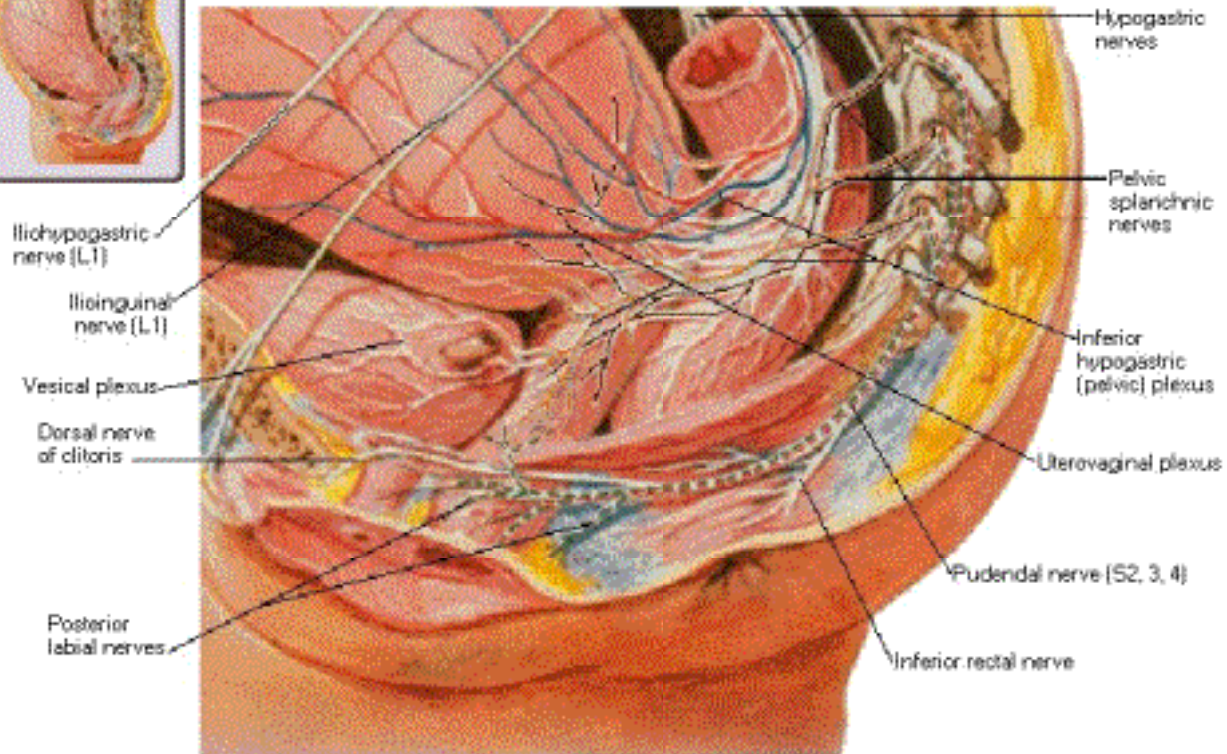
# Neuroanatomy of Parturition











# 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)

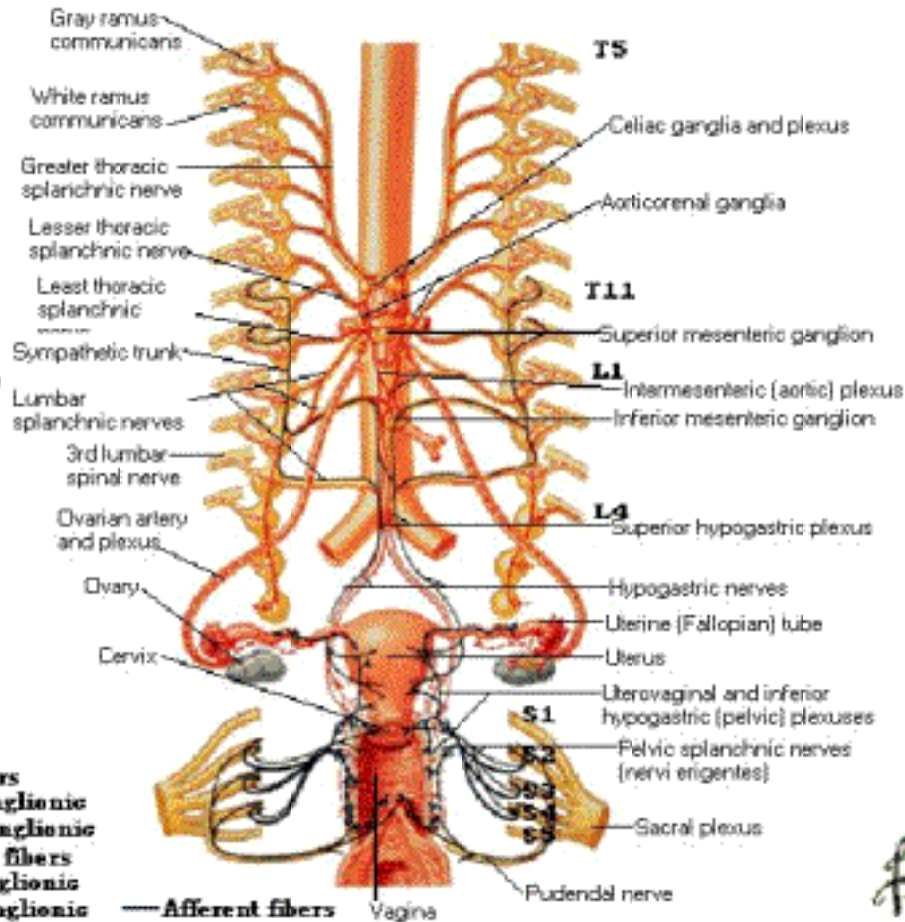
 Sensory fibers from lower vagina and perineum accompany somatic fibers via pudendal nerve to S2, 3, 4  
 Motor fibers to lower vagina and perineum via pudendal nerve: (somatic)

*F. Netter M.D.*  
 © 1994

# Innervation of Female Reproductive Organs Schema

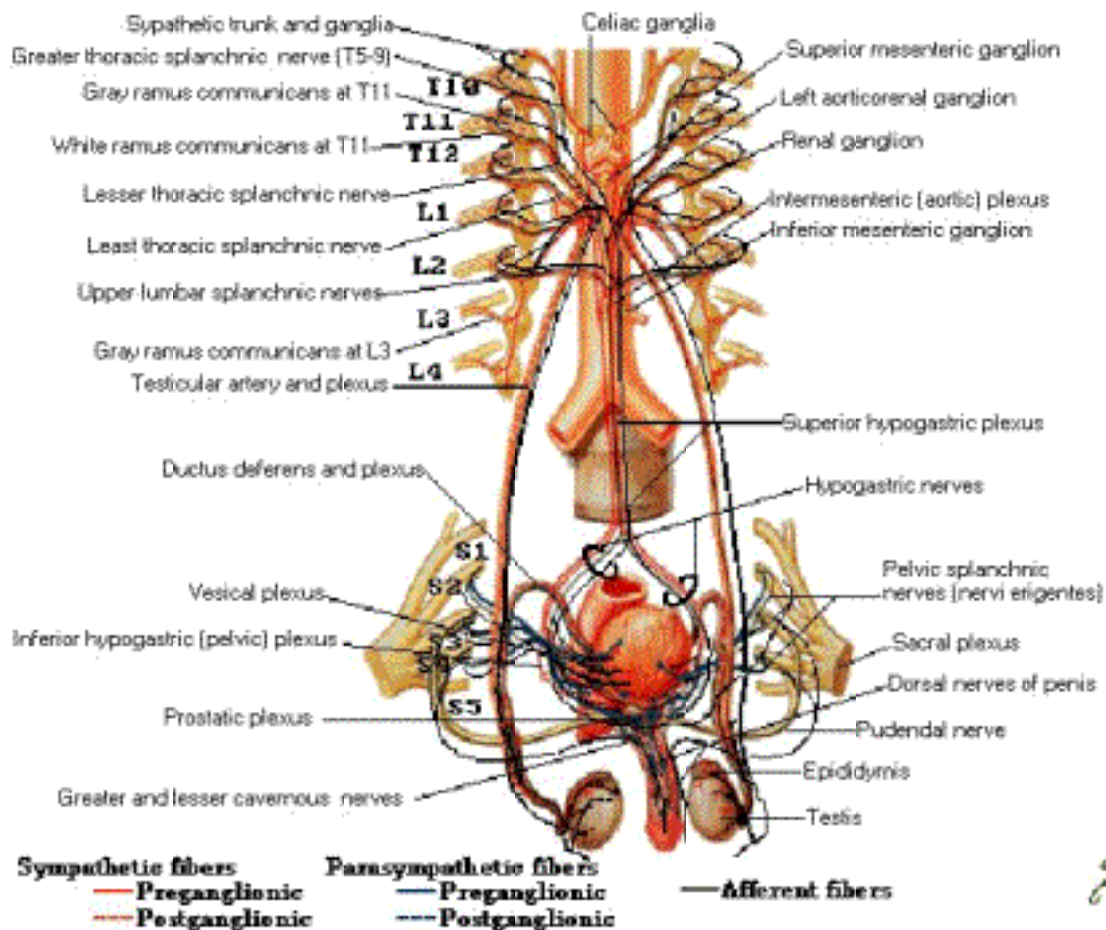
Note: pain of uterine contractions goes via uterovaginal and pelvic plexuses, hypogastric nerves, superior hypogastric plexus, lower aortic plexus, lower lumbar splanchnic nerves, sympathetic trunk from L4 to L5 to spinal nerves T11, 12. Pain from cervical dilatation and upper vagina via pelvic splanchnic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

**Sympathetic fibers**  
— Preganglionic  
- - Postganglionic  
**Parasympathetic fibers**  
— Preganglionic  
- - Postganglionic  
— Afferent fibers



*A*

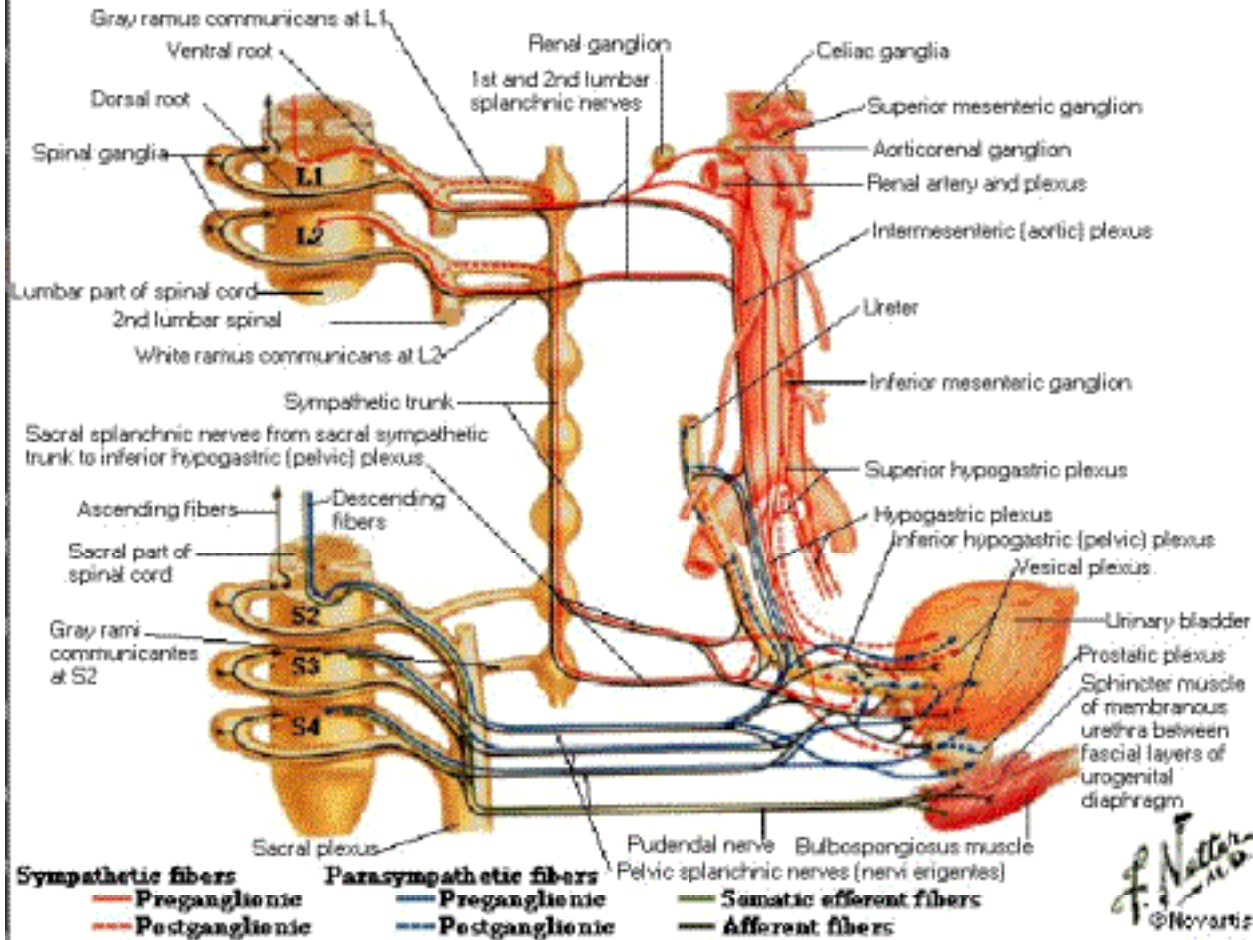
# Innervation of Male Reproductive Organs Schema



A

# Innervation of Urinary Bladder and Lower Ureter

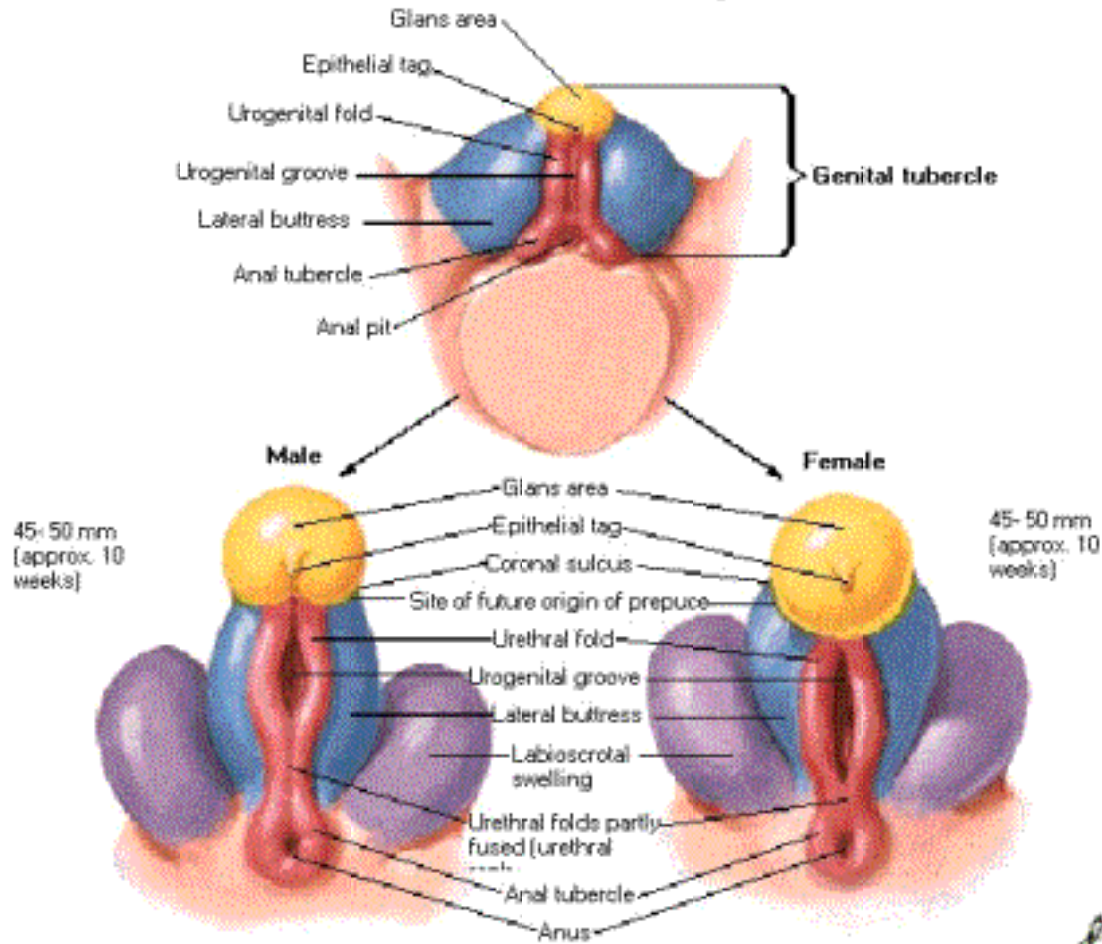
## Schema





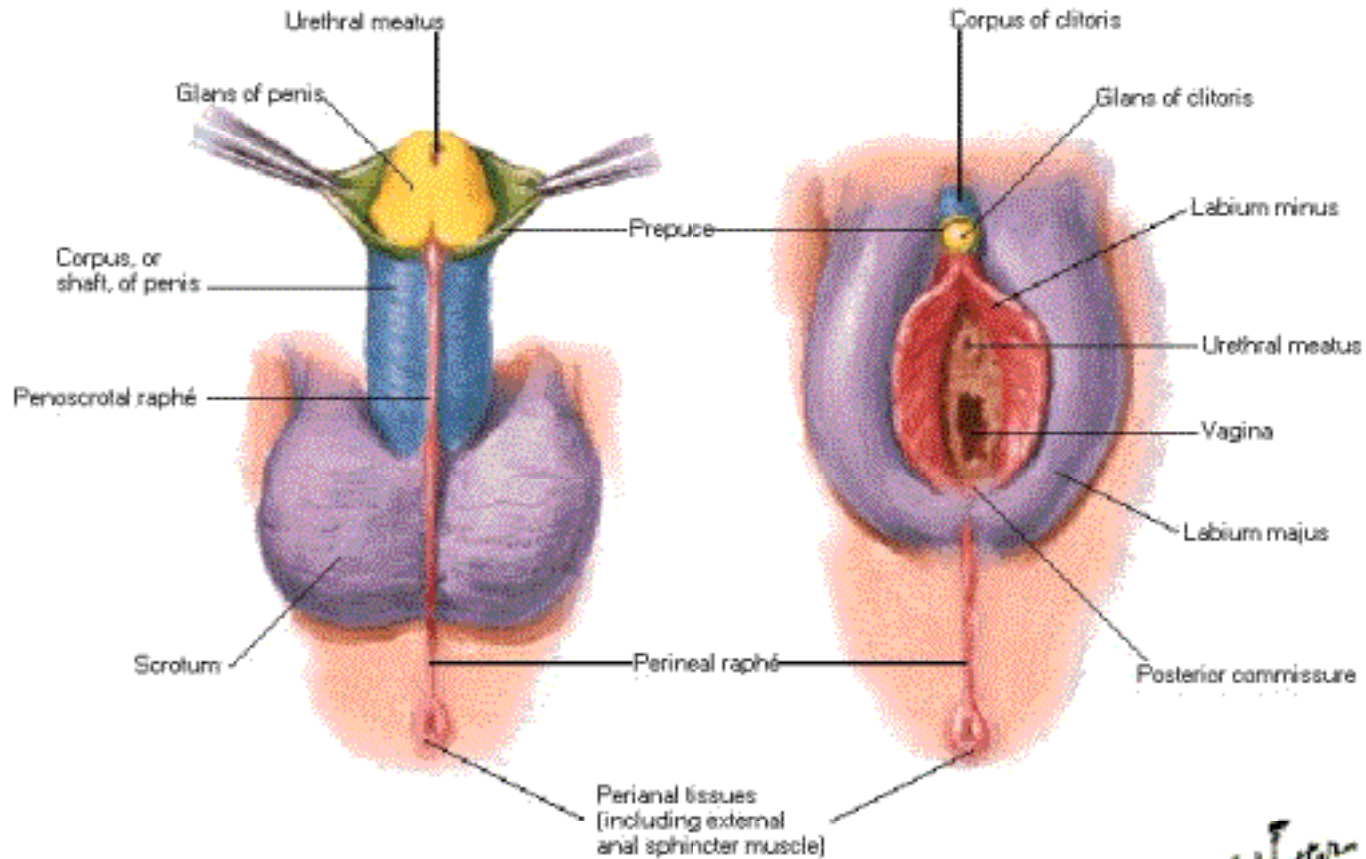
# Homologues of External Genitalia

## Undifferentiated Stage



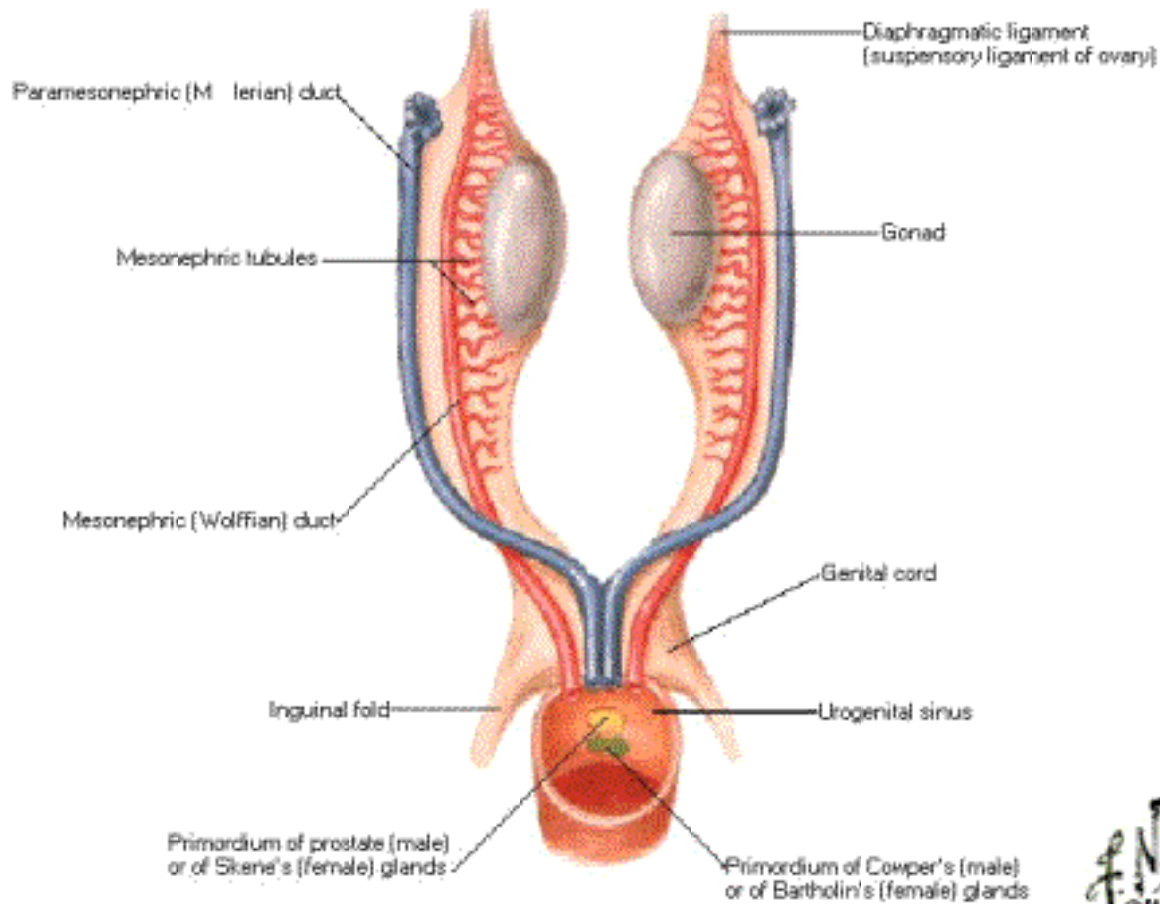
# Homologues of External Genitalia

Fully Developed Male and Female



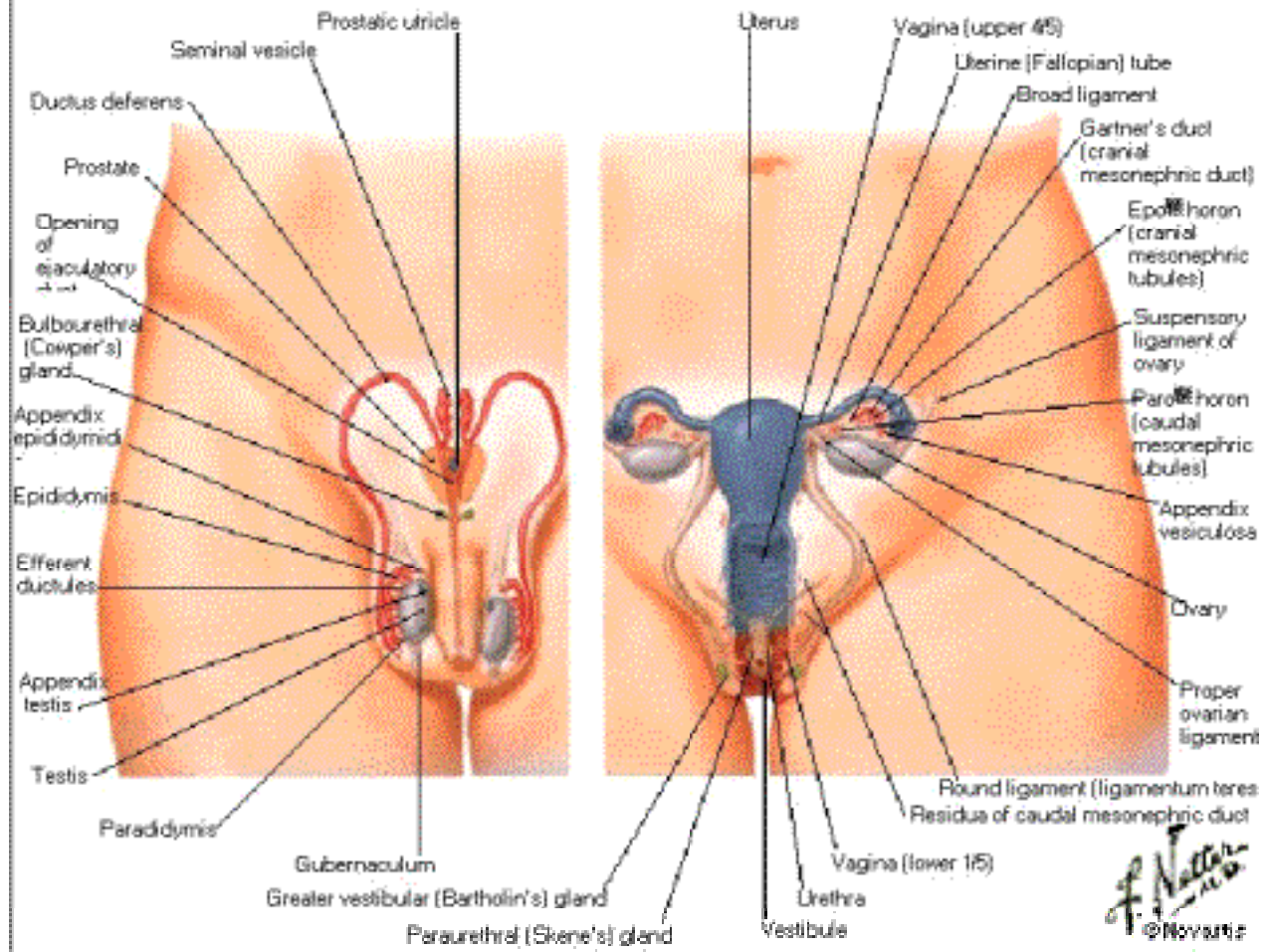
# Homologues of Internal Genitalia

## Undifferentiated Stage



# Homologues of Internal Genitalia

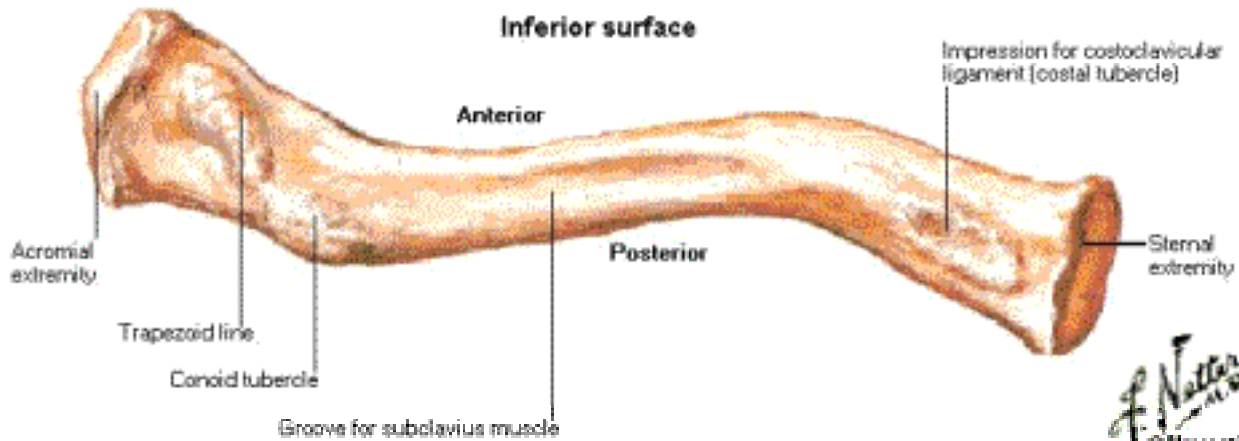
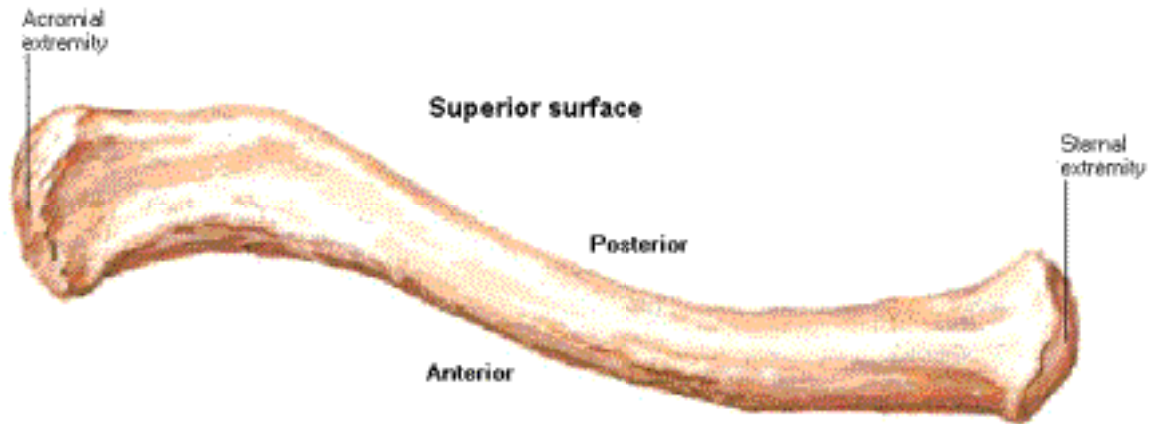
## Fully Developed Male and Female



*F. Netter M.D.*  
© 1996

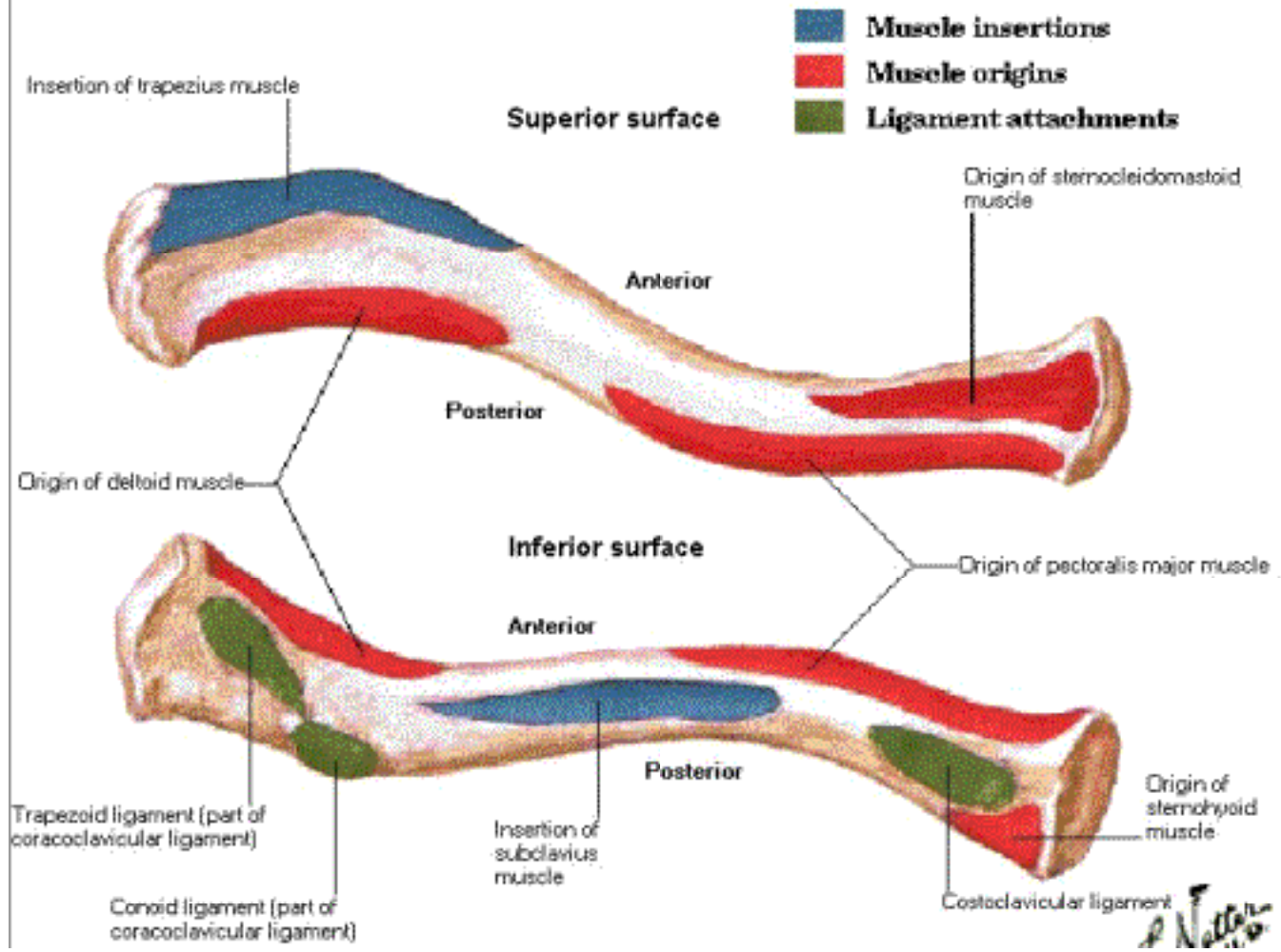


# Right Clavicle - Features

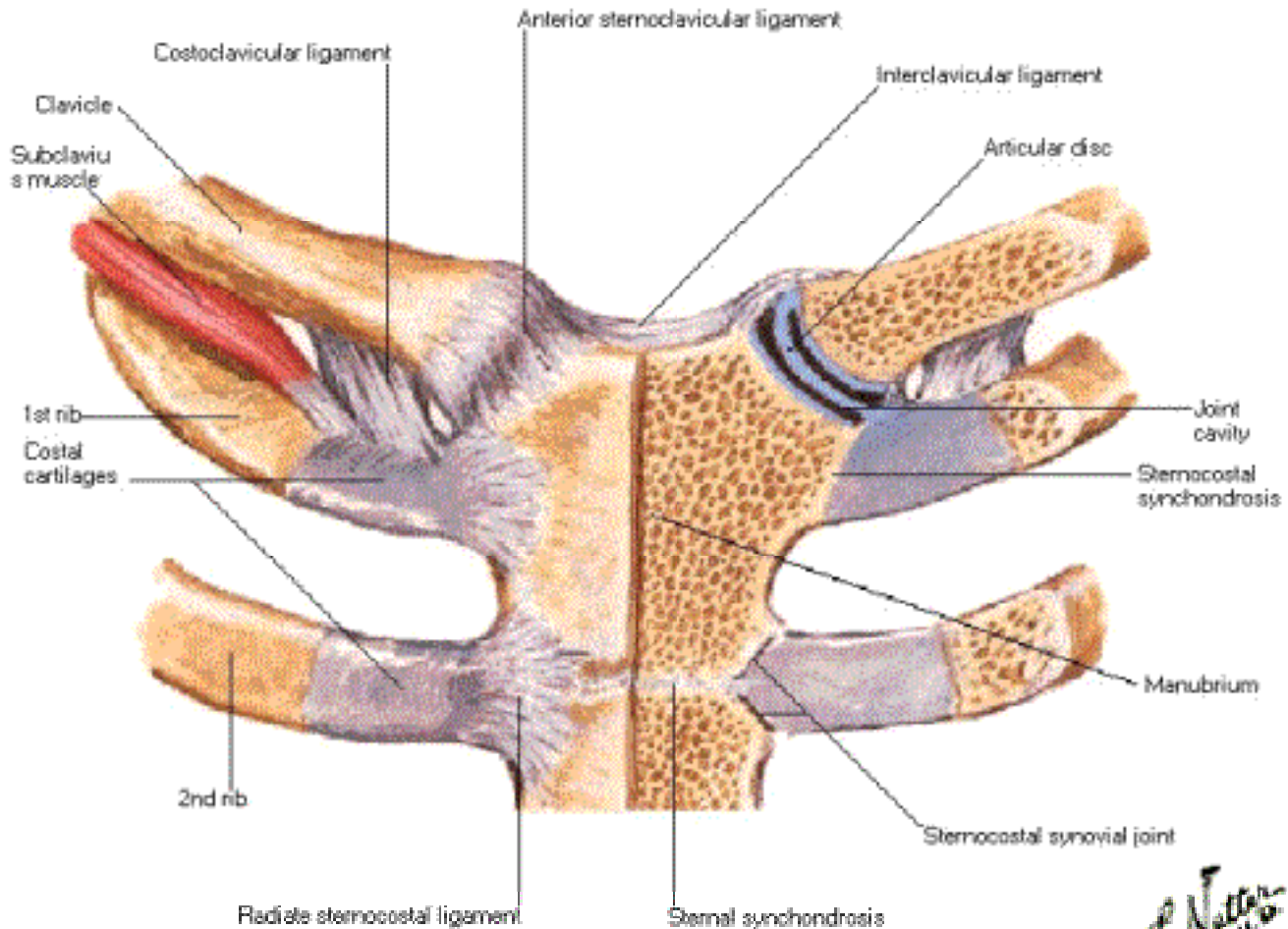


F. Netter  
M.D.  
© 1989

# Right Clavicle - Muscle Attachments

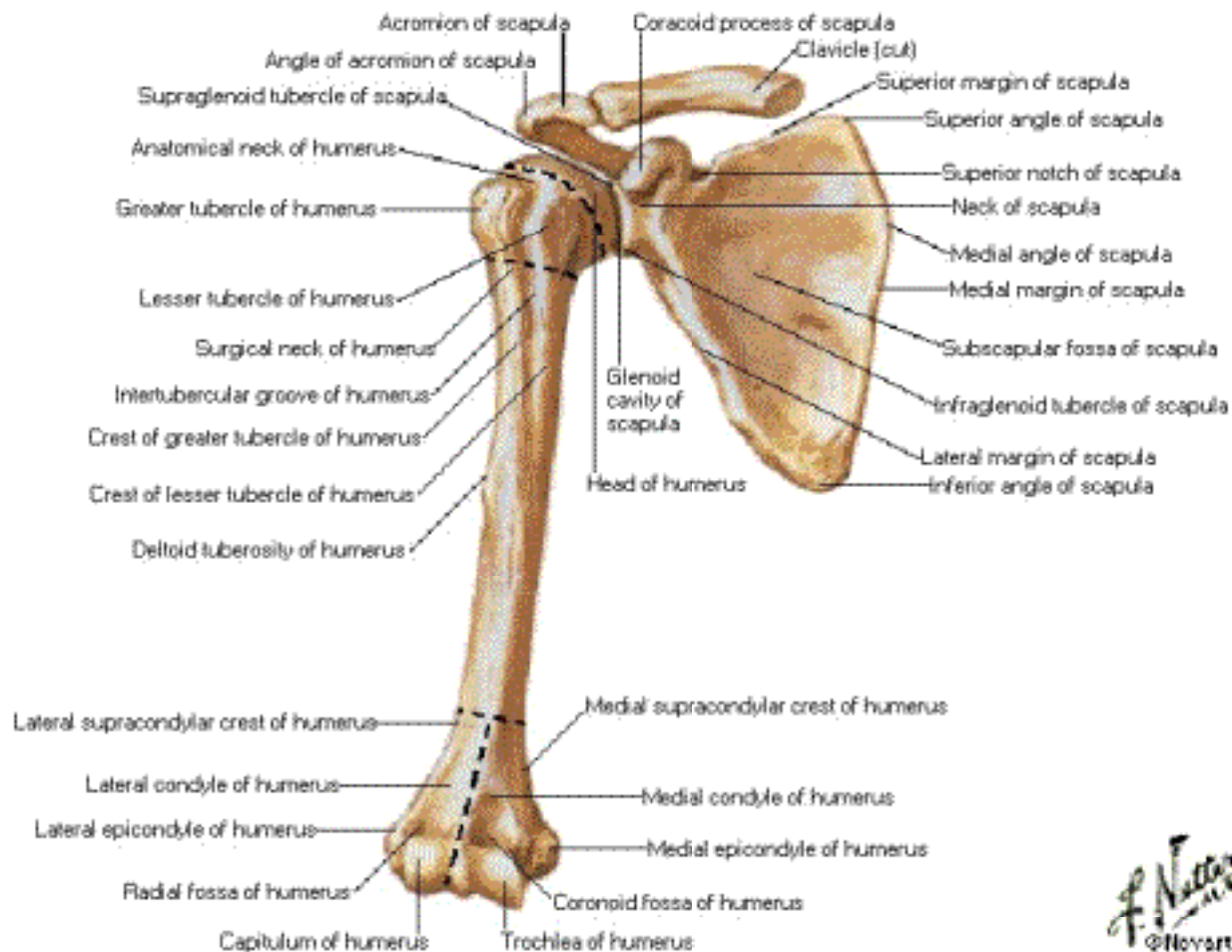


# Sternoclavicular Joint



# Humerus and Scapula

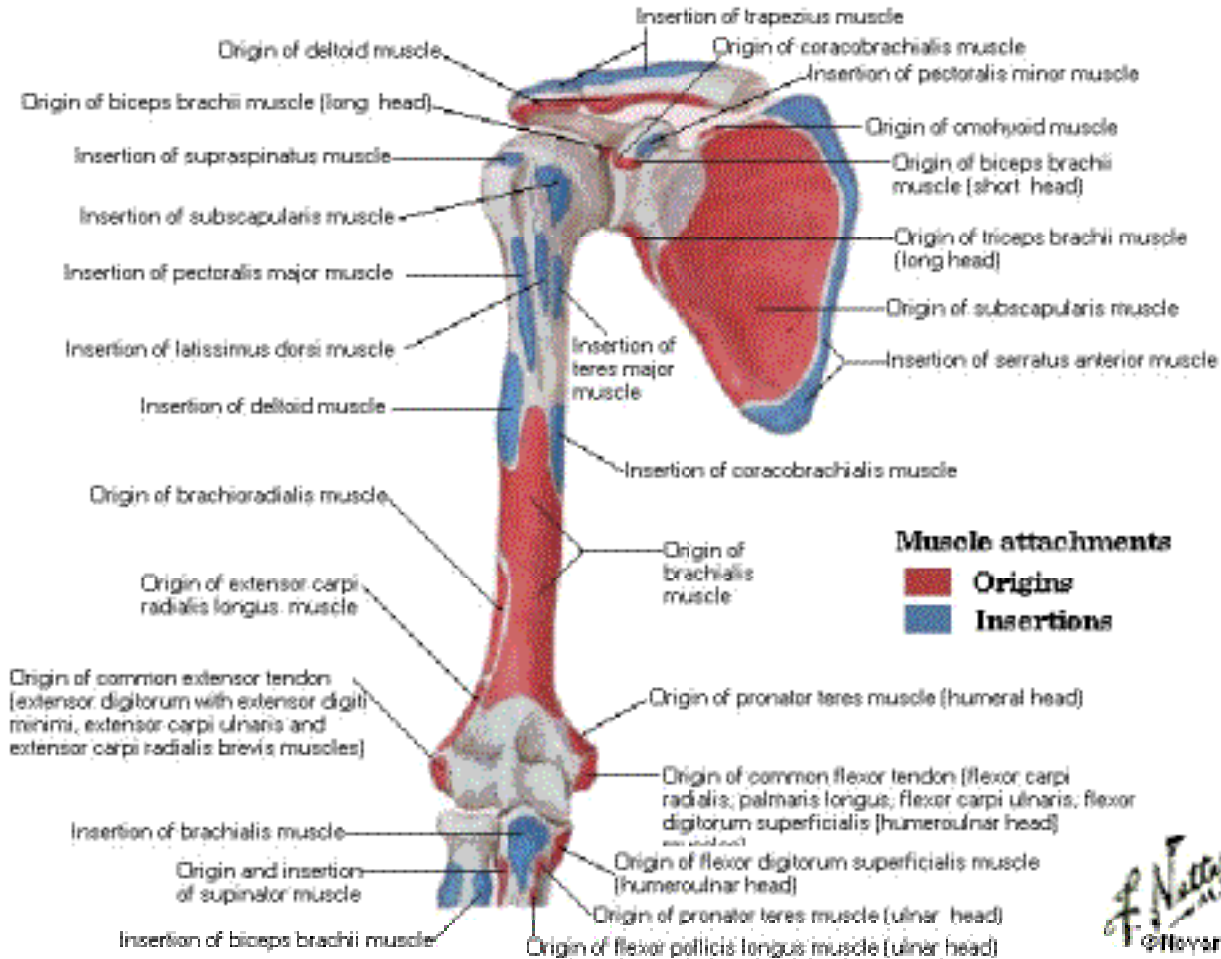
## Anterior View - Features





# Humerus and Scapula

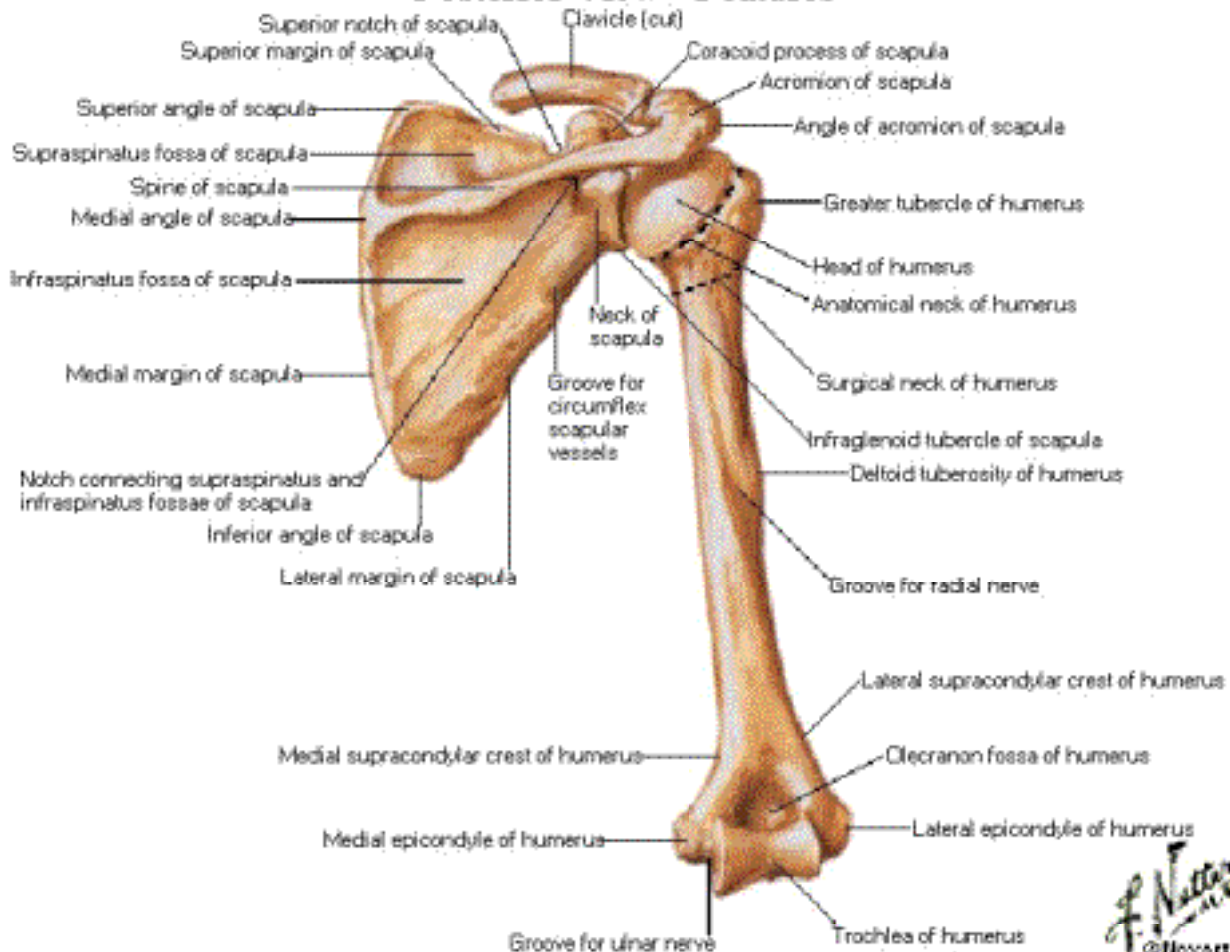
## Anterior View - Muscle Attachments



*F. Netter M.D.*  
© Elsevier

# Humerus and Scapula

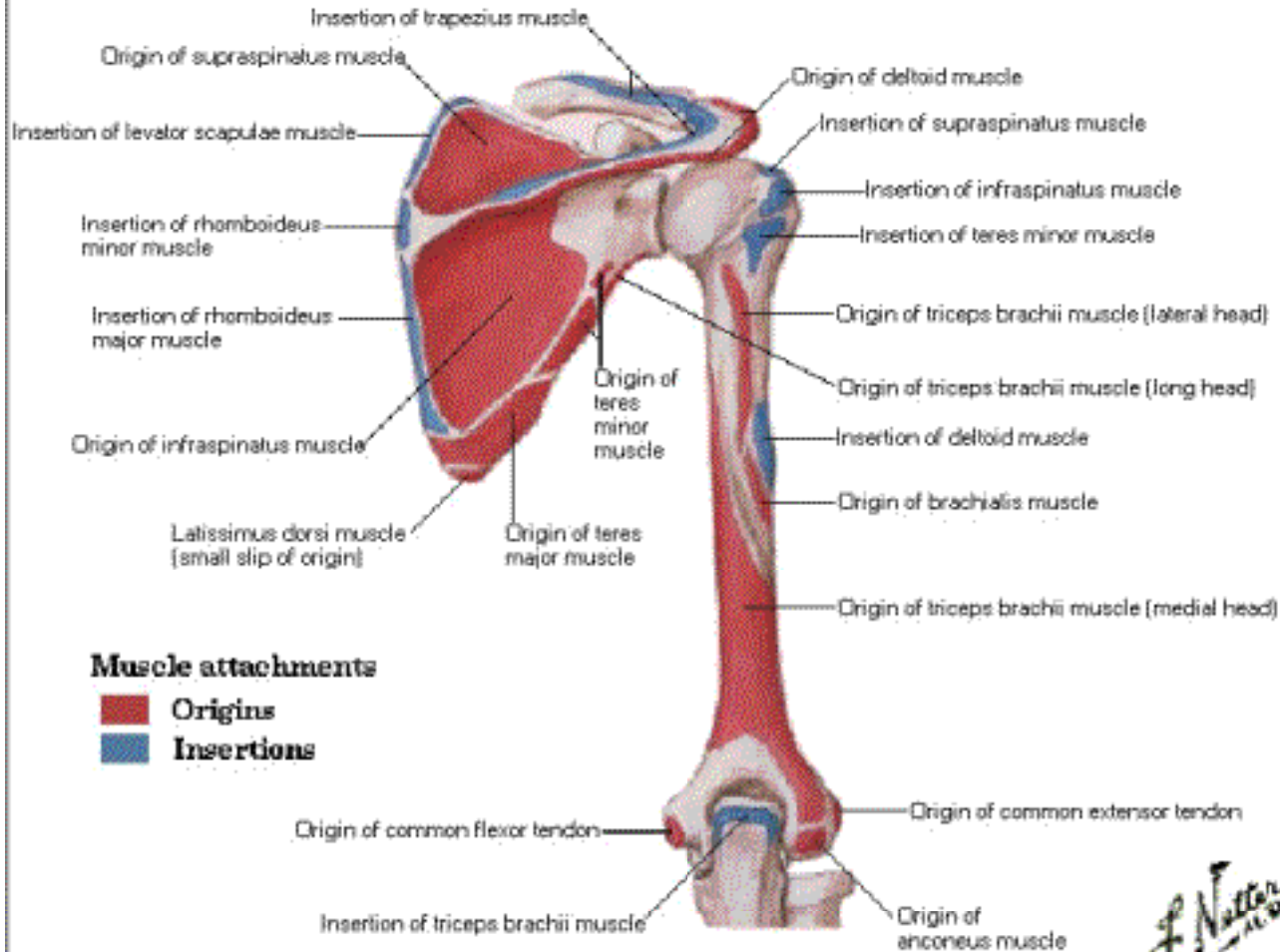
## Posterior View - Features



*F. Netter*  
© Hovart

# Humerus and Scapula

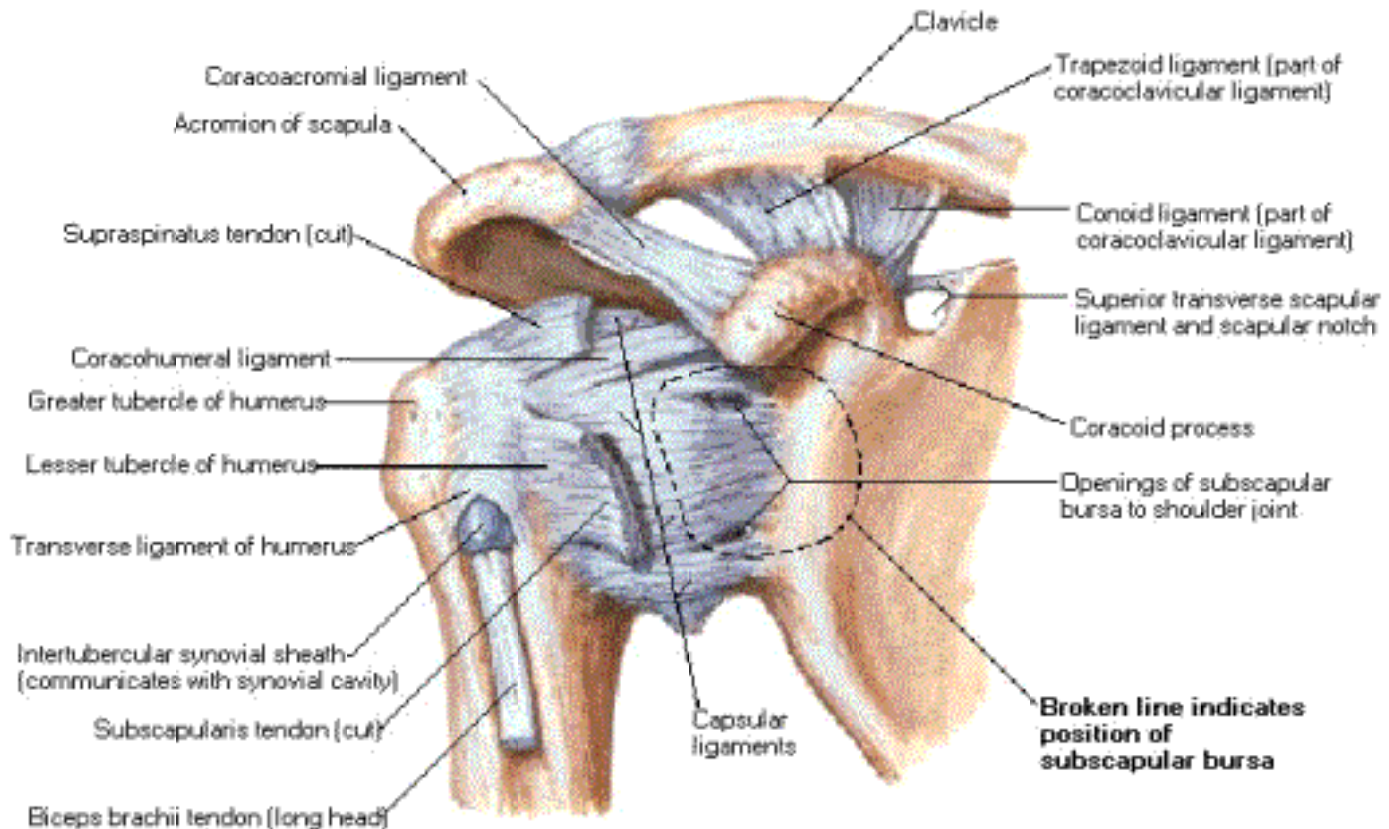
## Posterior View - Muscle Attachments



*F. Netter M.D.*

# Glenohumeral Joint

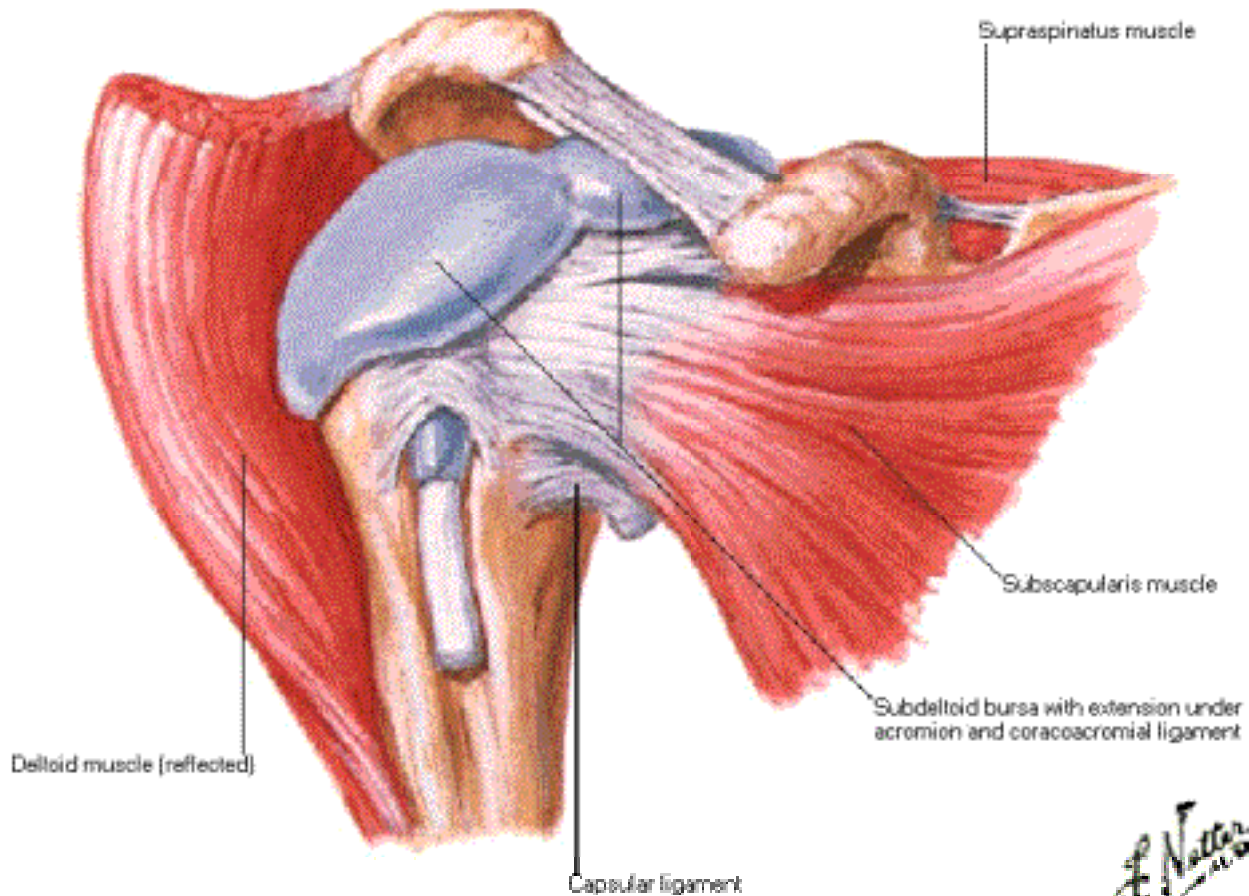
## Anterior View - Tendons and Ligaments





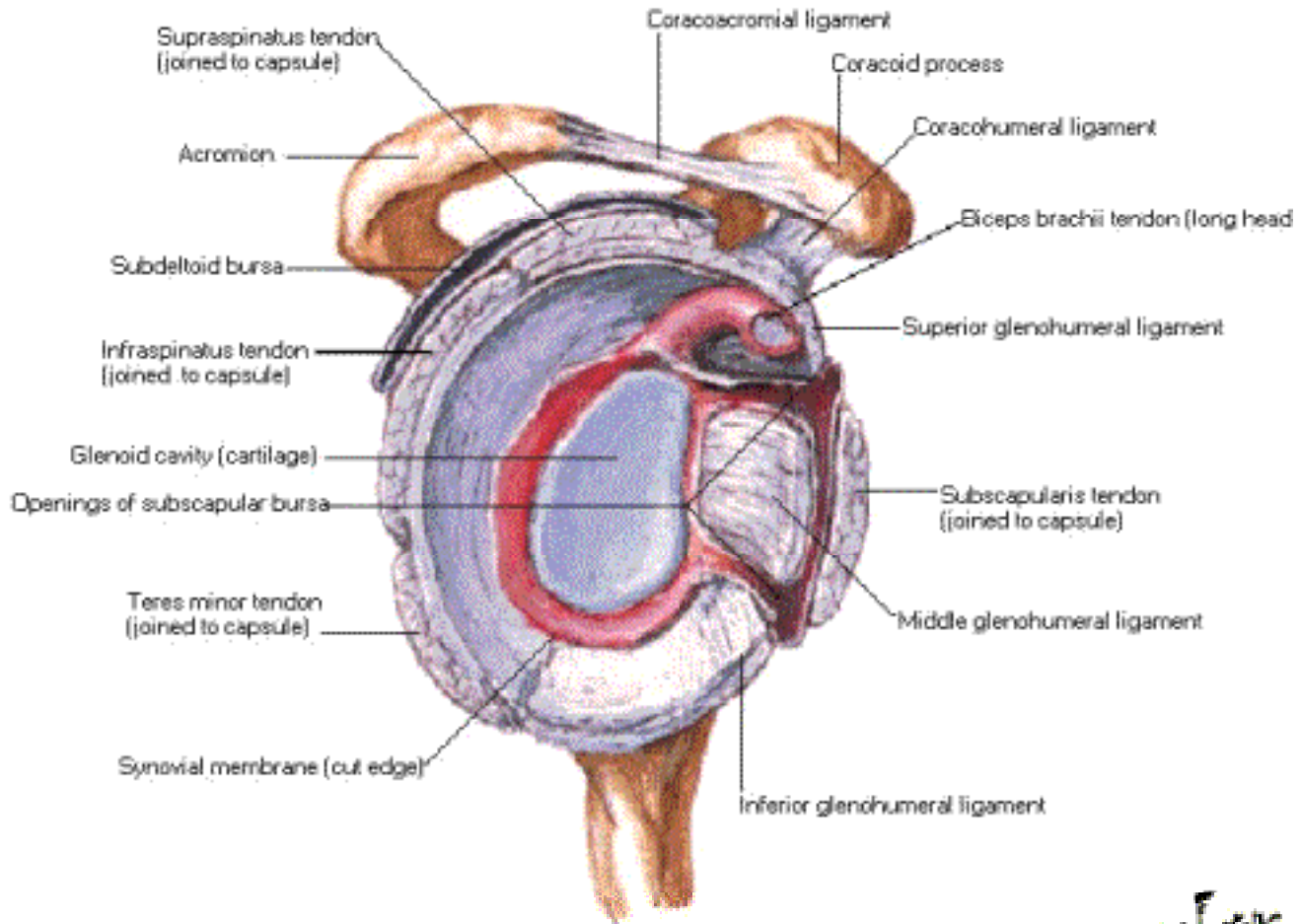
# Glenohumeral Joint

## Anterior View - Supporting Muscles



# Glenohumeral Joint [Opened]

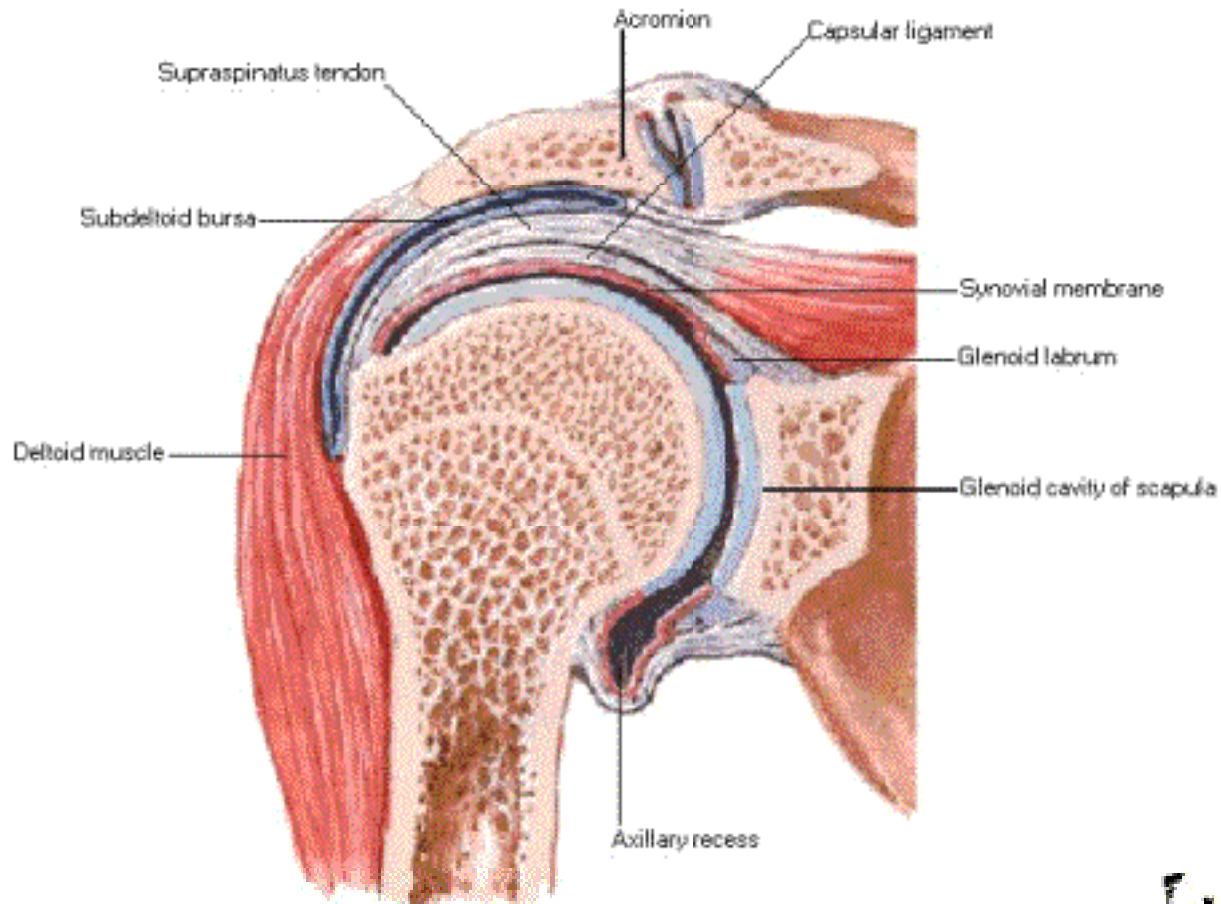
## Lateral View



Dr. J. K. ...

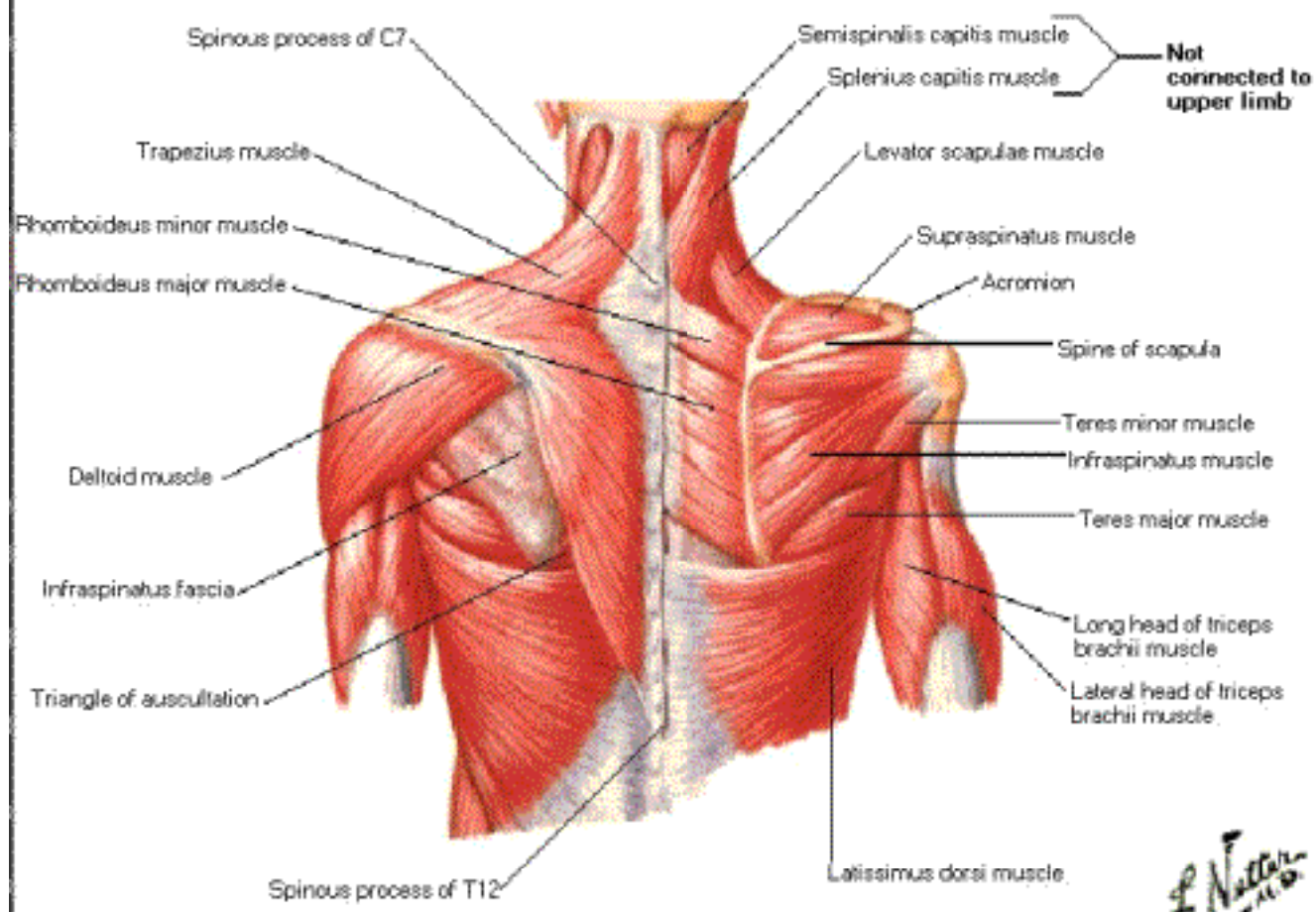
# Glenohumeral Joint

## Coronal Section through Joint.



# Muscles of Shoulder

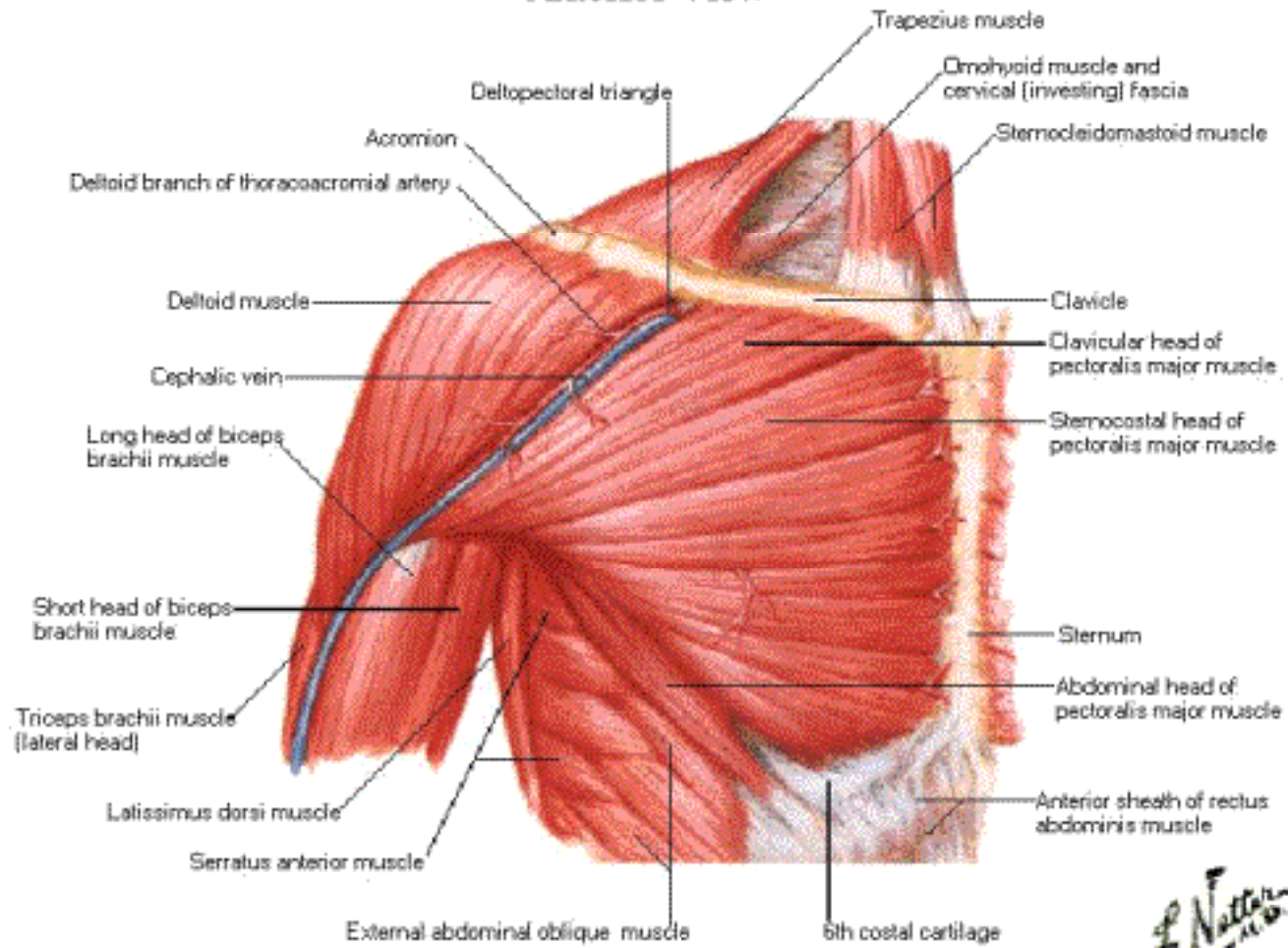
## Posterior View





# Muscles of Shoulder

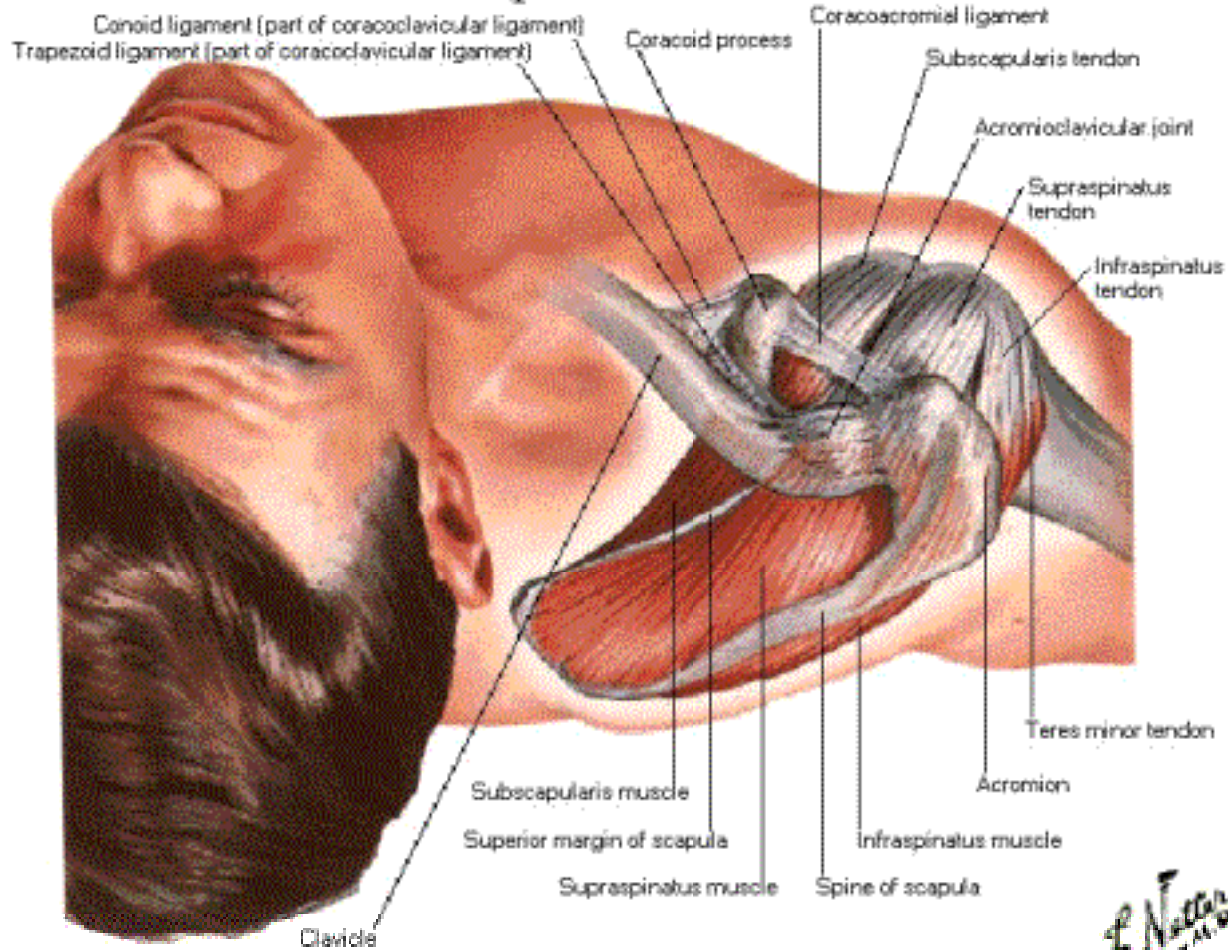
## Anterior View



*L. Nelson*  
2016

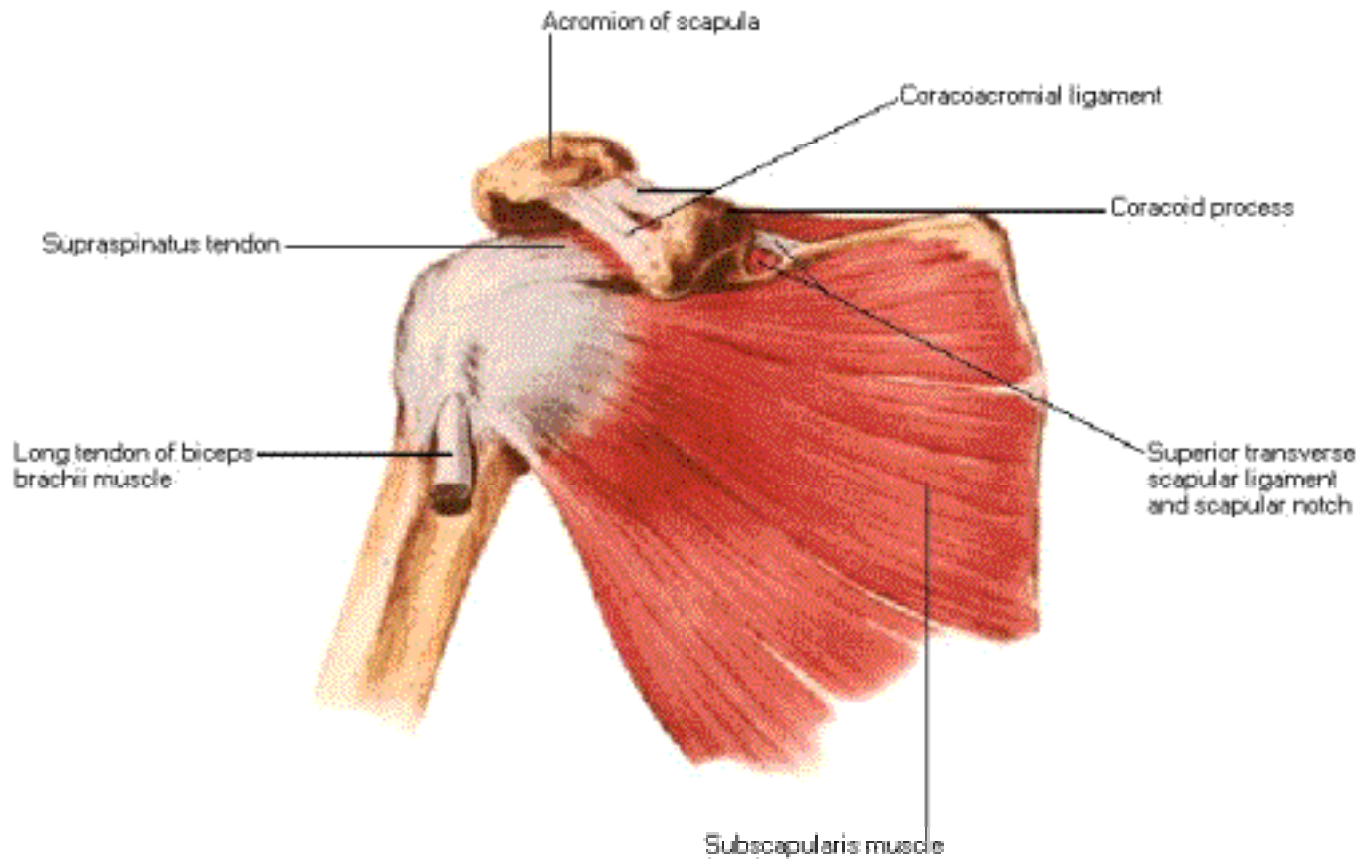
# Muscles of Rotator Cuff

## Superior View



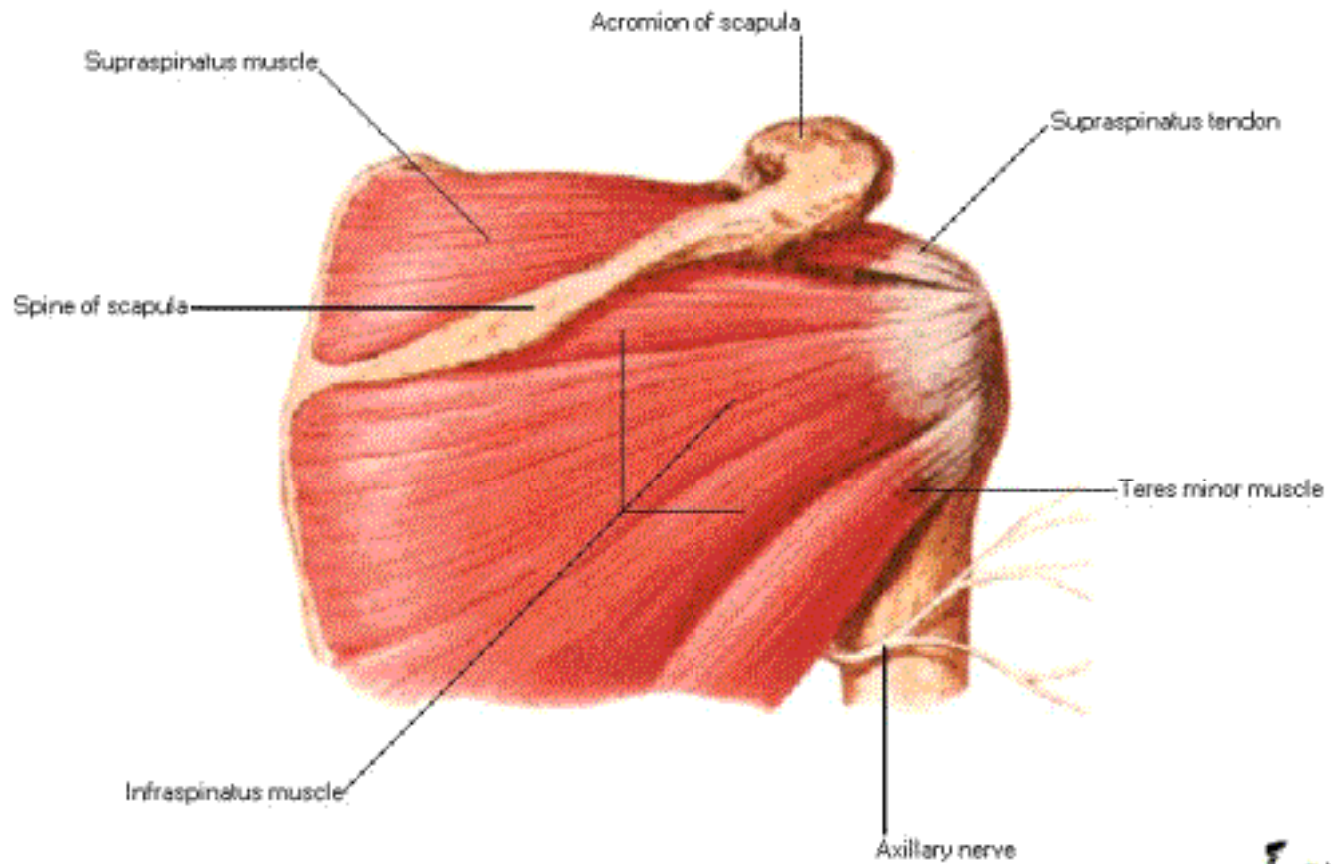
# Muscles of Rotator Cuff

## Anterior View



# Muscles of Rotator Cuff

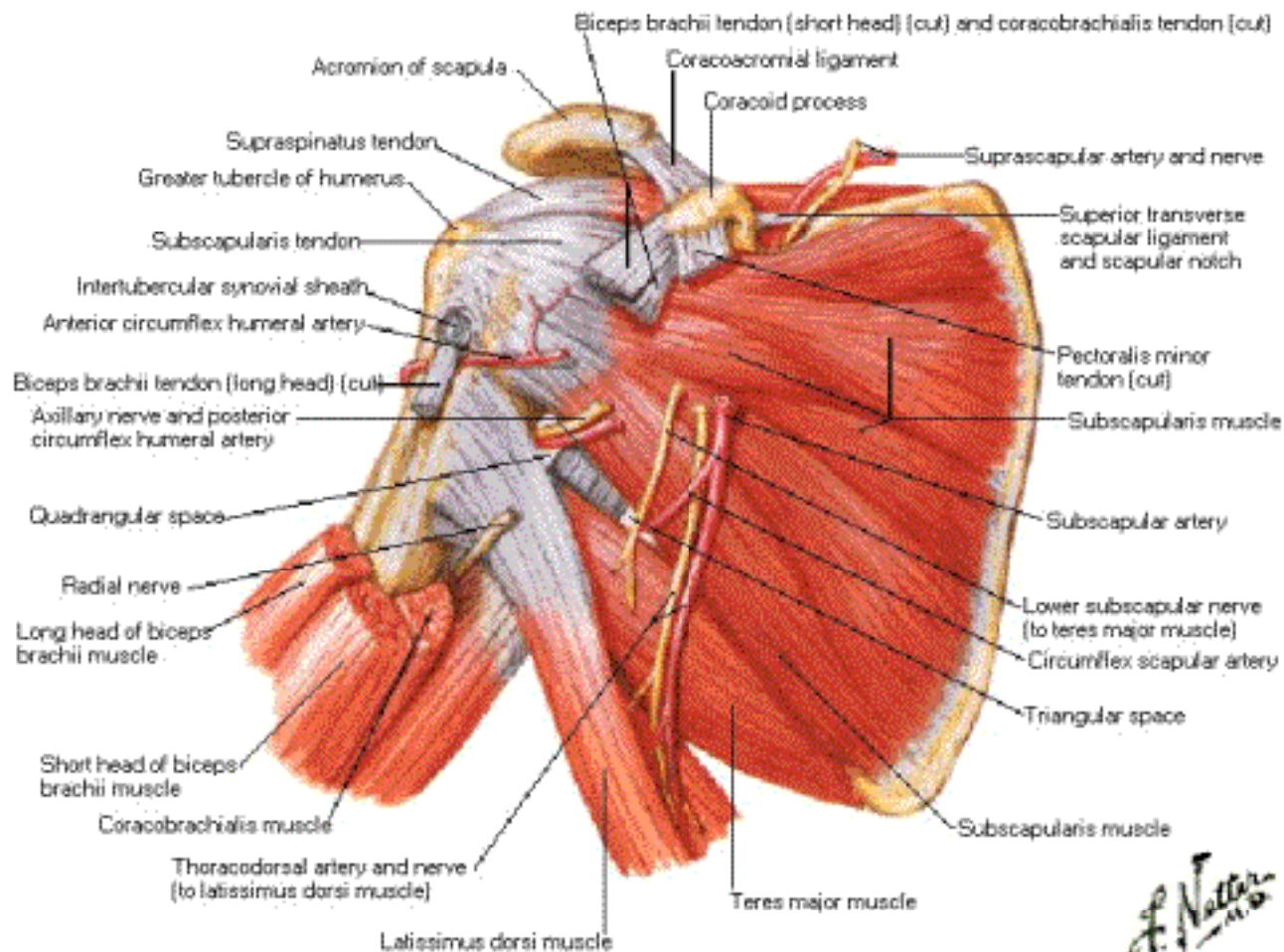
## Posterior View





# Scapulohumeral Dissection

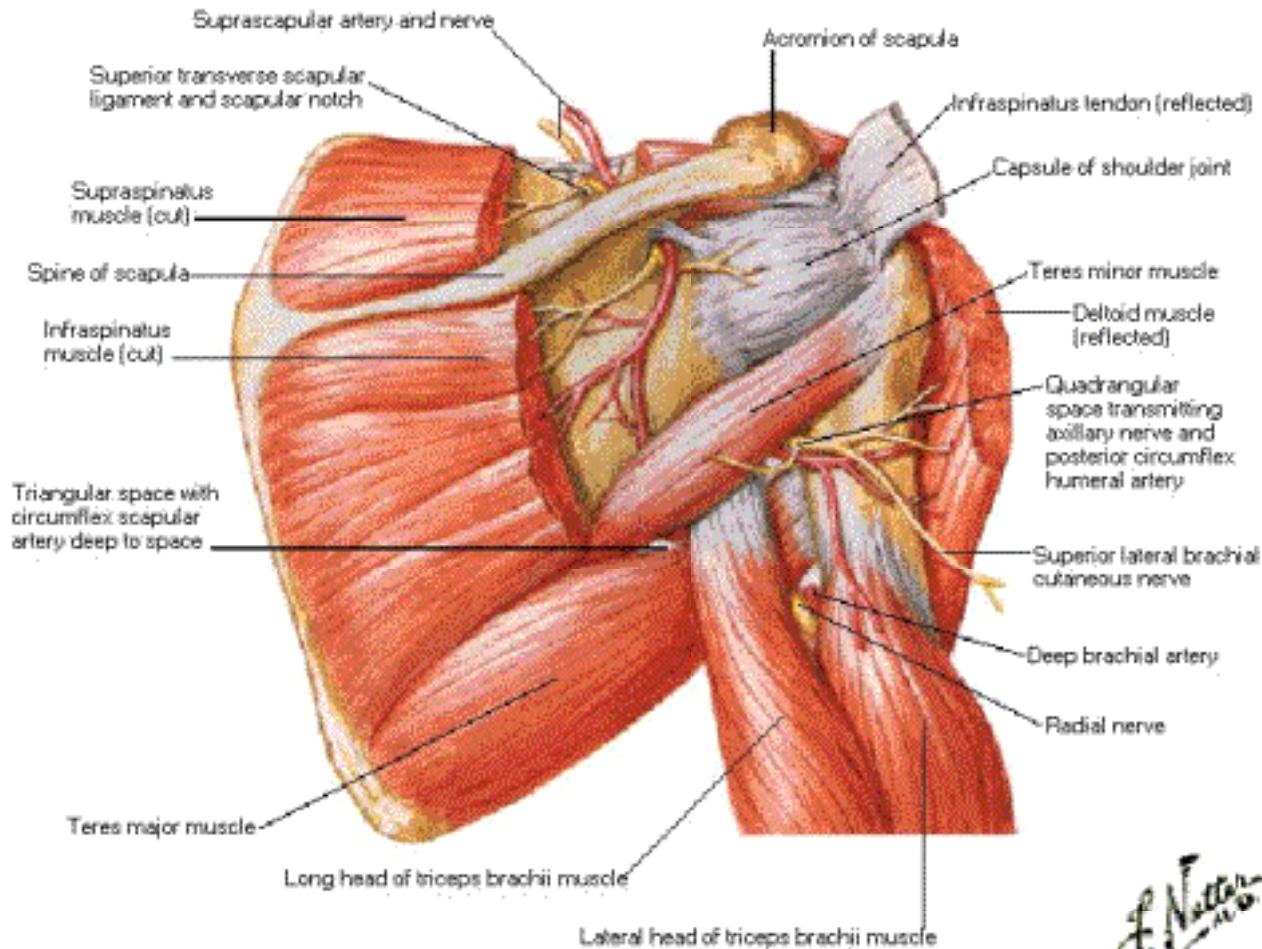
## Anterior View



*F. Netter M.D.*

# Scapulohumeral Dissection

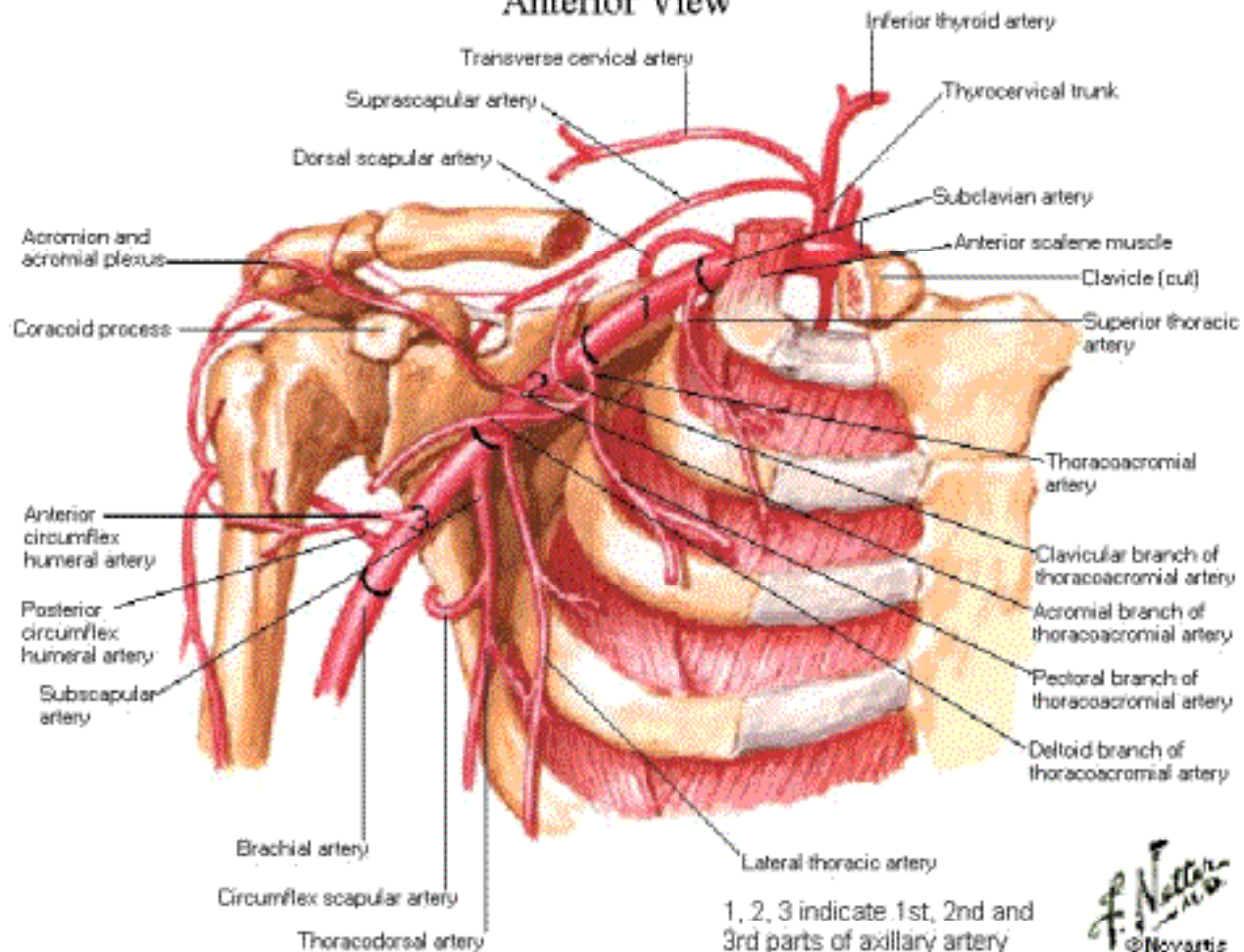
## Posterior View



*F. Netter  
-1906*

# Axillary Artery and Anastomoses Around Scapula

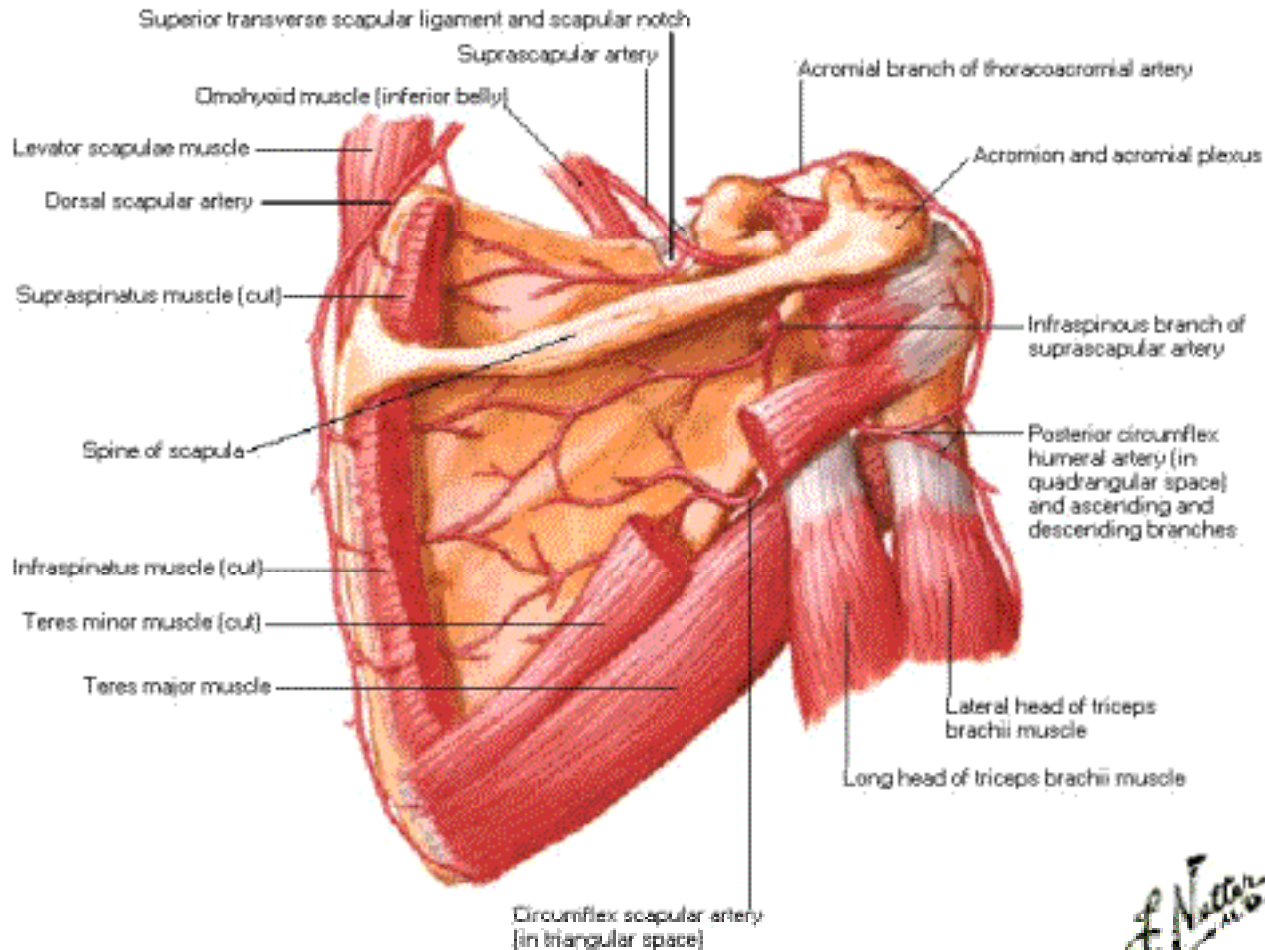
## Anterior View



*F. Netter*  
© Novartis

# Axillary Artery and Anastomoses Around Scapula

## Posterior View

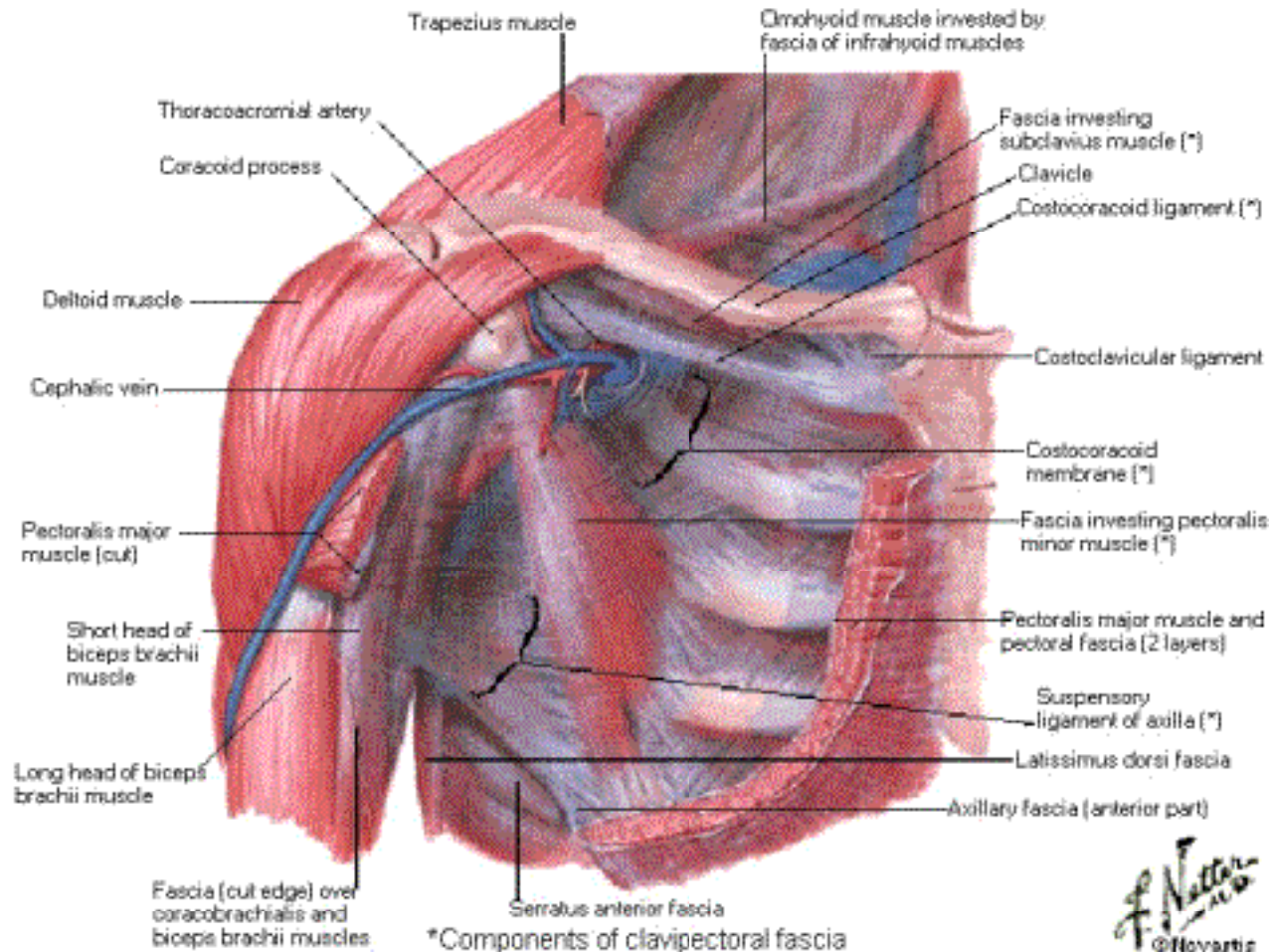


*F. Netter M.D.*



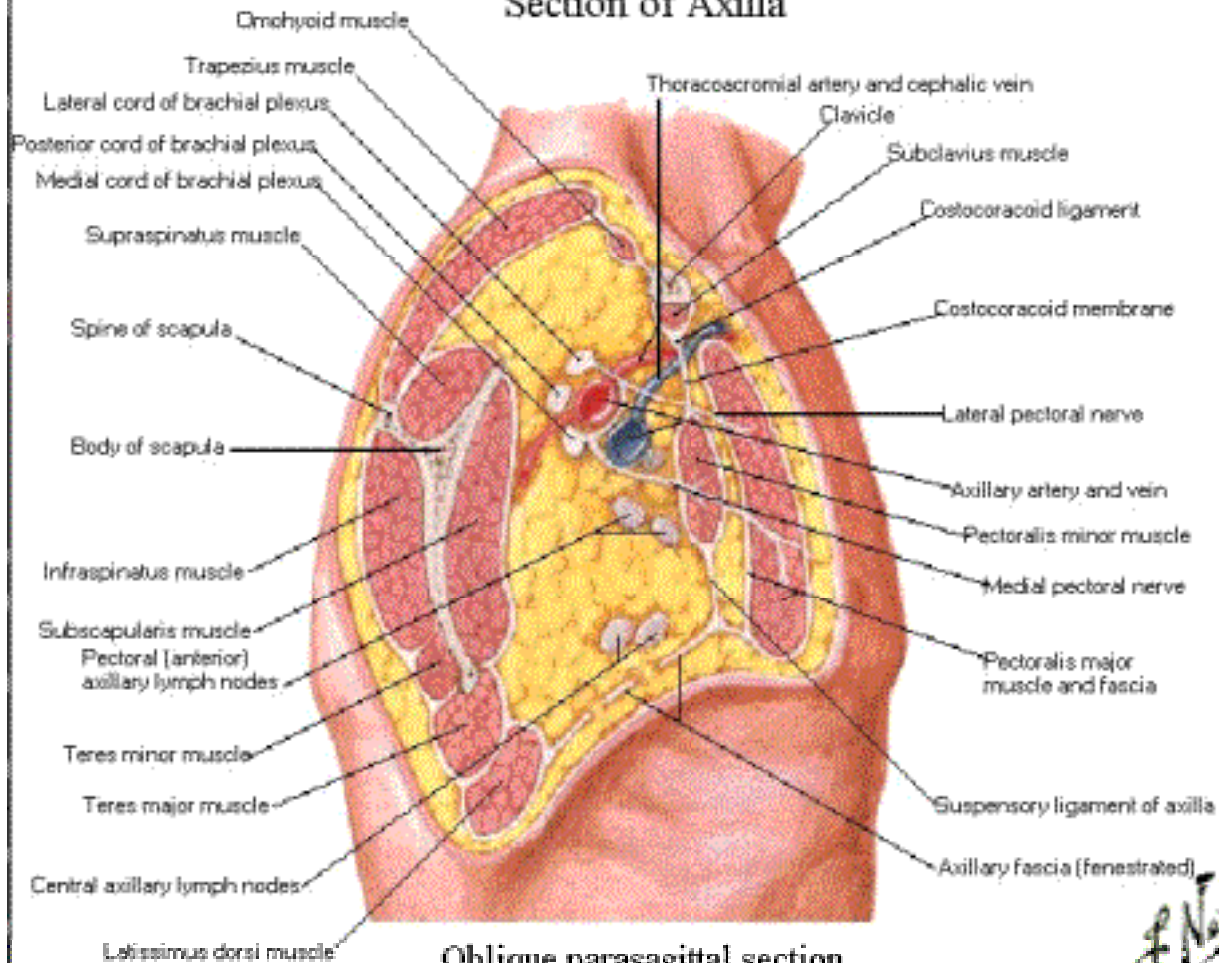
# Pectoral, Clavipectoral and Axillary Fasciae

## Anterior View



# Pectoral, Clavipectoral and Axillary Fasciae

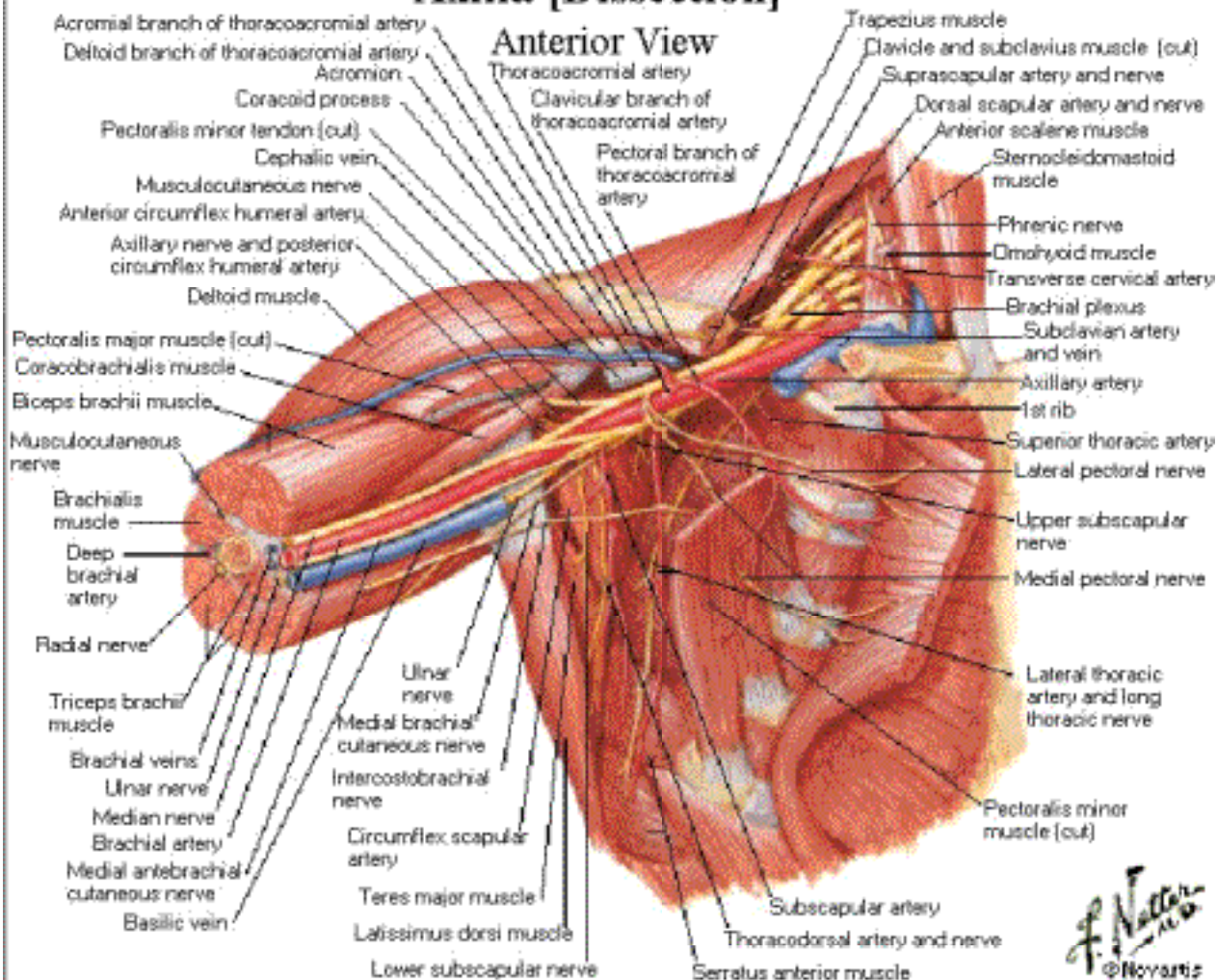
## Section of Axilla



*F. Net*  
© 2000

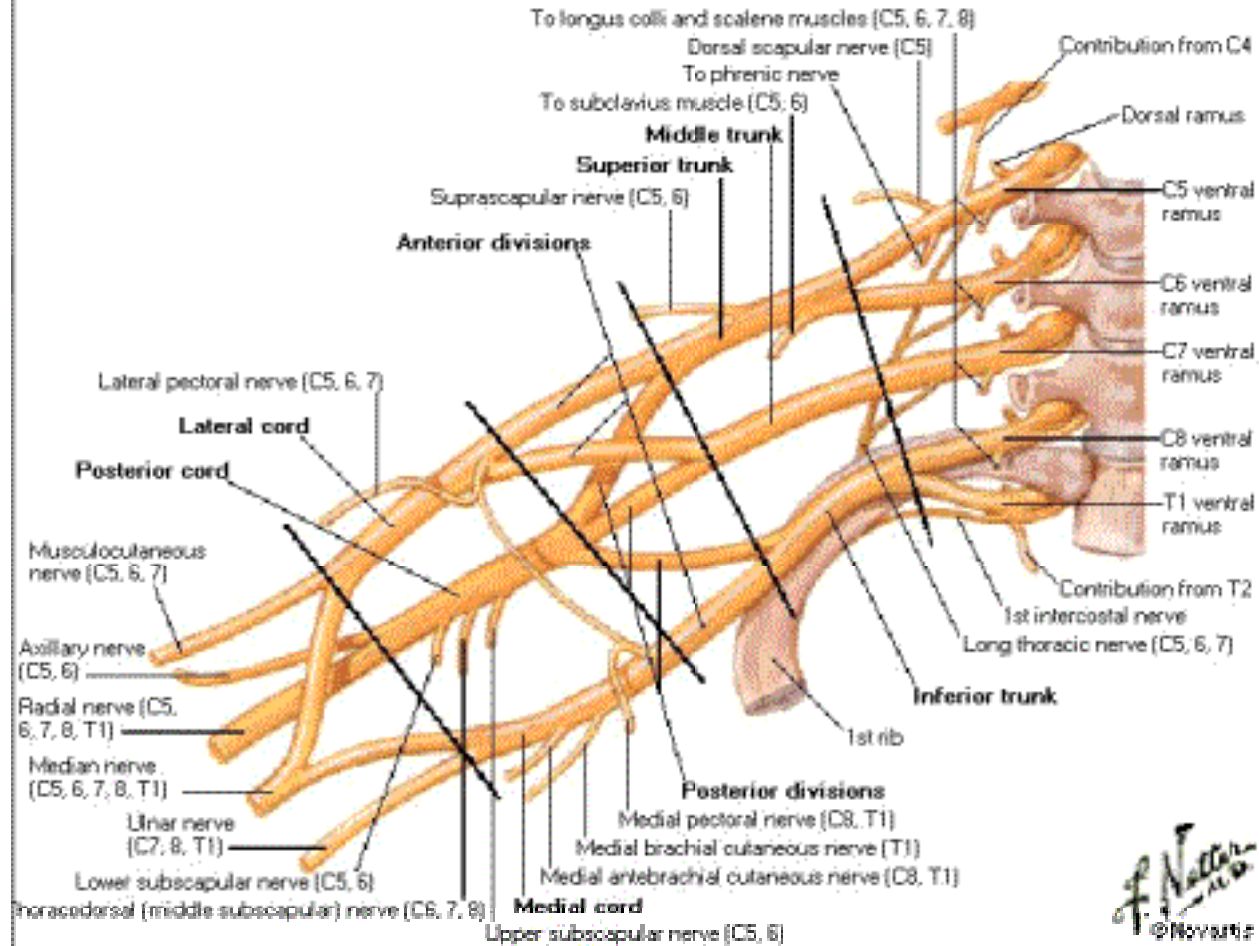
# Axilla [Dissection]

## Anterior View



*F. Netter M.D.*  
© 1996

# Brachial Plexus Schema

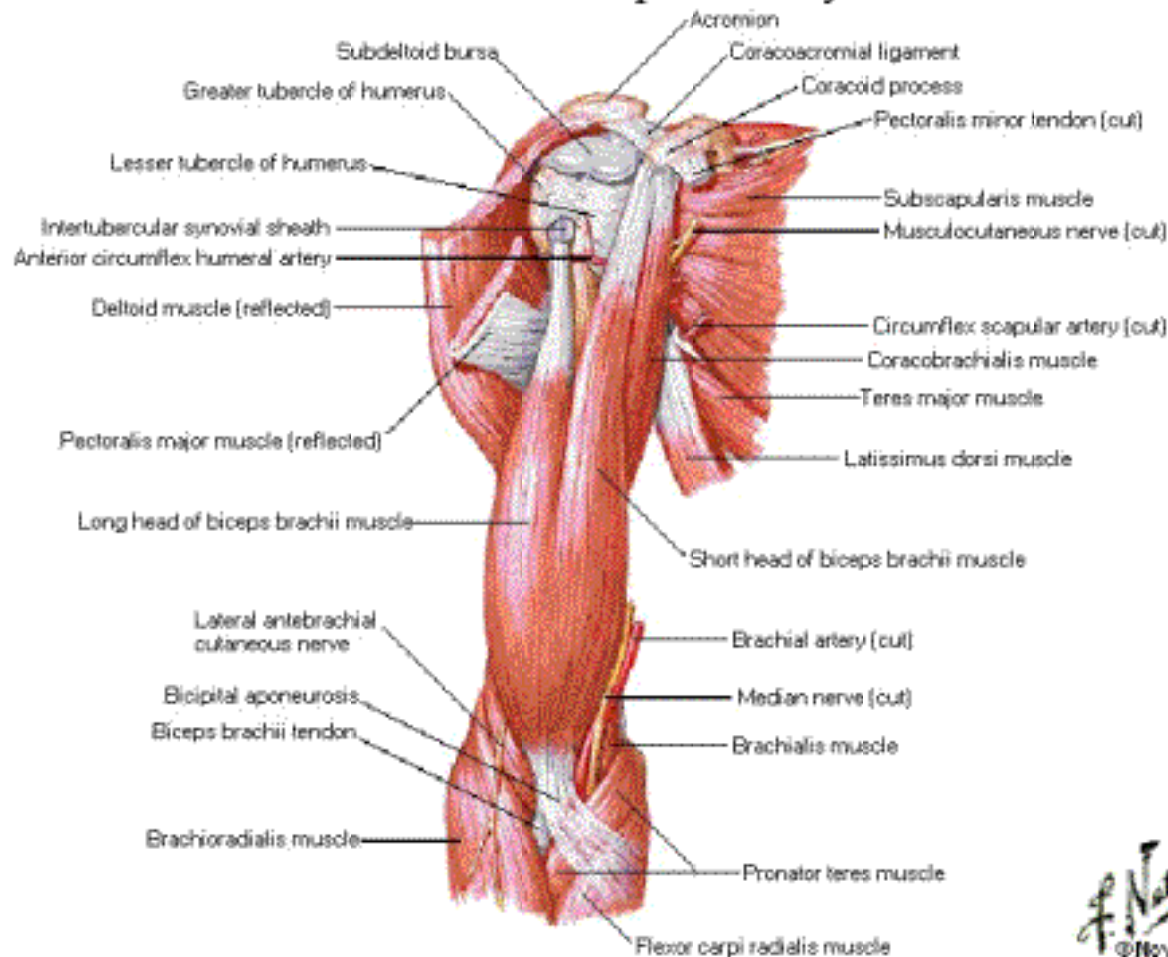


*F. Netter*  
© 2004



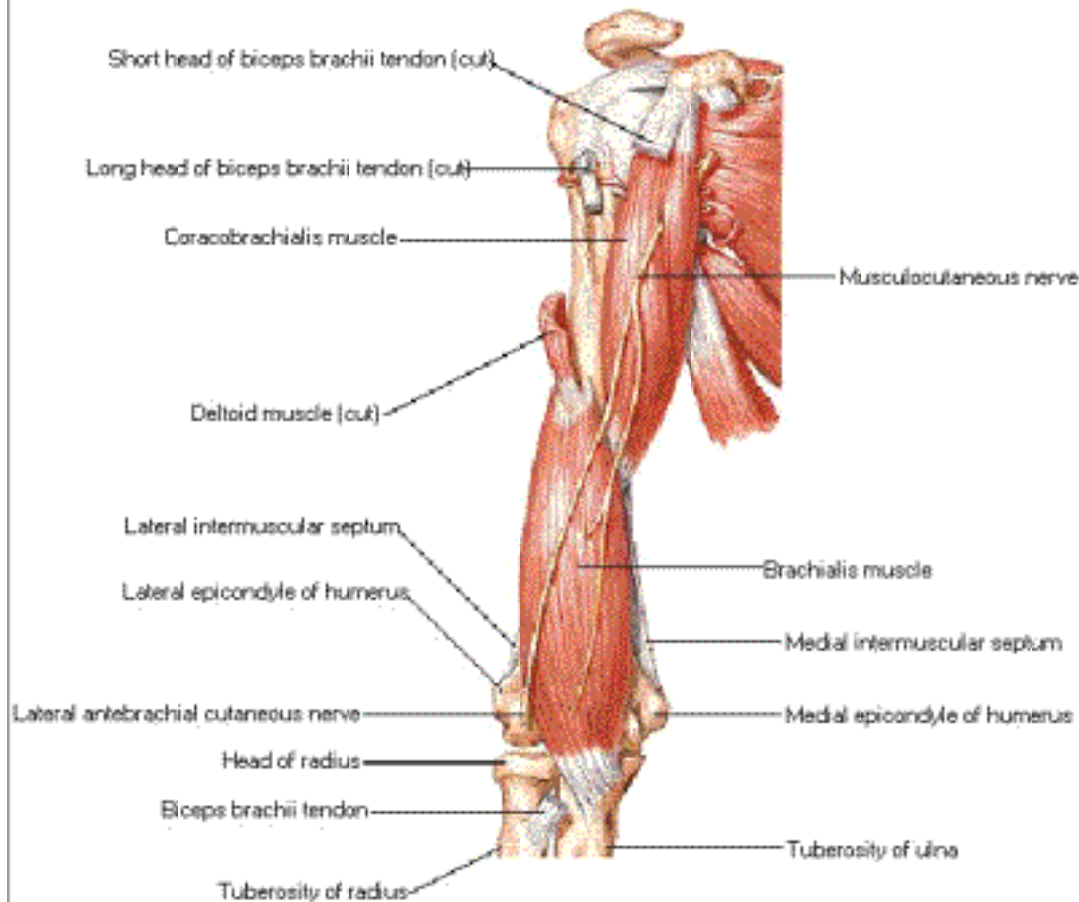
# Muscles of Arm

## Anterior View - Superficial Layer



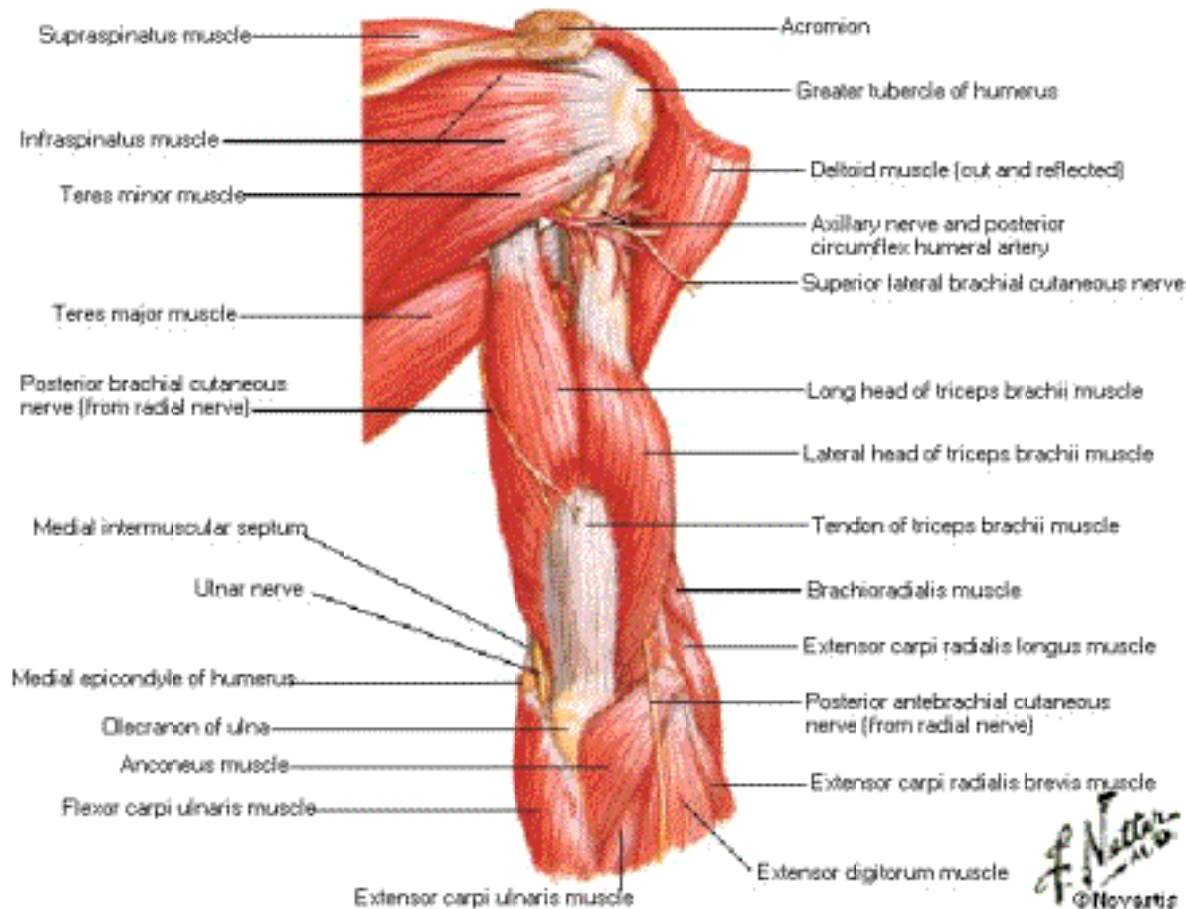
# Muscles of Arm

## Anterior View - Deep Layer



# Muscles of Arm

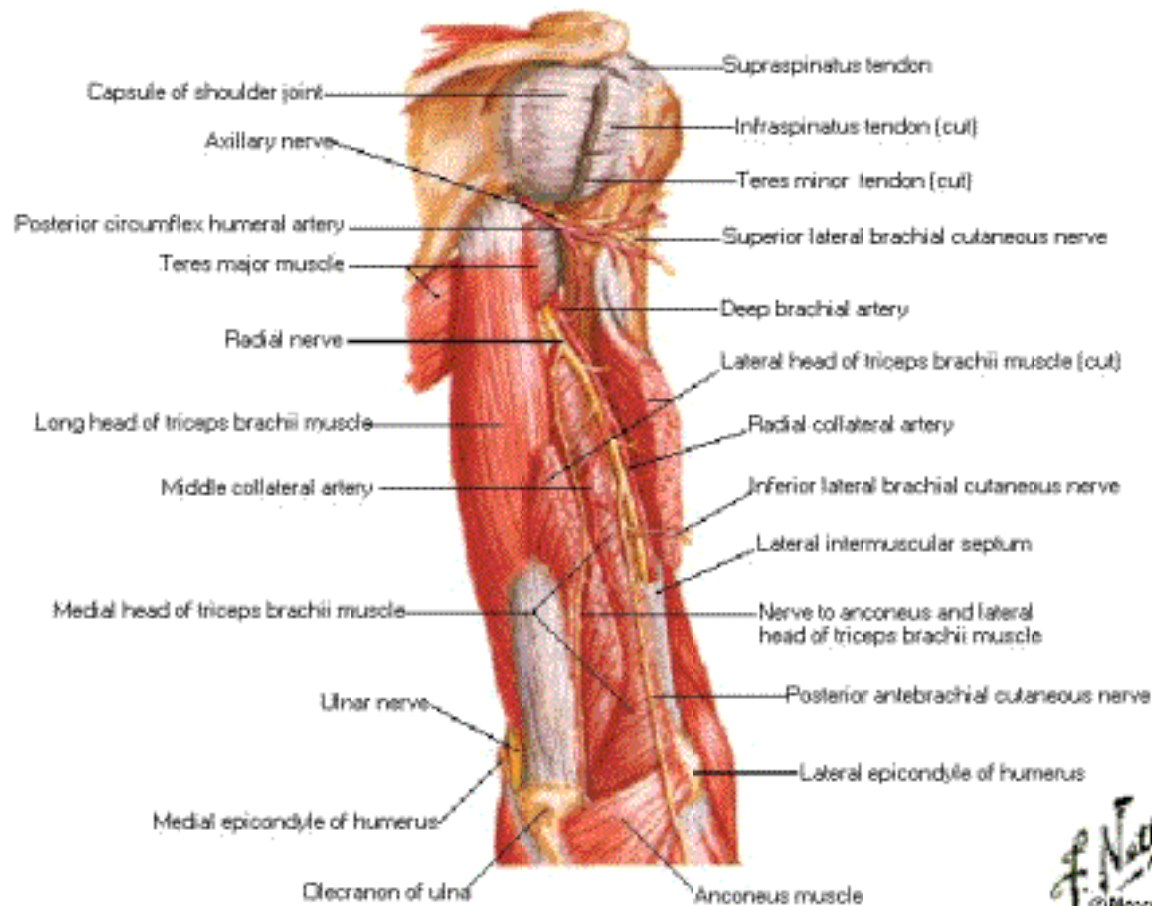
## Posterior View - Superficial Layer



*F. Netter M.D.*  
©Hovartis

# Muscles of Arm

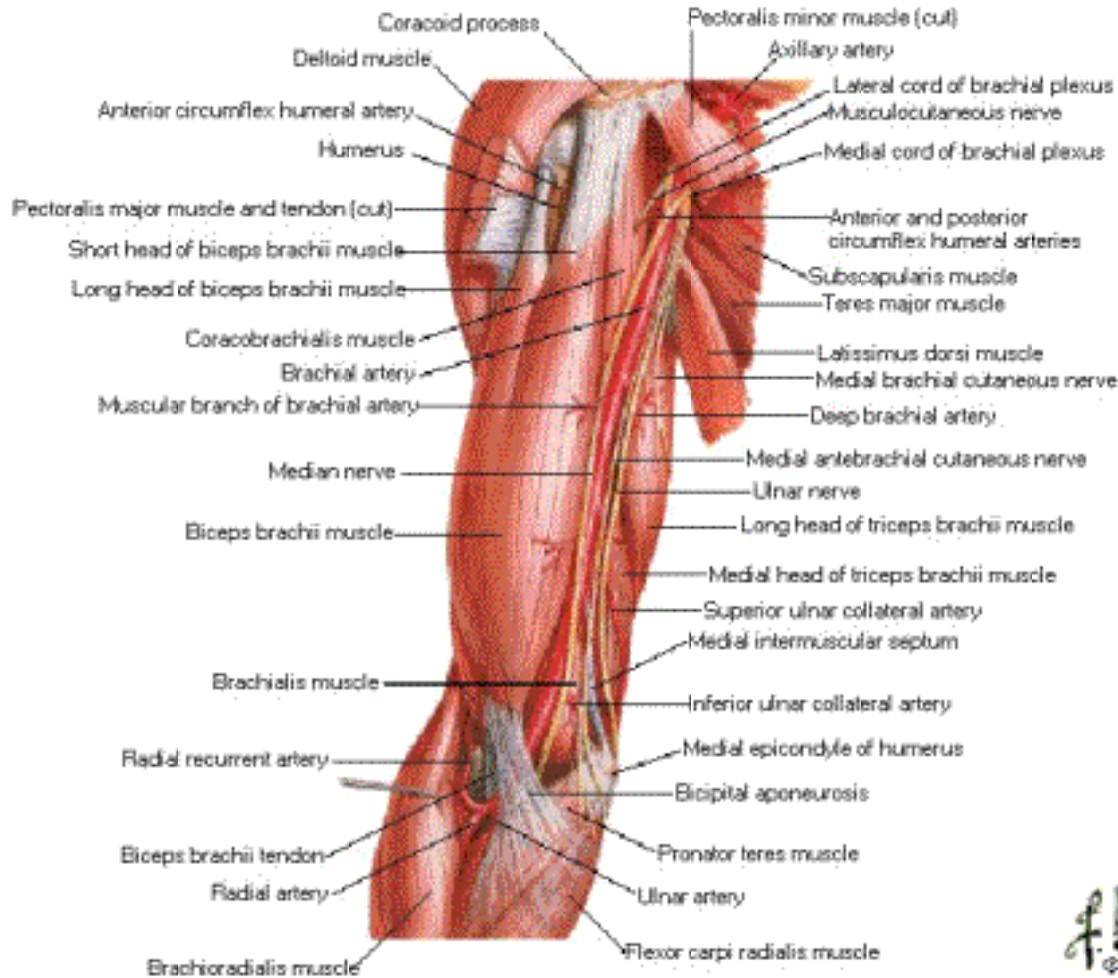
## Posterior View - Deep Layer



*F. Netter*  
© Nova

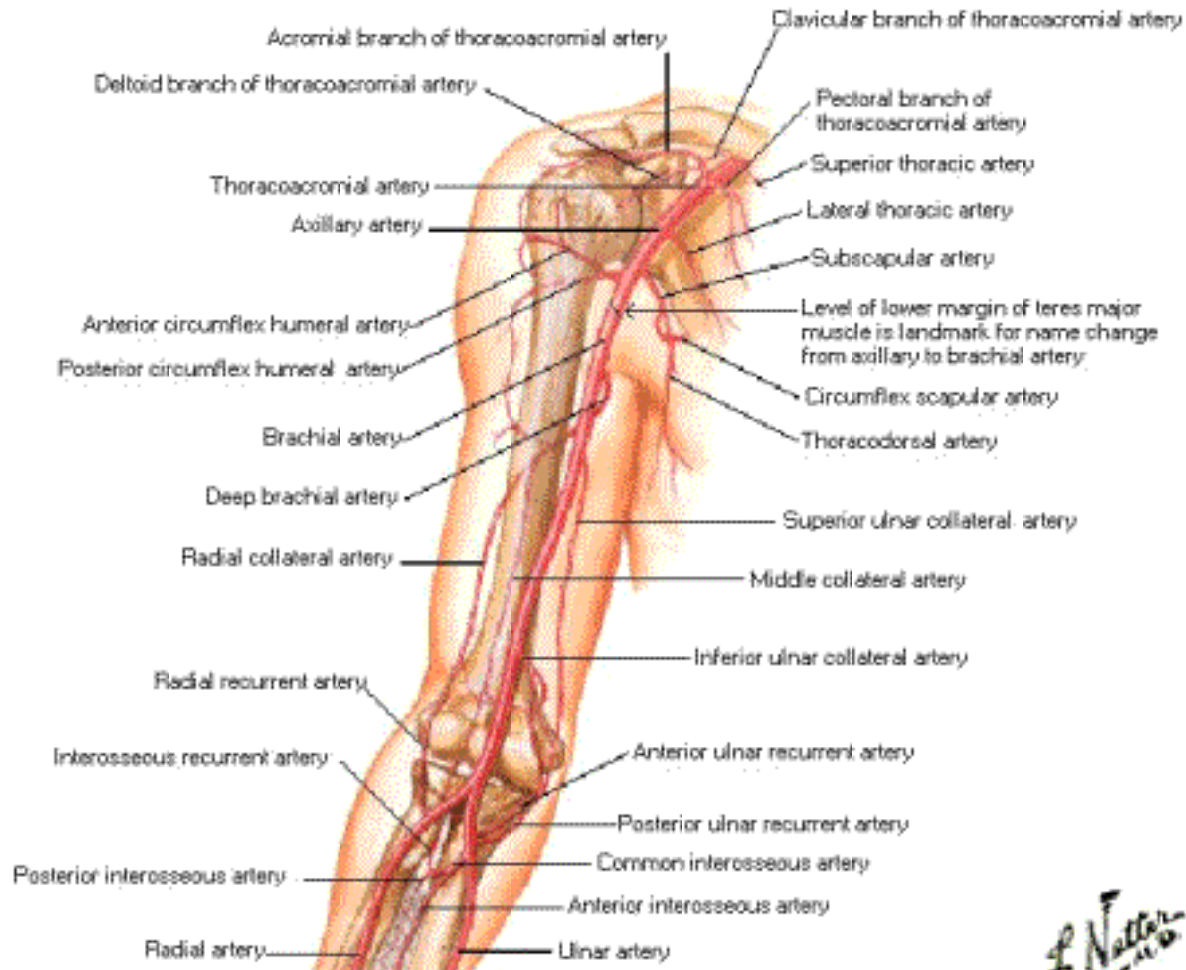


## Brachial Artery in Situ



F. J. 201

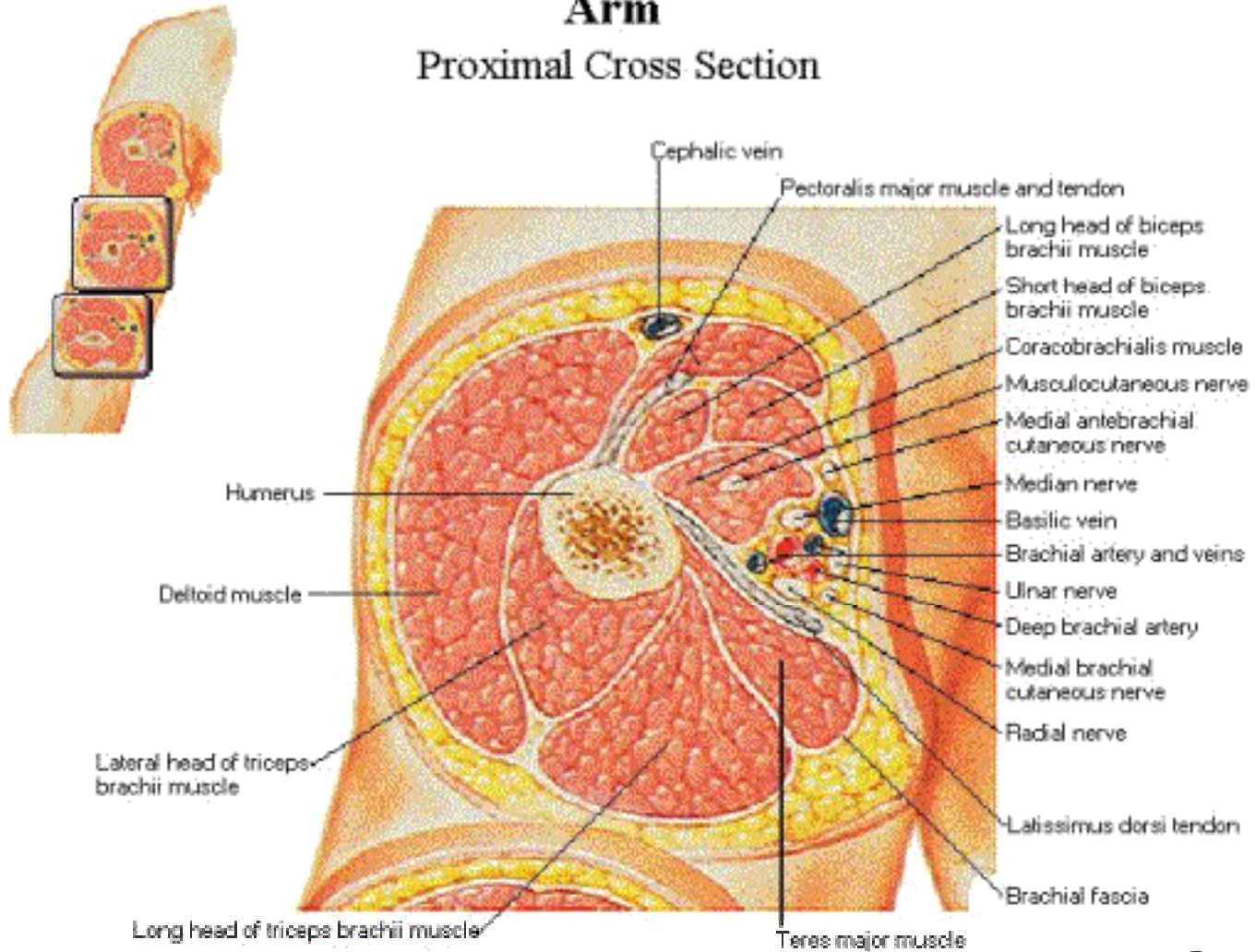
# Brachial Artery and Anastomoses Around Elbow



*F. Netter M.D.*

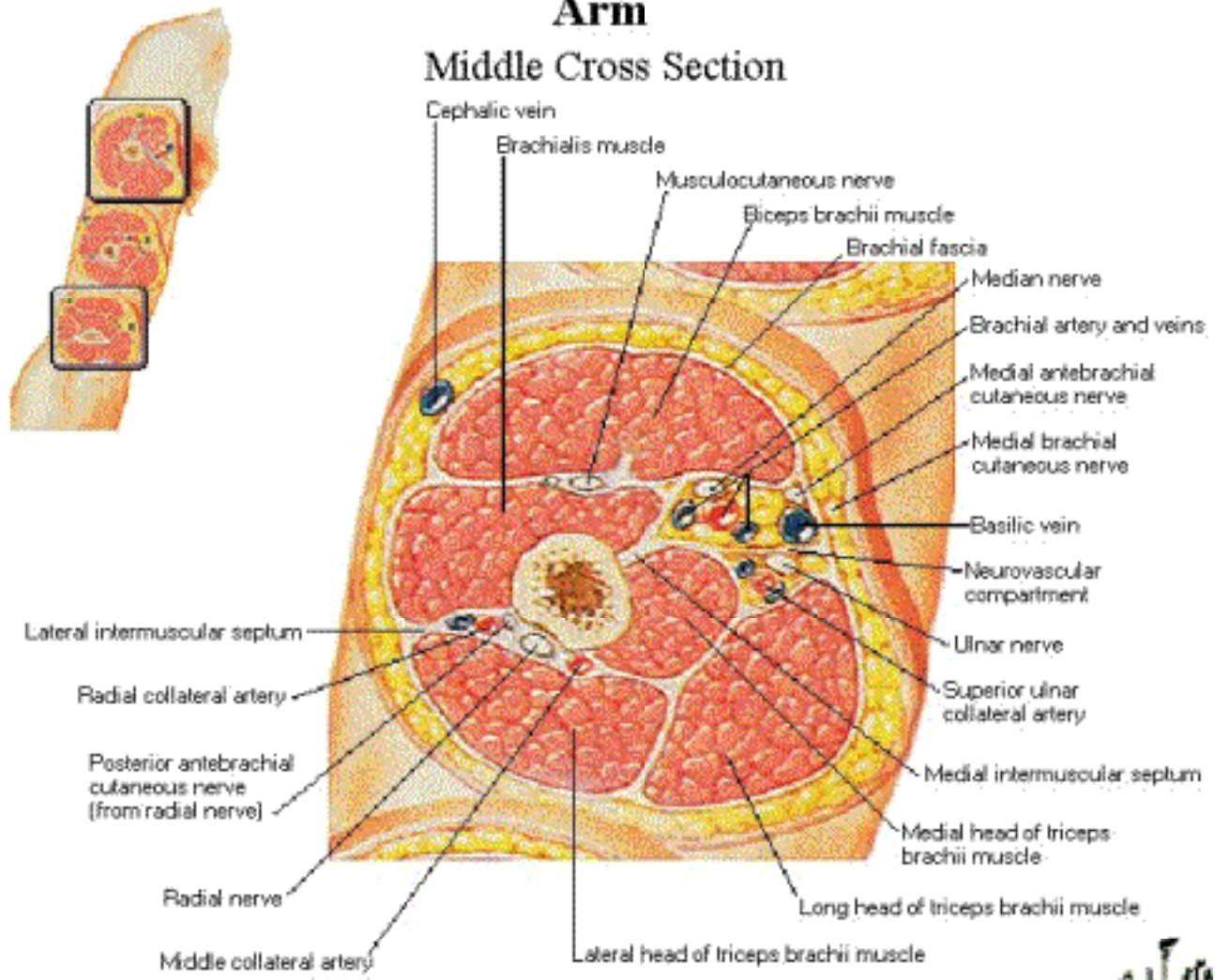
# Arm

## Proximal Cross Section



# Arm

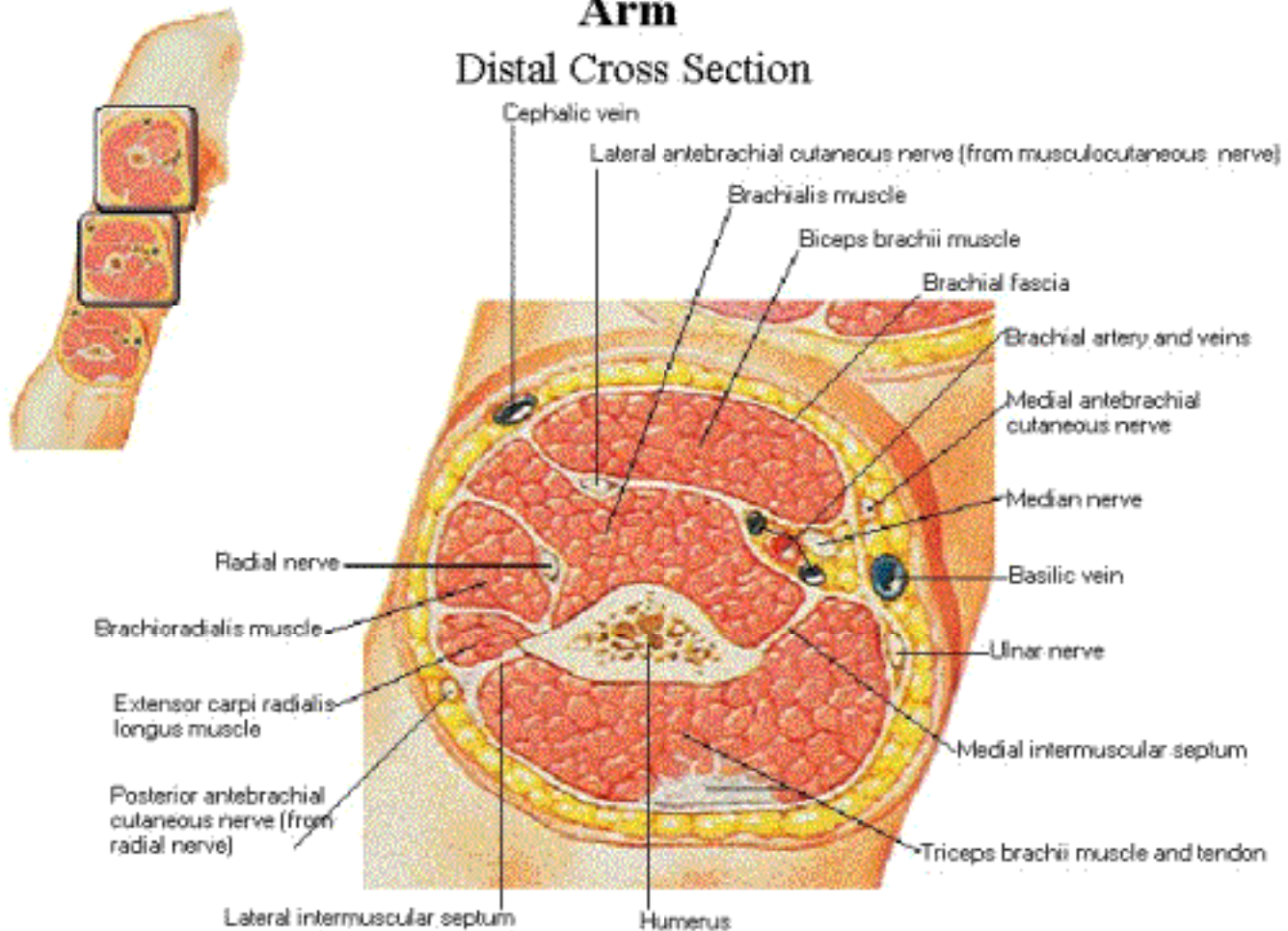
## Middle Cross Section





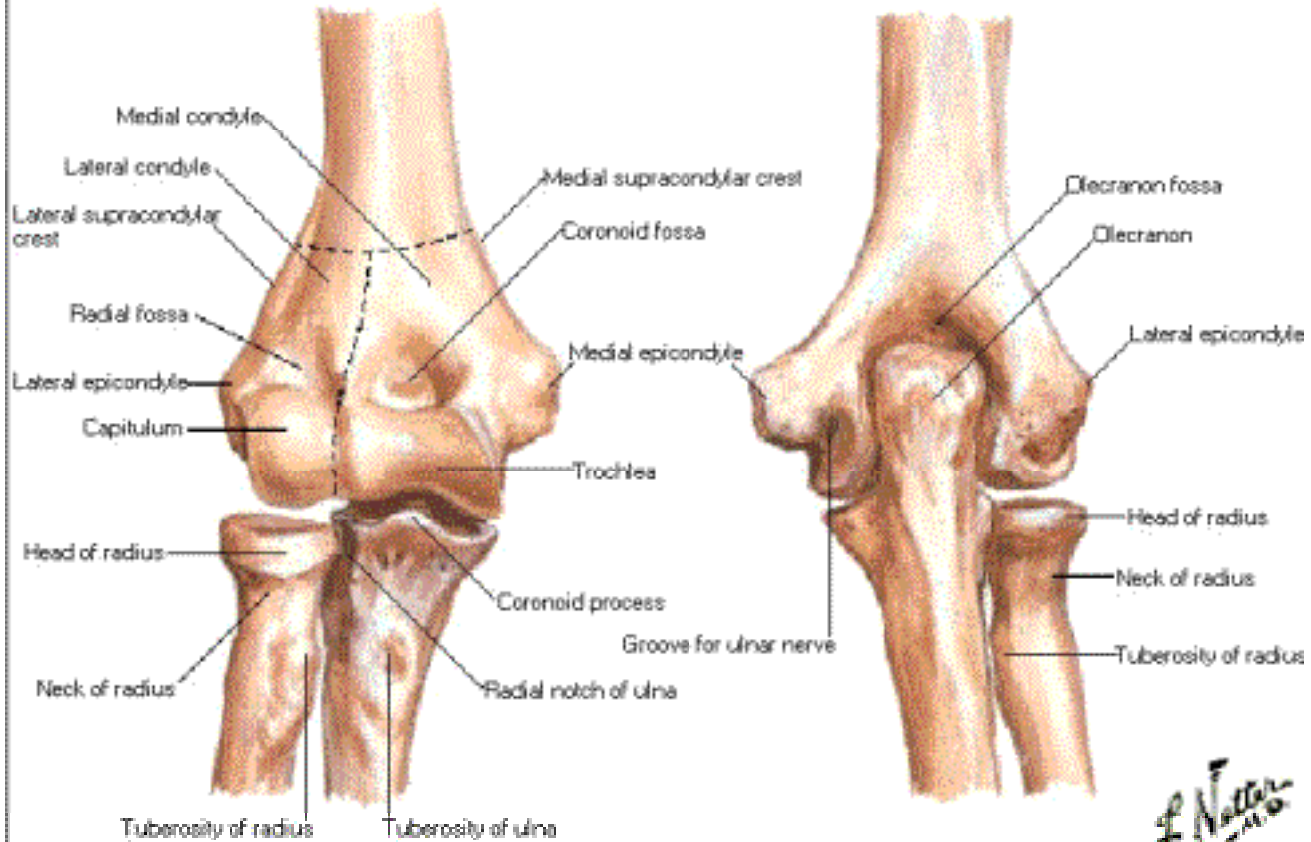
# Arm

## Distal Cross Section



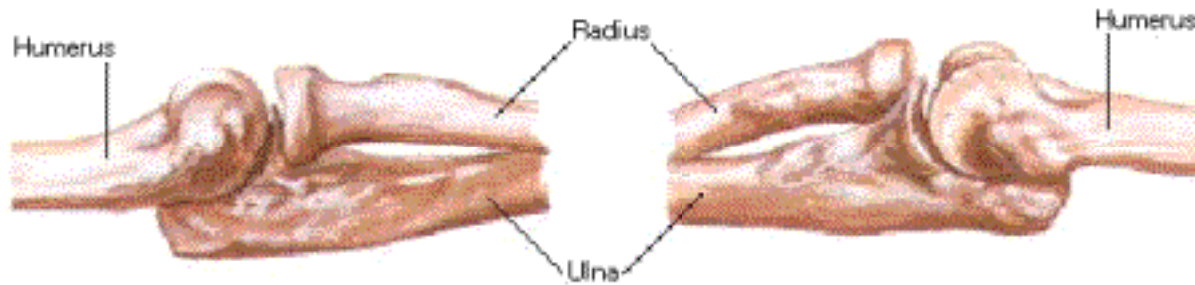
# Bones of Elbow in Extension

## Anterior and Posterior Views



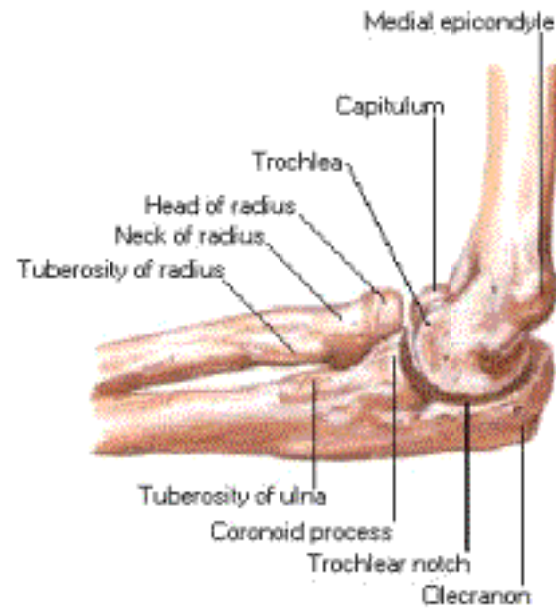
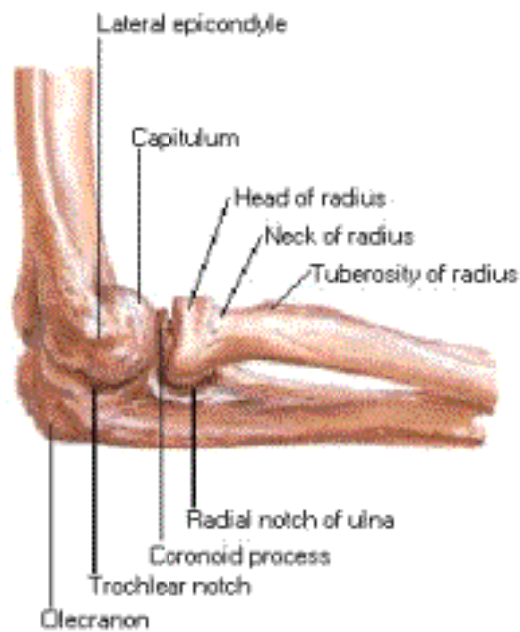
# Bones of Elbow in Extension

## Lateral and Medial Views



# Bones of Elbow in 90° Flexion

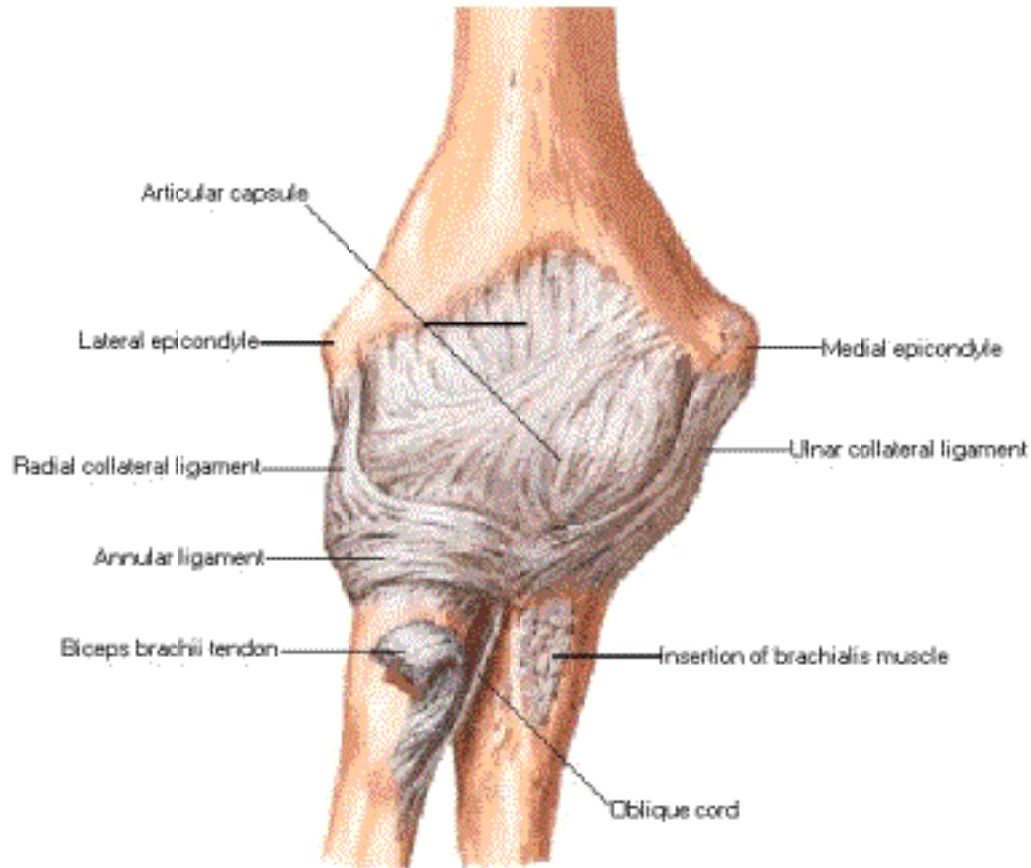
## Lateral and Medial Views





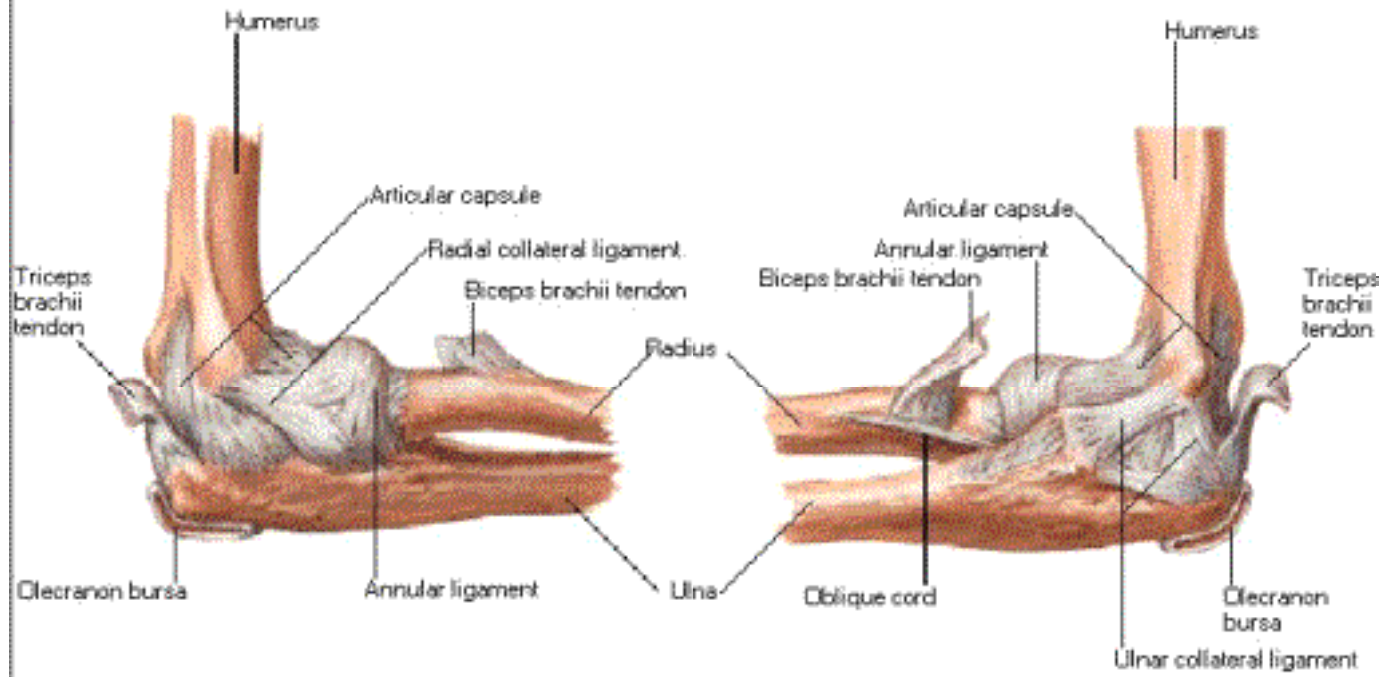
# Ligaments of Elbow

## Right Elbow - Anterior View



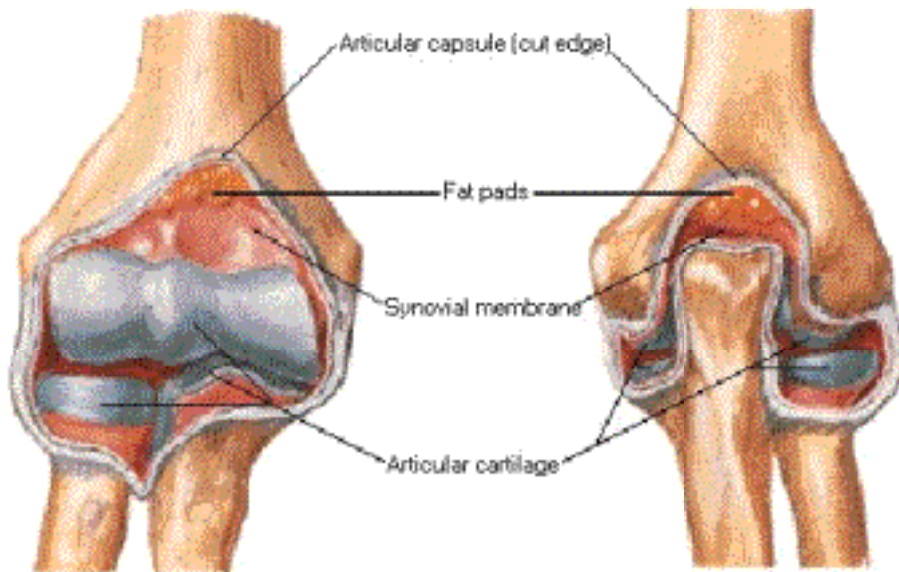
# Ligaments of Elbow in 90° Flexion

## Lateral and Medial Views



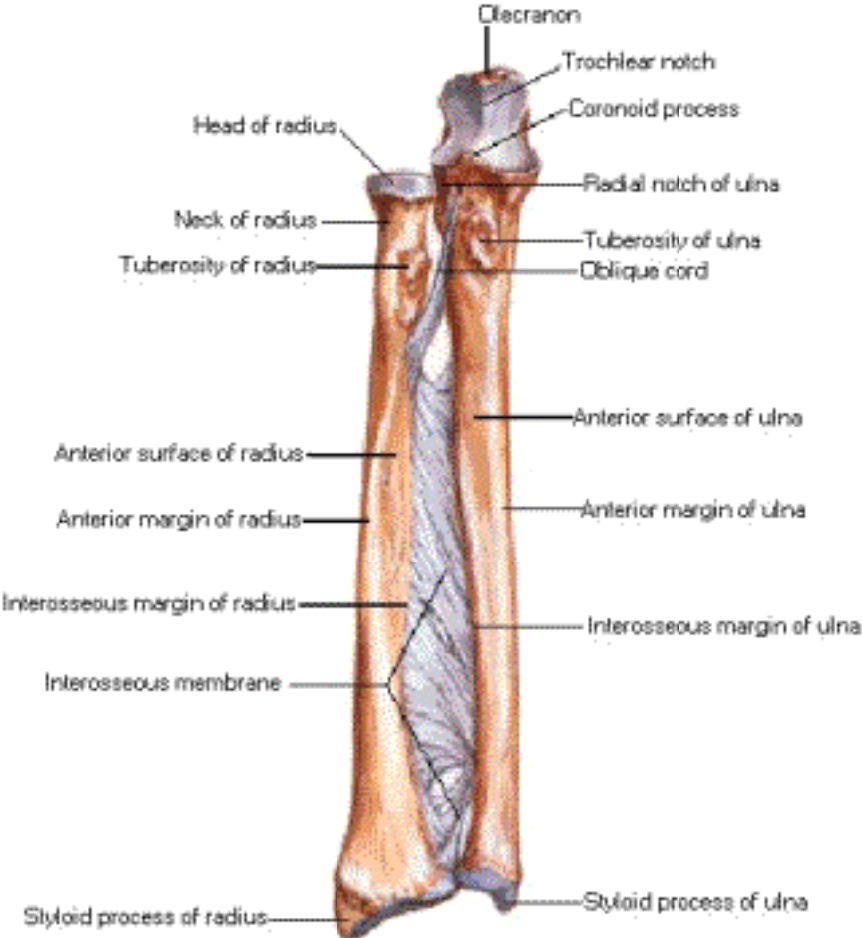
## Elbow Joint [Opened]

Anterior and Posterior Views



# Right Radius and Ulna in Supination

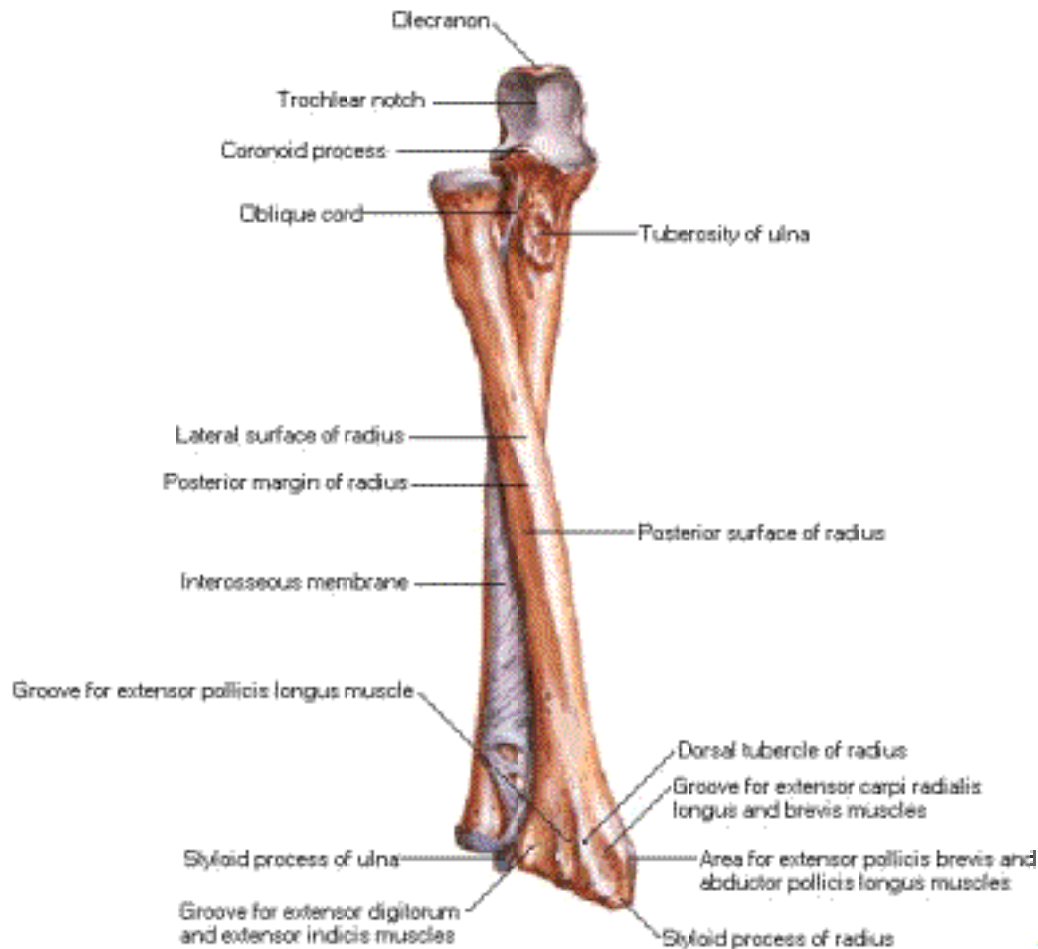
## Anterior View





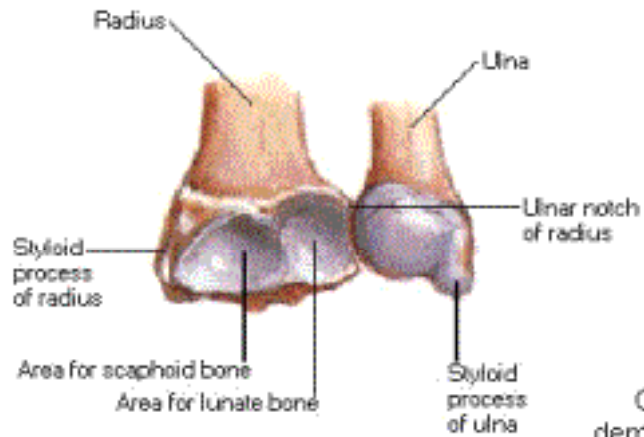
# Right Radius and Ulna in Pronation

## Anterior View



## Bones of Forearm

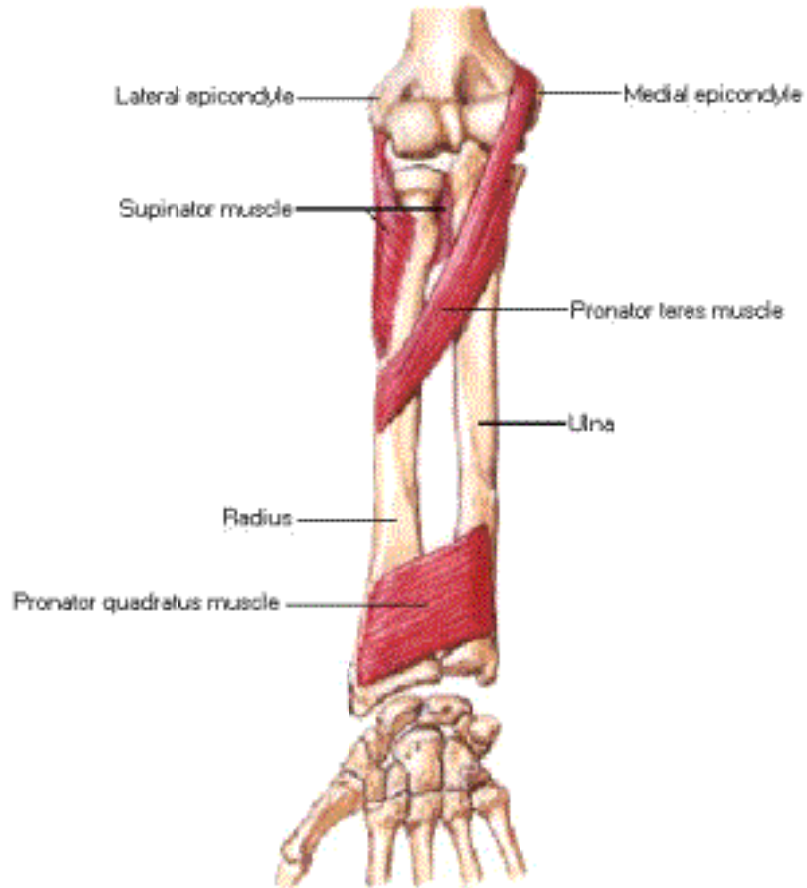
### Carpal Articular Surface and Section of Radius



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

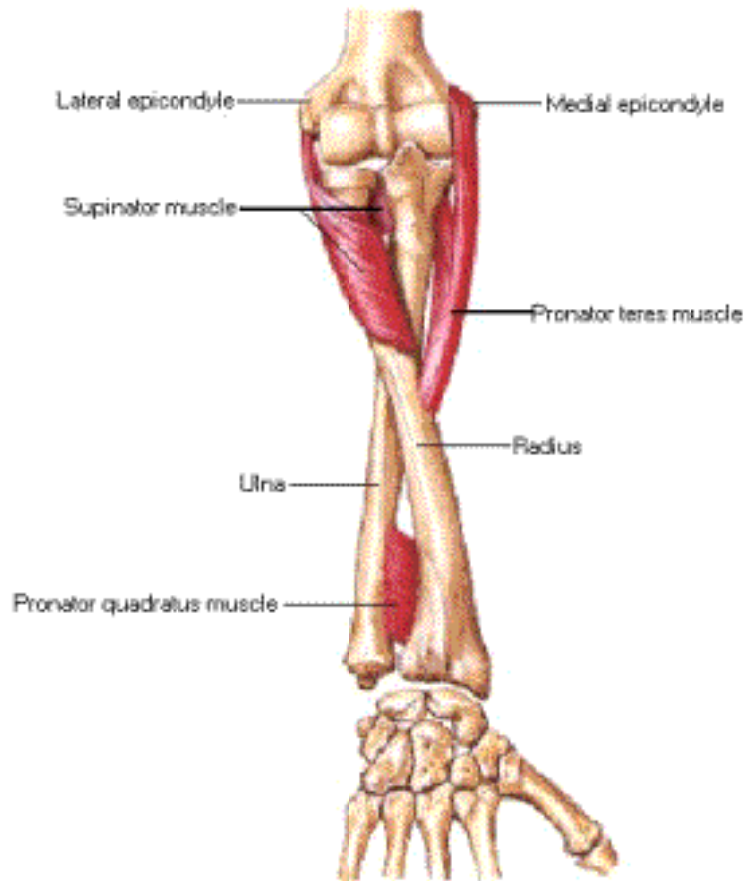
# Individual Muscles of Forearm

## Rotators of Radius - Supination



# Individual Muscles of Forearm

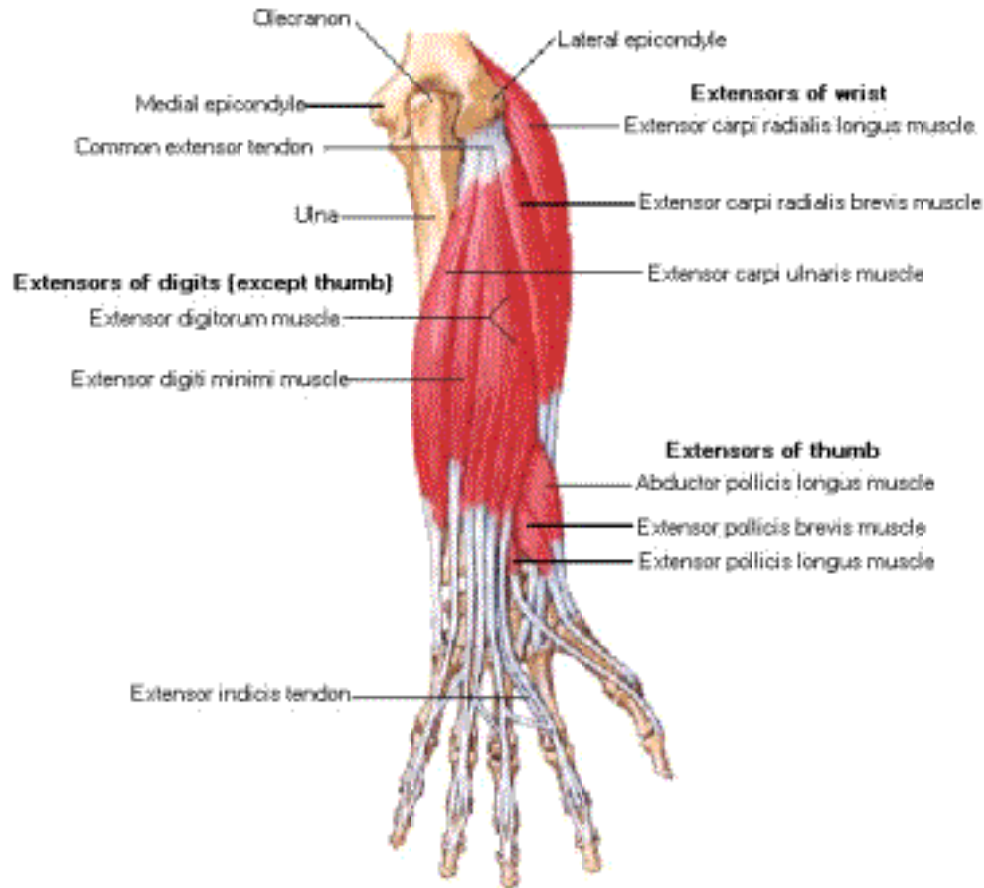
## Rotators of Radius - Pronation





# Individual Muscles of Forearm

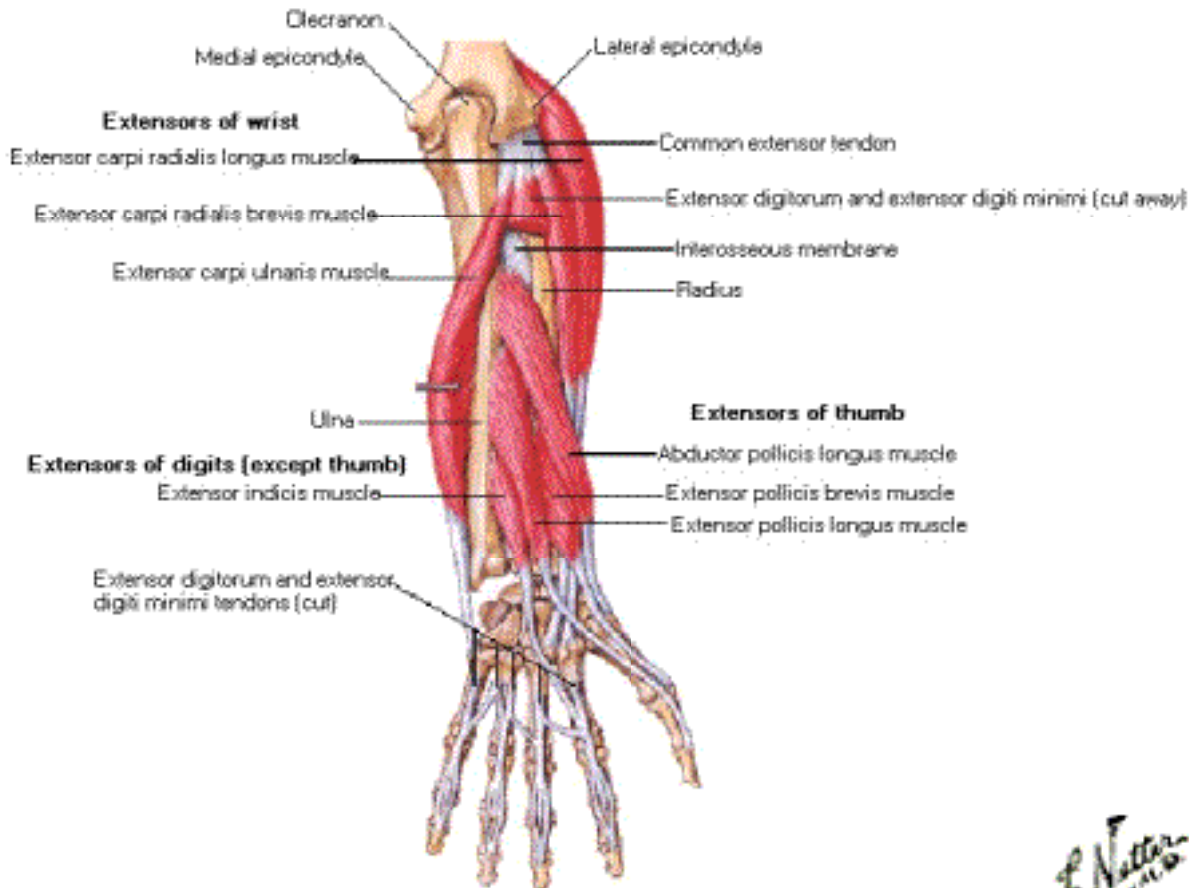
## Extensors of Wrist and Digits



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

# Individual Muscles of Forearm [Continued]

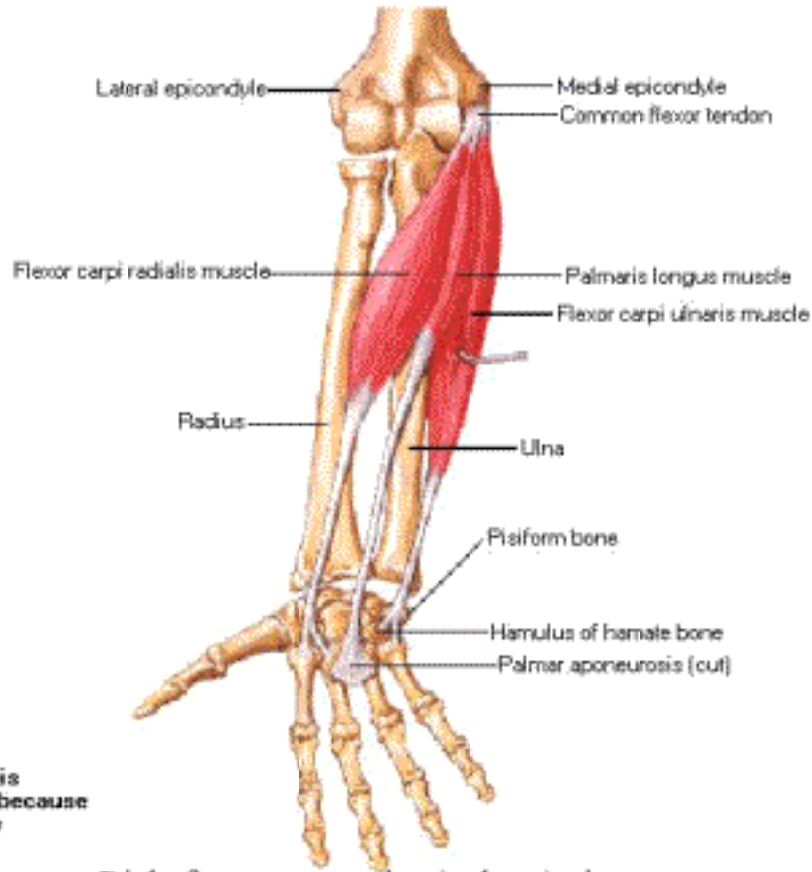
## Extensors of Wrist and Digits



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

# Individual Muscles of Forearm

## Flexors of Wrist

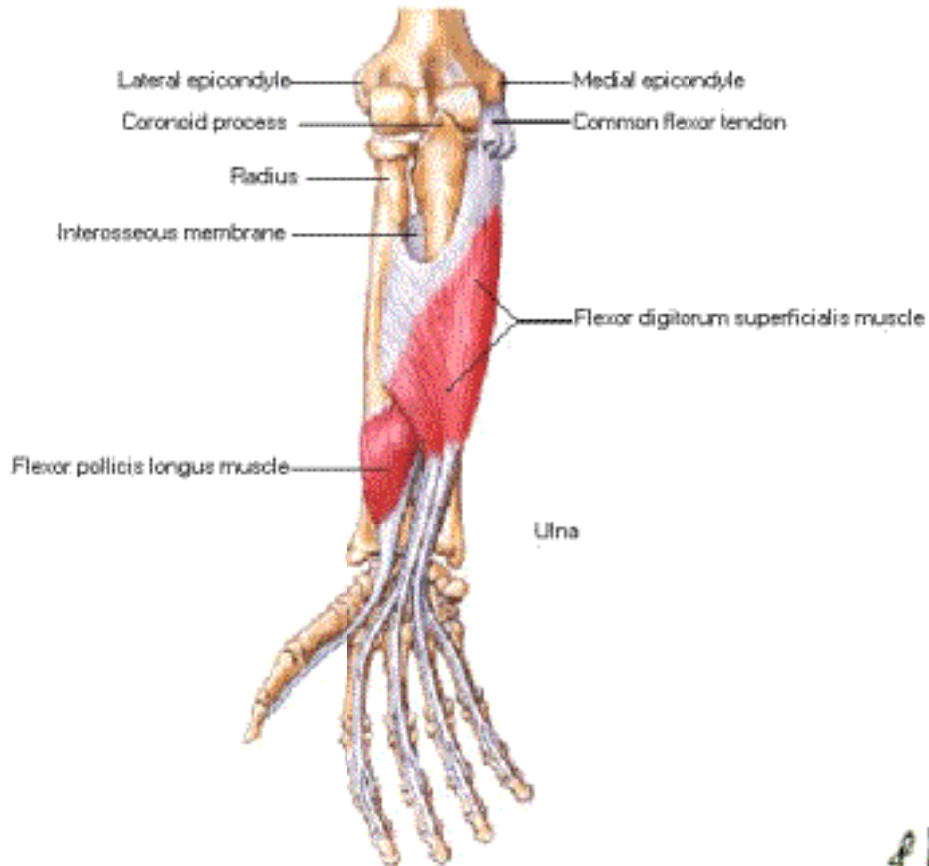


**Note:** brachioradialis muscle not shown because it is flexor of elbow

Right forearm: anterior (palmar) view

# Individual Muscles of Forearm

## Flexors of Digits

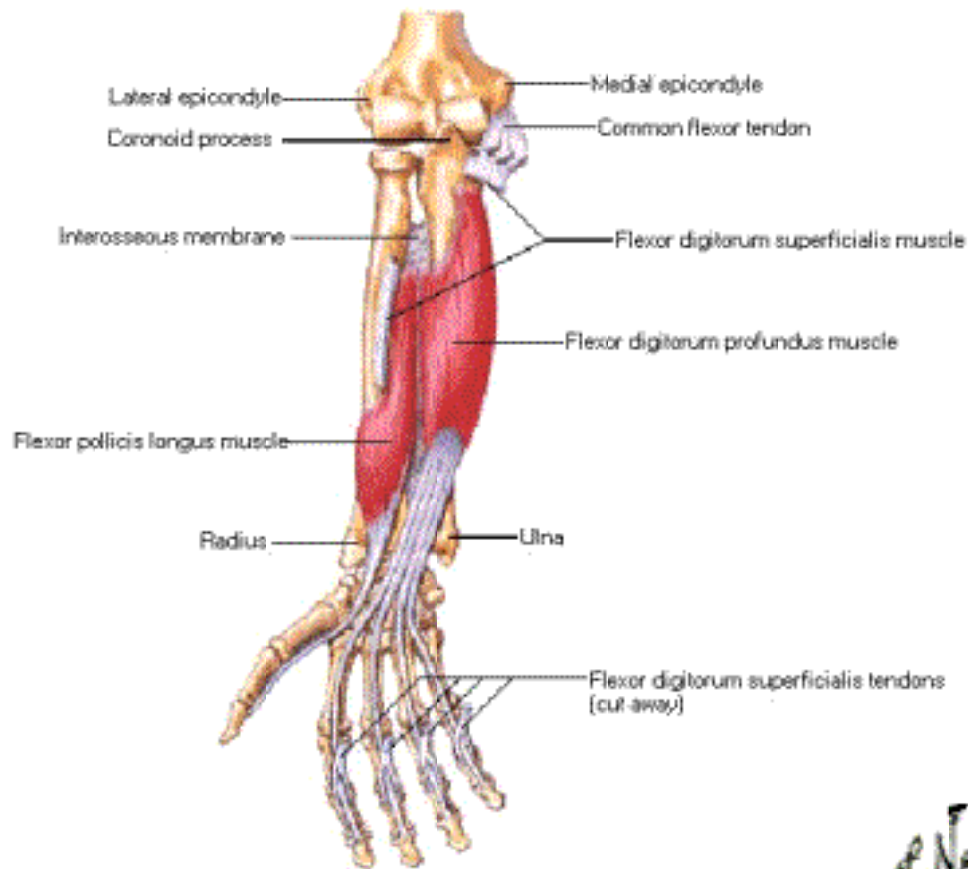


Right forearm: anterior (palmar) view

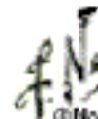


# Individual Muscles of Forearm [Continued]

## Flexors of Digits

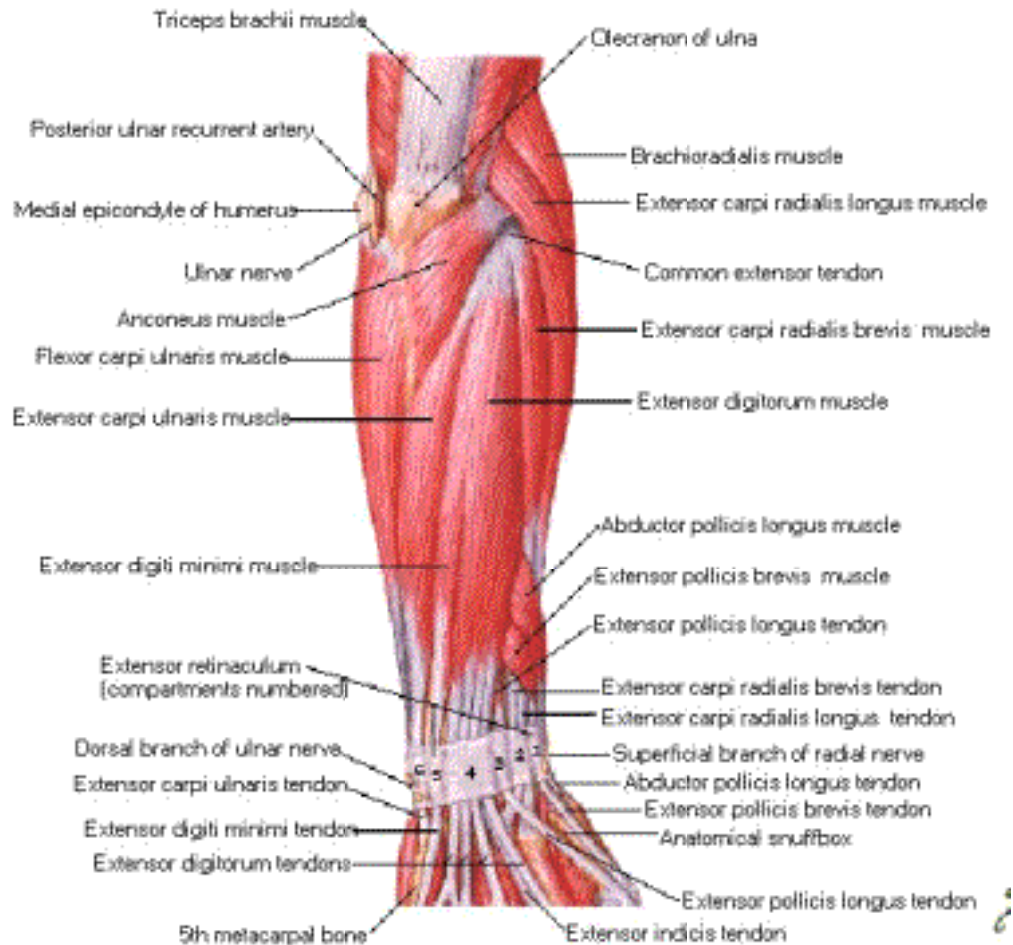


Right forearm: anterior (palmar) view



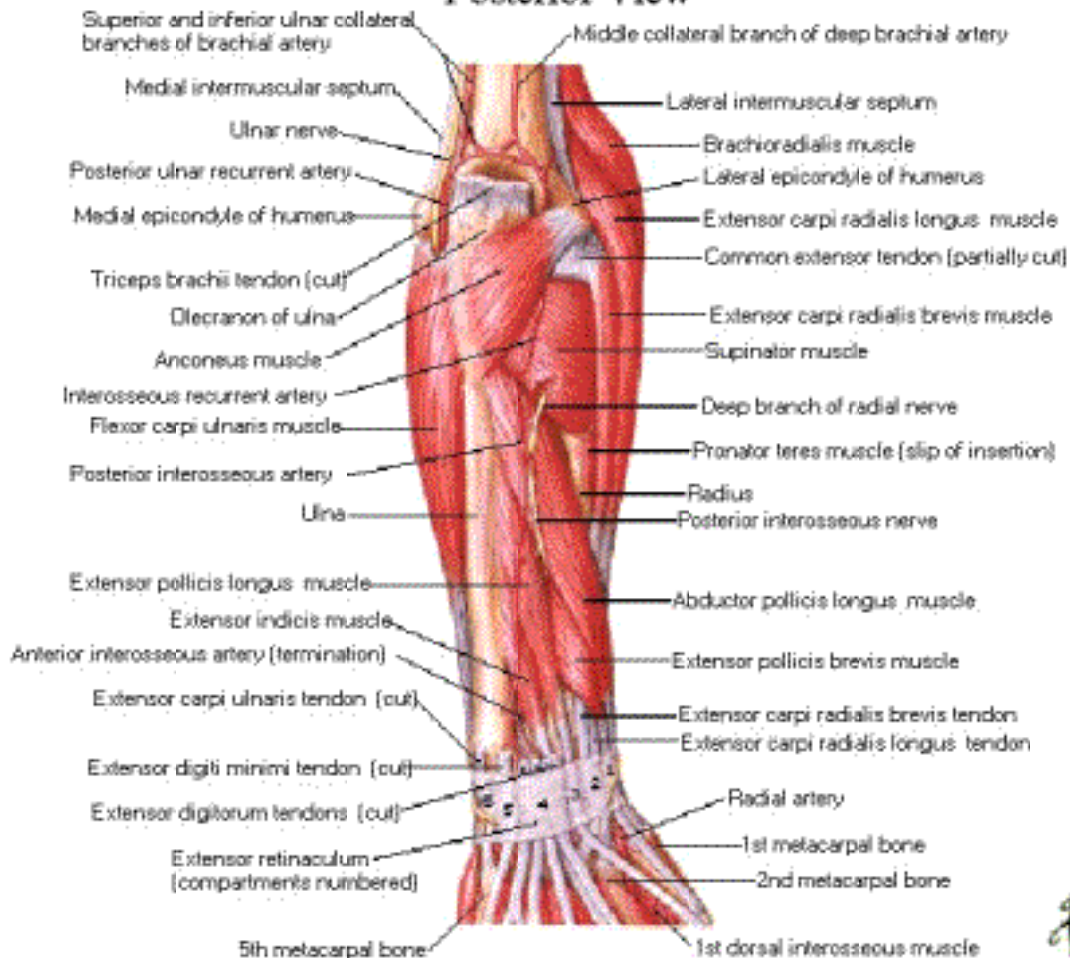
# Muscles of Forearm [Superficial Layer]

## Posterior View



# Muscles of Forearm [Deep Layer]

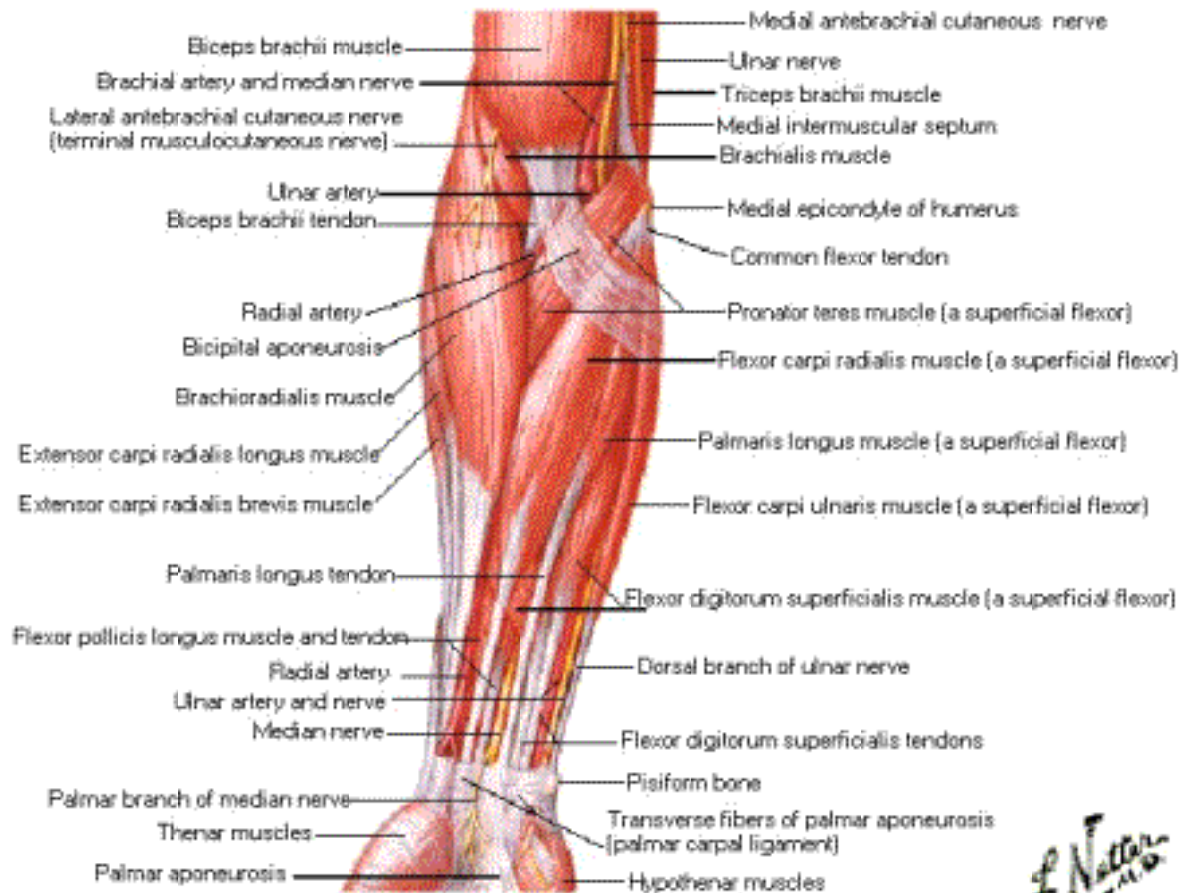
## Posterior View



9

# Muscles of Forearm [Superficial Layer]

## Anterior View

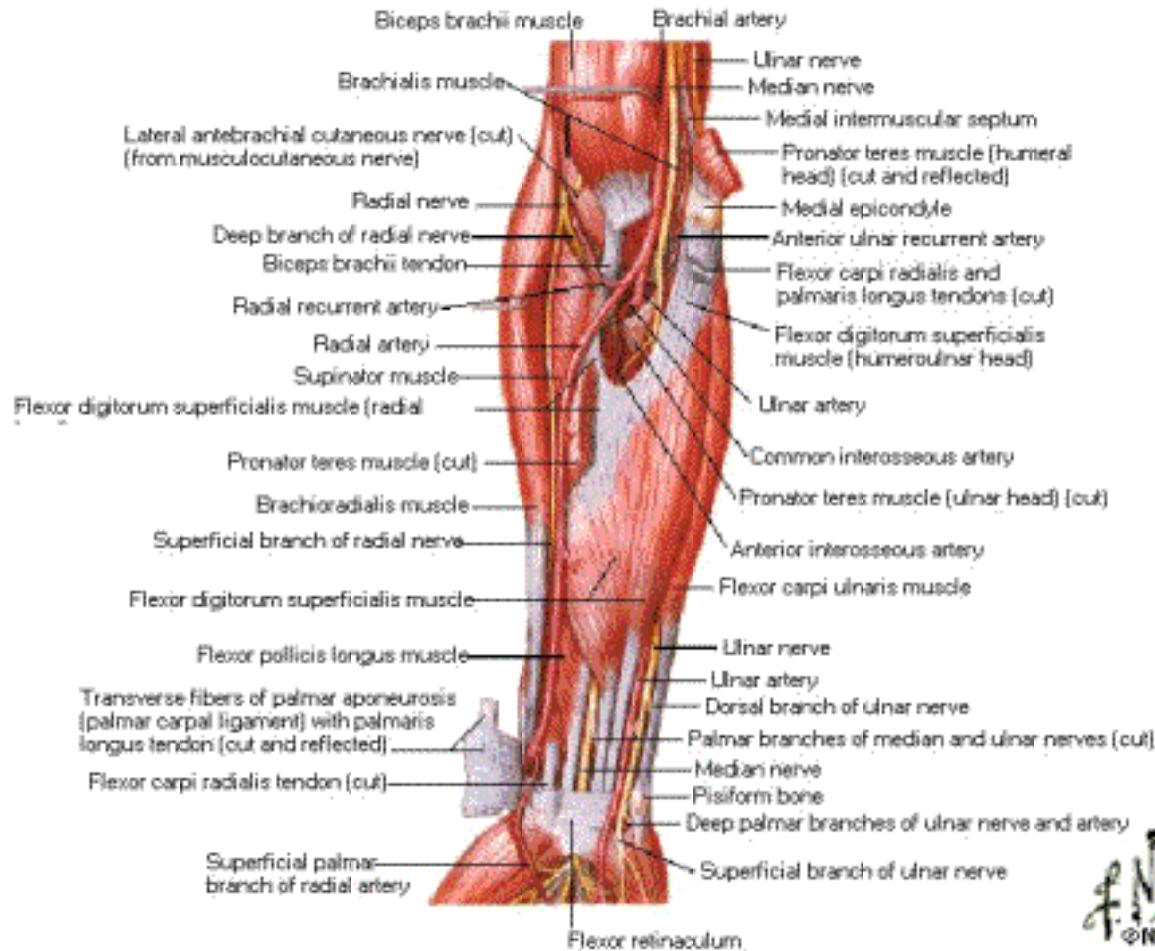


*F. Netter M.D.*



# Muscles of Forearm [Intermediate Layer]

## Anterior View



# Muscles of Forearm [Deep Layer]

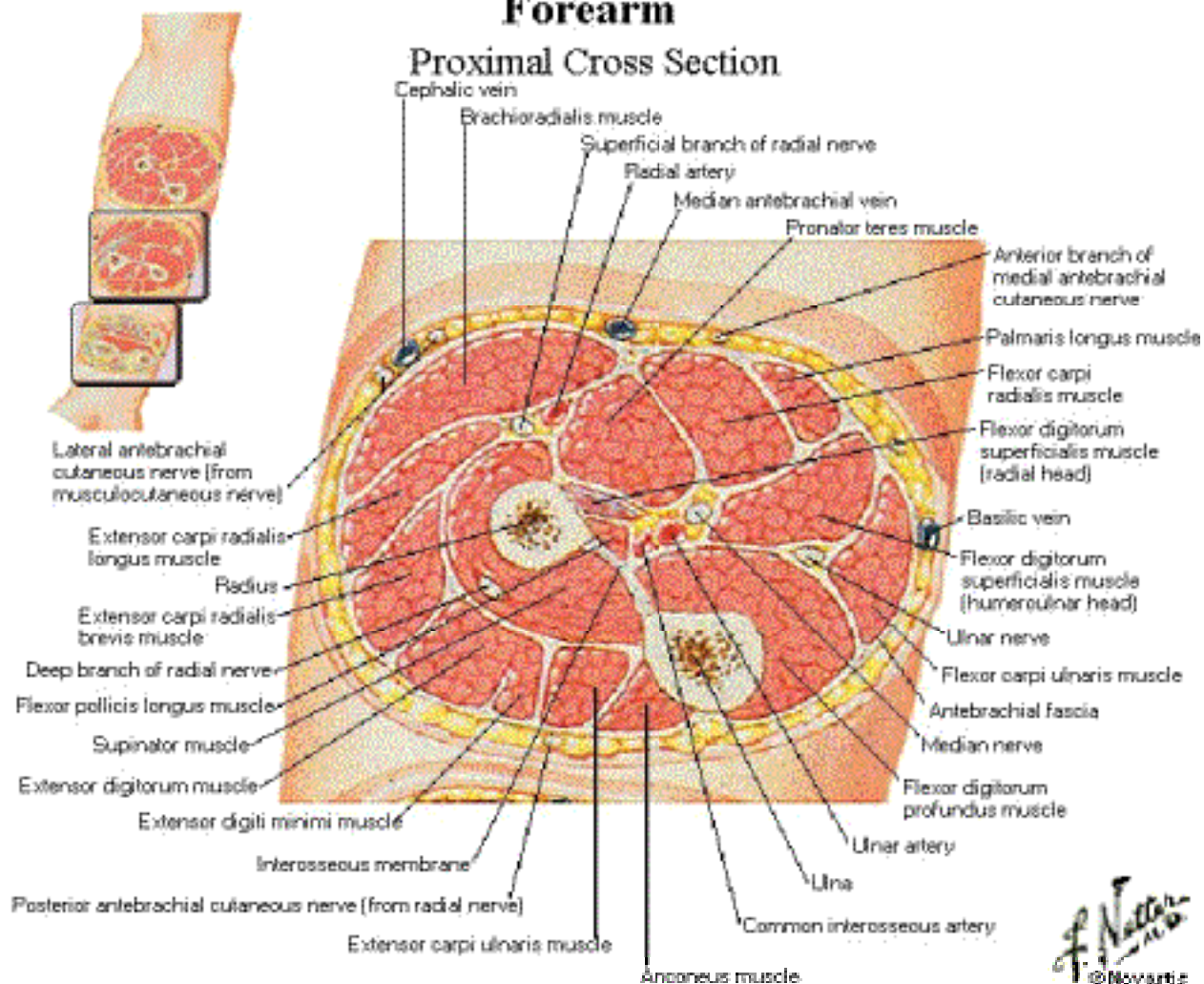
## Anterior View



*F. Natta*  
© Natta

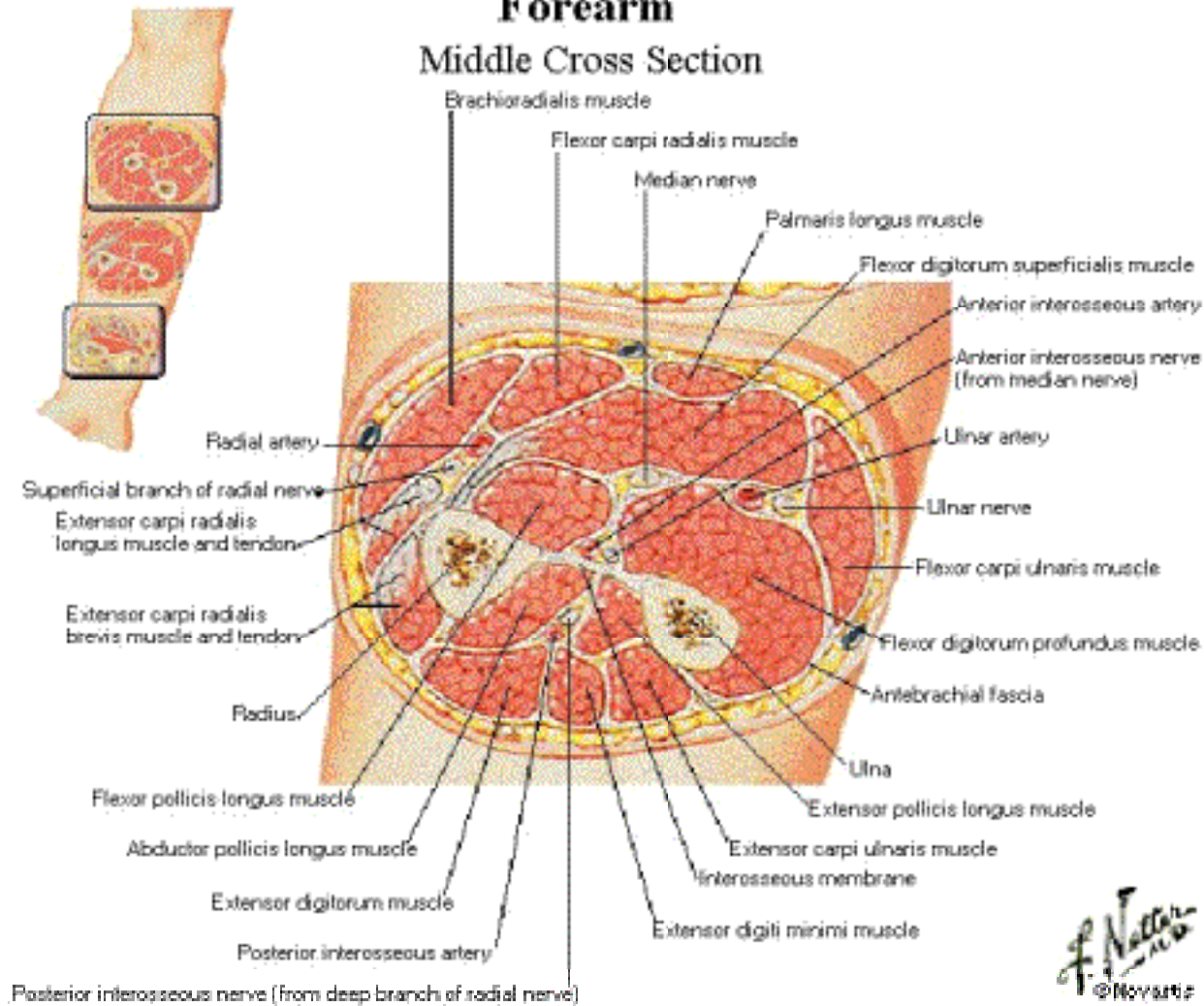
# Forearm

## Proximal Cross Section



# Forearm

## Middle Cross Section

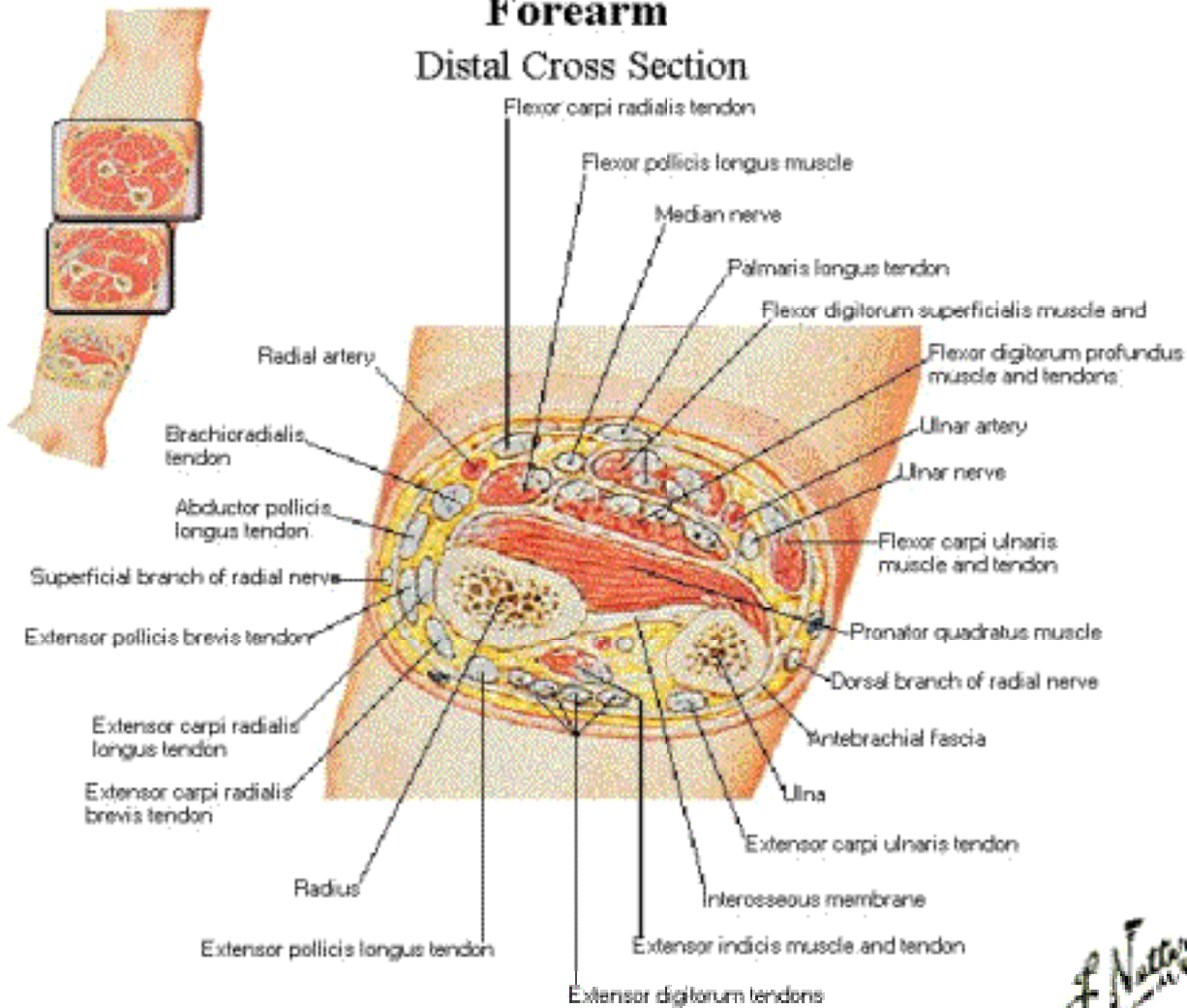


*F. Natta*  
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# Forearm

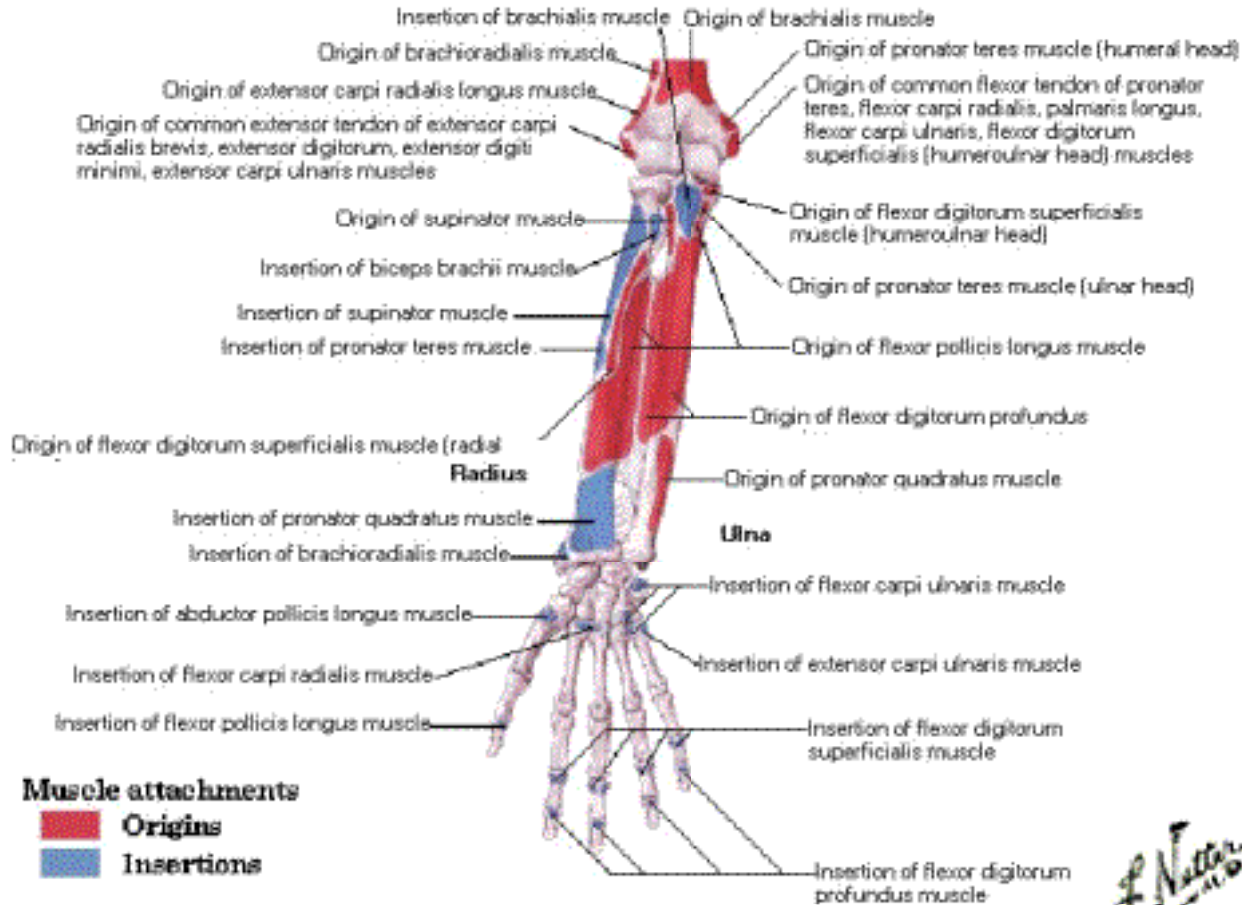
## Distal Cross Section



*F. Natter*

# Bony Attachments of Muscles of Forearm

## Anterior View



**Muscle attachments**

- Origins**
- Insertions**

Note: attachments of intrinsic muscles of hand not shown



# Bony Attachments of Muscles of Forearm

## Muscle attachments

- Origins**
- Insertions**

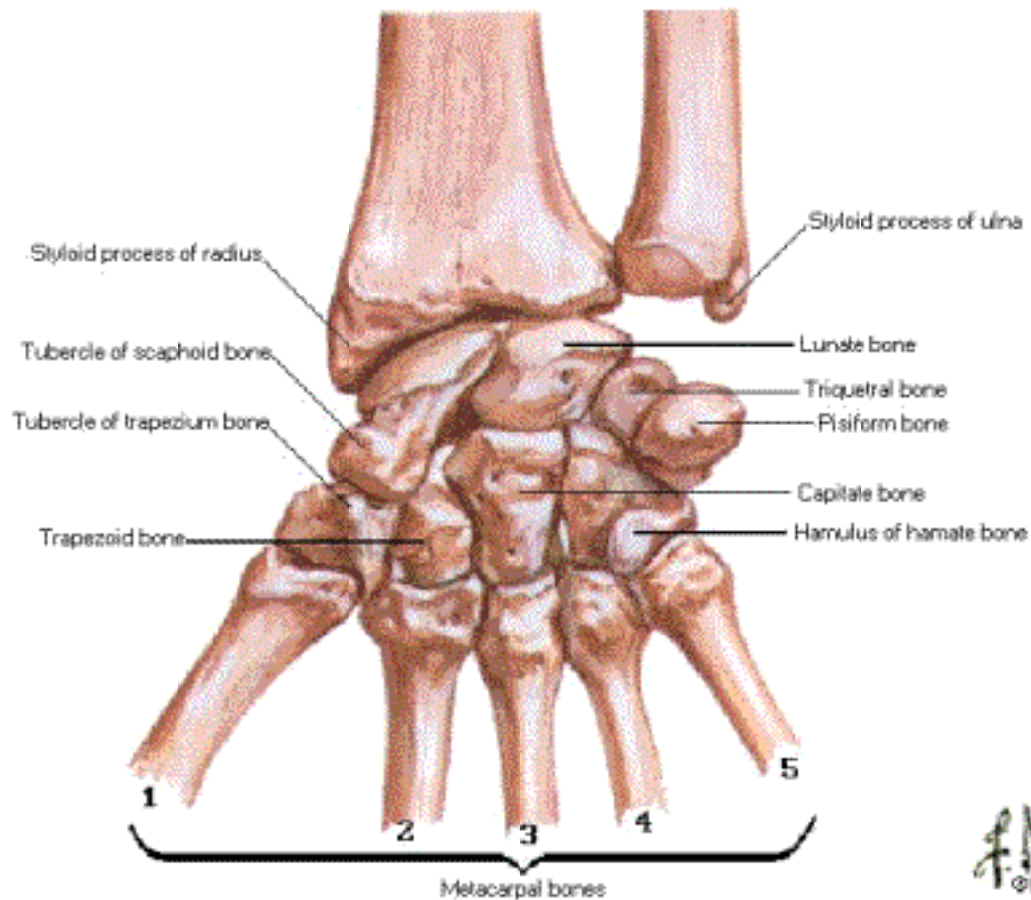
## Posterior View



*F. Netter*  
© 1994

# Carpal Bones

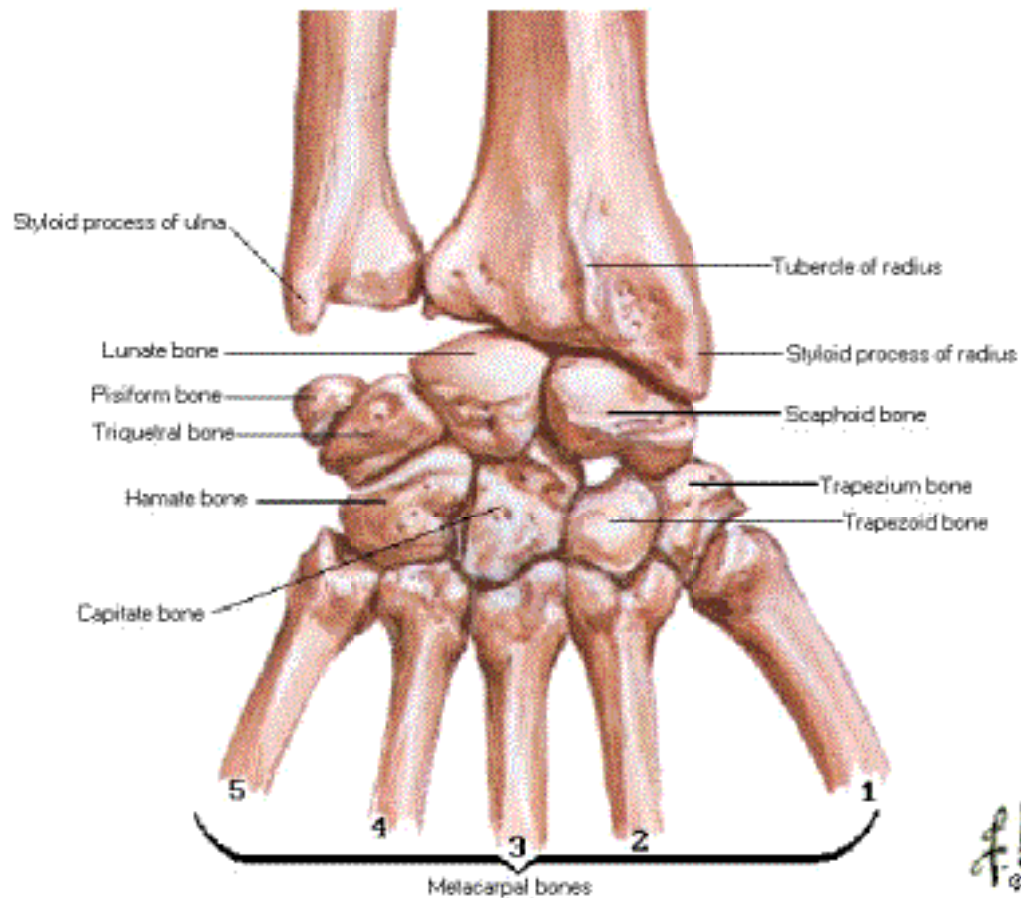
## Anterior [Palmar] View





# Carpal Bones

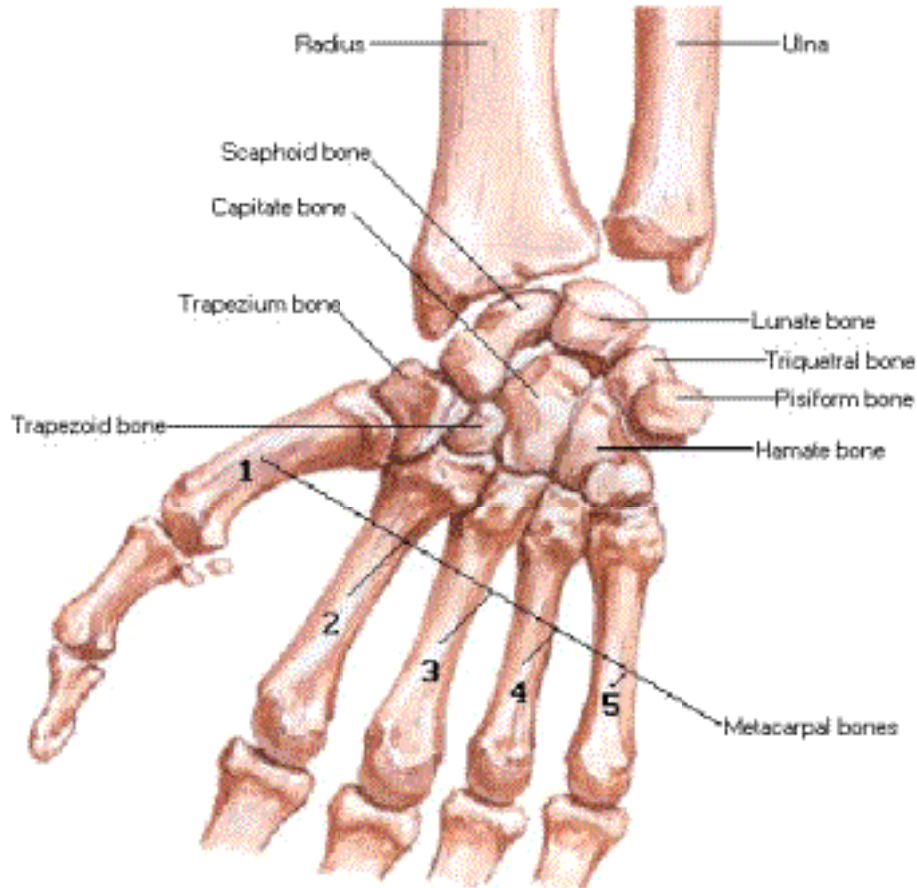
## Posterior [Dorsal] View



f!

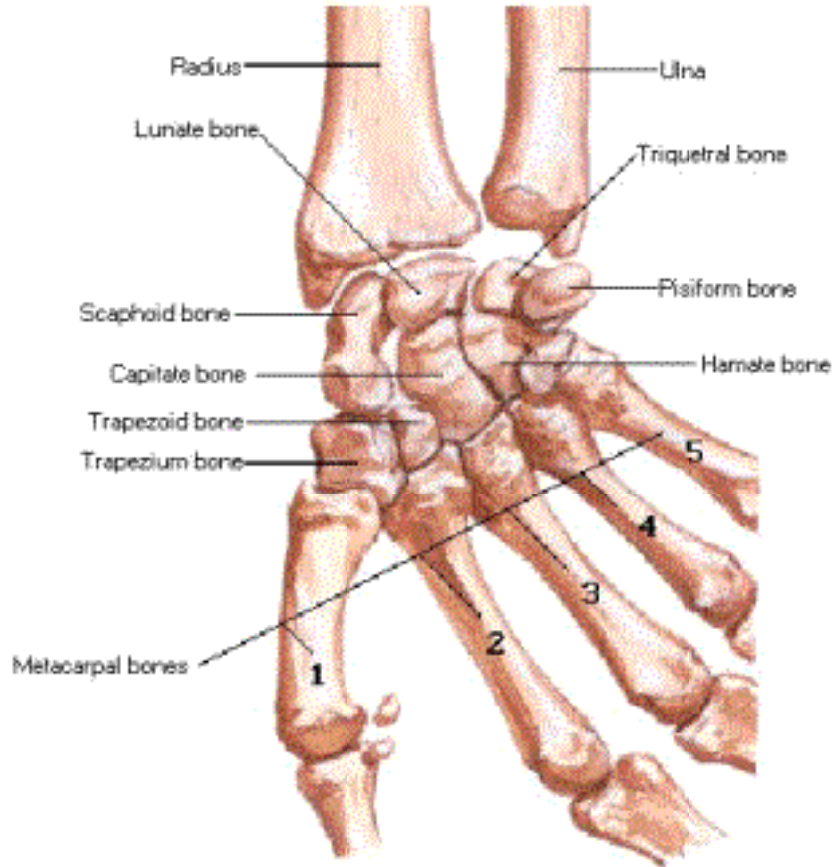
# Movements of Wrist

Hand in Abduction - Anterior [Palmar] View



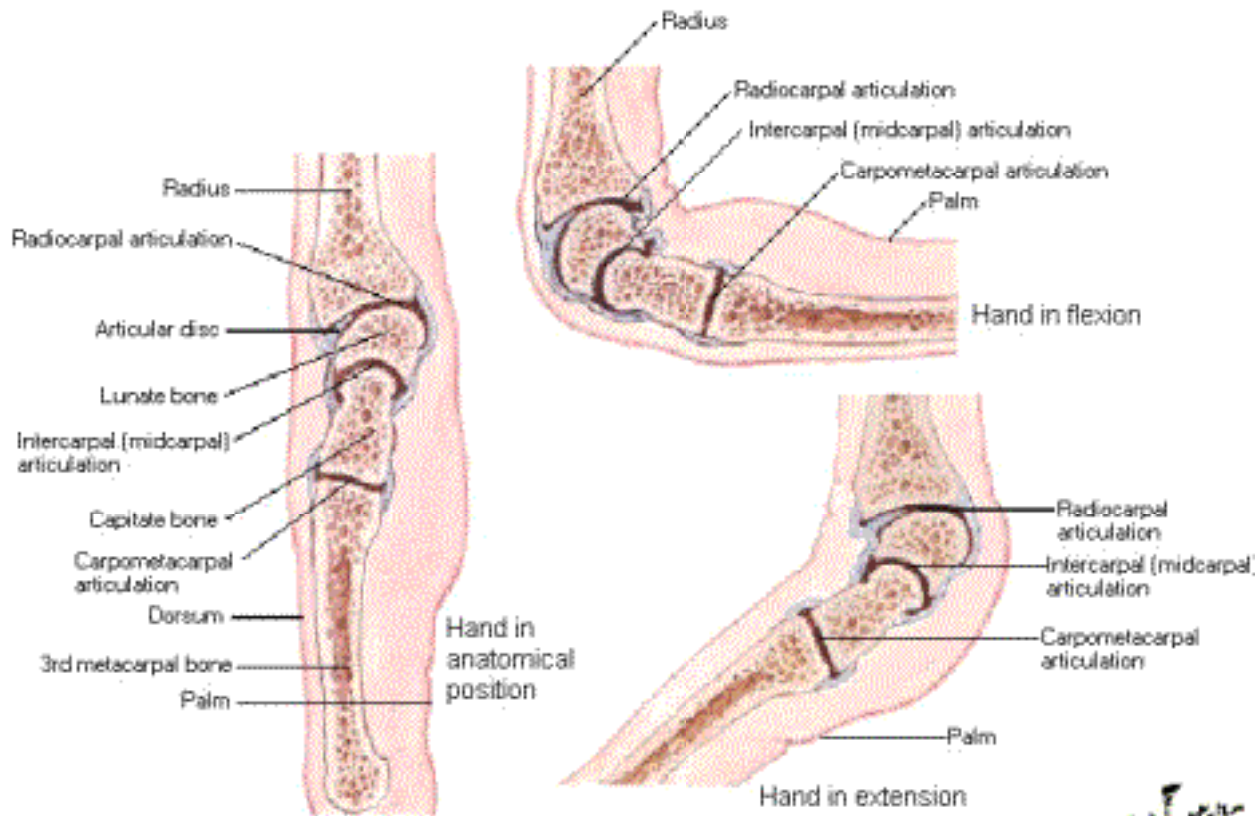
# Movements of Wrist

Hand in Adduction - Anterior [Palmar] View



# Movements of Wrist

## Sagittal Sections

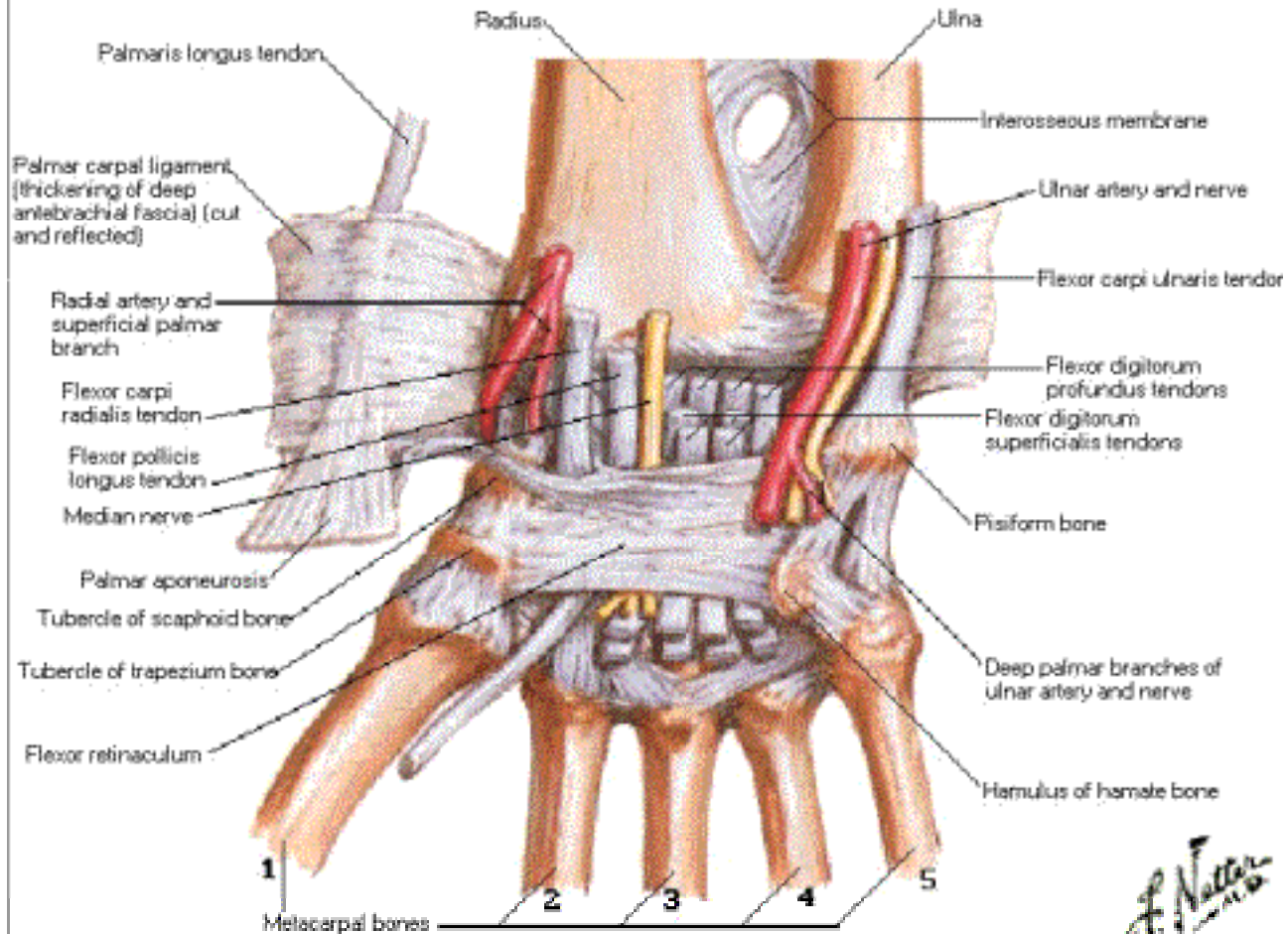


Sagittal sections through wrist and middle finger



# Ligaments of Wrist

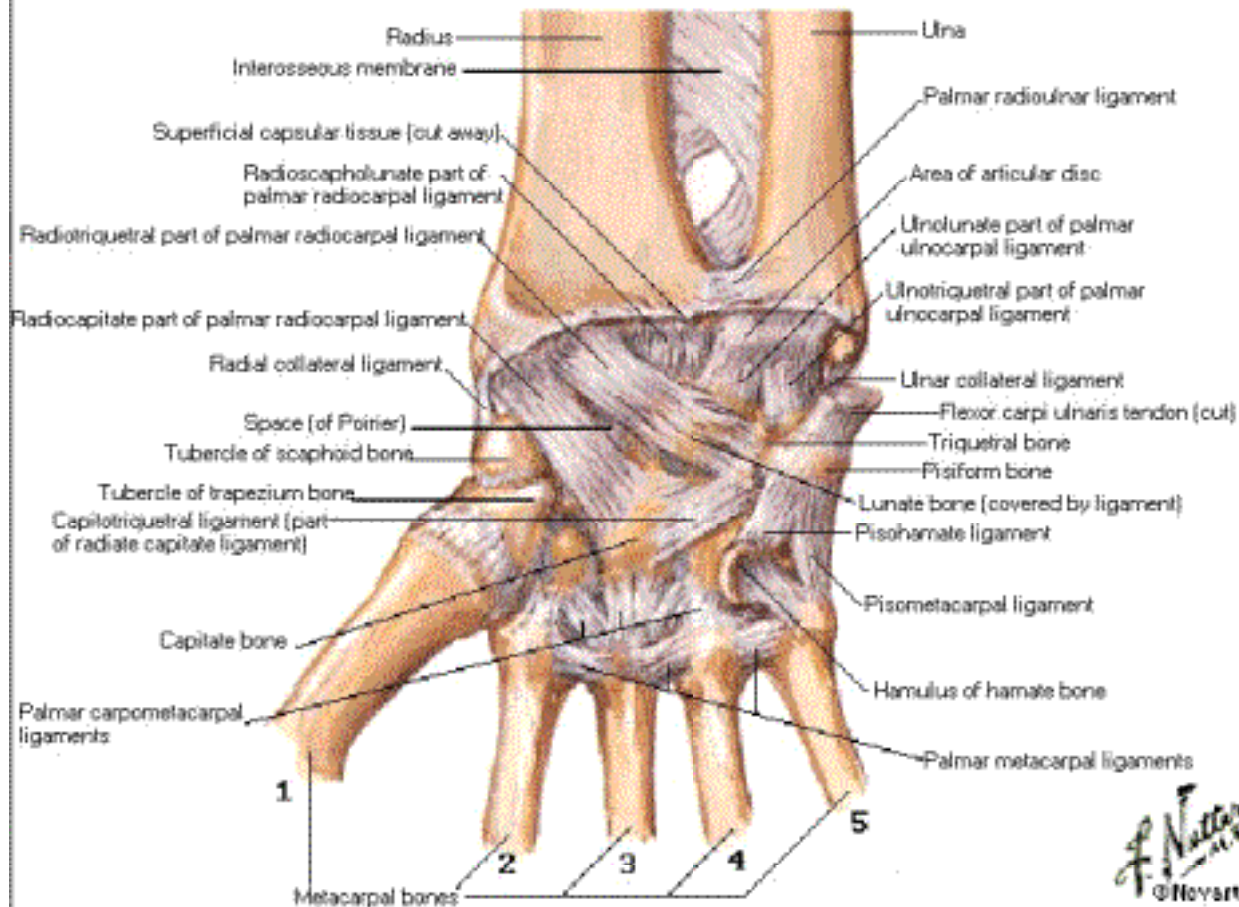
## Carpal Tunnel - Palmar View



*F. Netter M.D.*

# Ligaments of Wrist

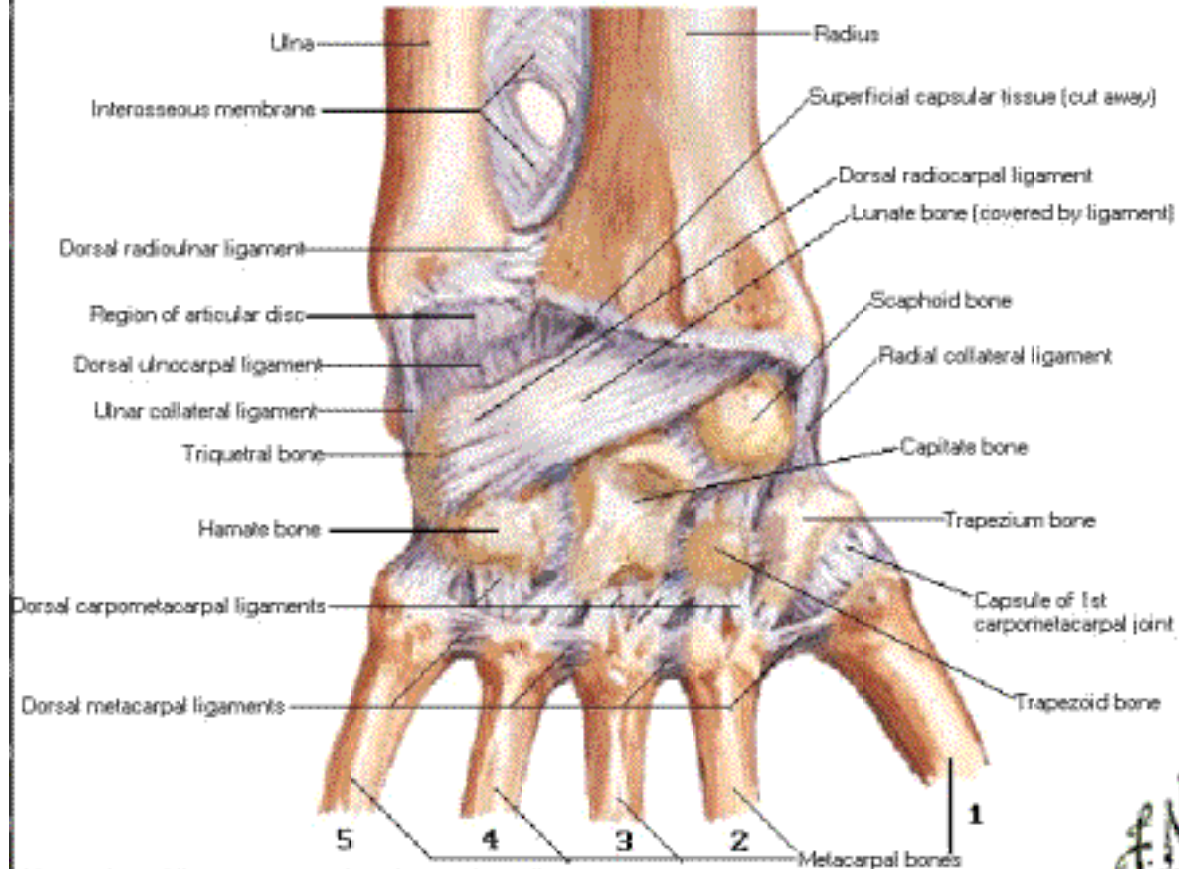
## Flexor Retinaculum Removed - Palmar View



*F. Netter M.D.*  
© Netter

# Ligaments of Wrist

## Posterior [Dorsal] View

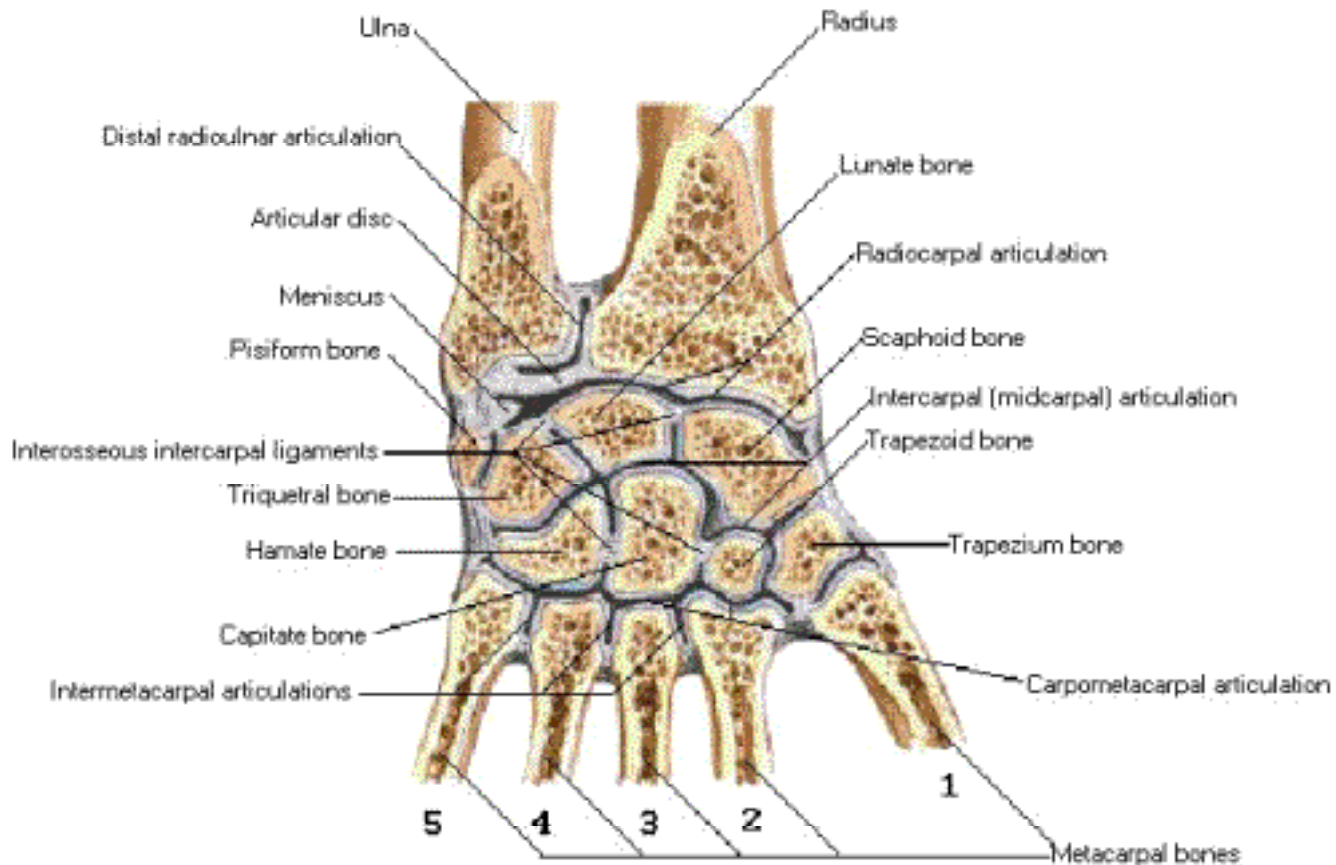


Note: dorsal ligaments weaker than palmar ligaments

F.N.  
©

# Ligaments of Wrist

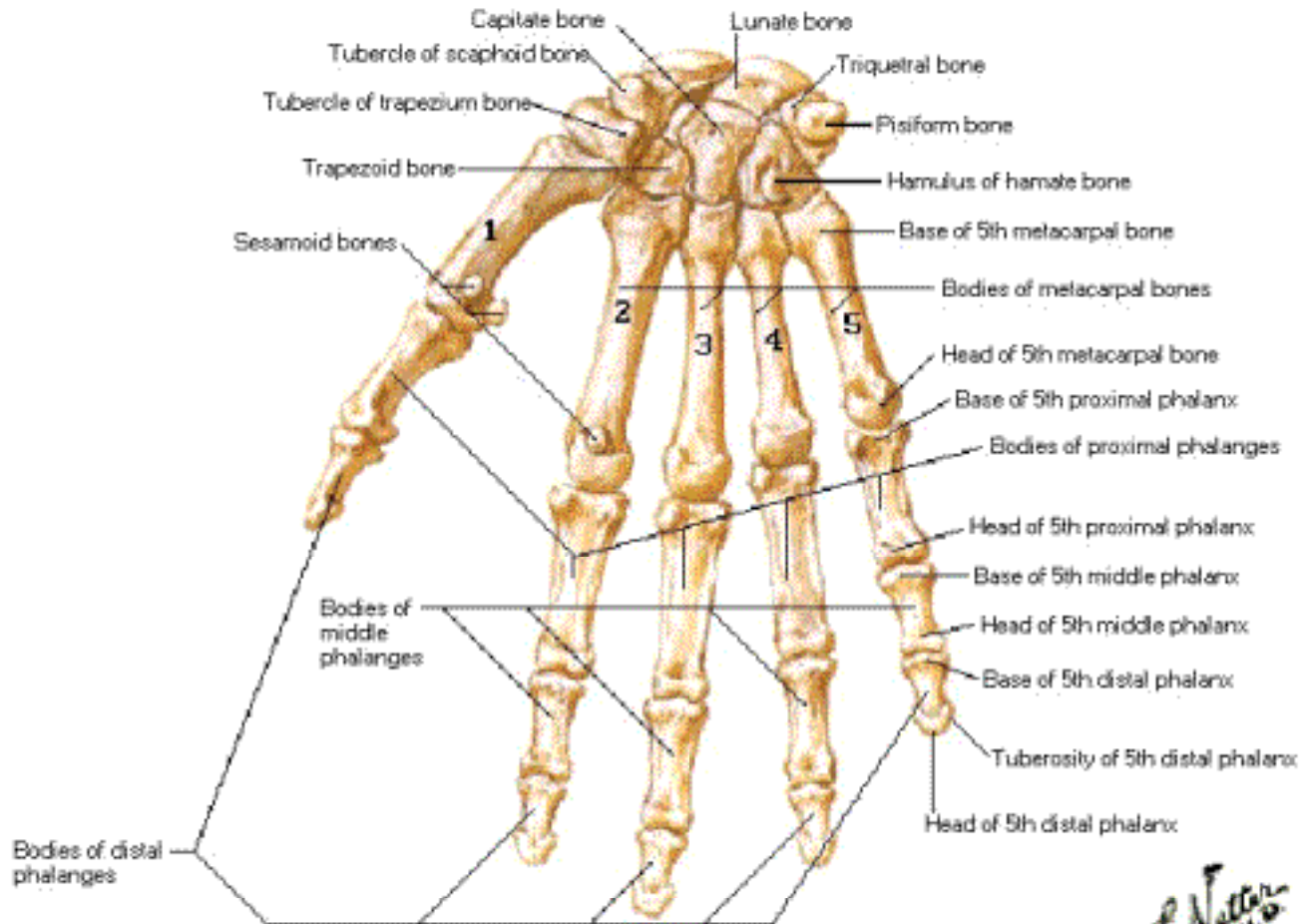
## Coronal Section - Dorsal View





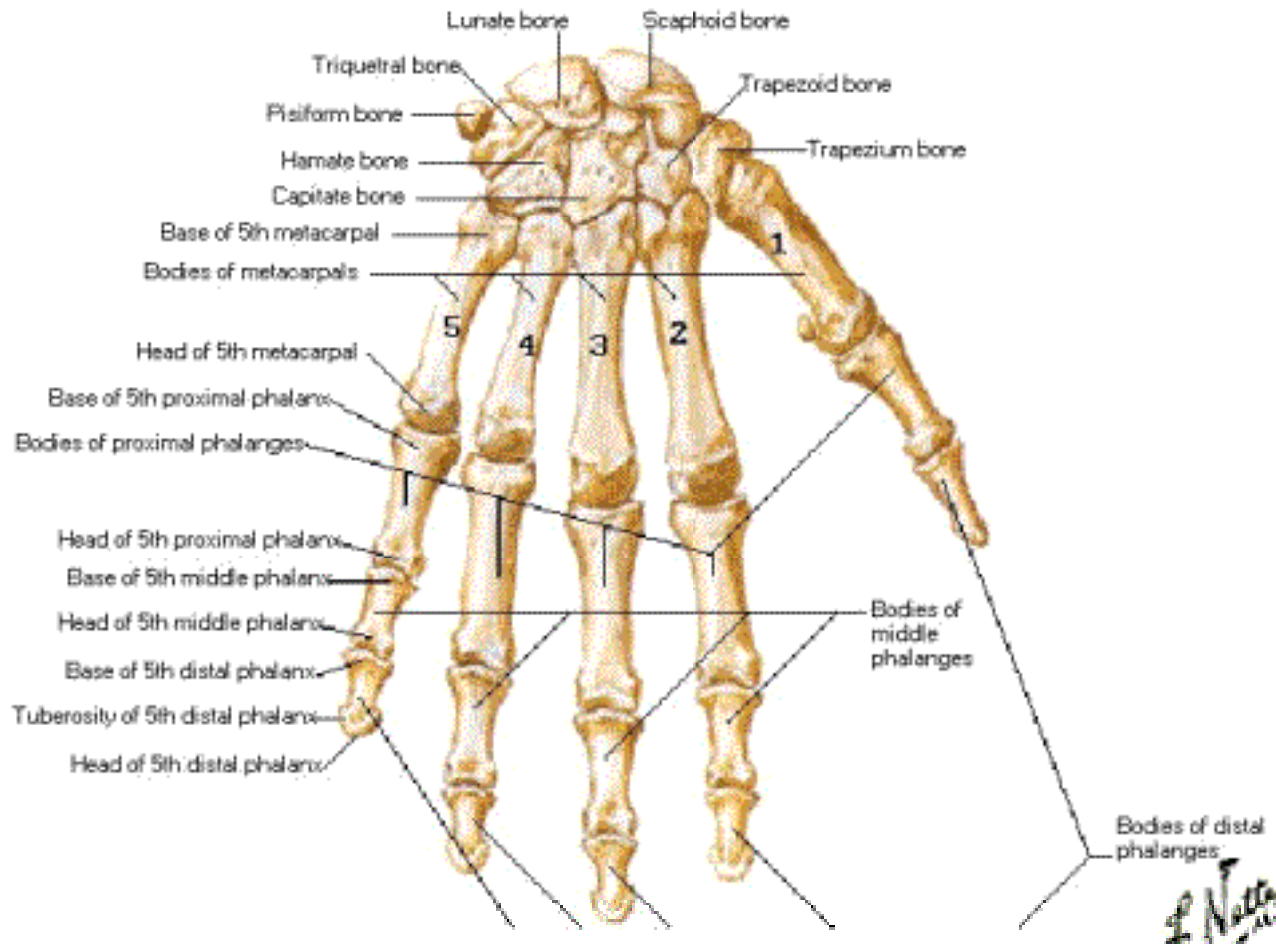
# Bones of Right Wrist and Hand

## Anterior [Palmar] View



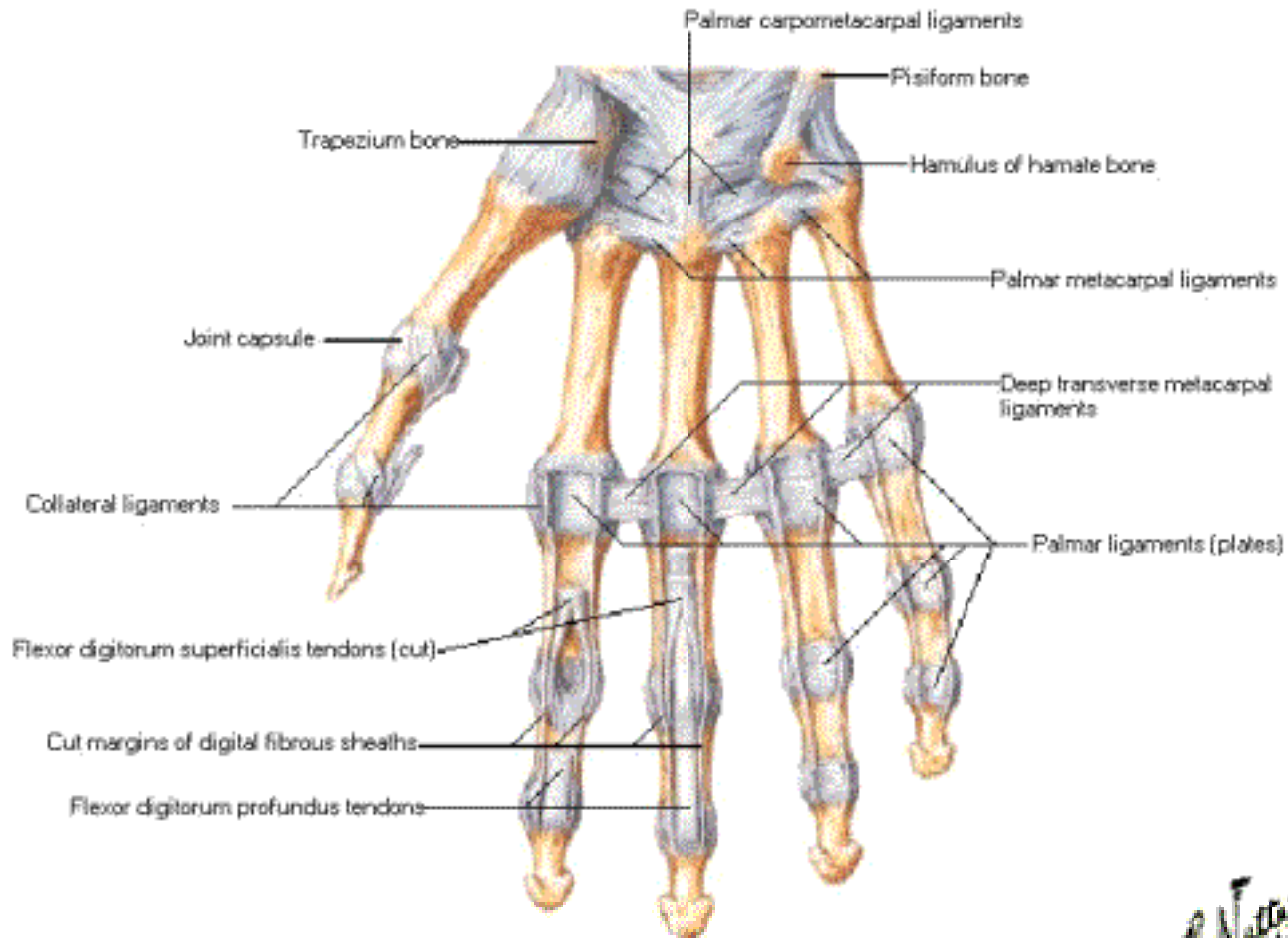
# Bones of Right Wrist and Hand

## Posterior [Dorsal] View



# Metacarpophalangeal and Interphalangeal Ligaments

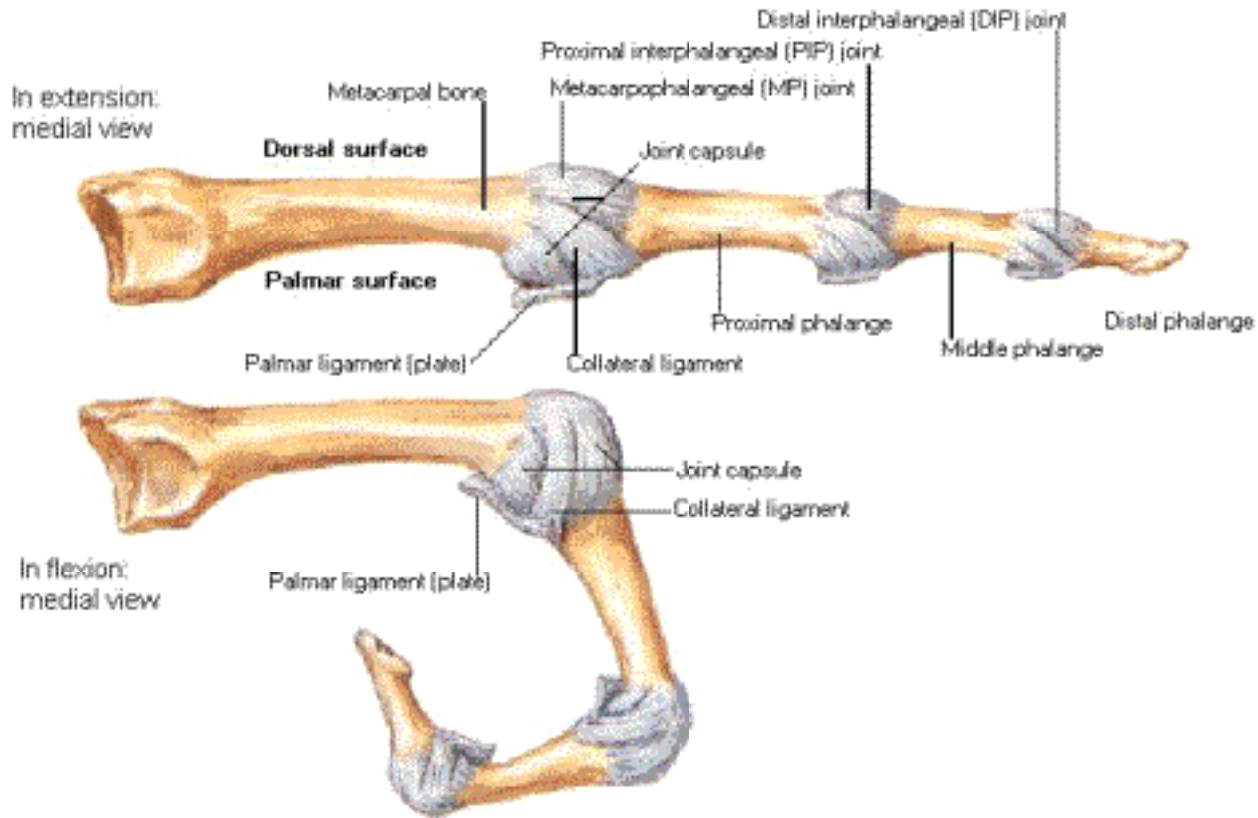
## Palmar View



*N. N. N.*

# Metacarpophalangeal and Interphalangeal Ligaments

## Medial Views



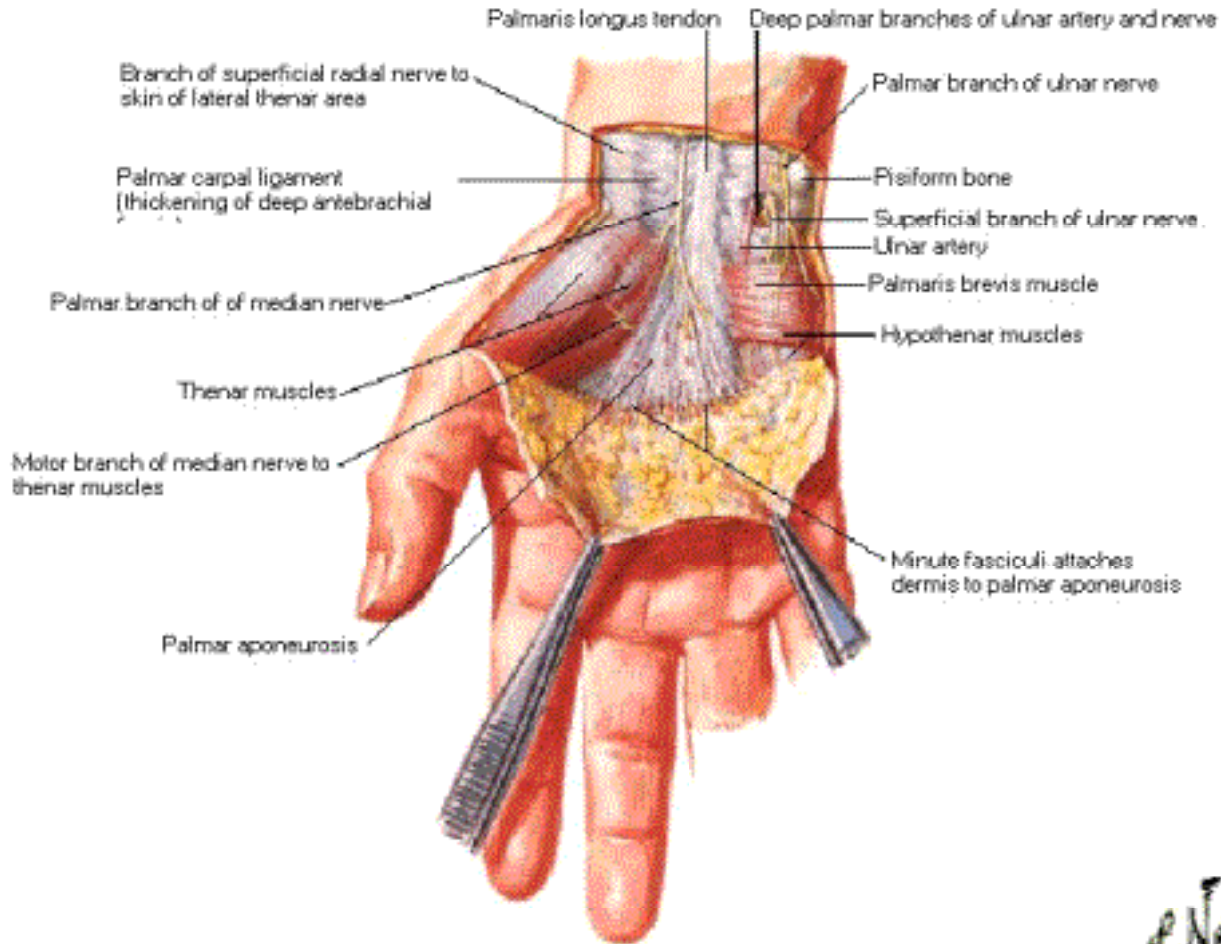
Note: Ligaments of metacarpophalangeal and interphalangeal joints are similar

*F. Netter M.D.*



# Wrist and Hand

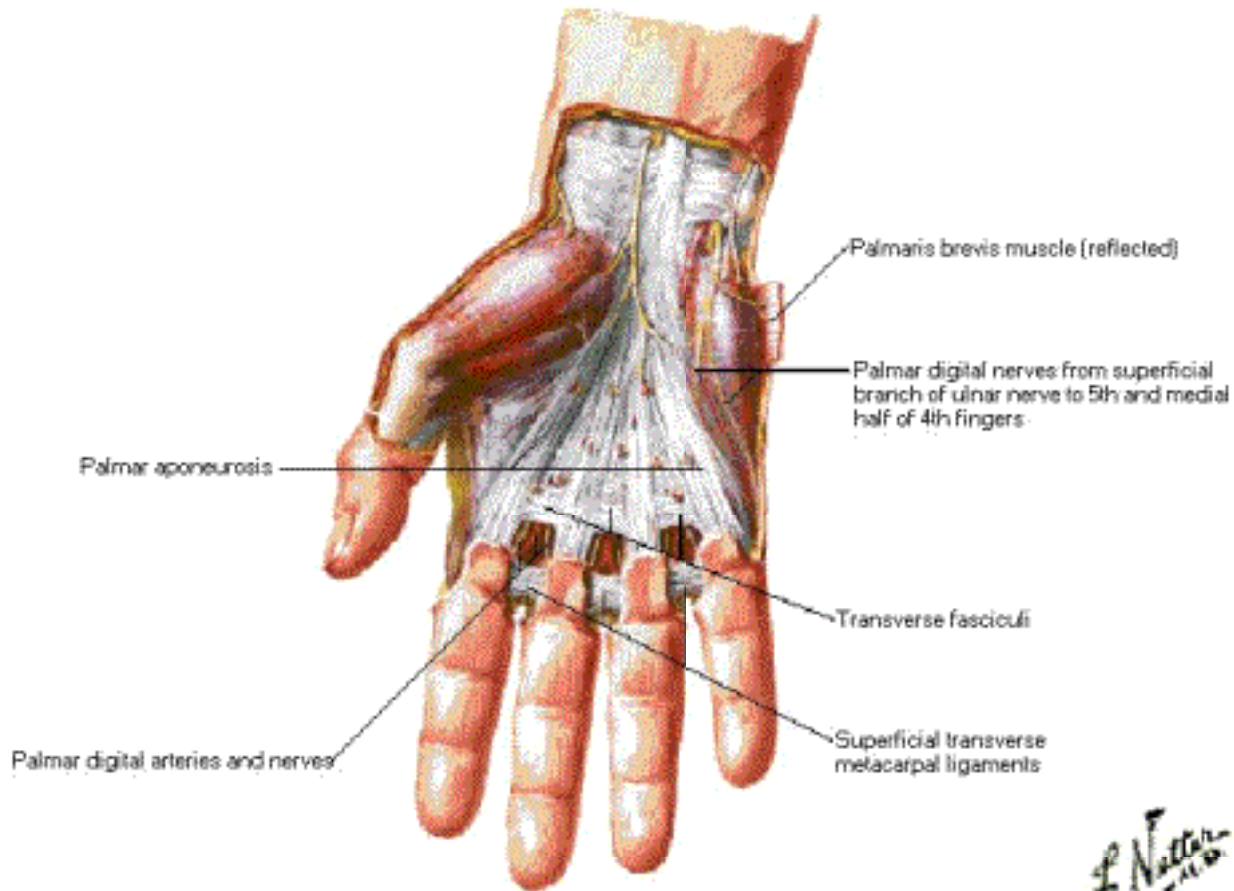
## Superficial Palmar Dissections



PNW

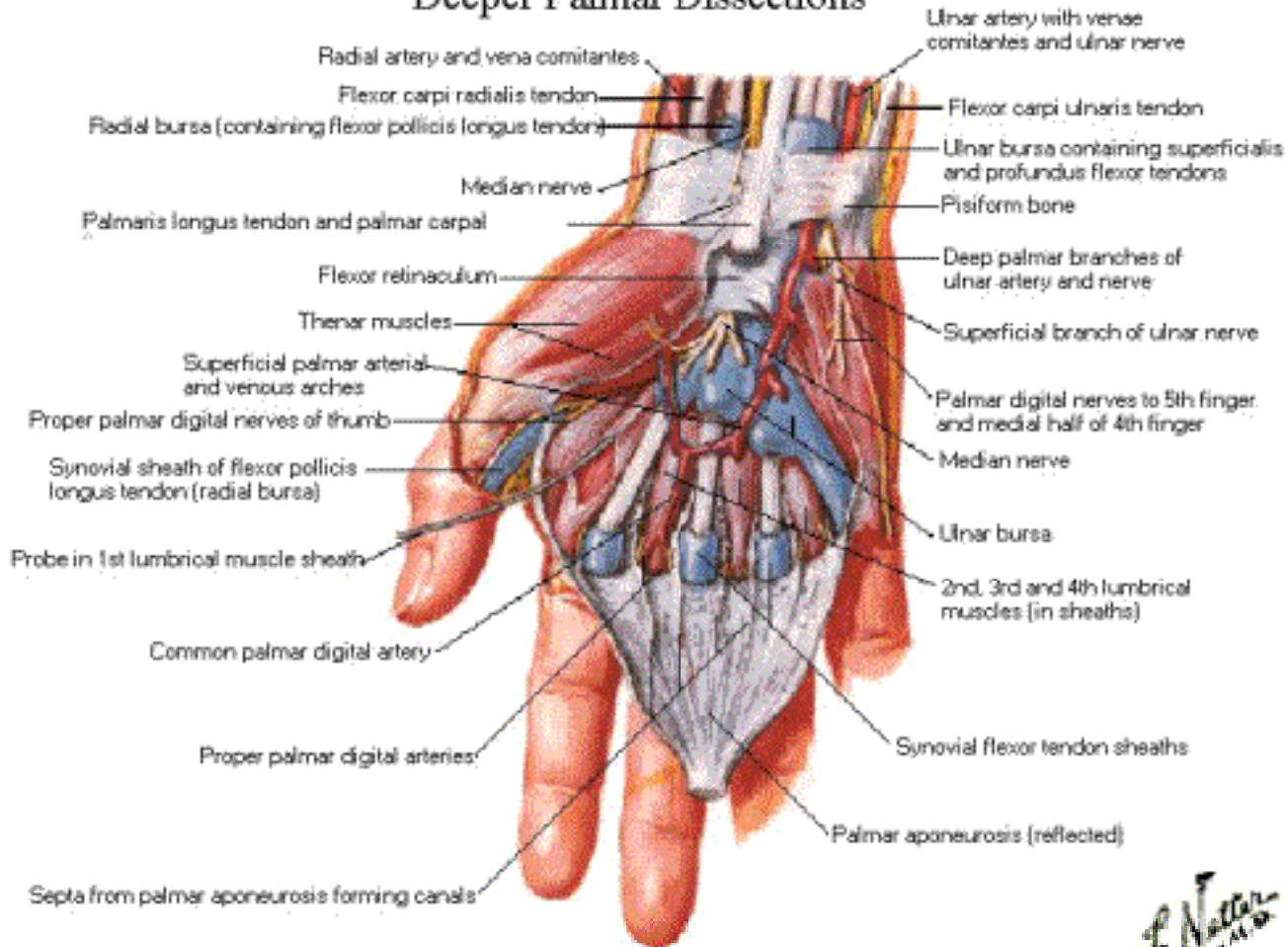
# Wrist and Hand

## Superficial Palmar Dissections [Continued]



# Wrist and Hand

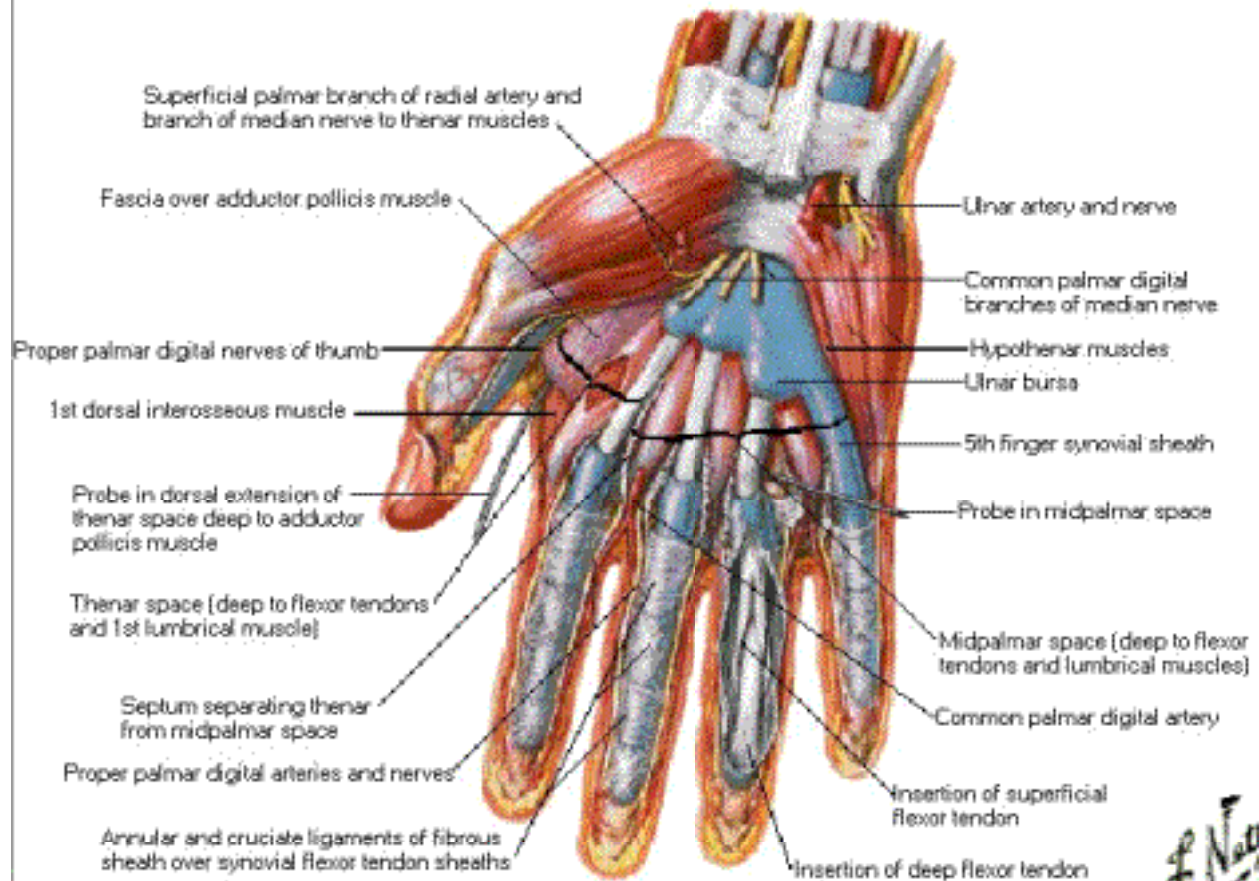
## Deeper Palmar Dissections



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# Wrist and Hand

## Deeper Palmar Dissections [Continued]

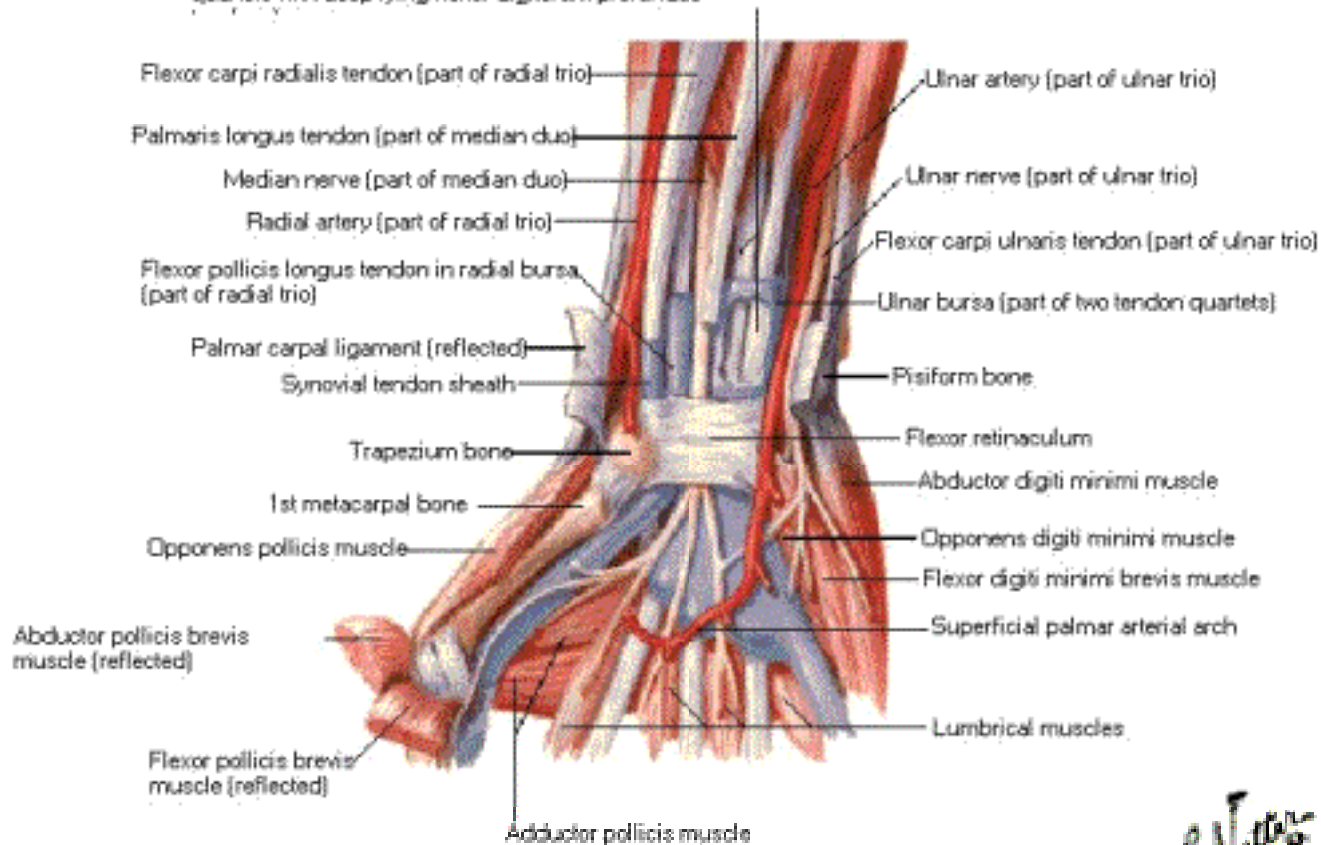




# Flexor Tendons, Arteries and Nerves at Wrist

## Palmar View

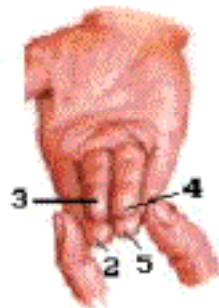
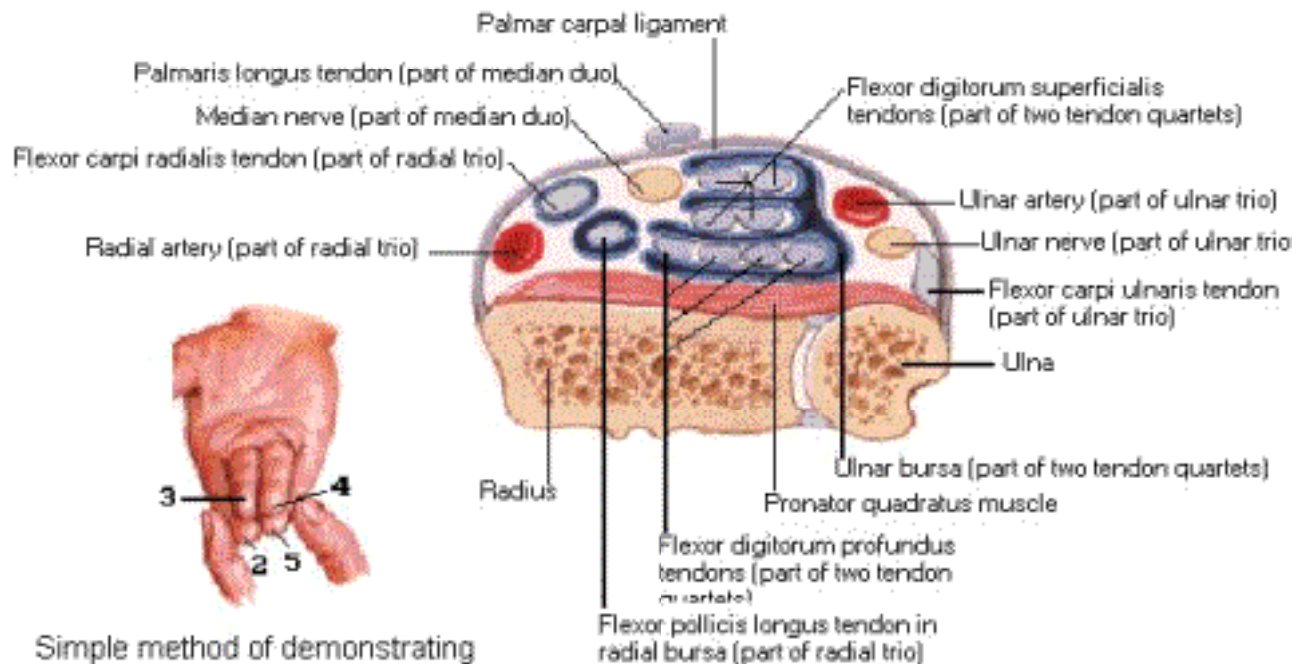
Flexor digitorum superficialis tendons (form part of two quartets with deep lying flexor digitorum profundus)



*Handwritten signature*

# Flexor Tendons, Arteries and Nerves at Wrist

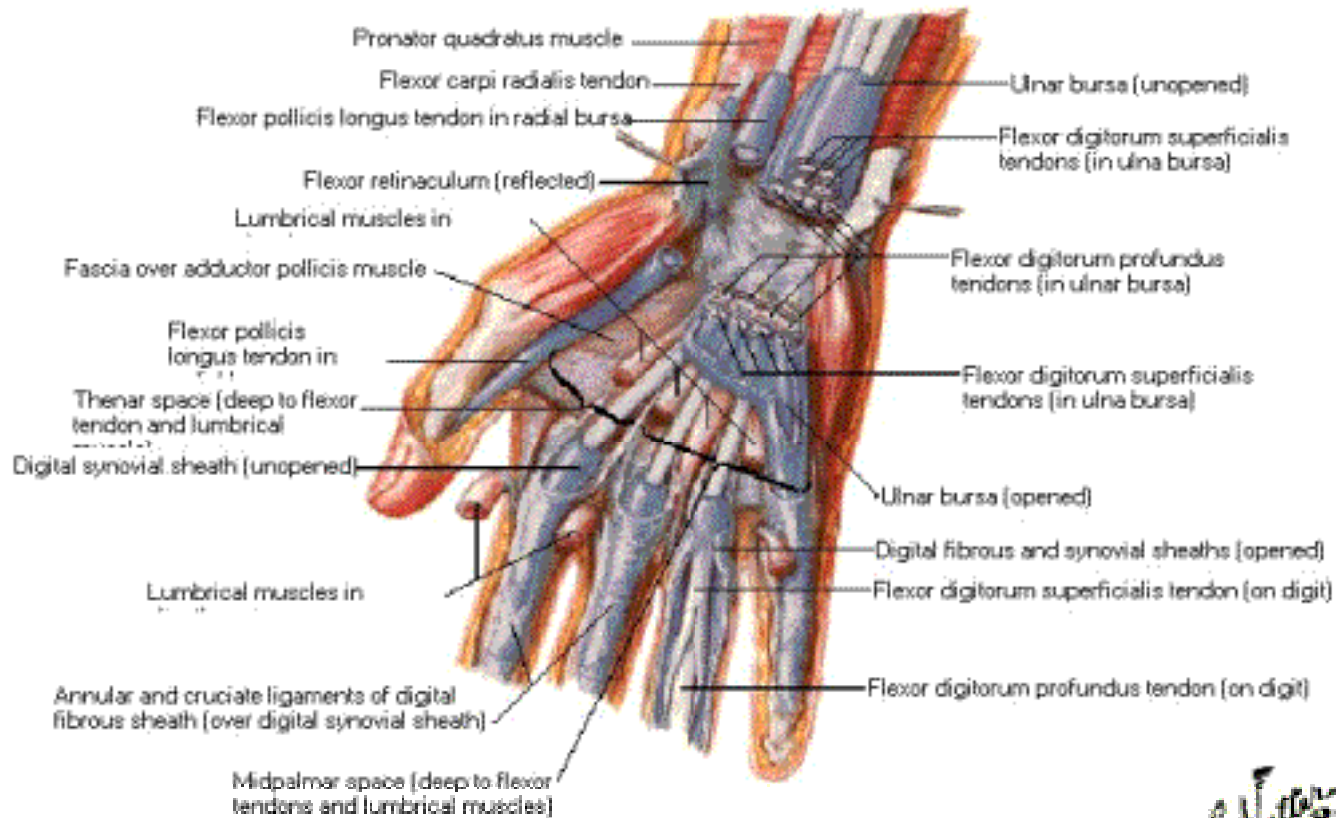
## Cross Section



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

# Bursae, Spaces and Tendon Sheaths of Hand

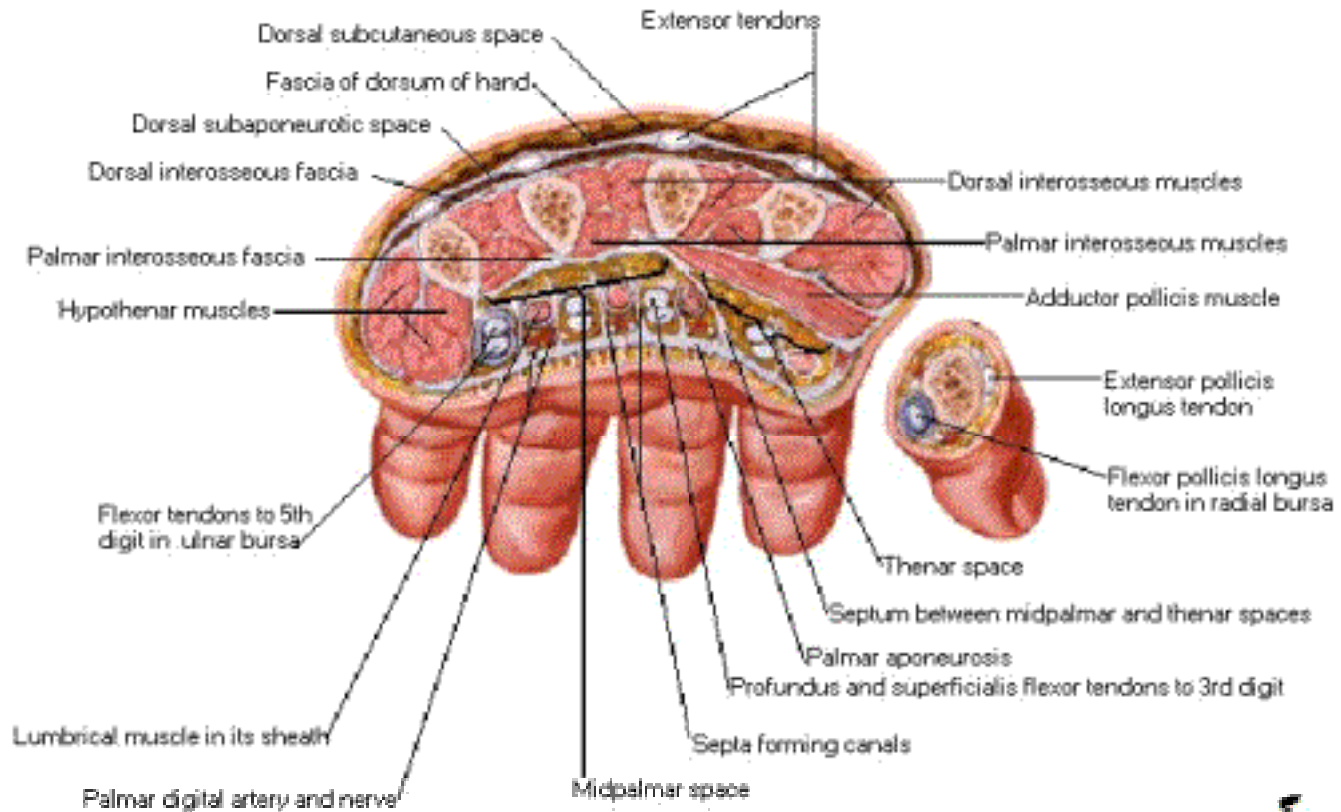
## Palmar View



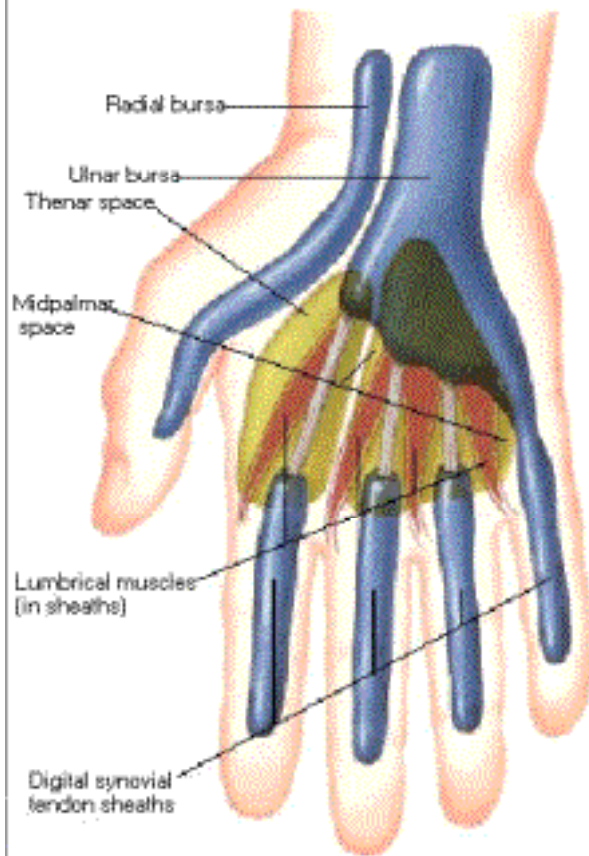
*Handwritten signature*

# Bursae, Spaces and Tendon Sheaths of Hand

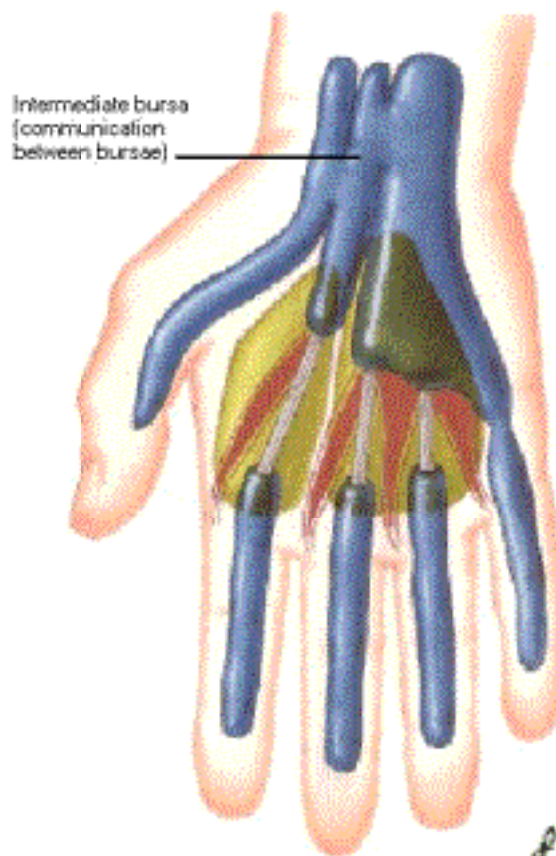
## Cross Section



# Lumbrical Muscles and Bursae, Spaces and Sheaths Schema



Usual arrangement

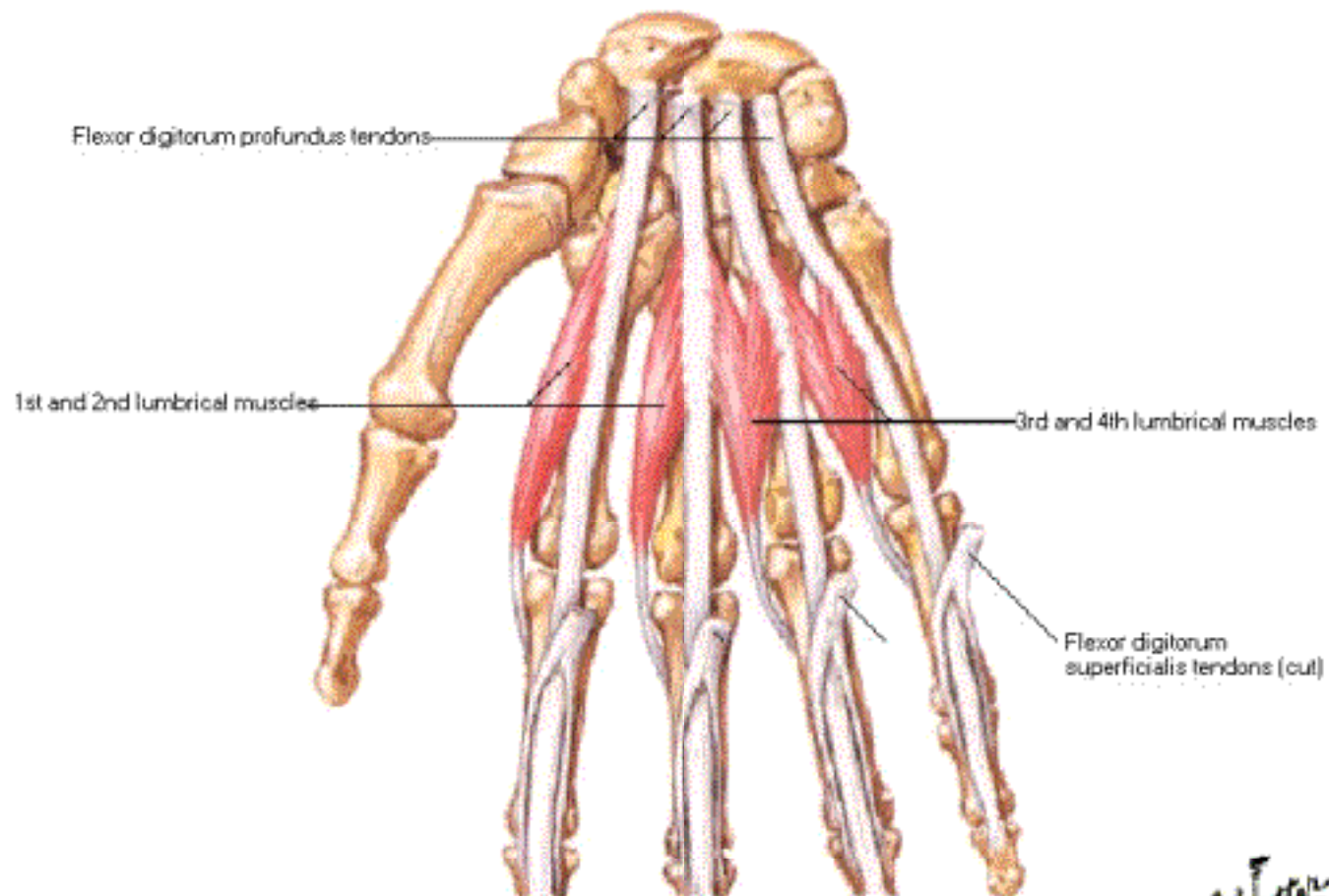


Common variation

*F.N.*  
2010



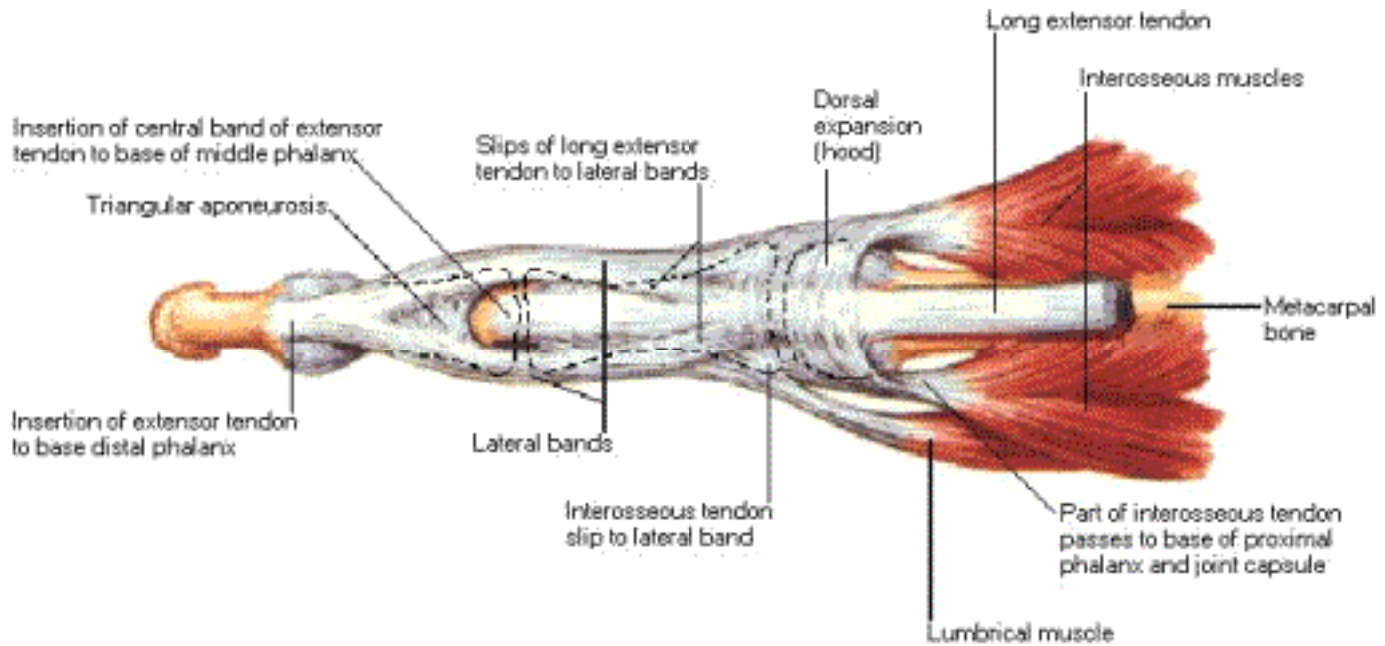
# Lumbrical Muscles Schema



asif rida

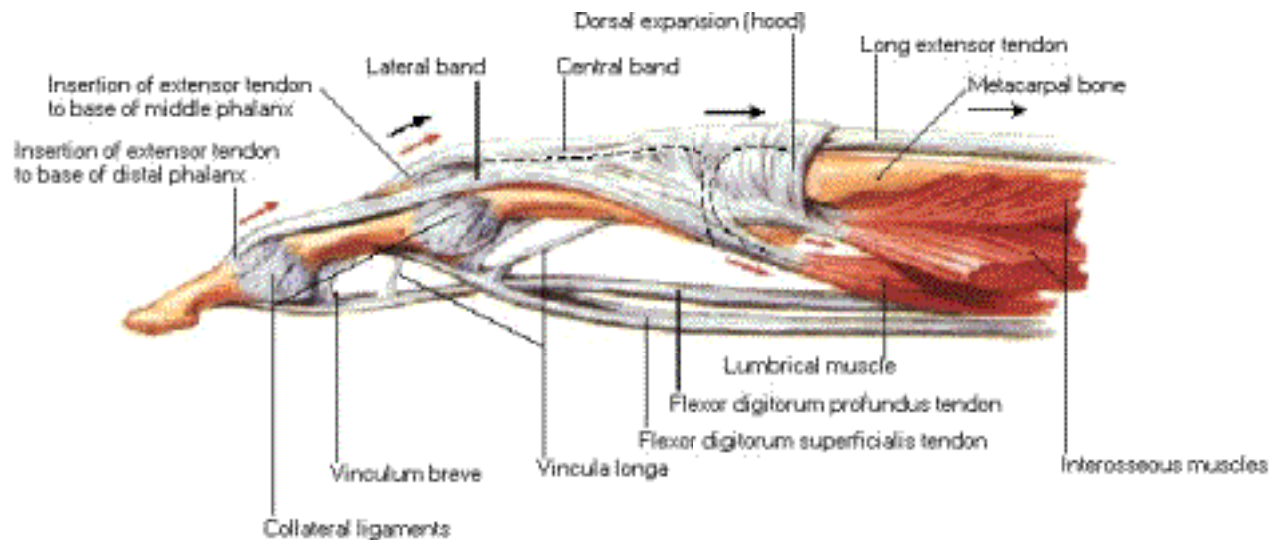
# Flexor and Extensor Tendons in Fingers

## Posterior [Dorsal] View



# Flexor and Extensor Tendons in Fingers

## Extended - Lateral View

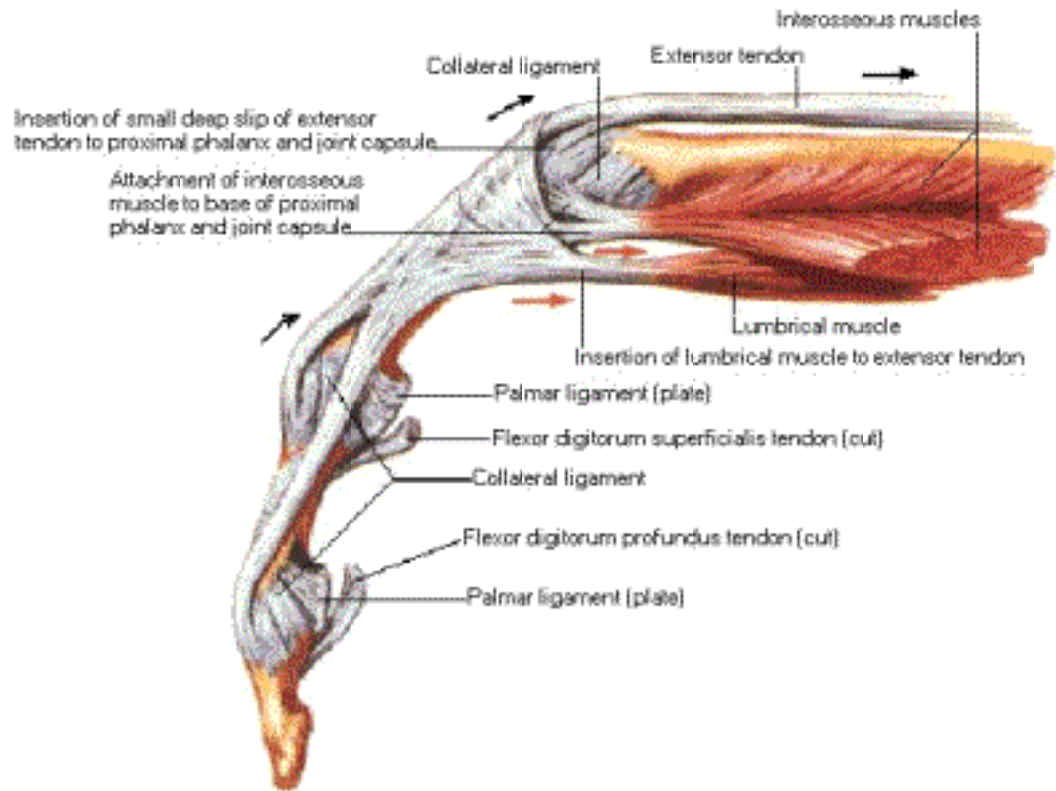


Note: black arrows indicate pull of long extensor tendon; red arrows indicate pull of interosseous and lumbrical muscles

*F. Netter M.D.*

# Flexor and Extensor Tendons in Fingers

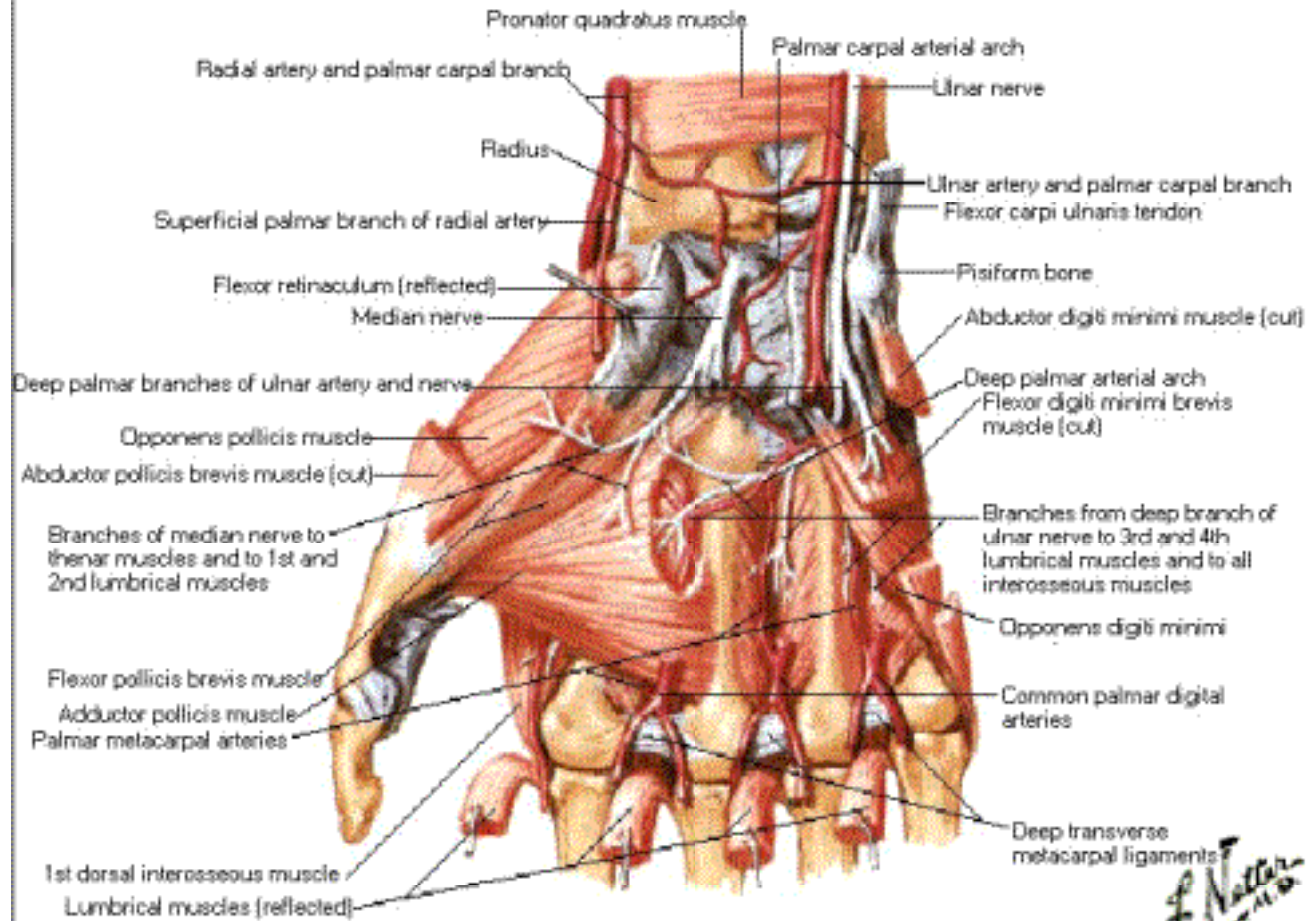
## Flexed - Lateral View



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

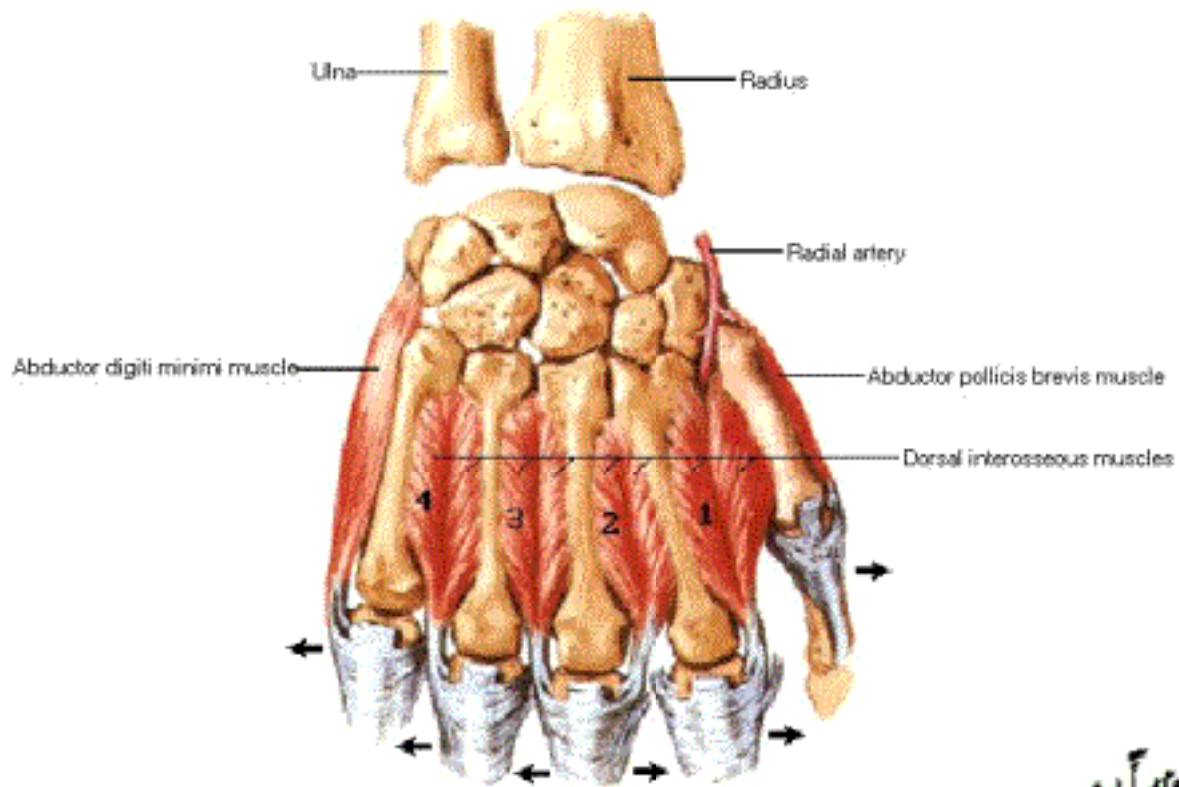


*F. Netter M.D.*



# Intrinsic Muscles of Hand

## Posterior [Dorsal] View

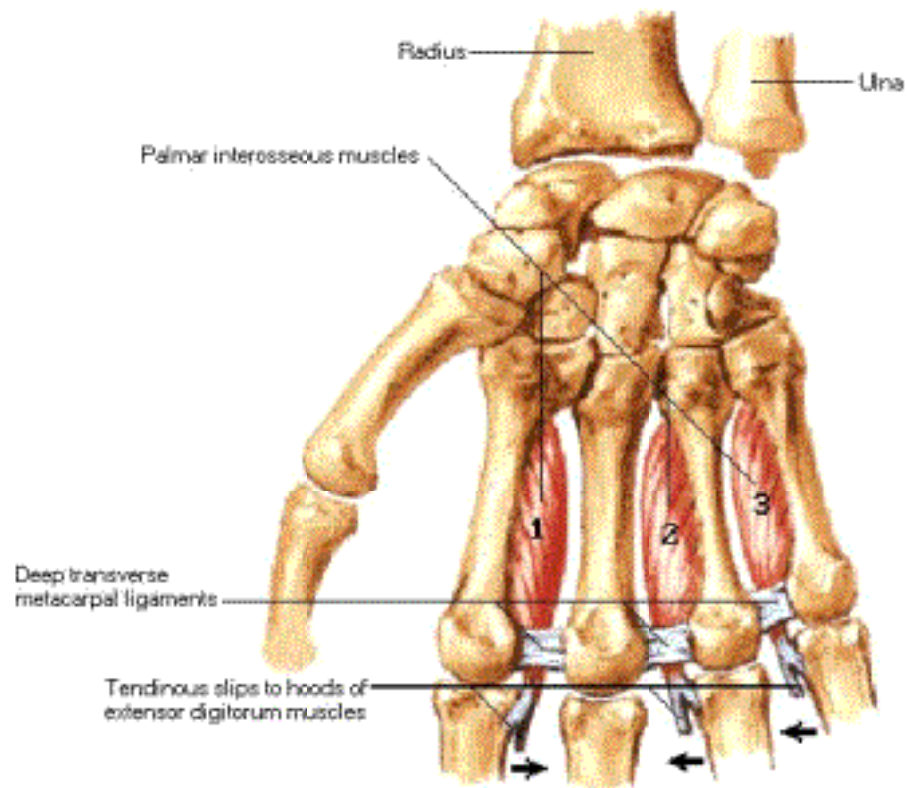


Note: arrows indicate action of muscles

*F. Netter M.D.*  
© 1989

# Intrinsic Muscles of Hand

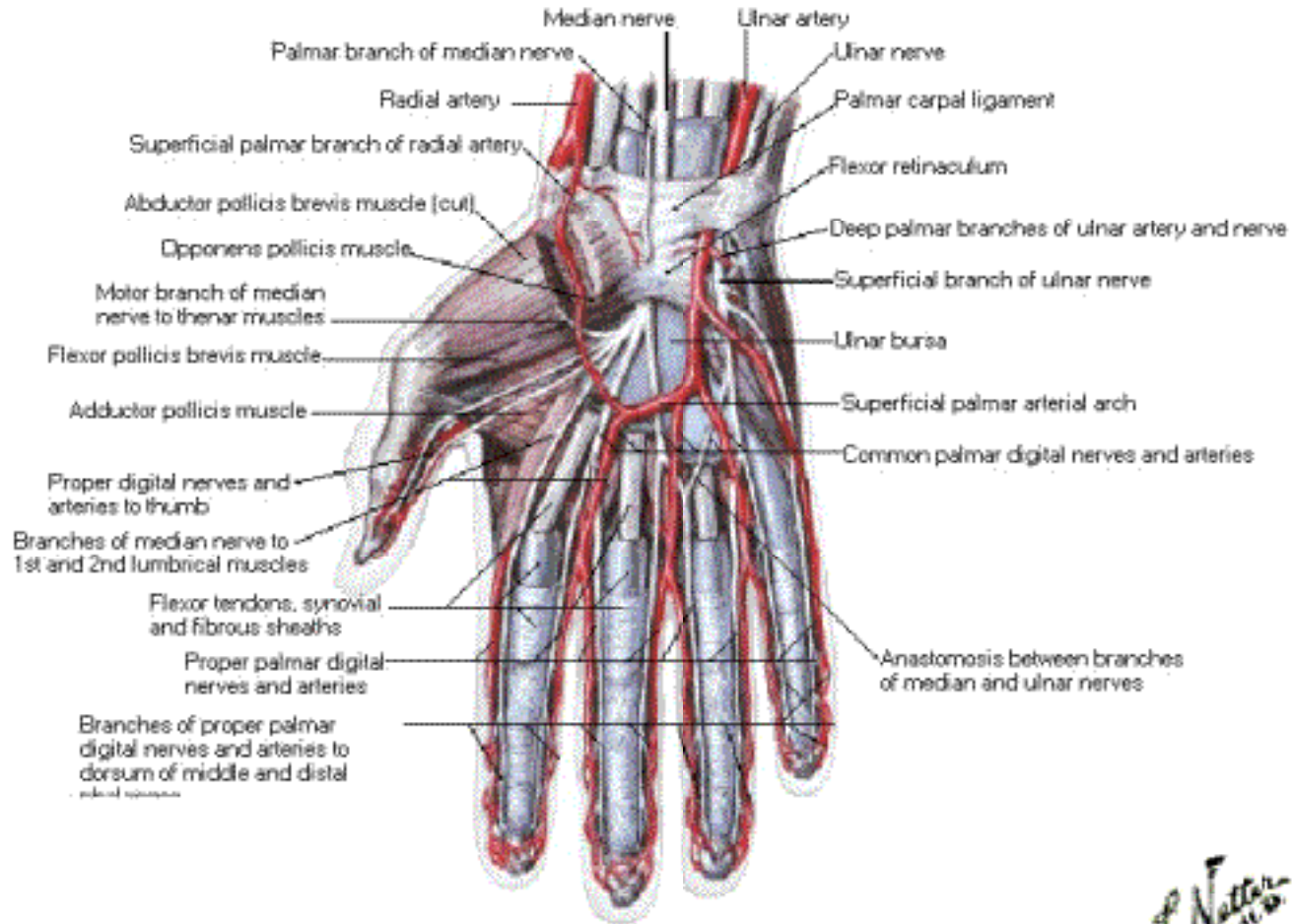
## Deep Anterior [Palmar] View



Note: arrows indicate action of muscles

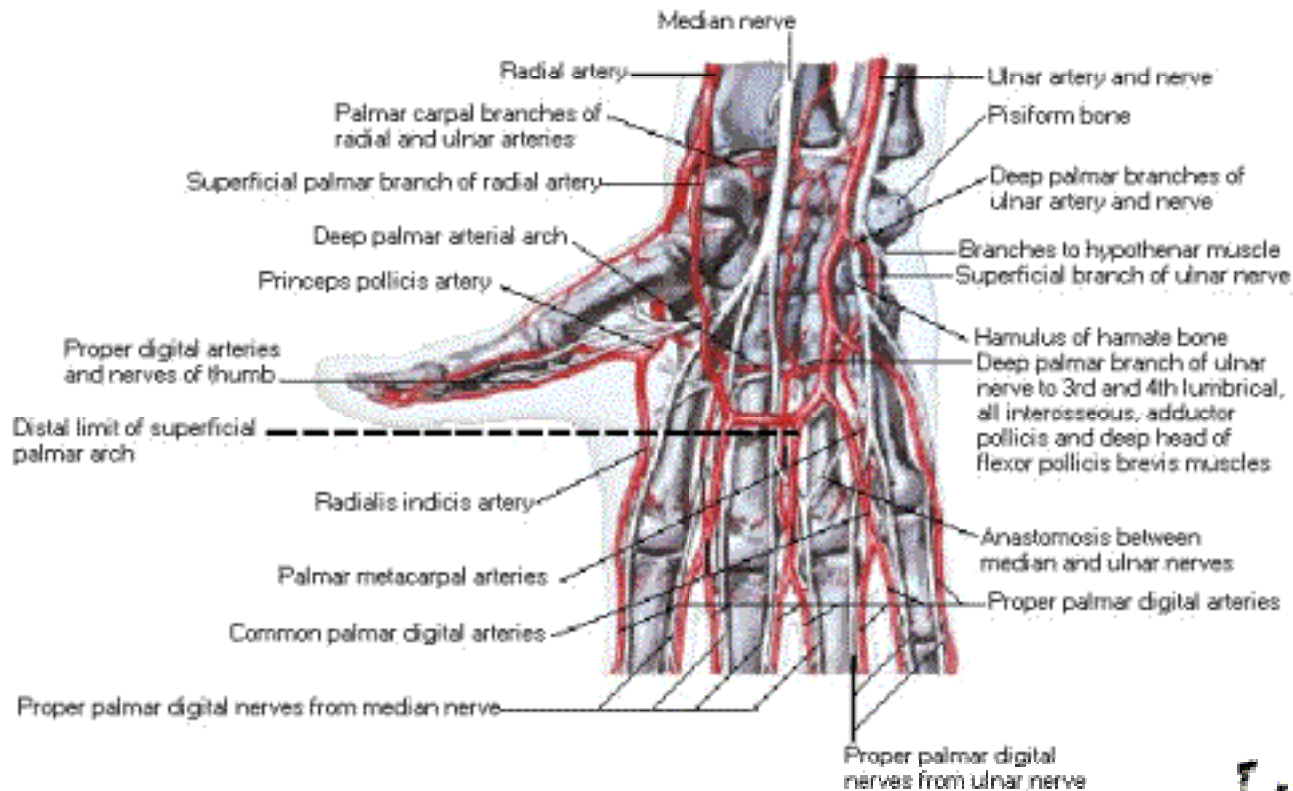
# Arteries and Nerves of Hand

## Palmar View



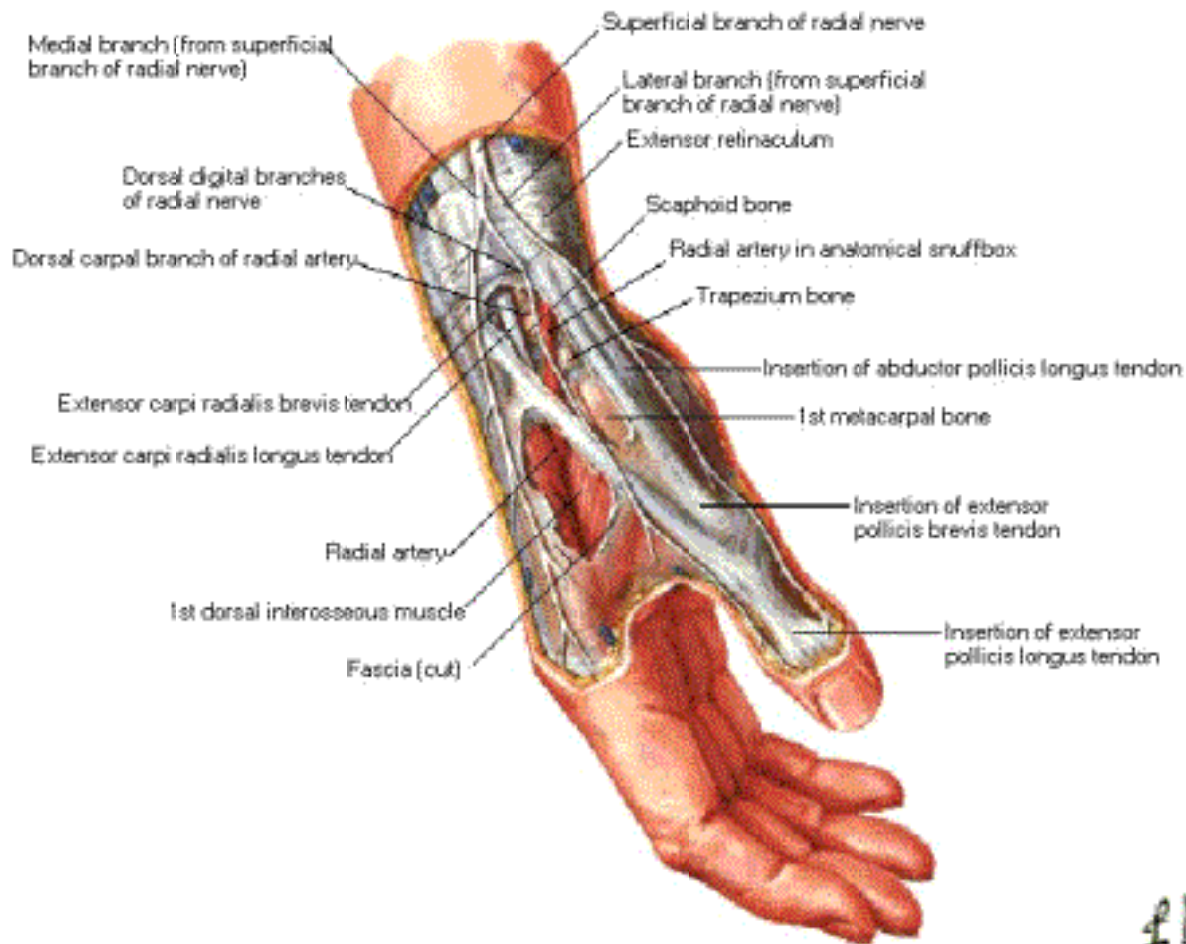
# Arteries and Nerves of Hand

## Deep Palmar View



# Wrist and Hand

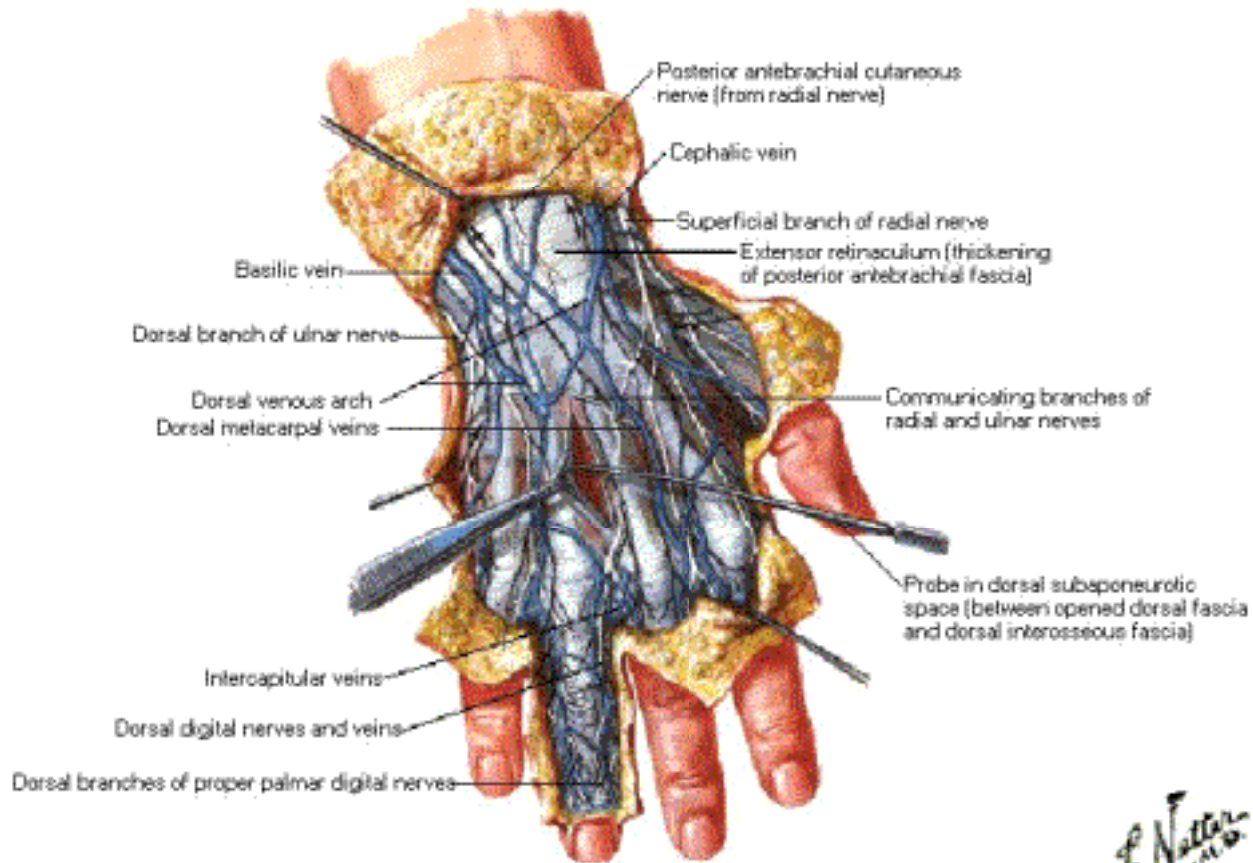
## Superficial Radial Dissection





# Wrist and Hand

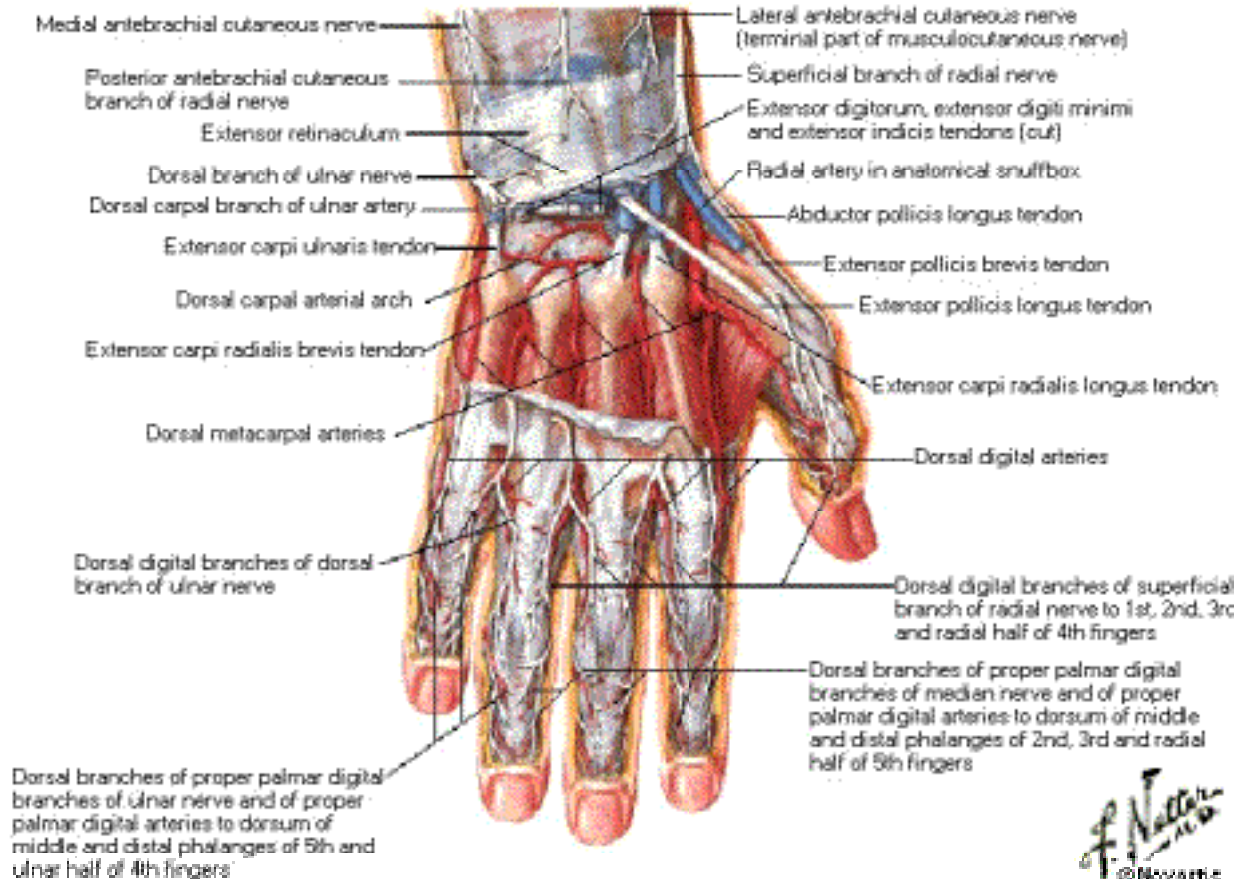
## Superficial Dorsal Dissection



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

# Wrist and Hand

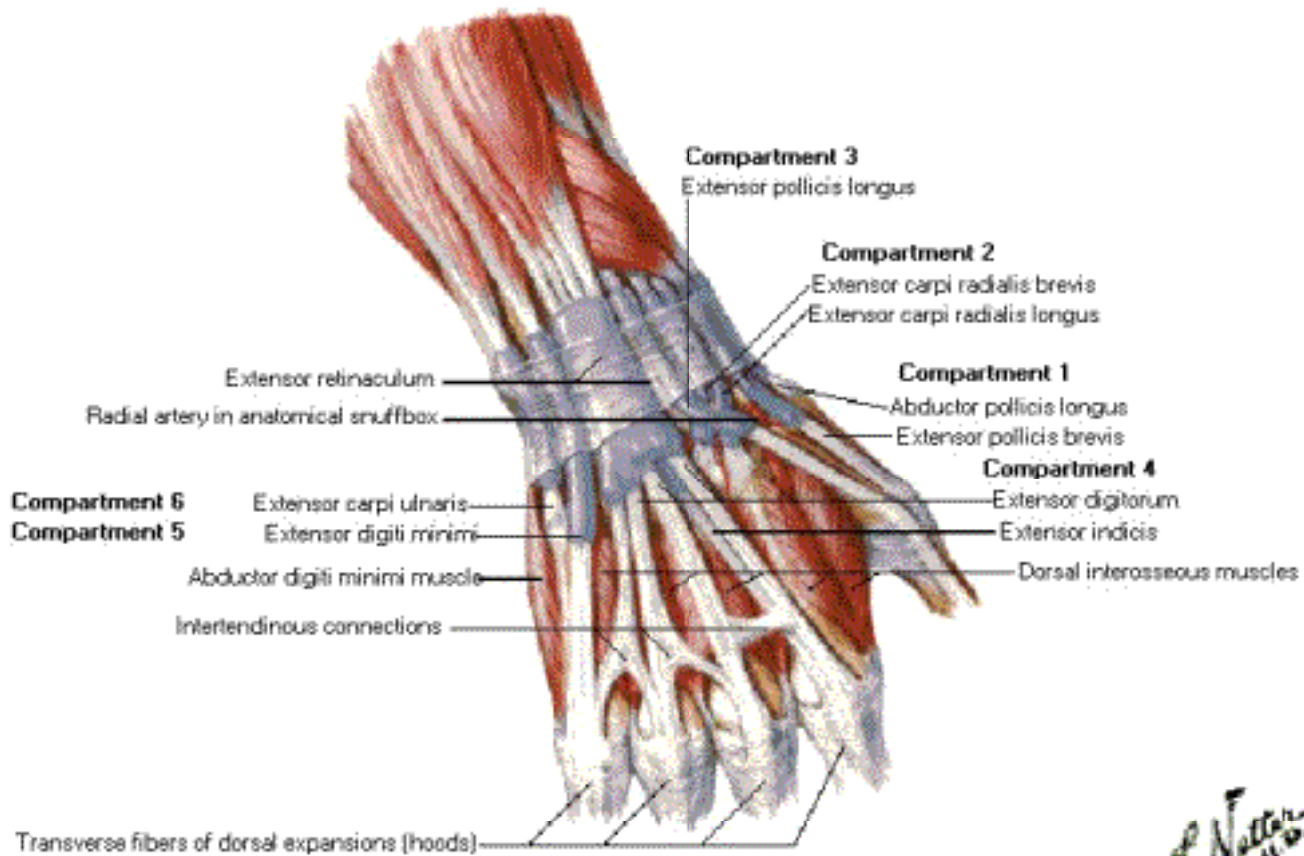
## Deep Dorsal Dissection



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# Extensor Tendons at Wrist

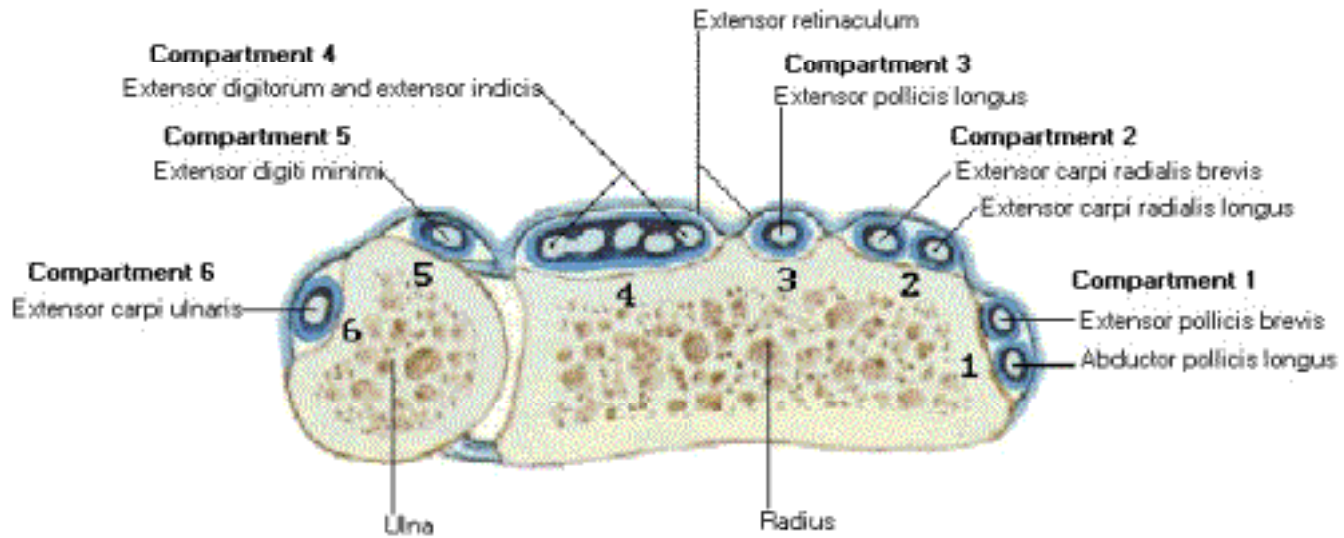
## Posterior [Dorsal] View



*E. Natter*

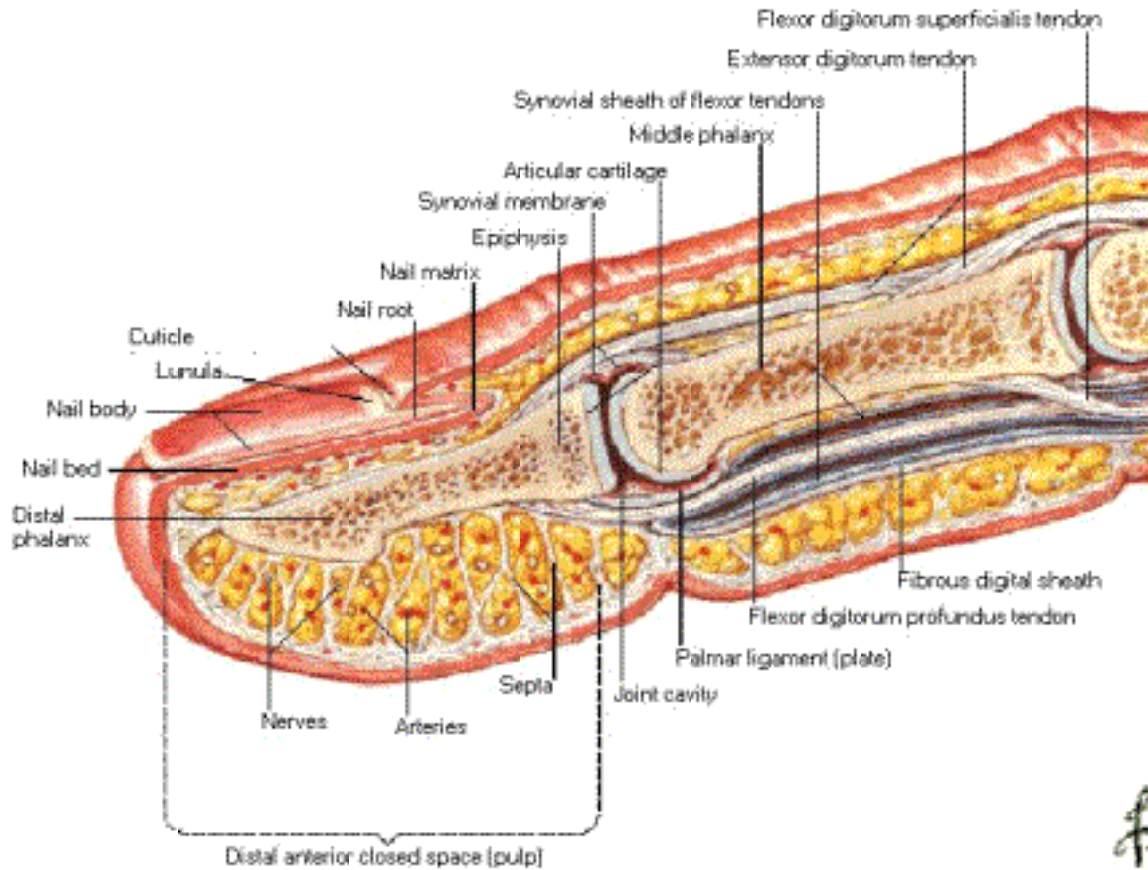
# Extensor Tendons at Wrist

## Cross Section at Proximal Wrist



# Fingers

## Sagittal Section

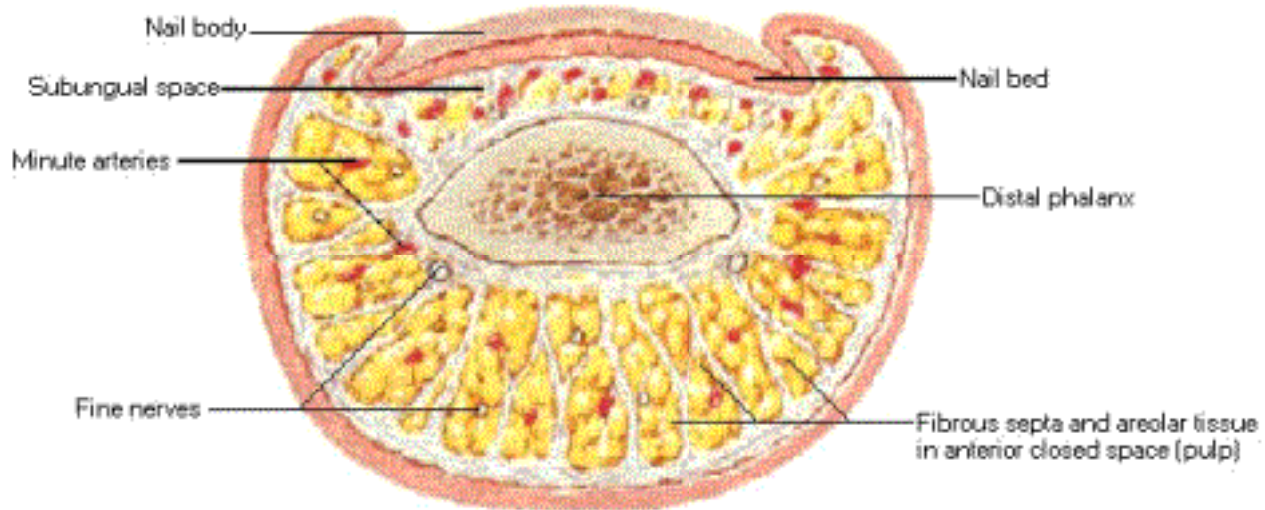


f.



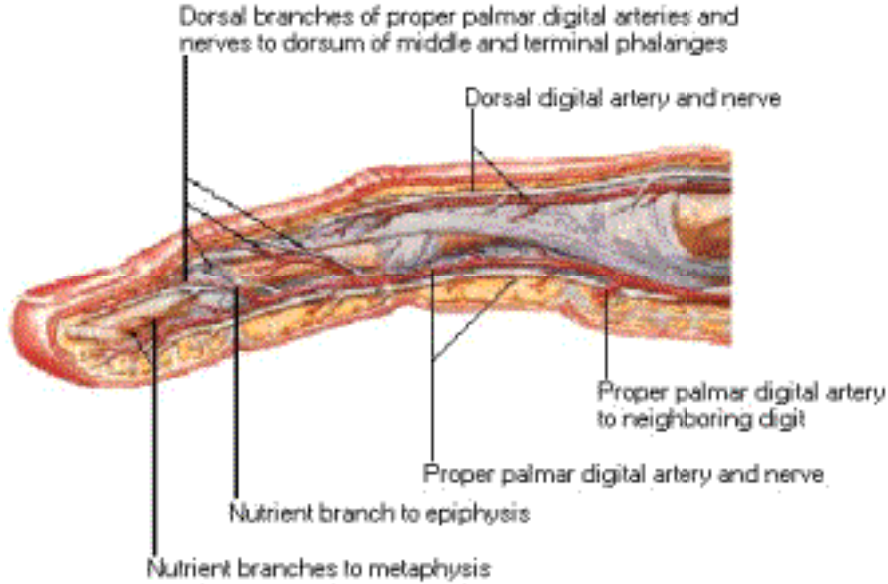
# Fingers

## Cross Section through Distal Phalanx



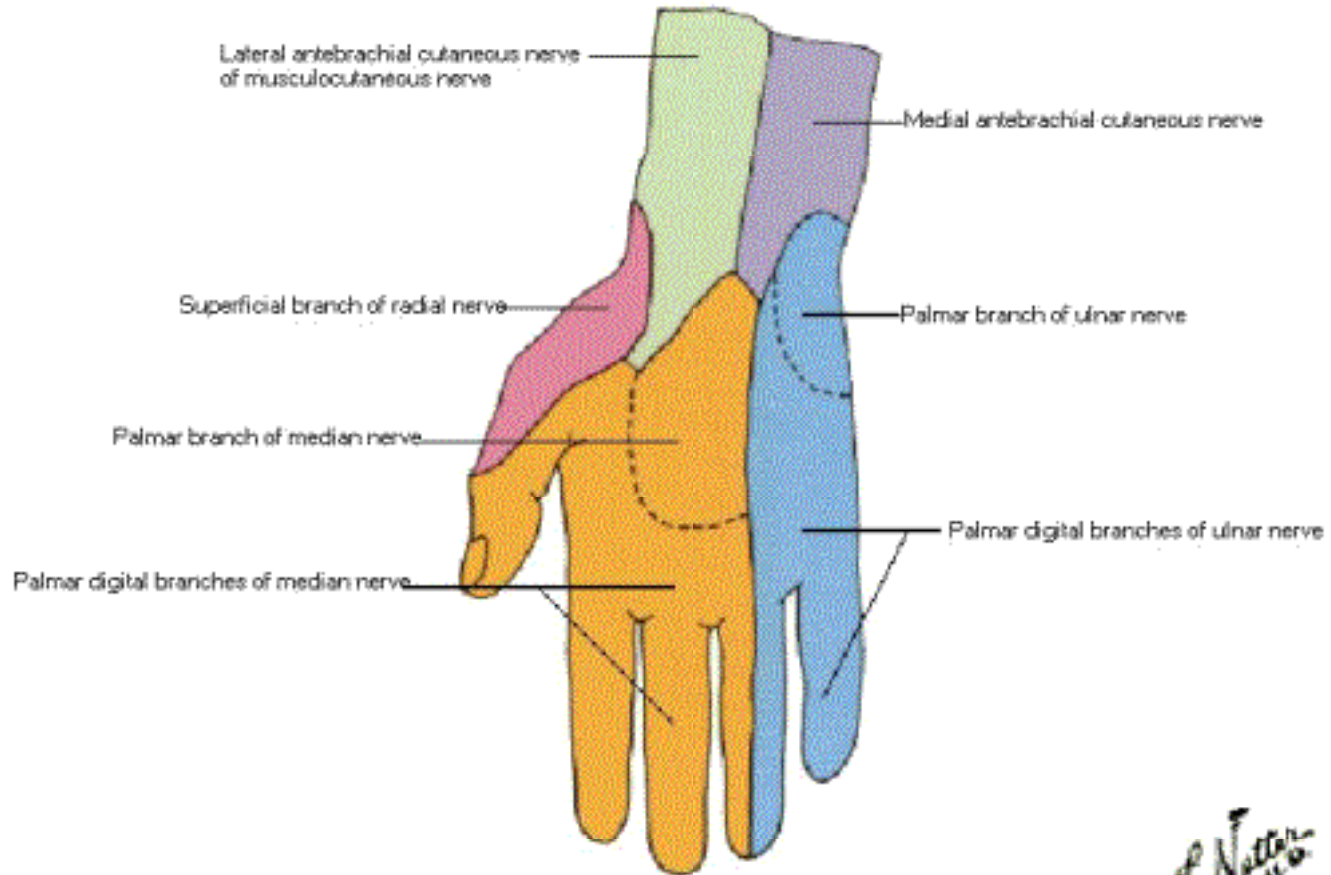
# Fingers

## Arteries and Nerves



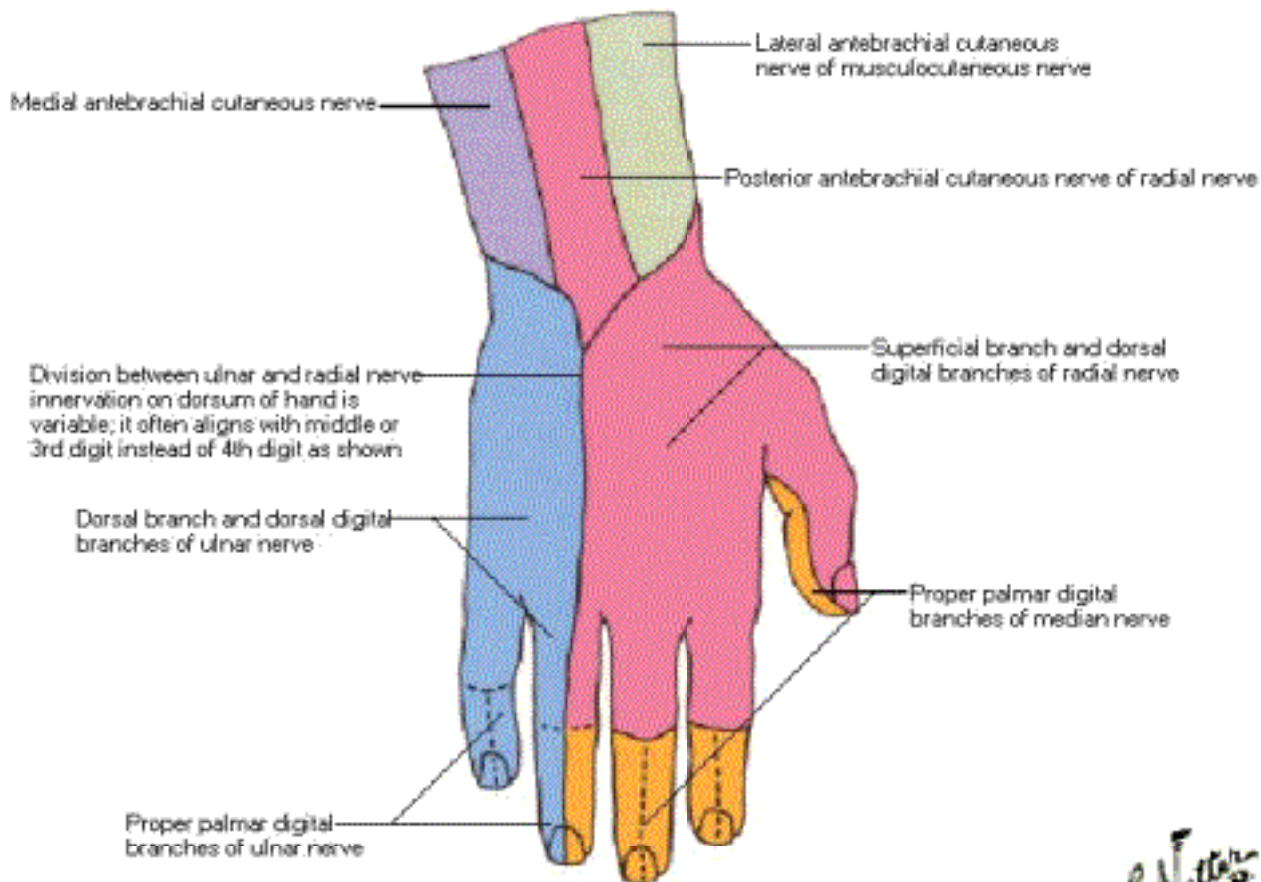
# Cutaneous Nerves of Wrist and Hand

## Anterior [Palmar] View

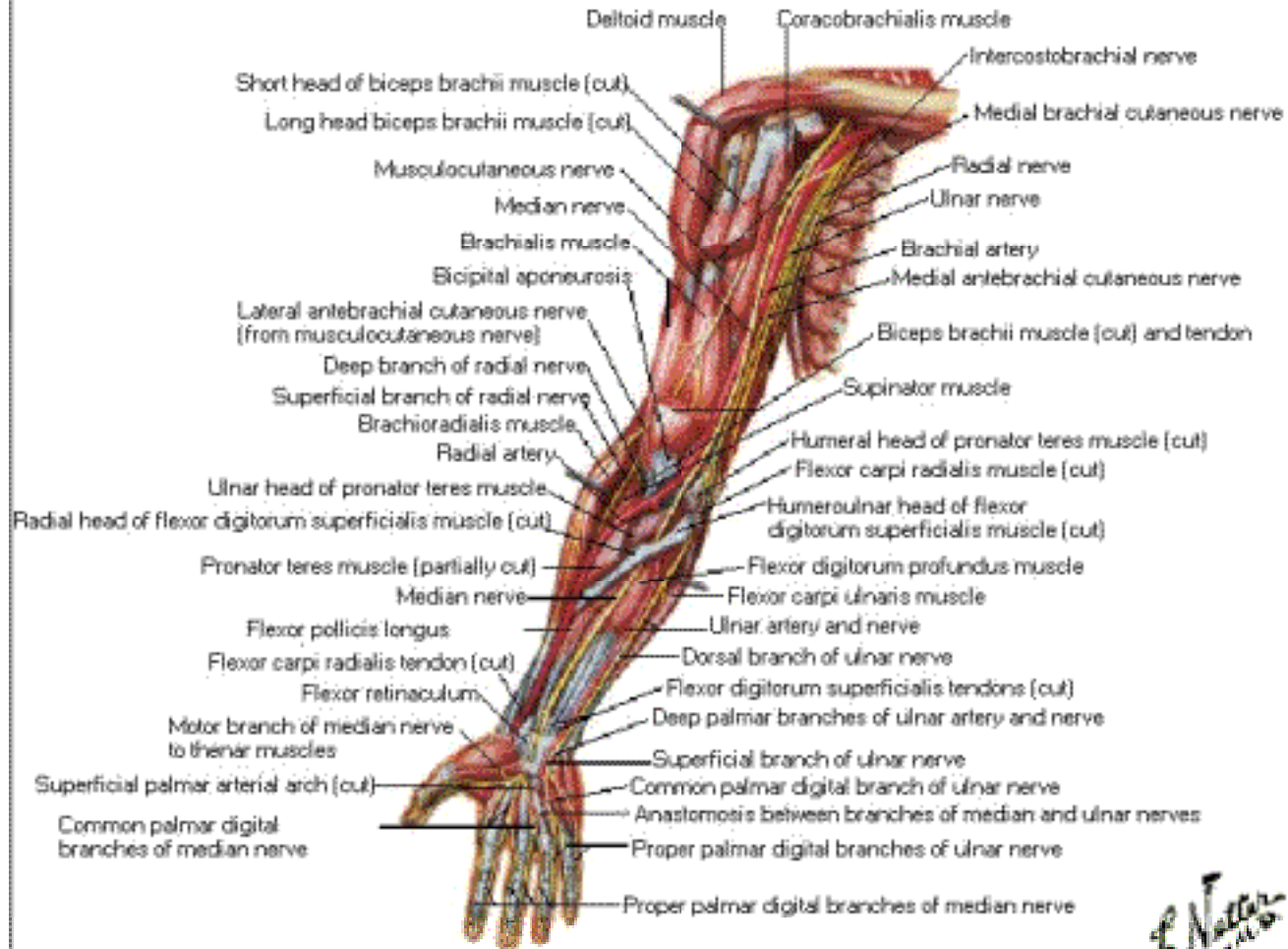


# Cutaneous Nerves of Wrist and Hand

## Posterior [Dorsal] View



# Arteries and Nerves of Upper Limb

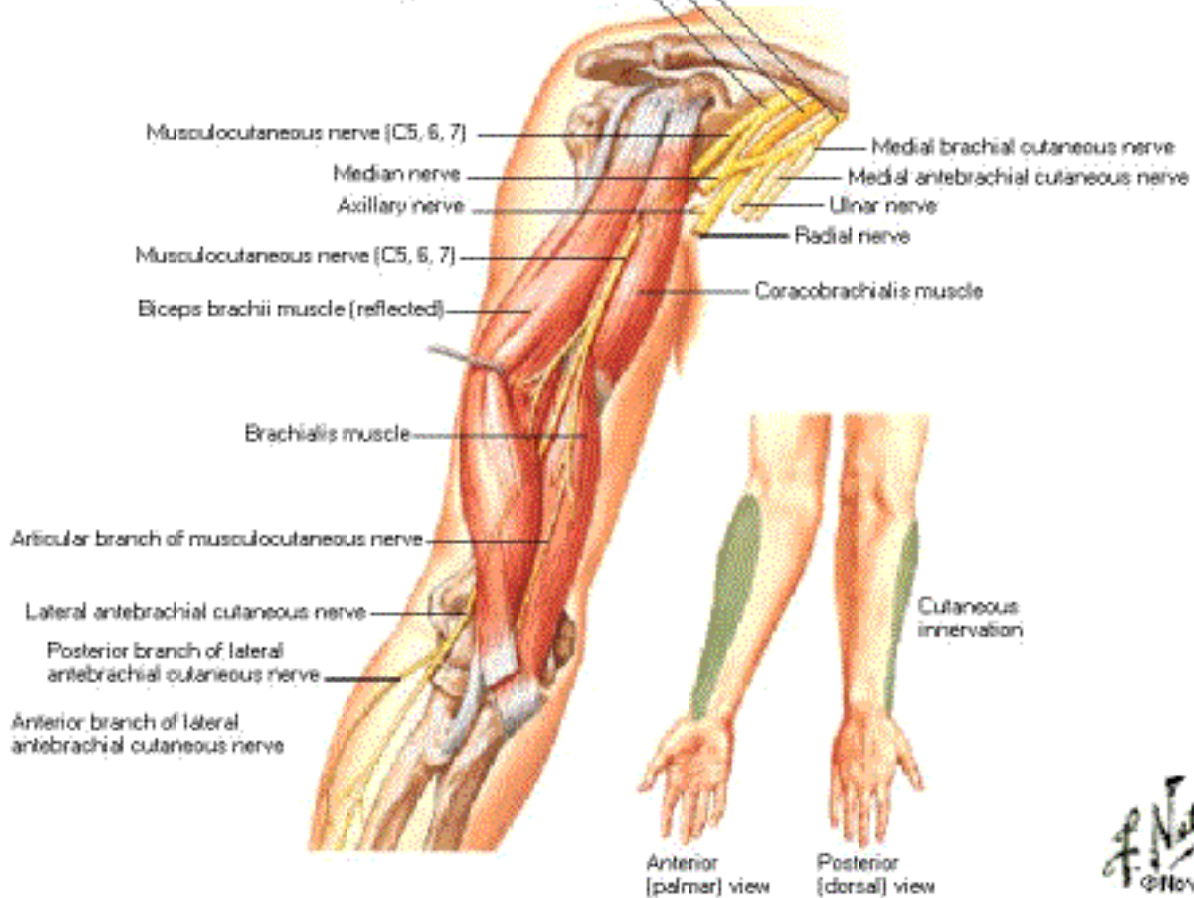




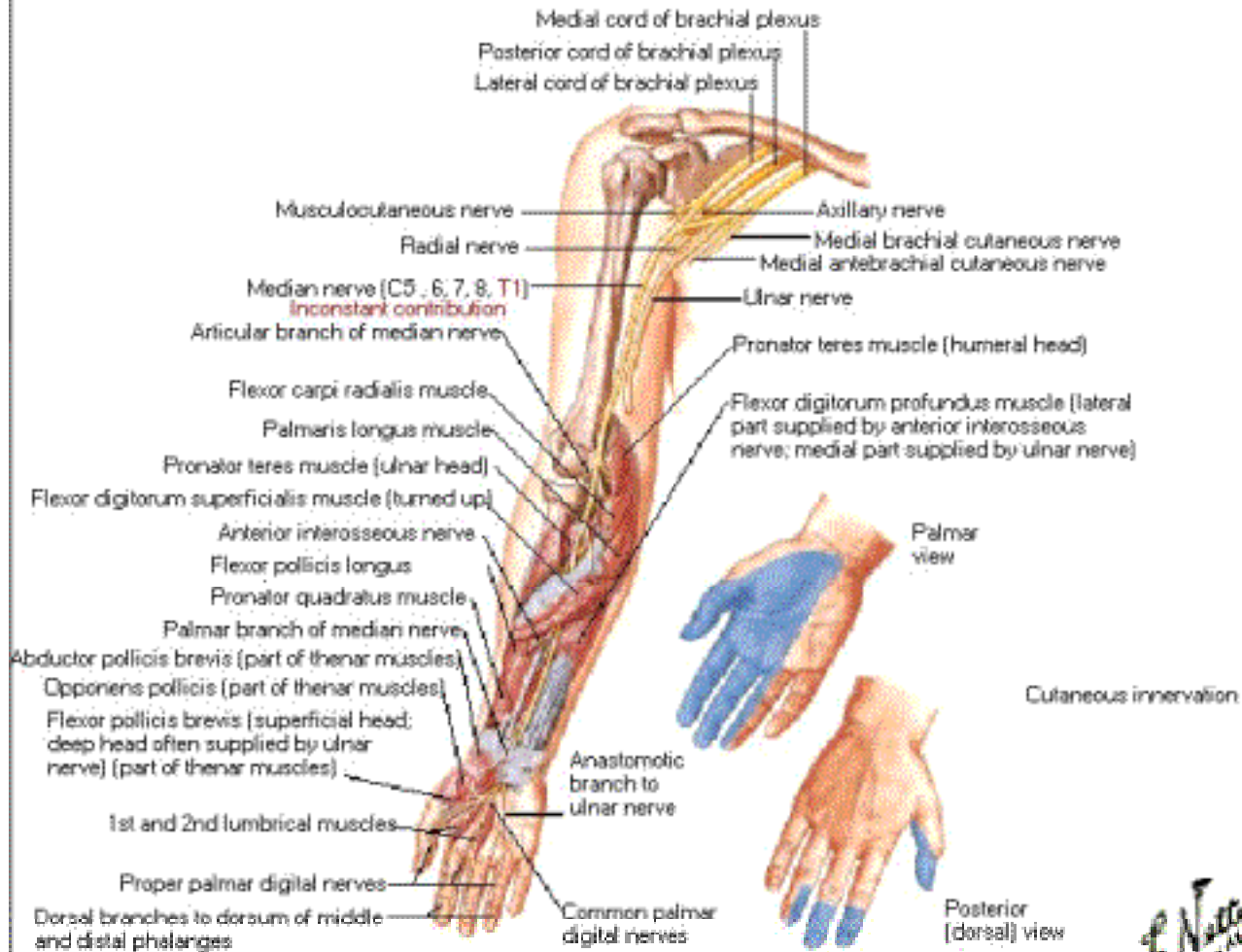
# Musculocutaneous Nerve

Medial cord of brachial plexus  
Posterior cord of brachial plexus  
Lateral cord of brachial plexus

Note: only muscles innervated by musculocutaneous nerve shown

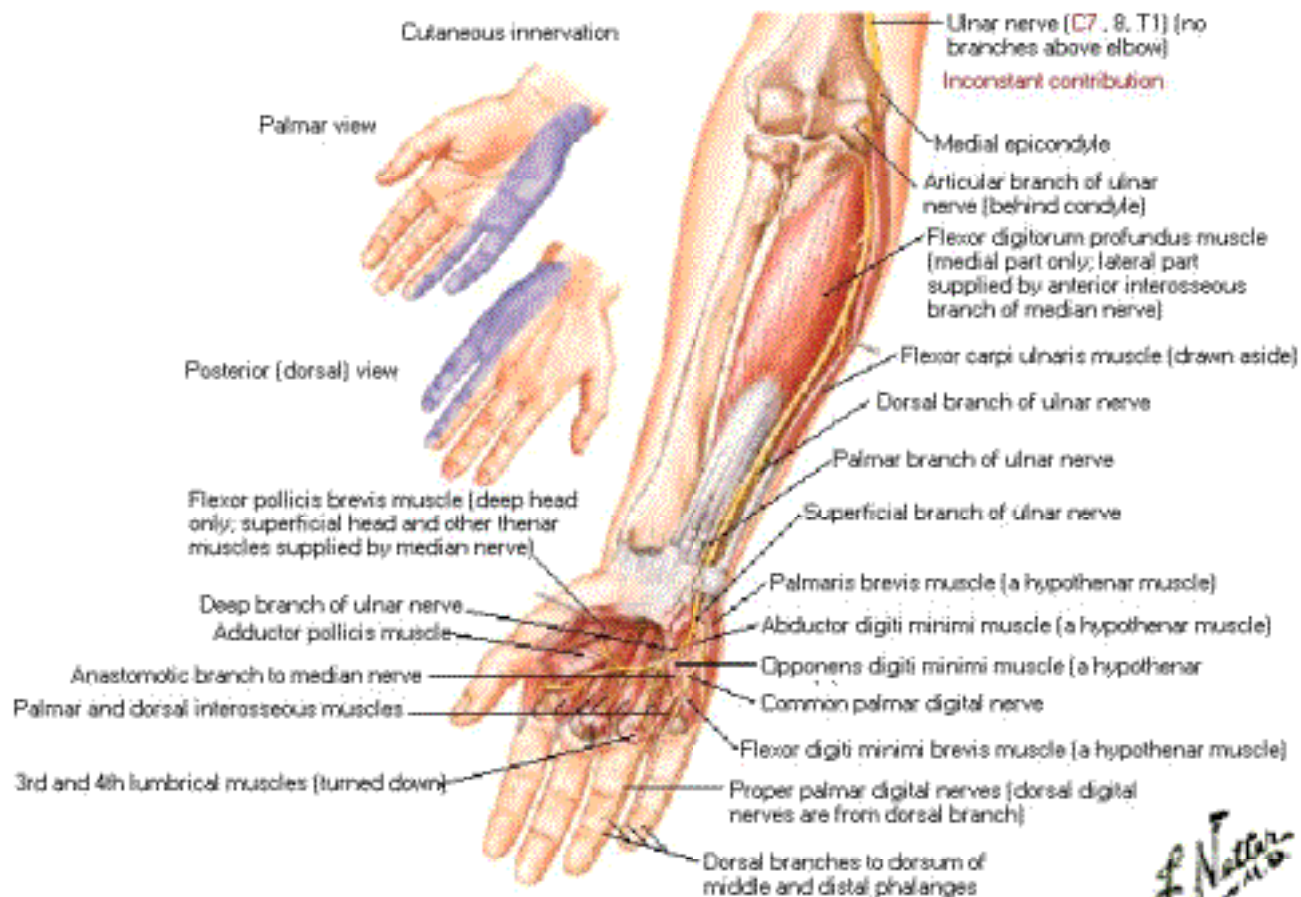


# Median Nerve



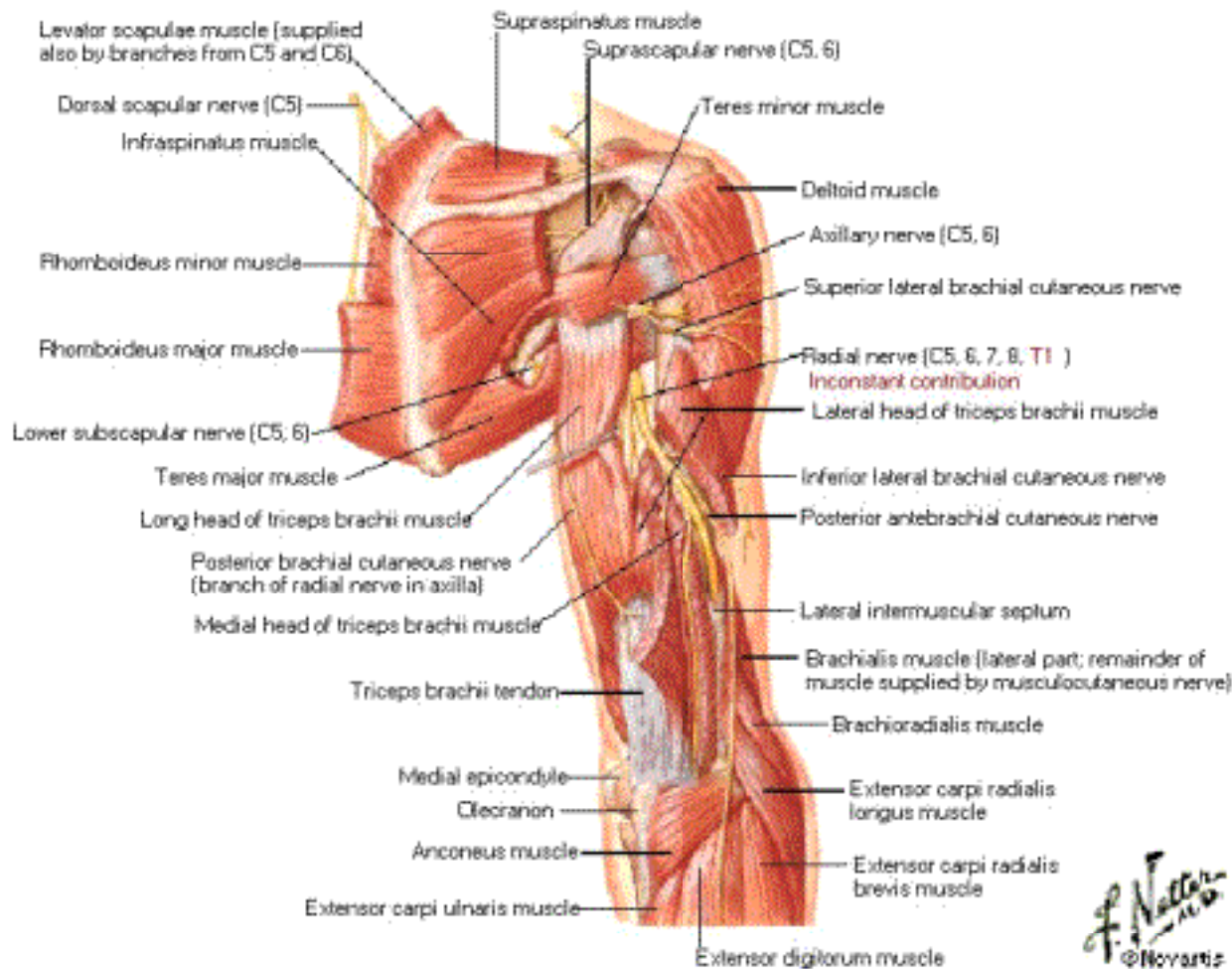
# Ulnar Nerve

Note: only muscles innervated by ulnar nerve shown



*Dr. Nathan*

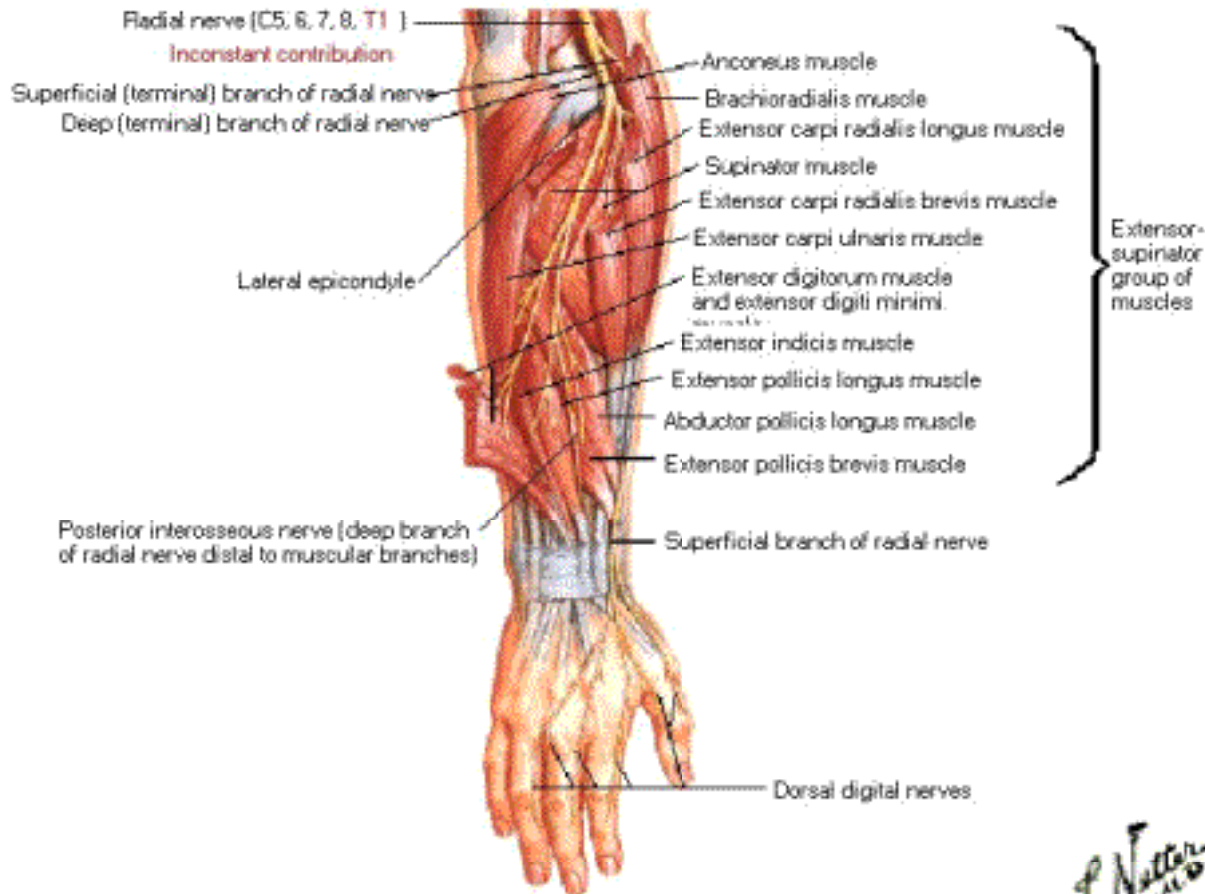
# Radial Nerve in Arm and Nerves of Posterior Shoulder



*F. Netter M.D.*  
© Novartis

# Radial Nerve in Forearm

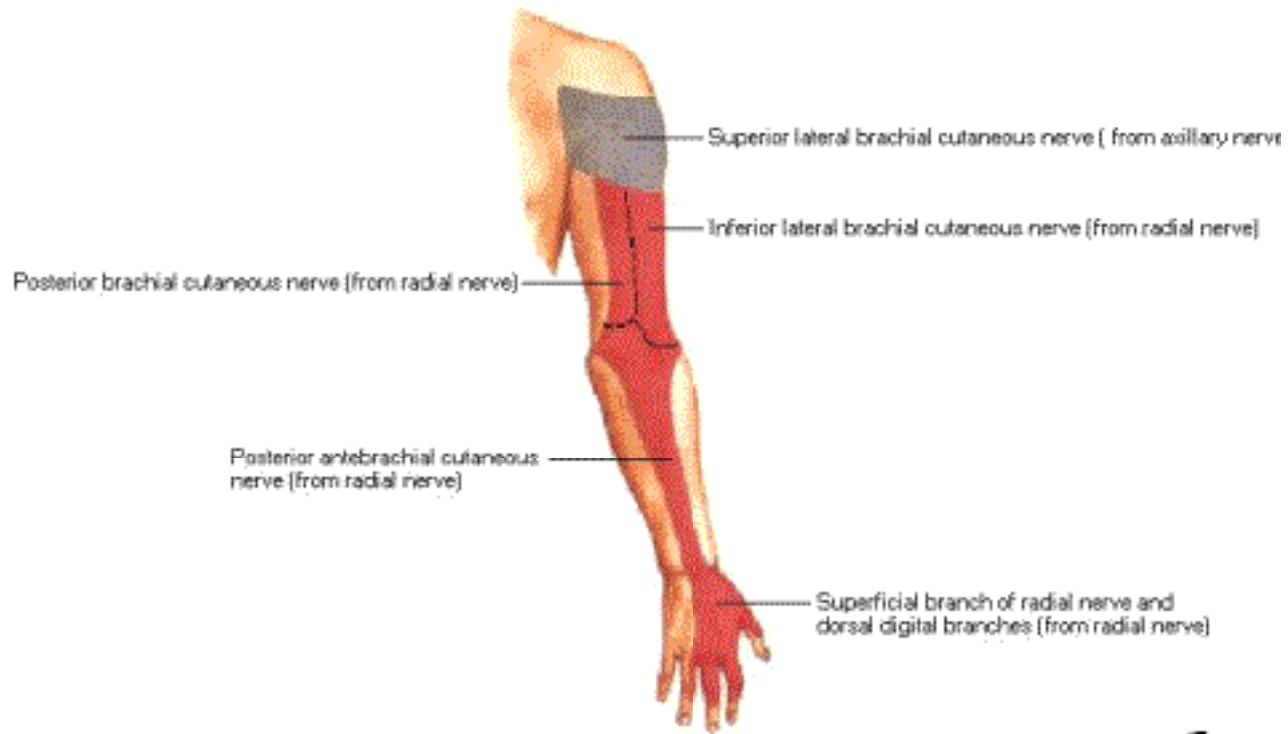
## Posterior View





# Radial and Axillary Nerves

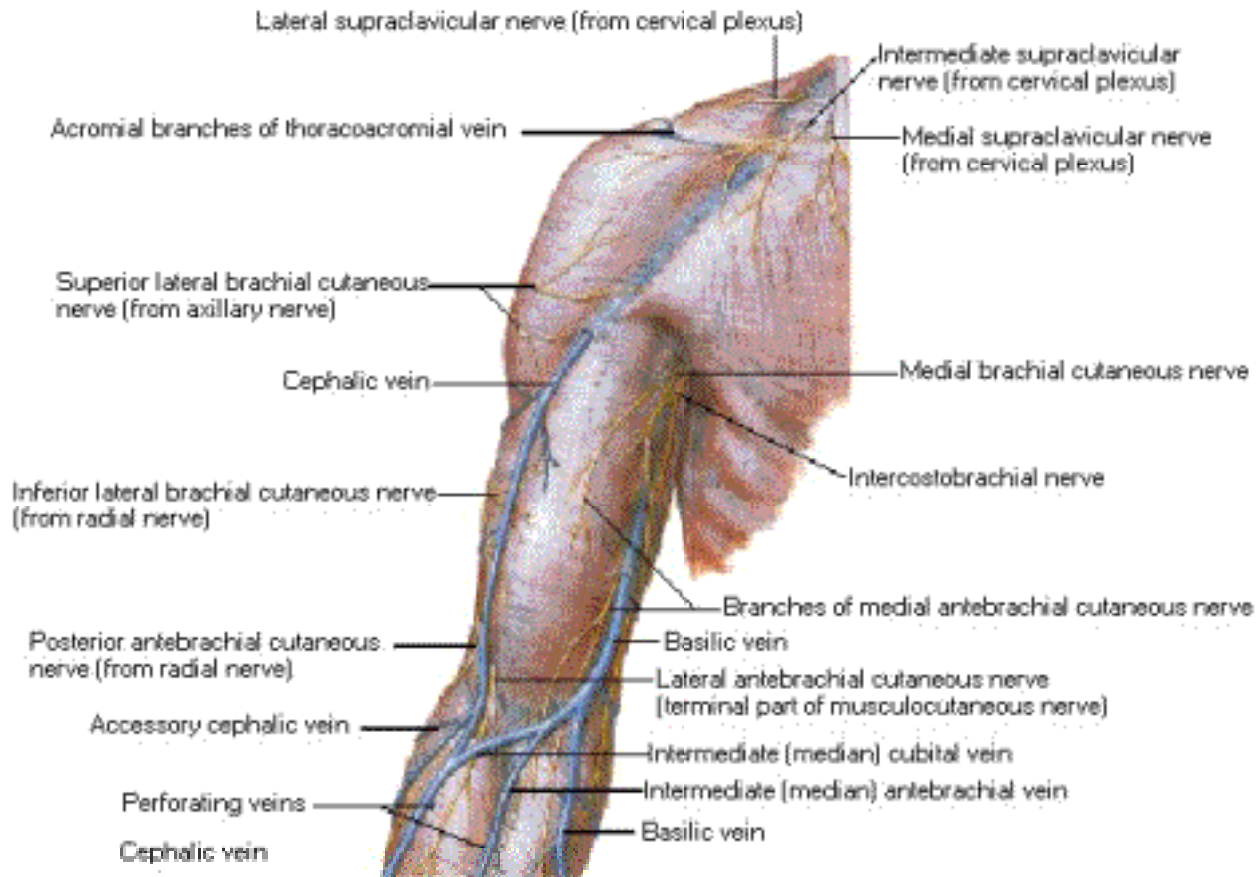
## Cutaneous Innervation



Posterior View

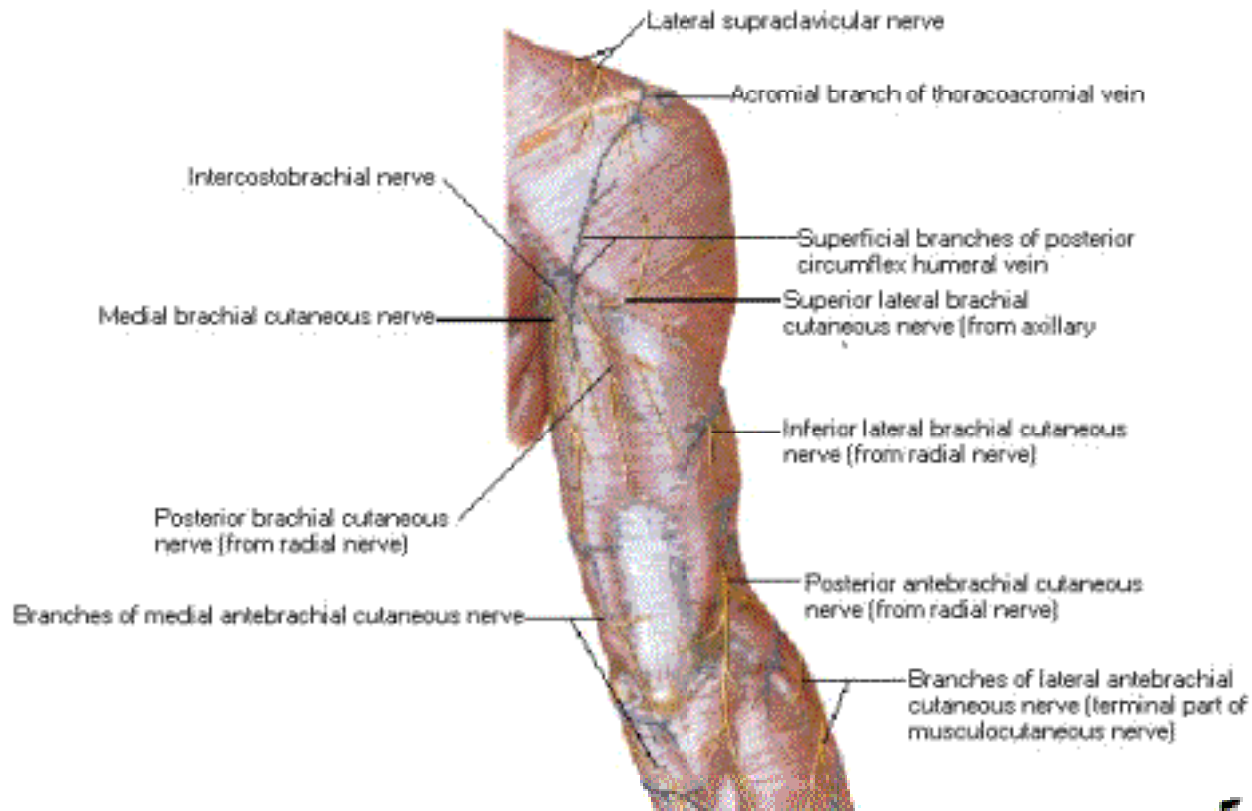
# Superficial Nerves and Veins of Shoulder and Arm

## Anterior View



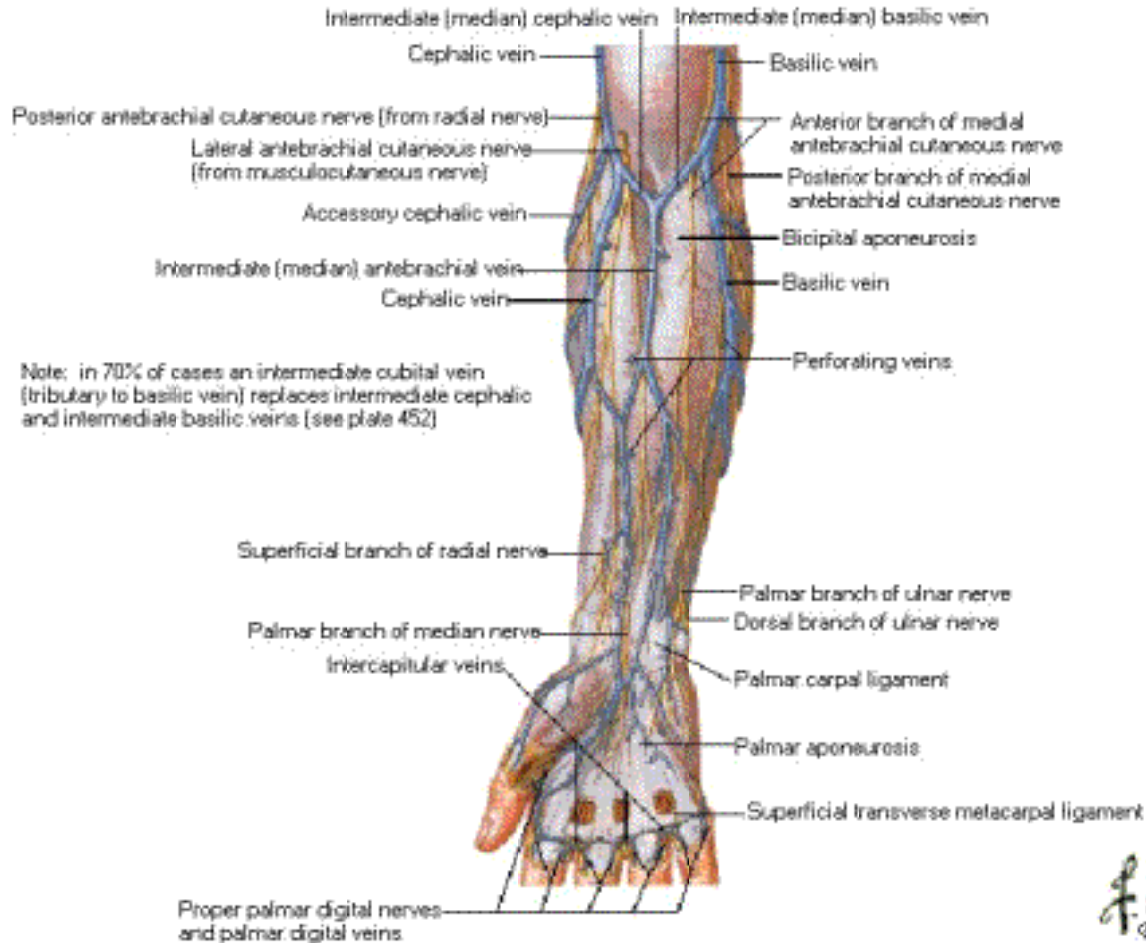
# Superficial Nerves and Veins of Shoulder and Arm

## Posterior View



# Cutaneous Nerves and Superficial Veins of Forearm

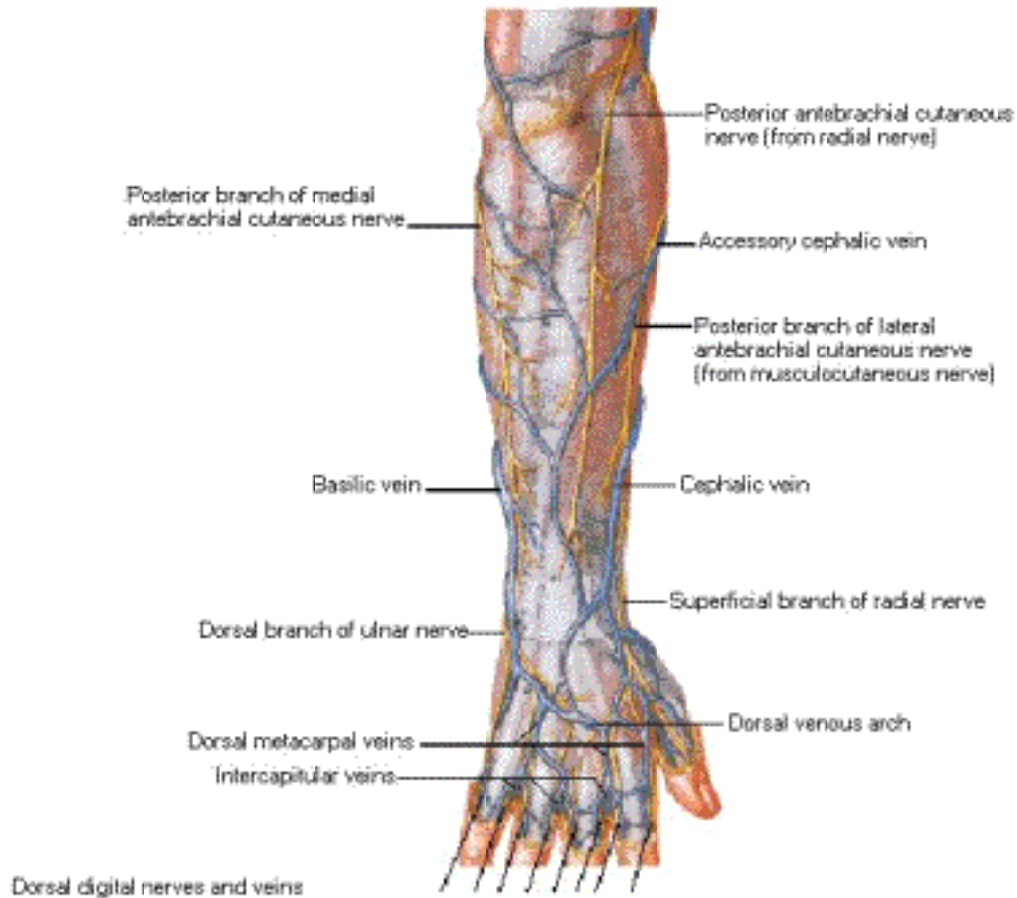
## Anterior (Palmar) View



Handwritten signature or logo.

# Cutaneous Nerves and Superficial Veins of Forearm

## Posterior (Dorsal) View

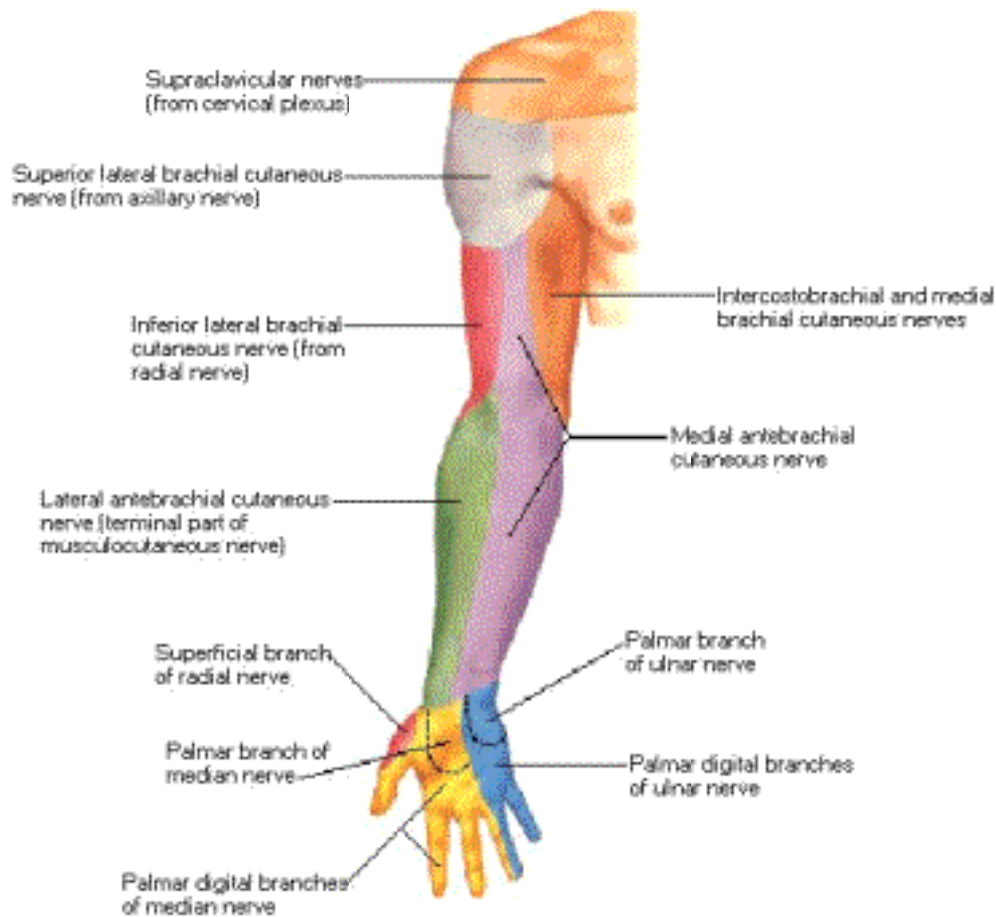


*Handwritten signature*



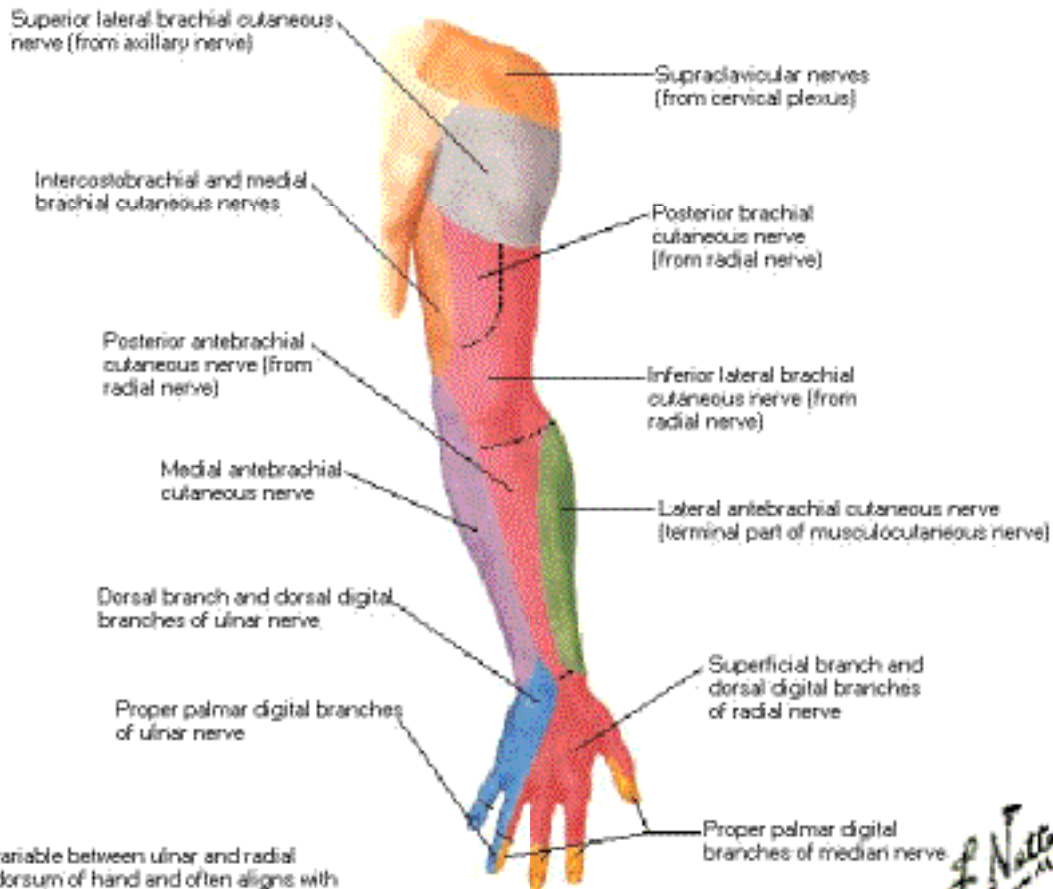
# Cutaneous Innervation of Upper Limb

## Anterior [Palmar] View



# Cutaneous Innervation of Upper Limb

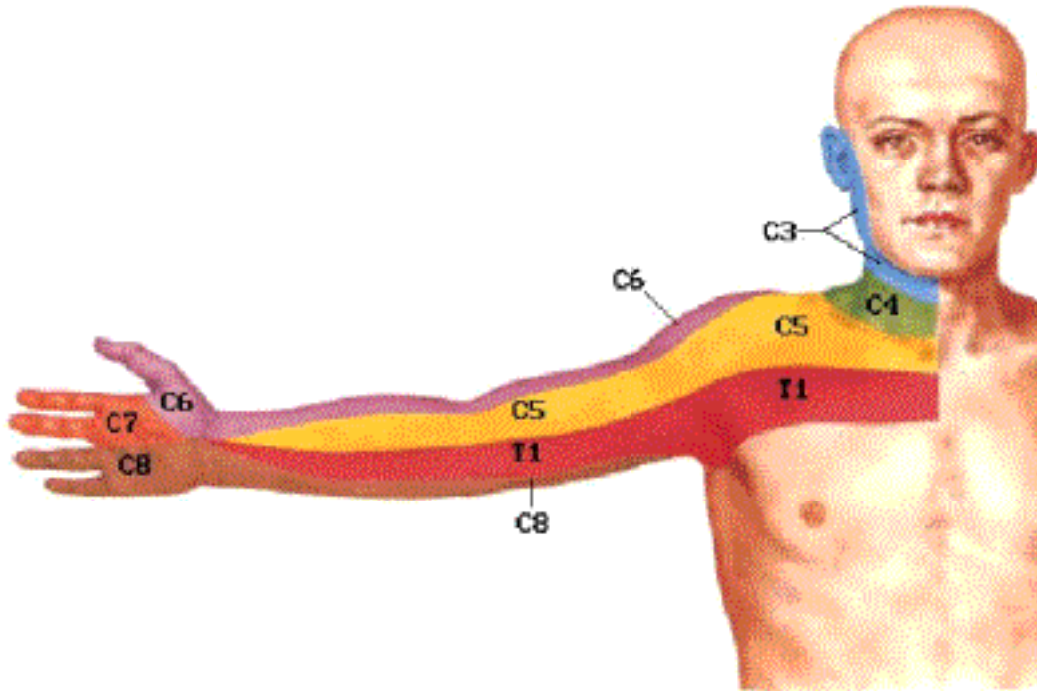
## Posterior [Dorsal] View



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

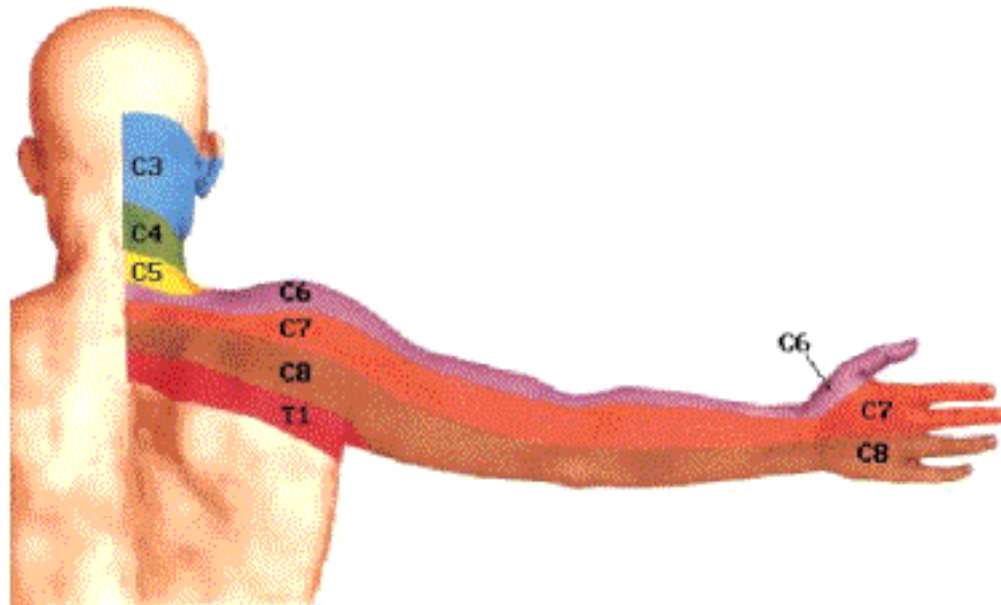
Anterior View



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

## Dermatomes of Upper Limb

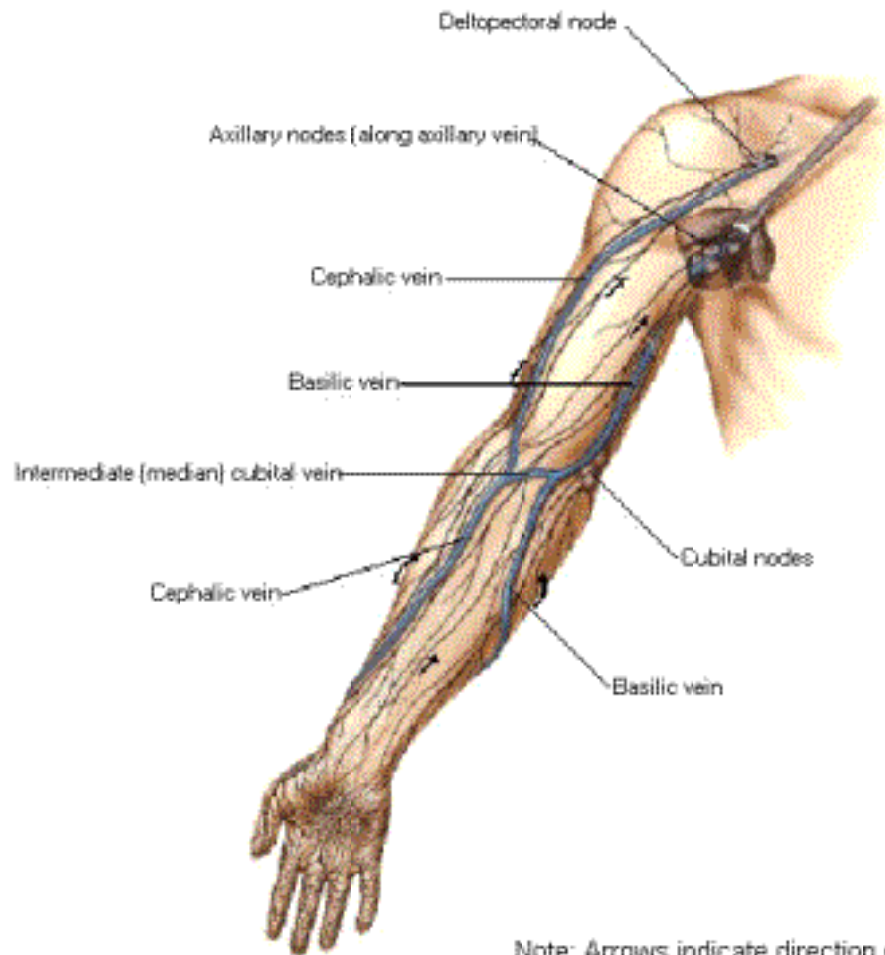
Posterior View



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

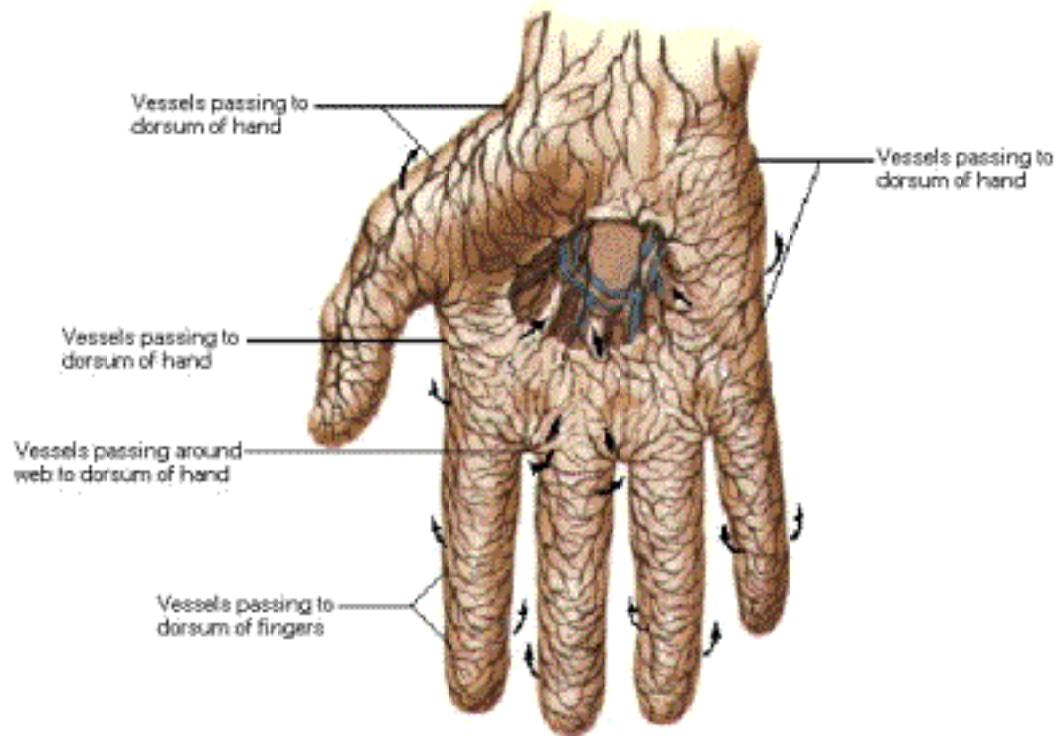
*FN*

## Lymph Vessels and Nodes of Upper Limb





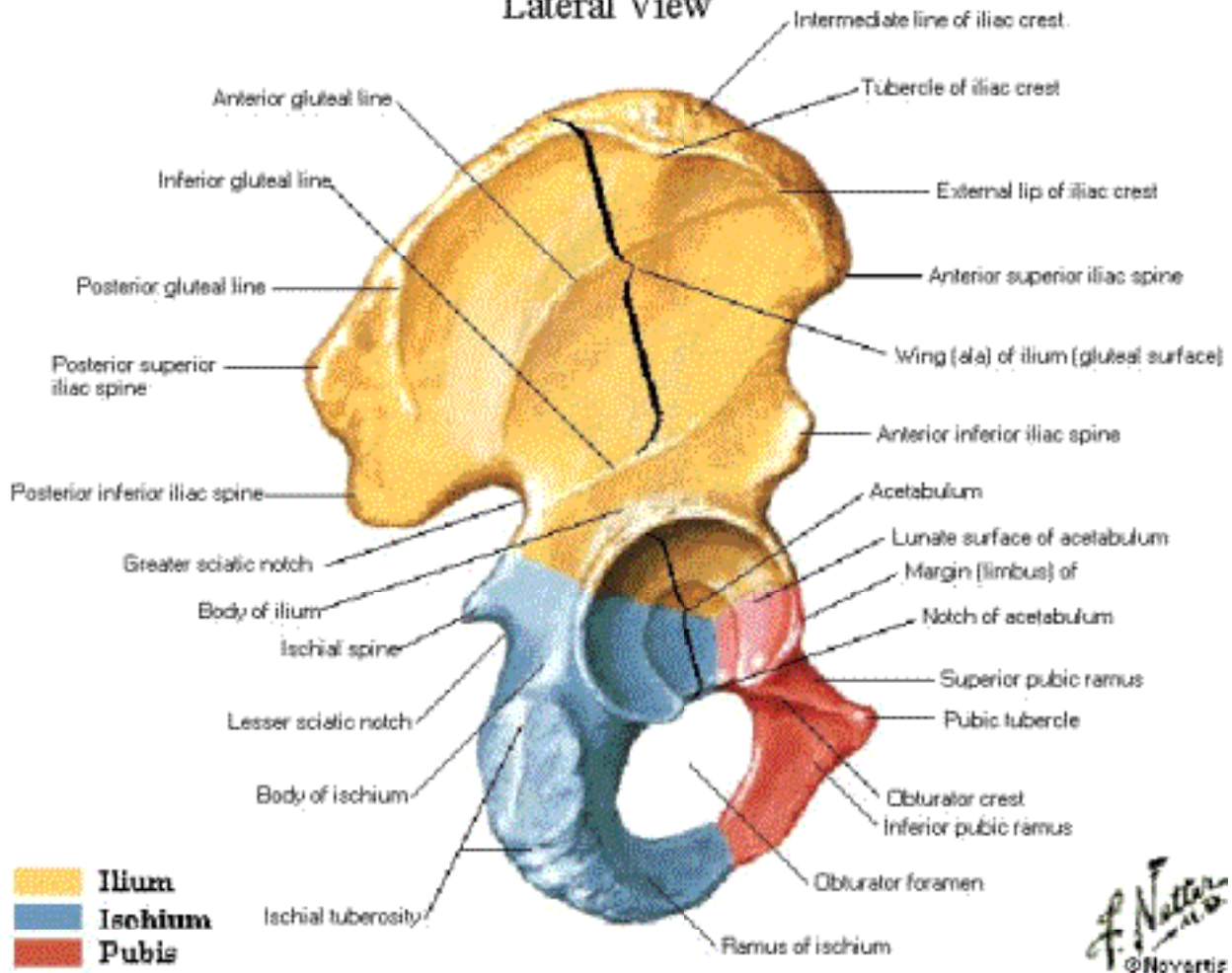
## Lymph Vessels of Hand



Note: Arrows indicate direction of drainage.

# Coxal Bone

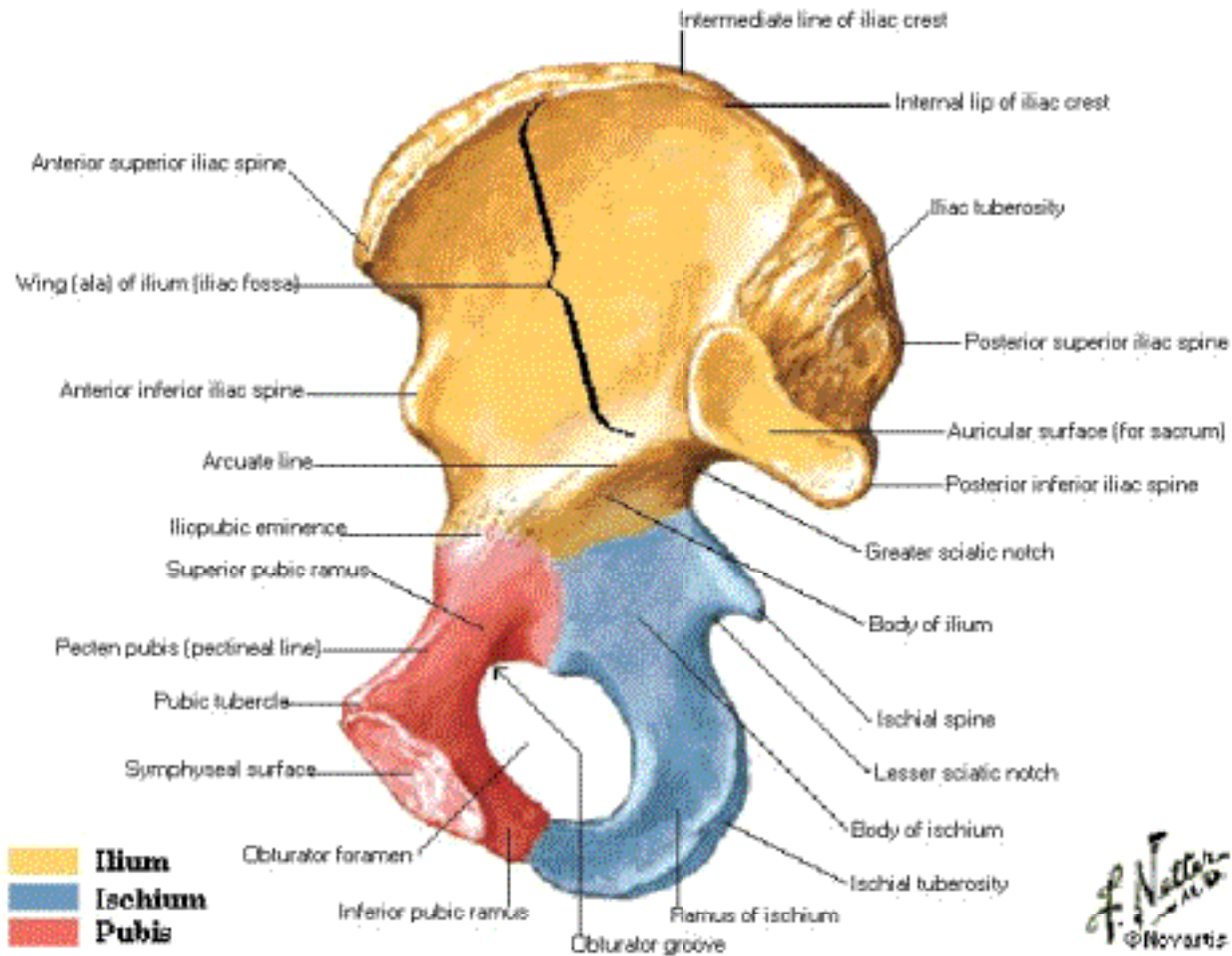
## Lateral View



*F. Netter M.D.*  
© Novartis

# Coxal Bone

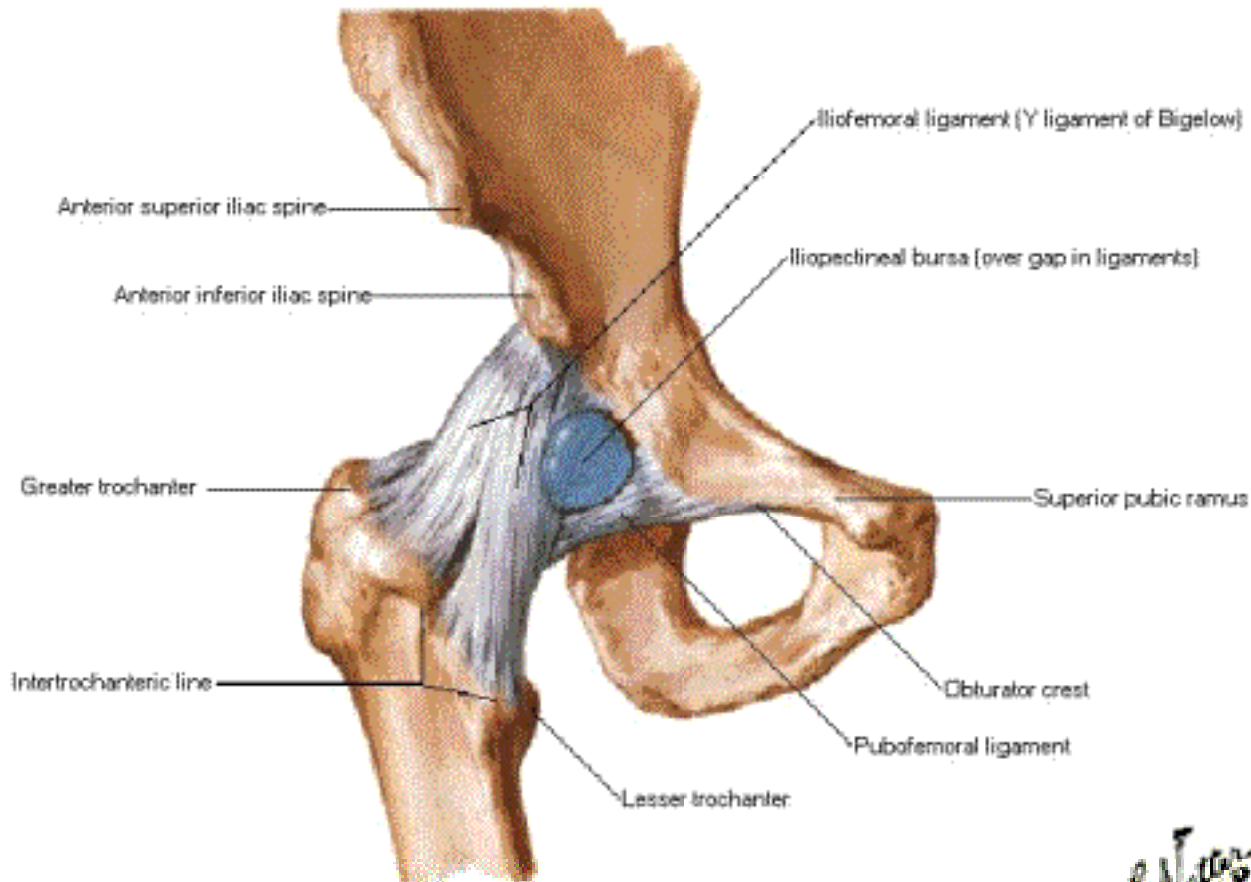
## Medial View



*F. Netter M.D.*  
 © Novartis

# Hip Joint

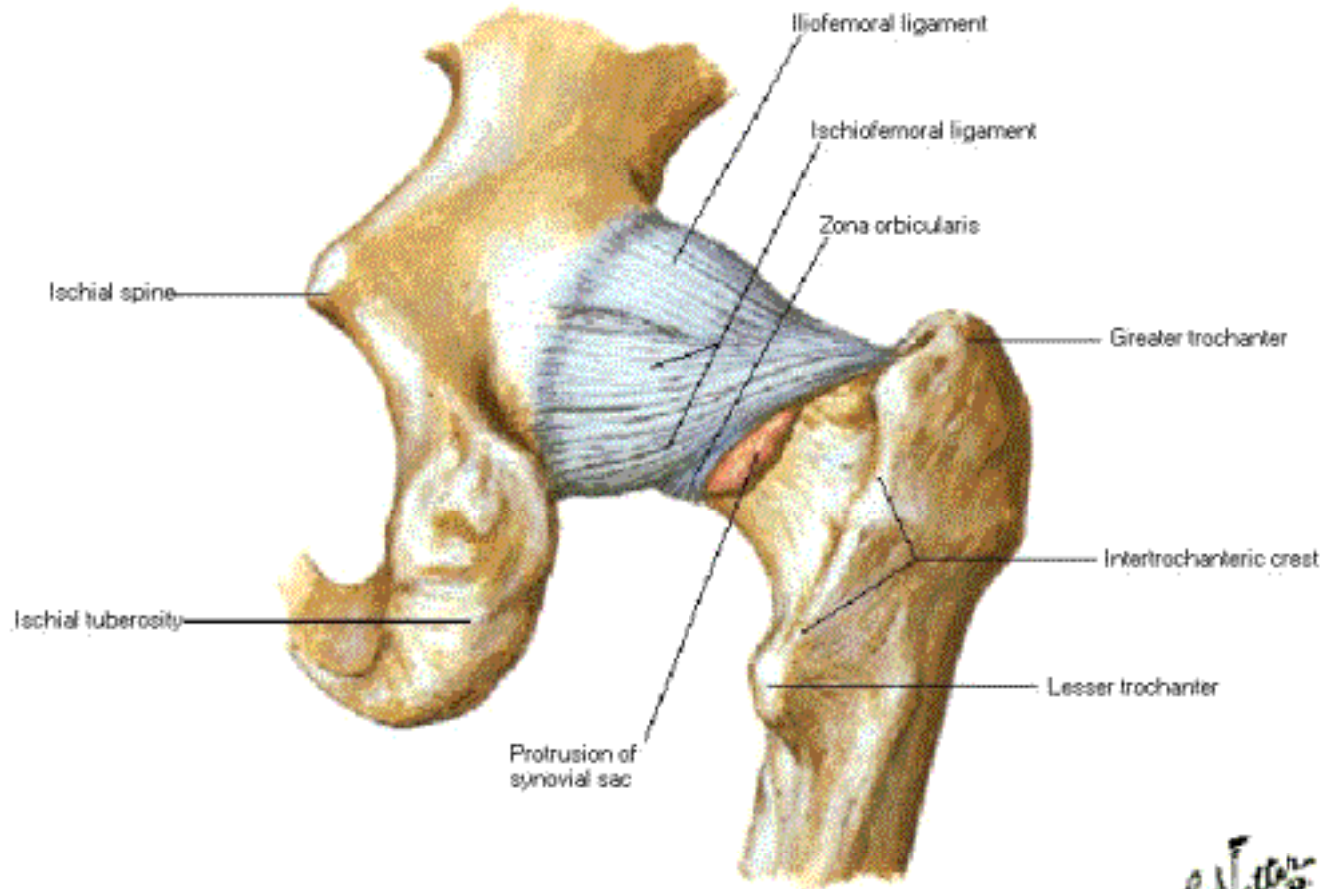
## Anterior View



*Dr. N. N. N.*

# Hip Joint

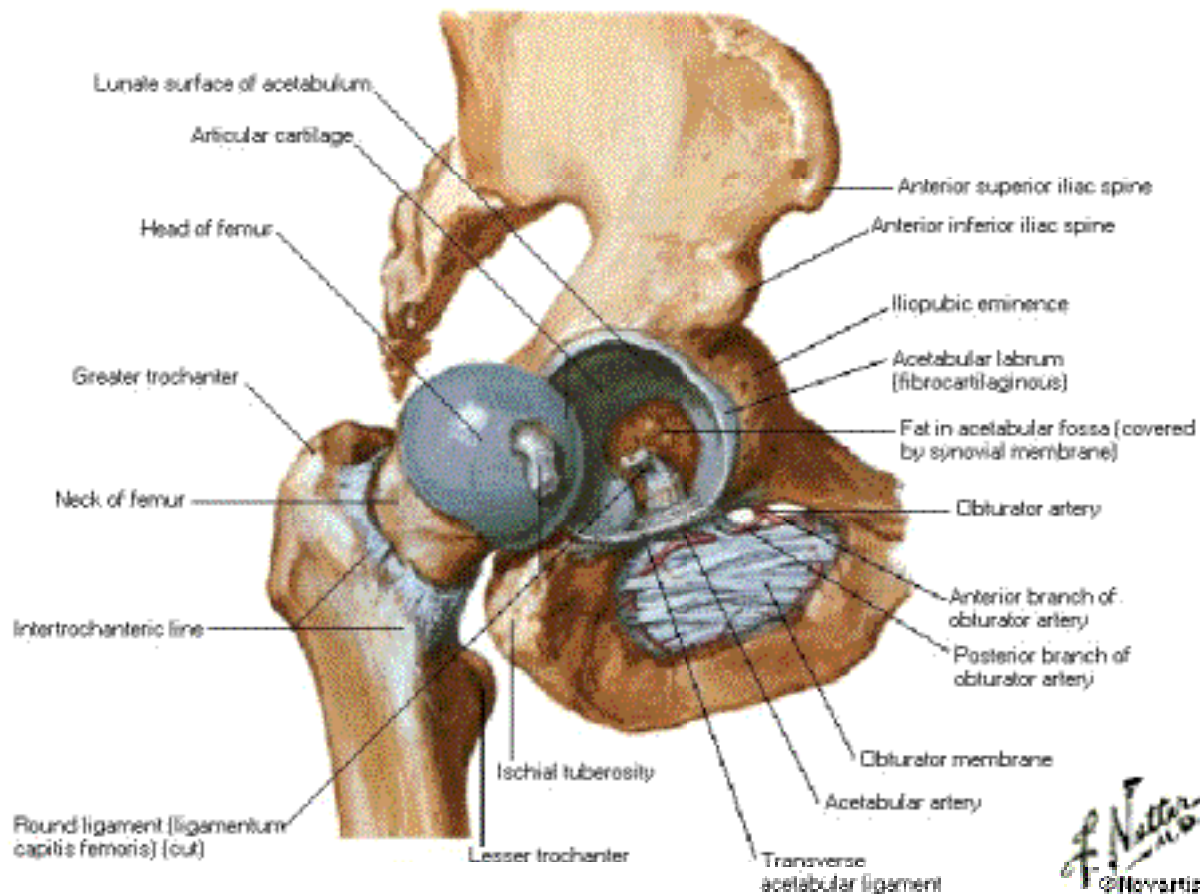
## Posterior View





# Hip Joint [Opened]

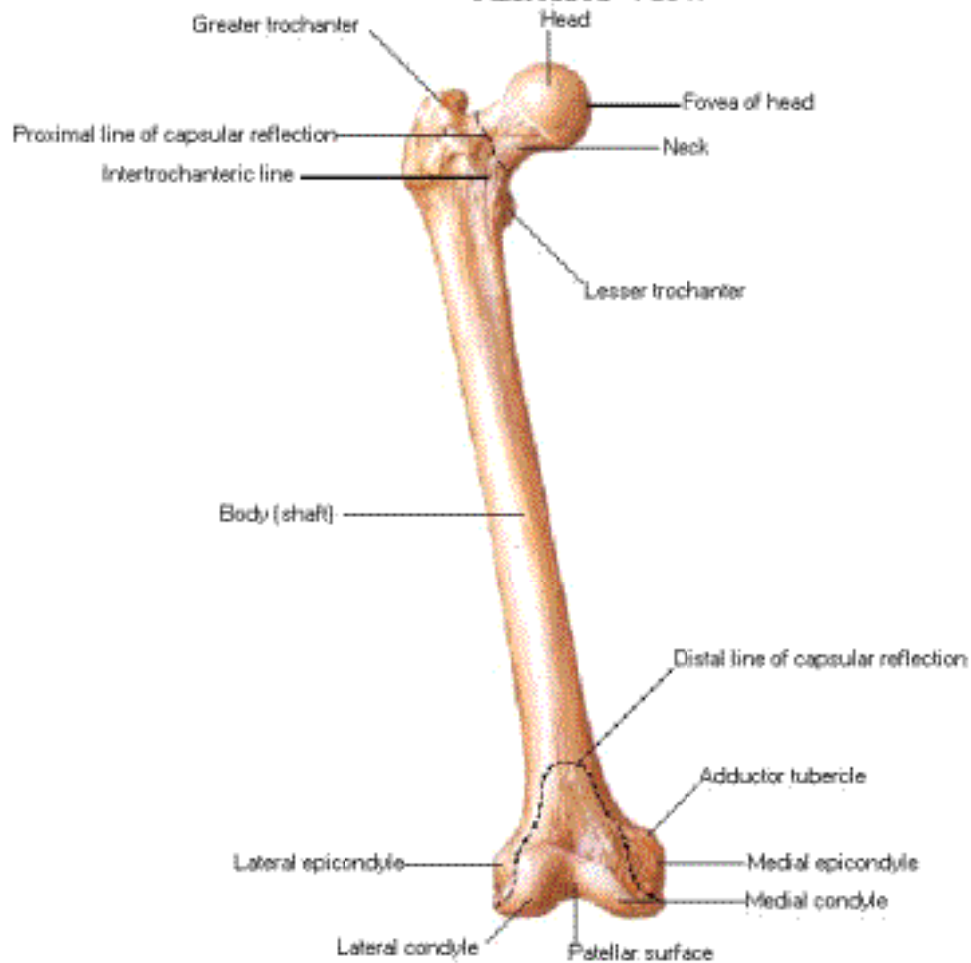
## Lateral View



*F. Netter M.D.*  
© Novartis

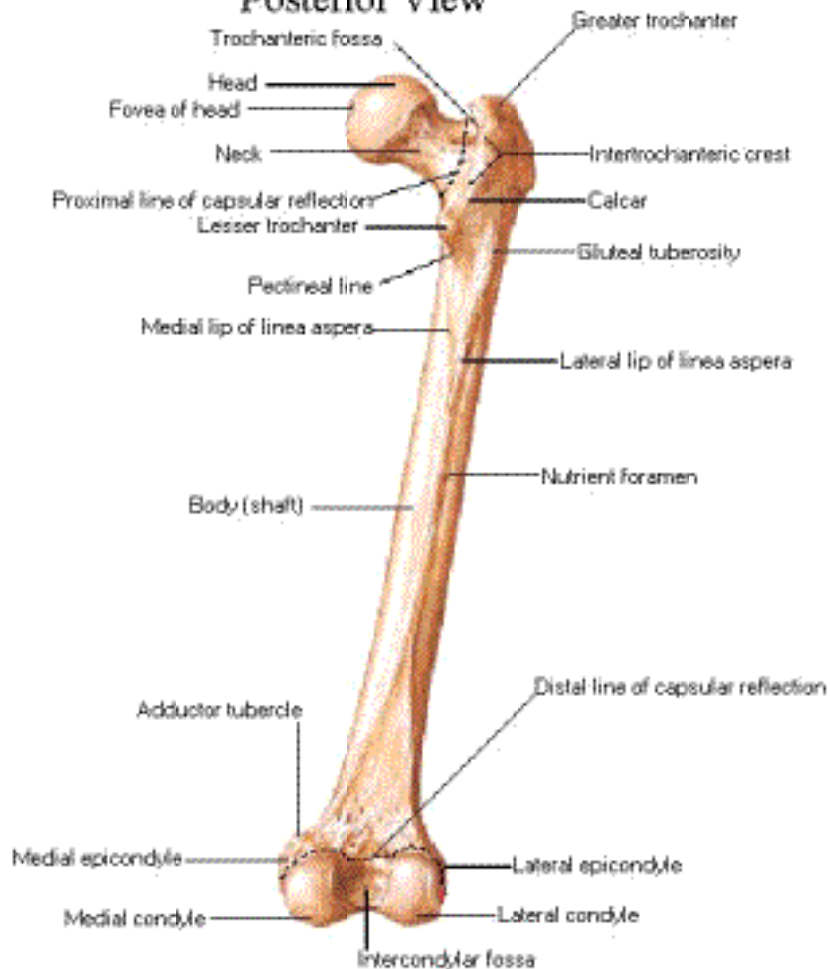
# Femur

## Anterior View



# Femur

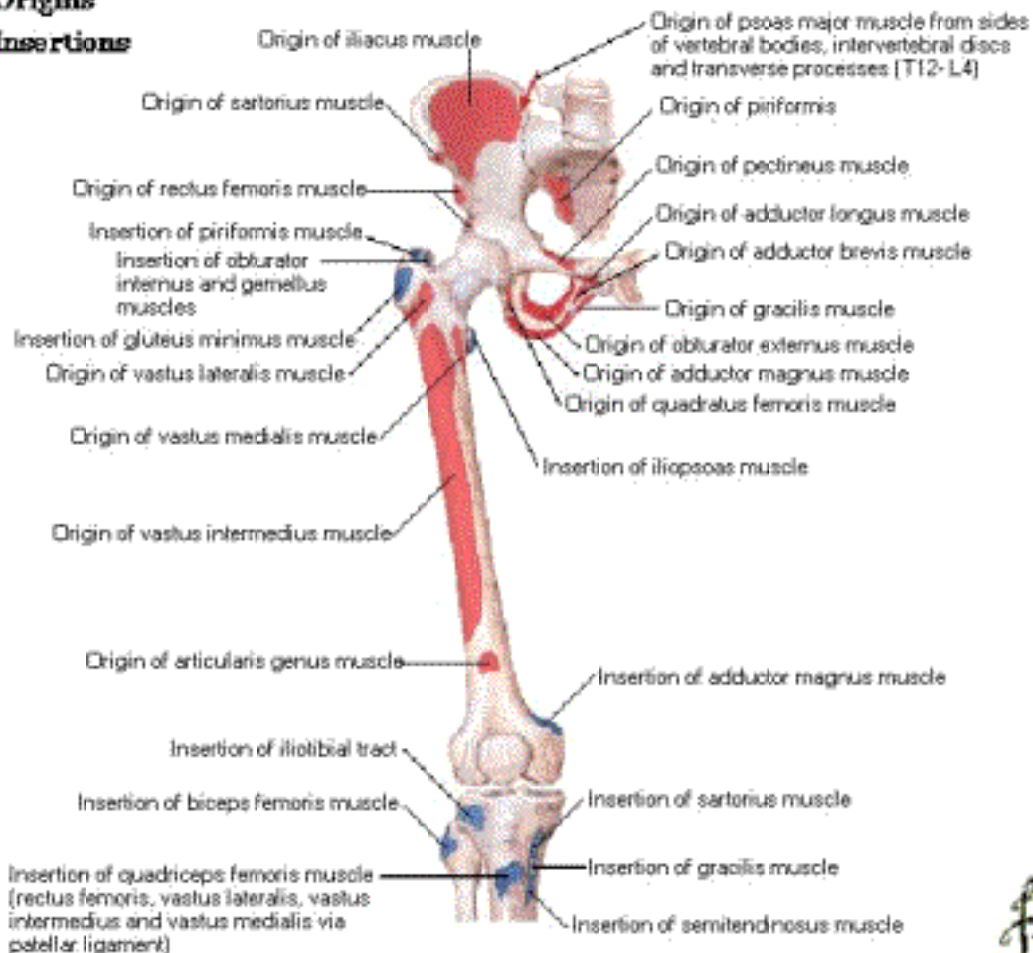
## Posterior View



# Bony Attachments of Muscles of Hip and Thigh

## Anterior View

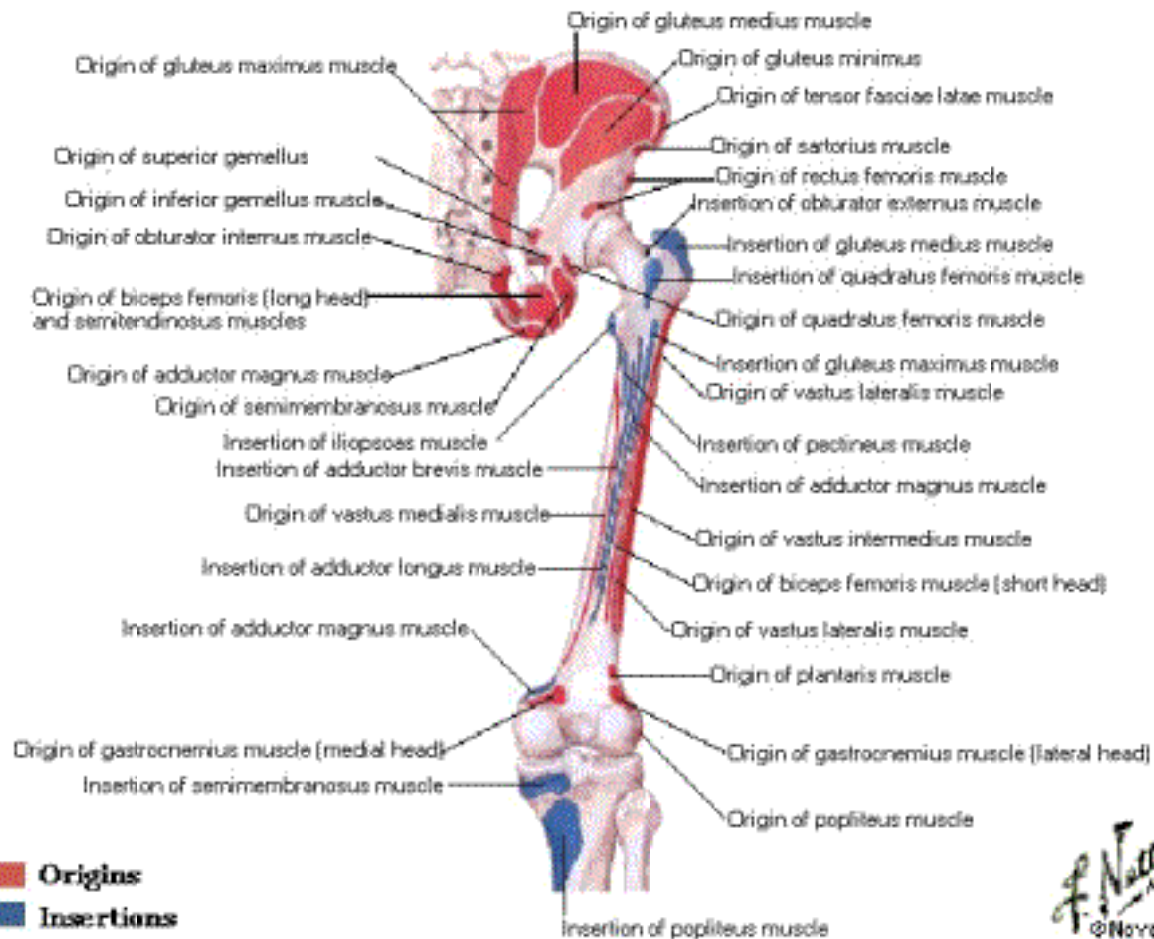
- **Origins**
- **Insertions**



*f*

# Bony Attachments of Muscles of Hip and Thigh

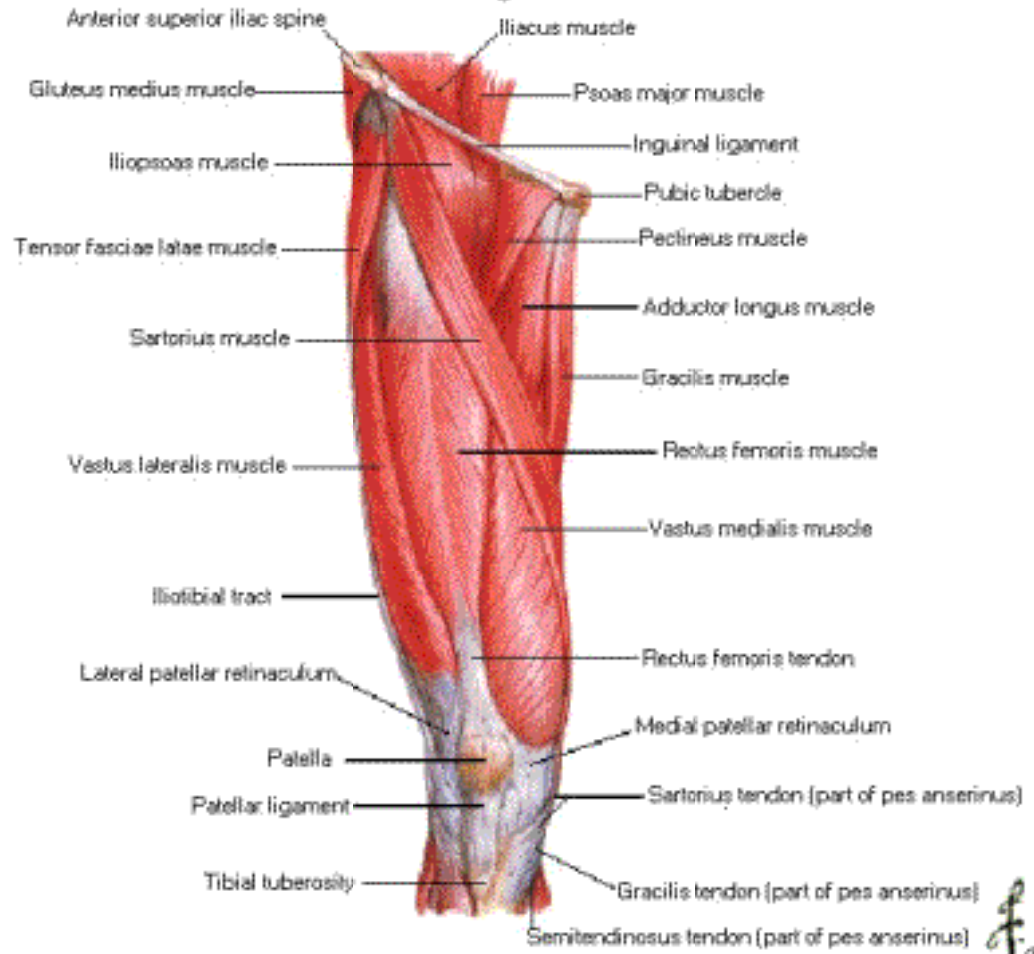
## Posterior View





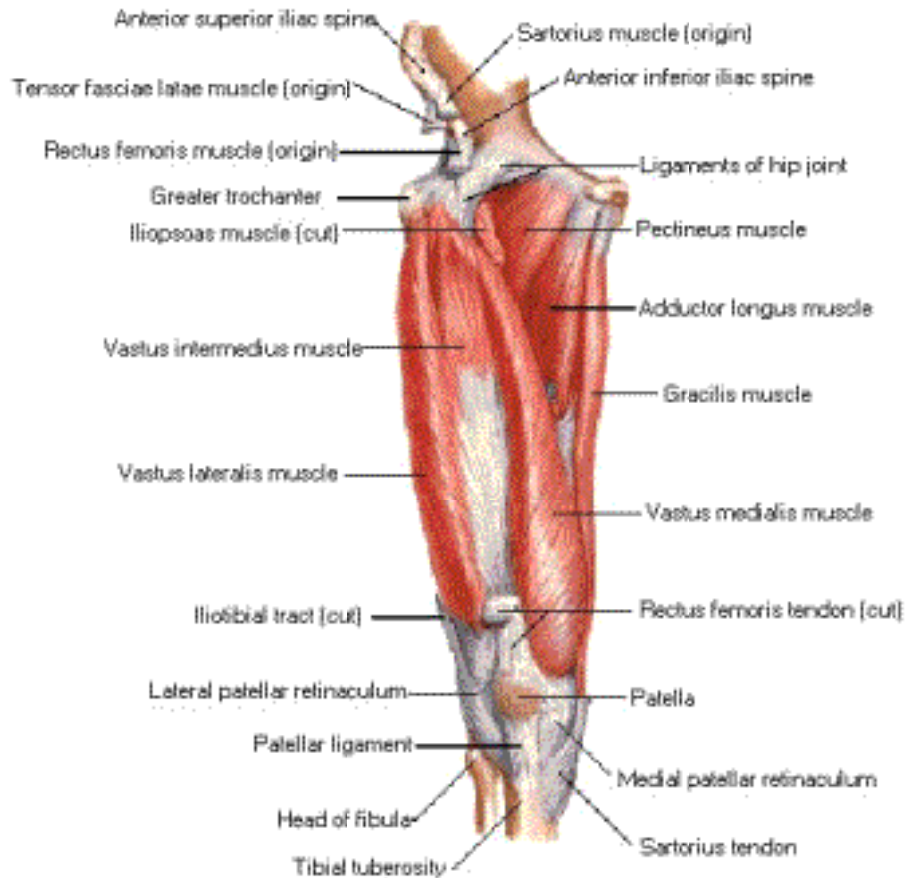
# Muscles of Thigh

## Anterior View - Superficial Dissection



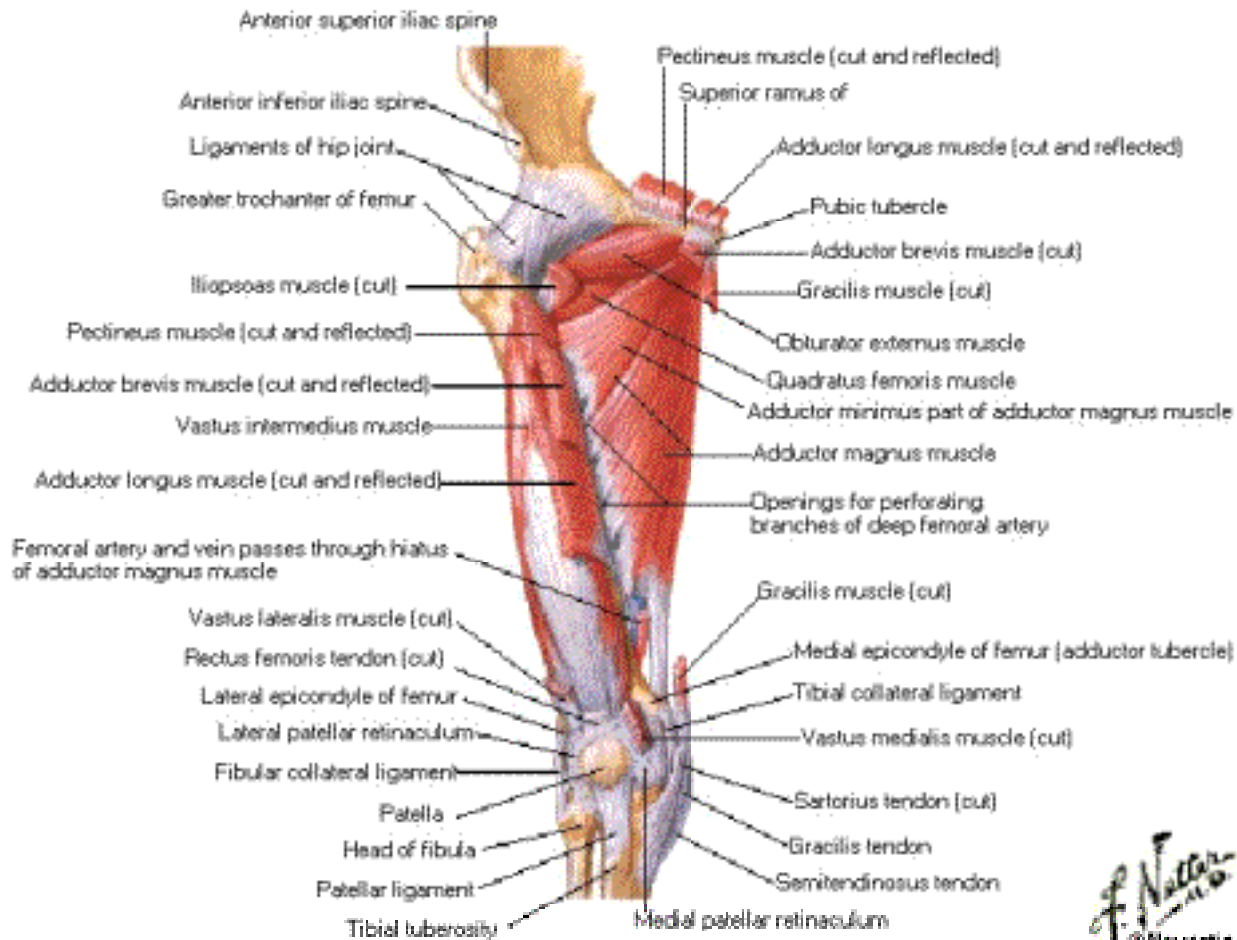
# Muscles of Thigh

## Anterior View - Deeper Dissection



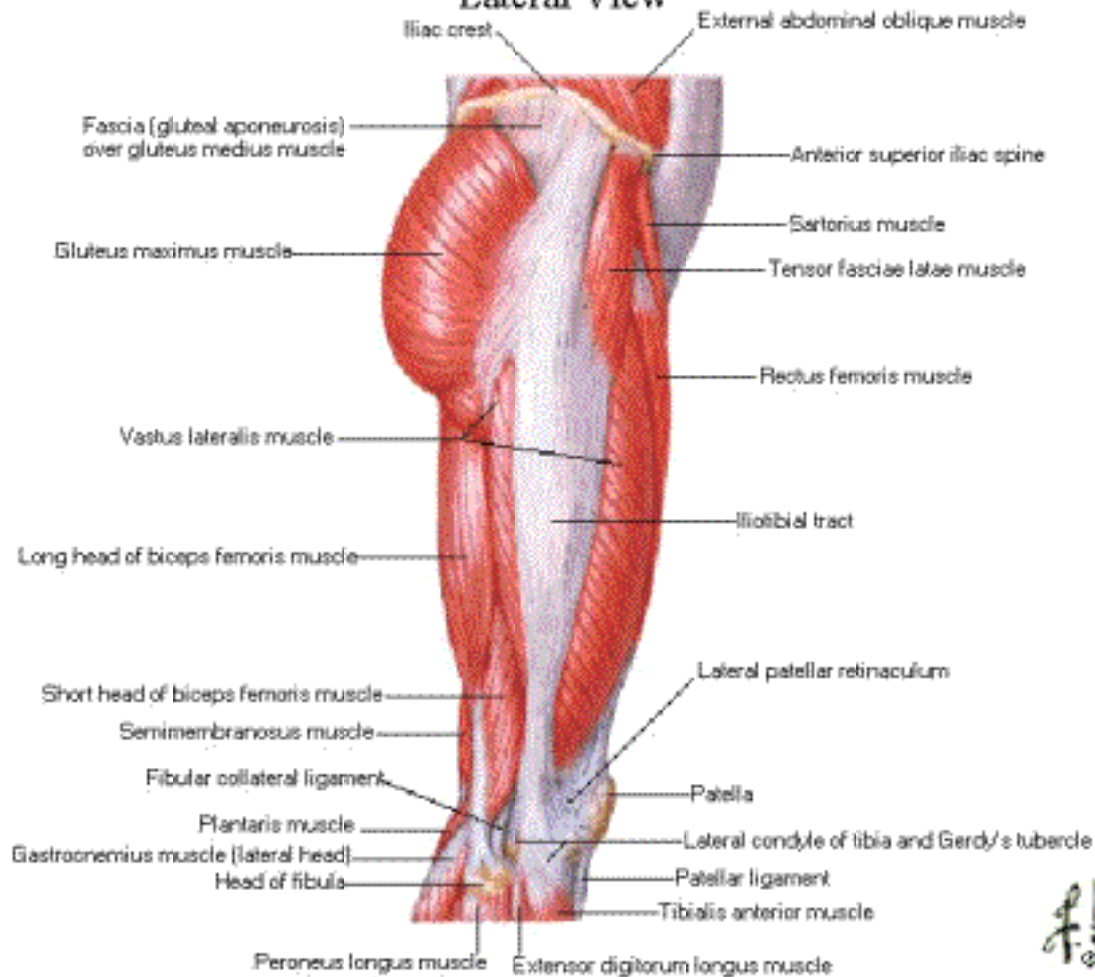
# Muscles of Thigh

## Anterior View - Deepest Dissection



# Muscles of Hip and Thigh

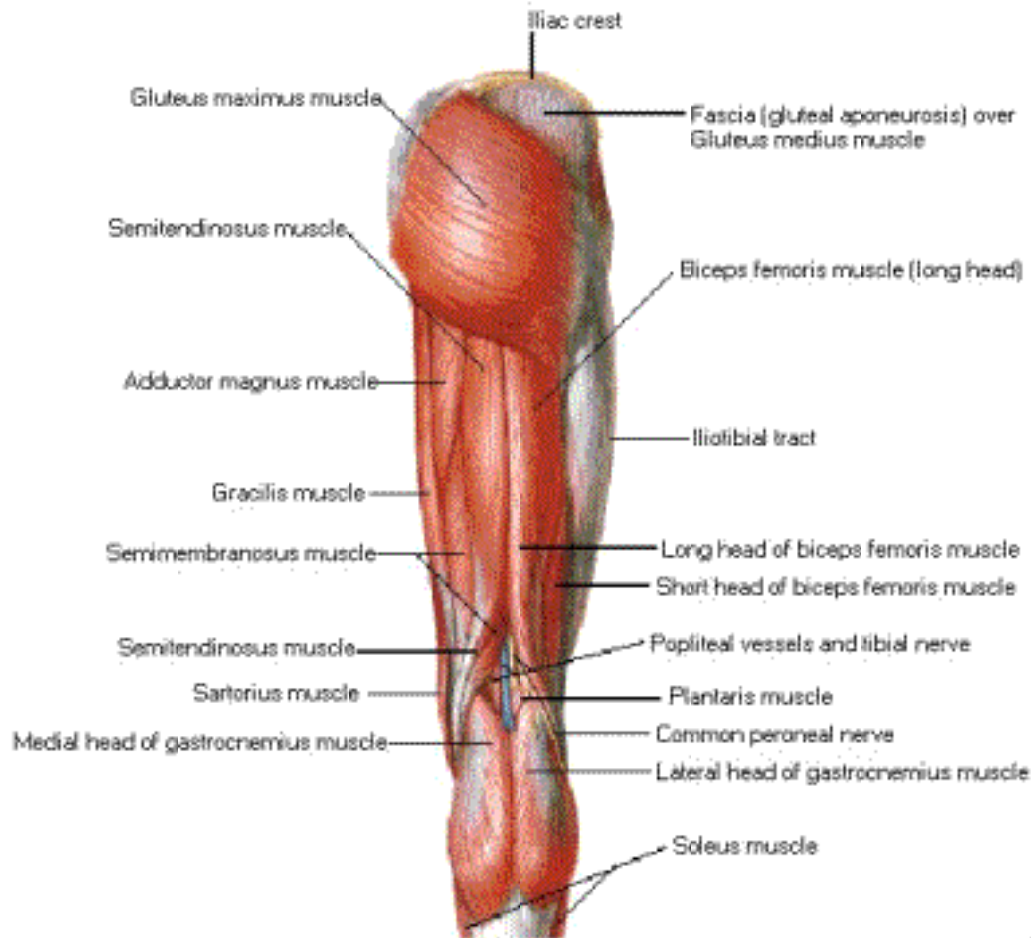
## Lateral View



*f!*

# Muscles of Hip and Thigh

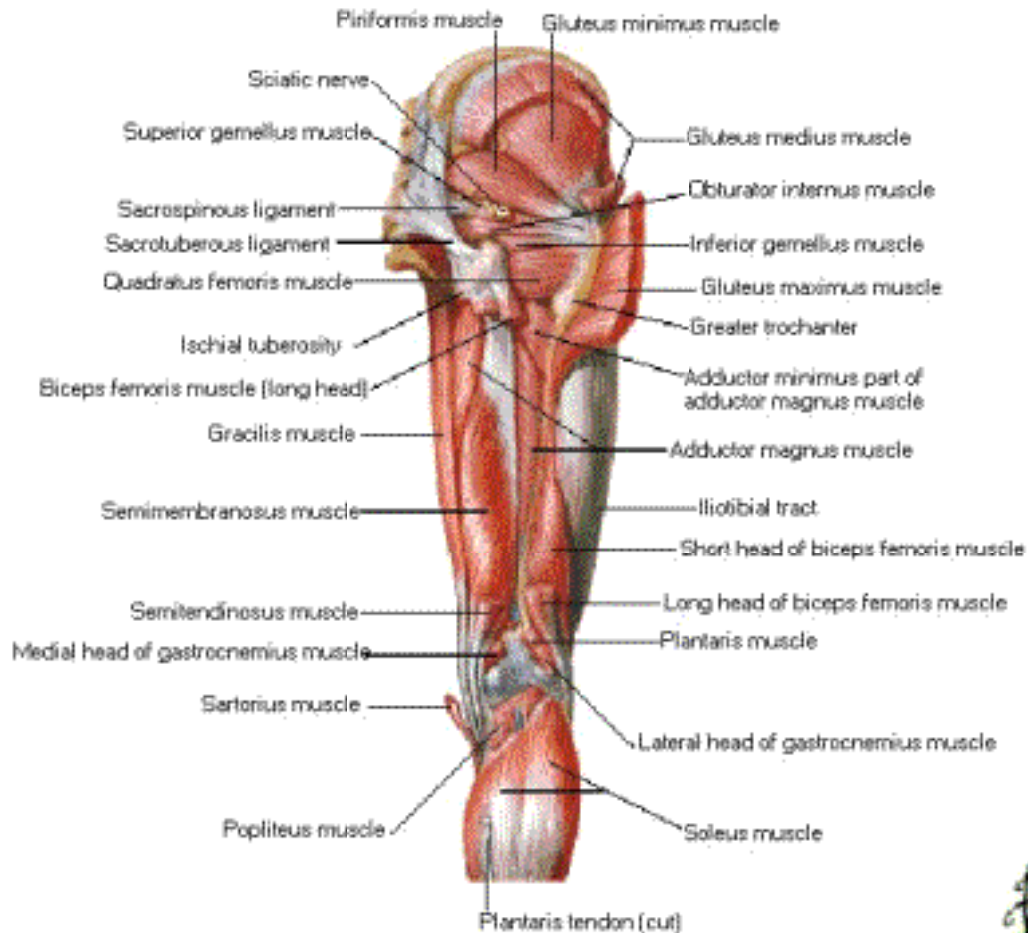
## Posterior View - Superficial Dissection





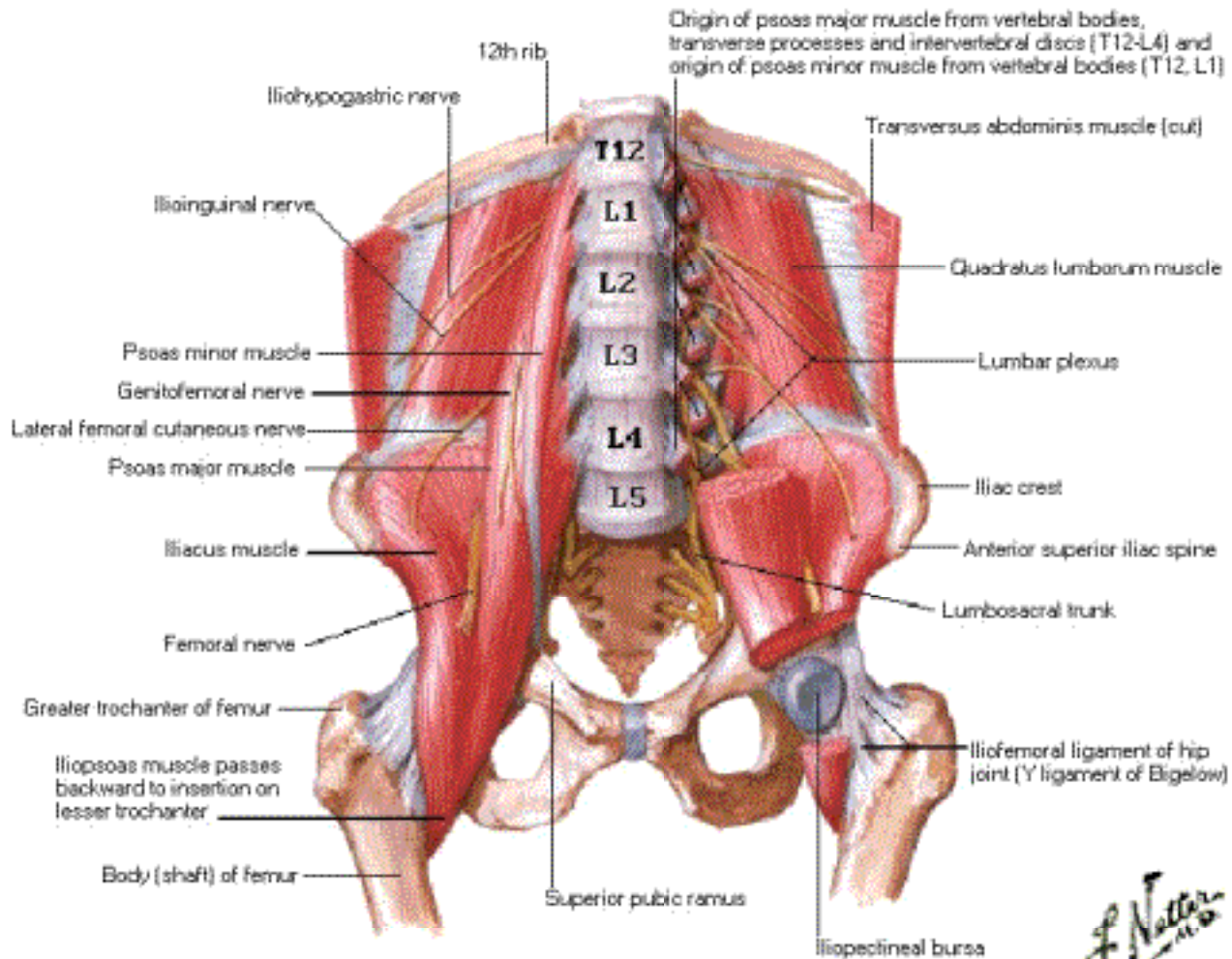
# Muscles of Hip and Thigh

## Posterior View - Deeper Dissection



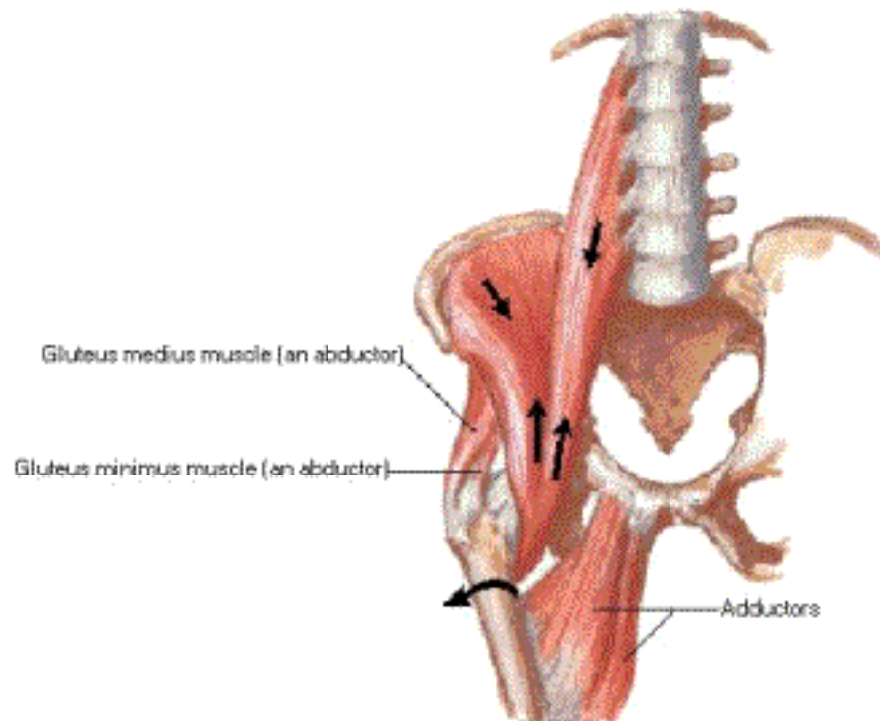
5/16

# Psoas and Iliacus Muscles



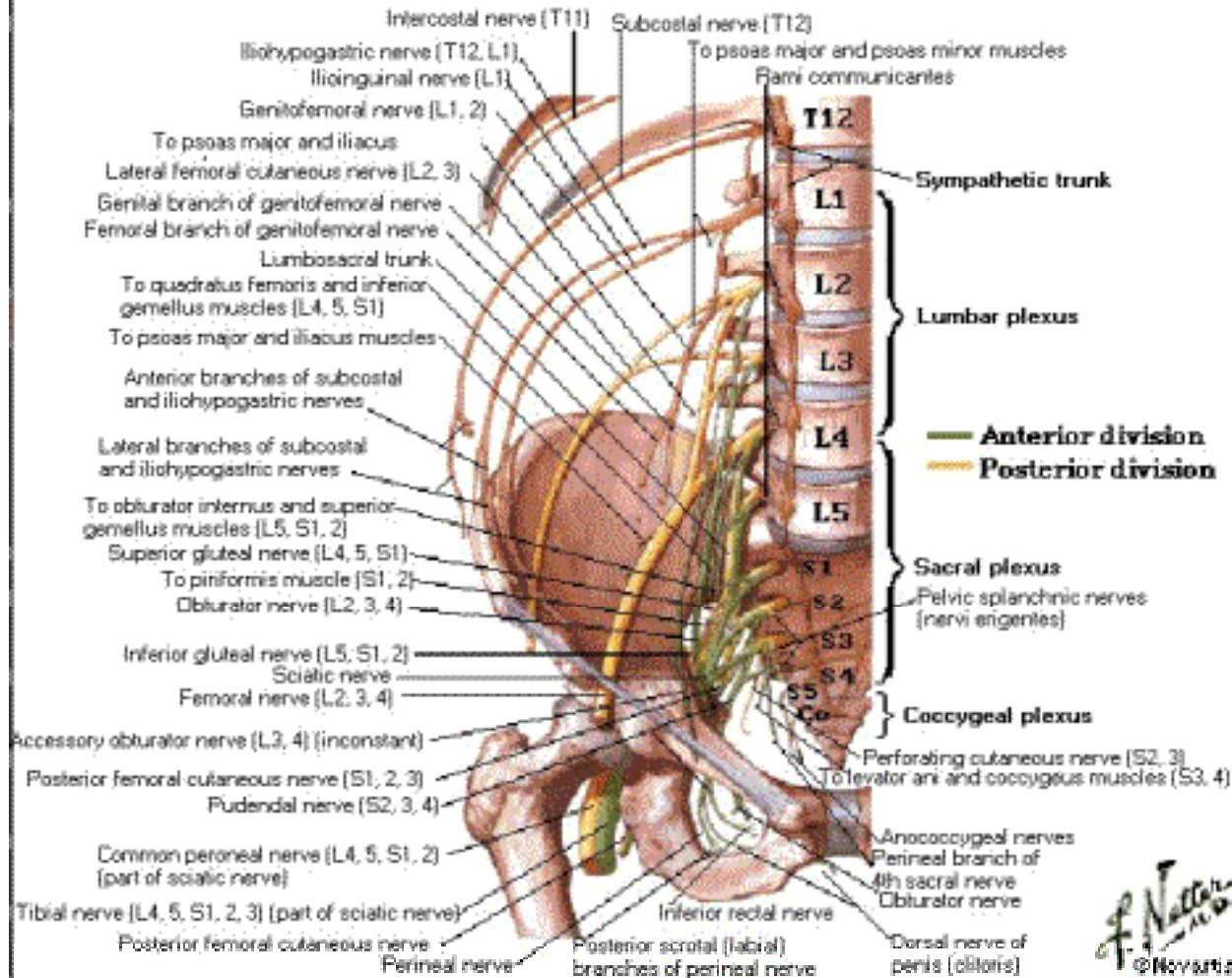
# Psoas and Iliacus Muscles

## Action



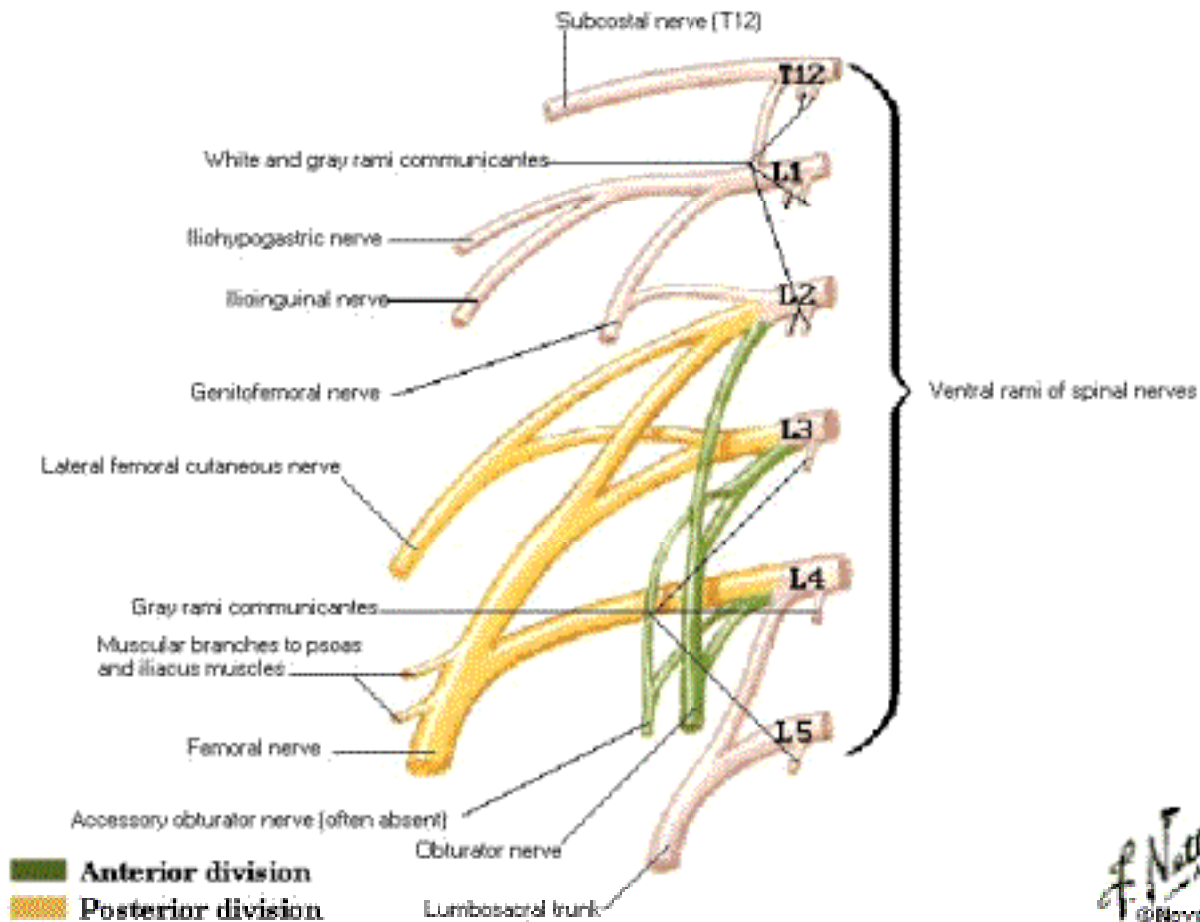
Note: arrows indicate direction of action of iliopsoas muscle

# Lumbosacral and Coccygeal Plexuses



*F. Netter M.D.*  
© H&W

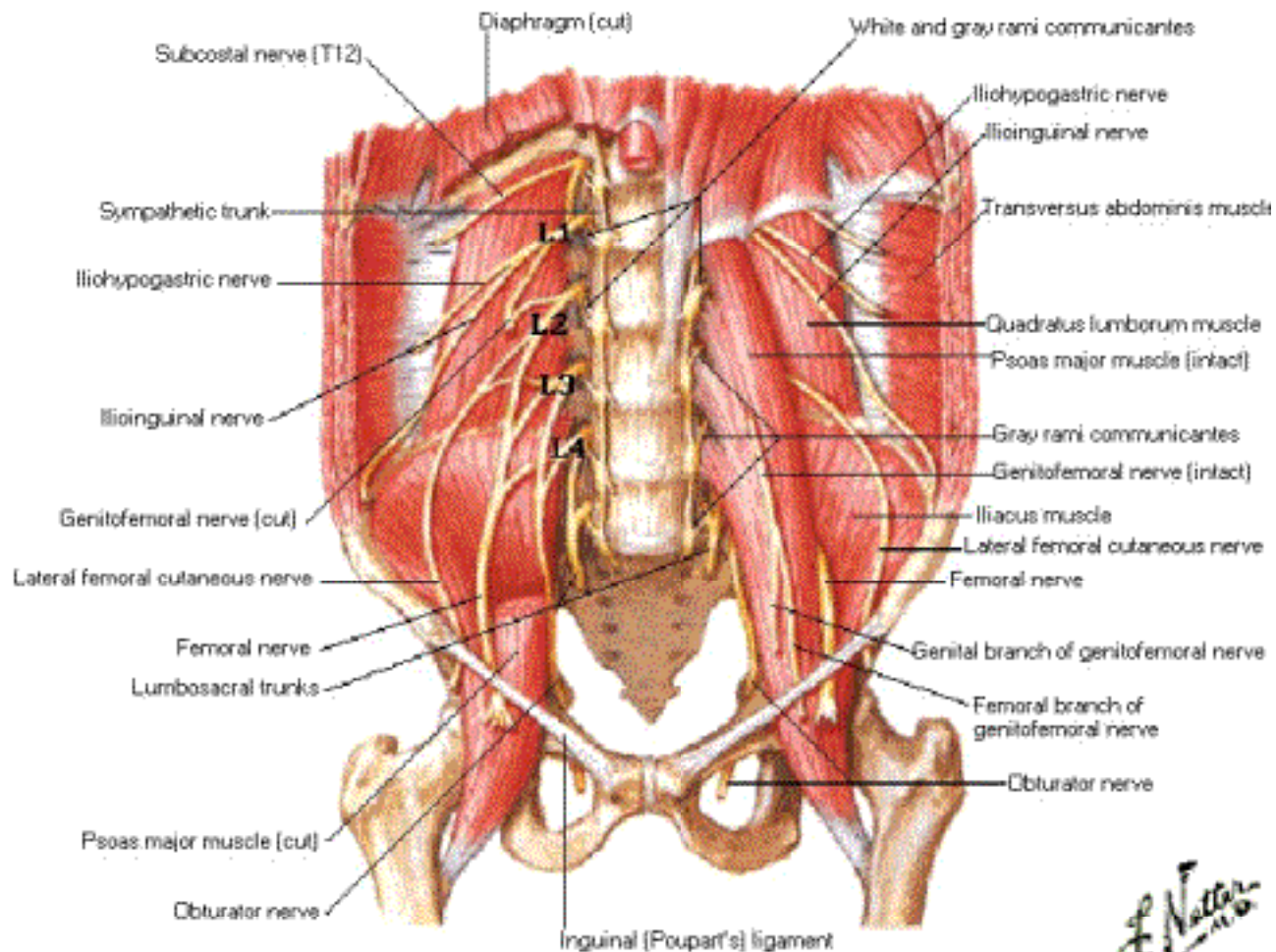
# Lumbar Plexus Schema



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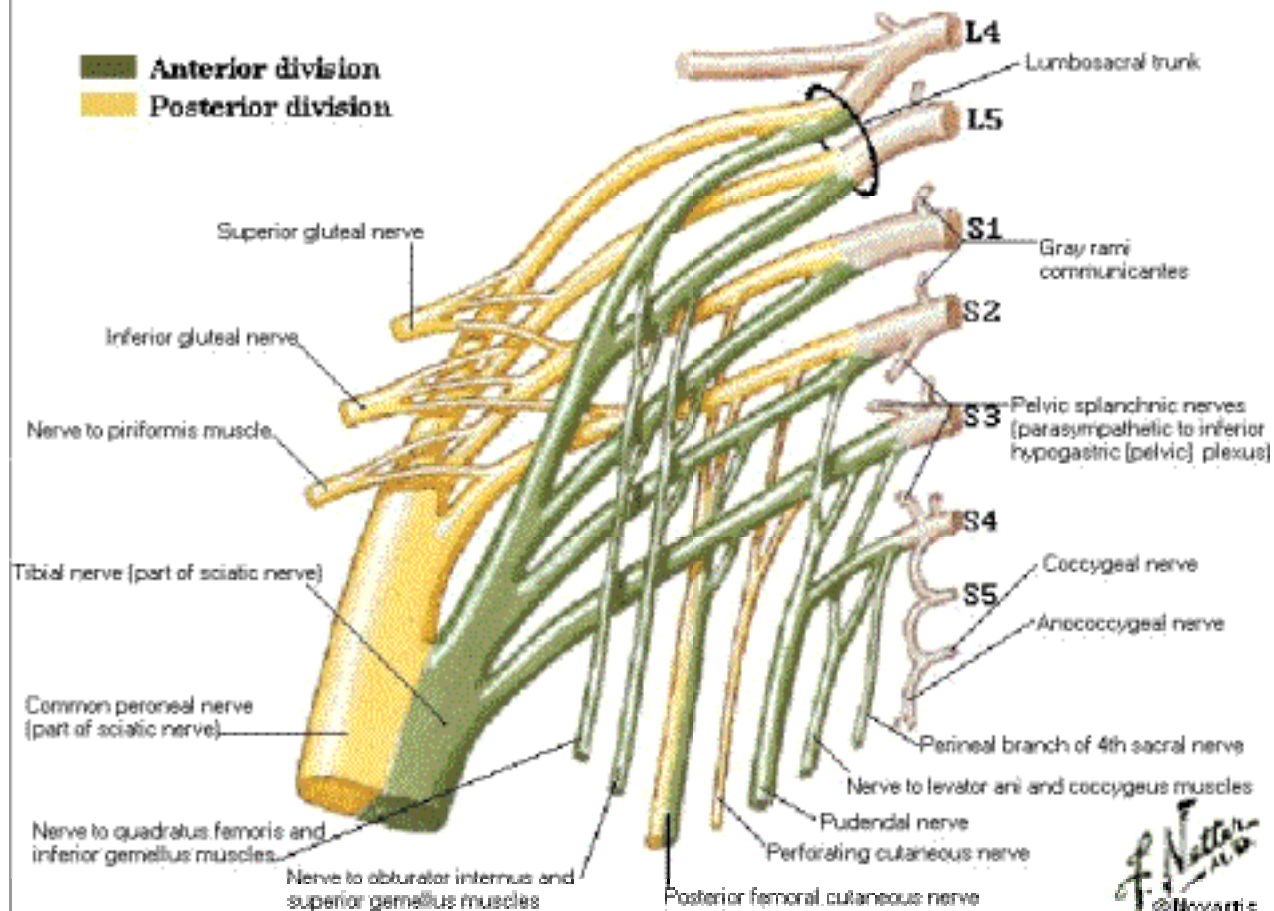


# Lumbar Plexus in Situ

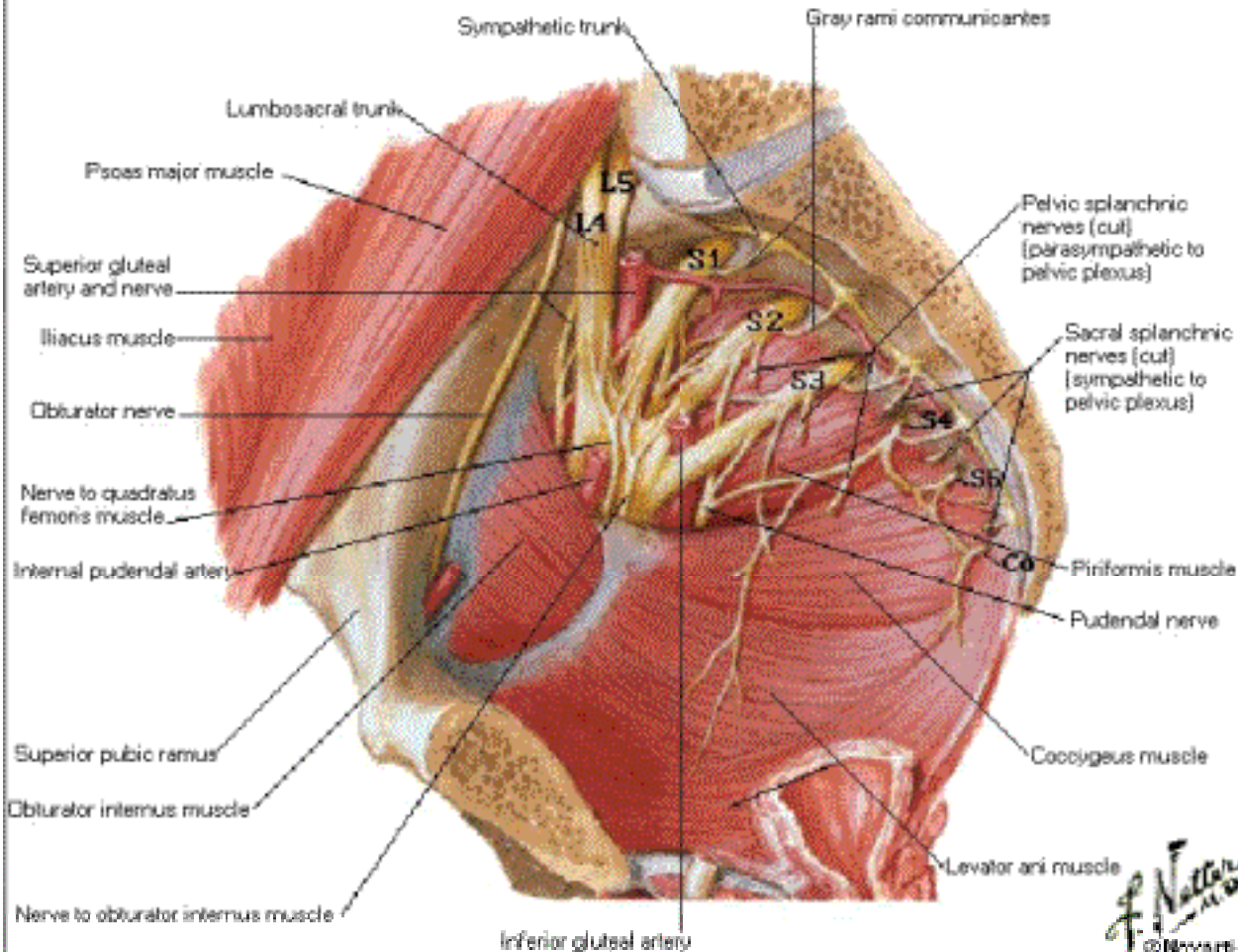


# Sacral and Coccygeal Plexuses

## Schema

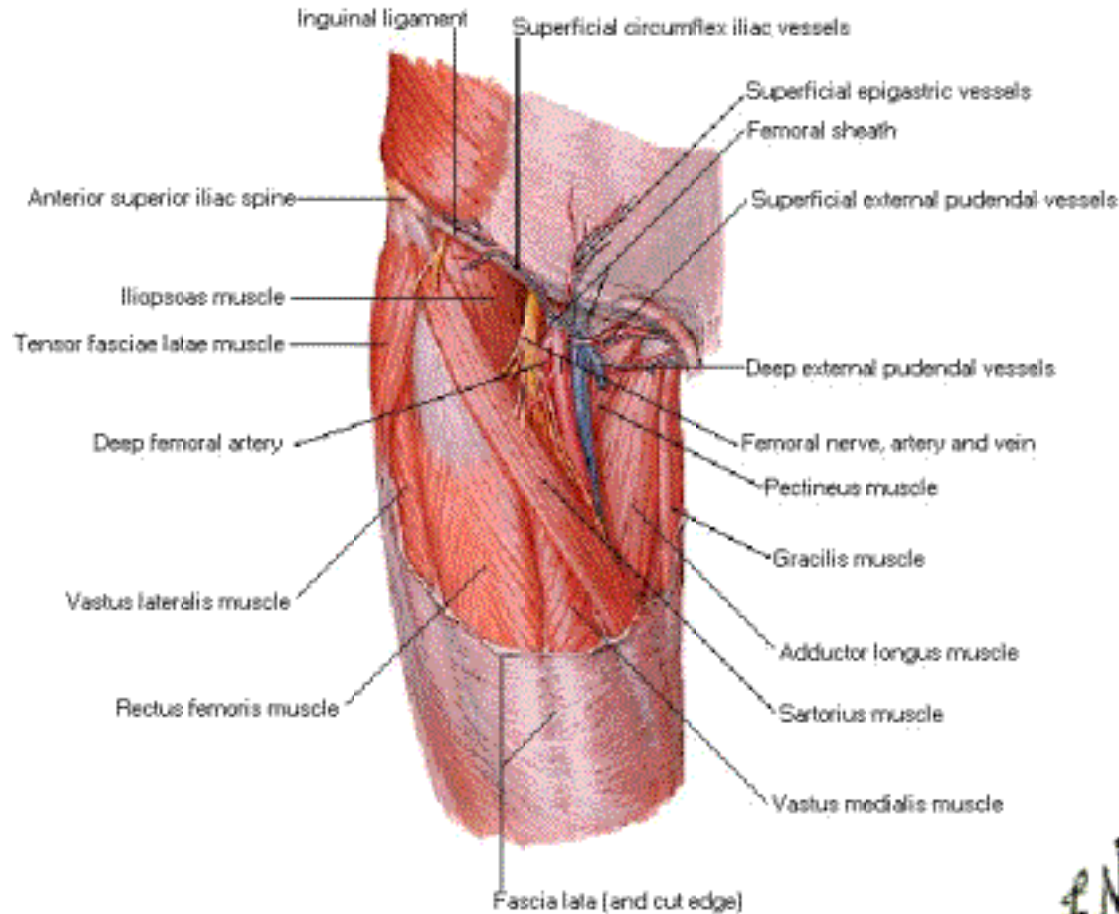


# Sacral and Coccygeal Plexuses in Situ



# Arteries and Nerves of Thigh

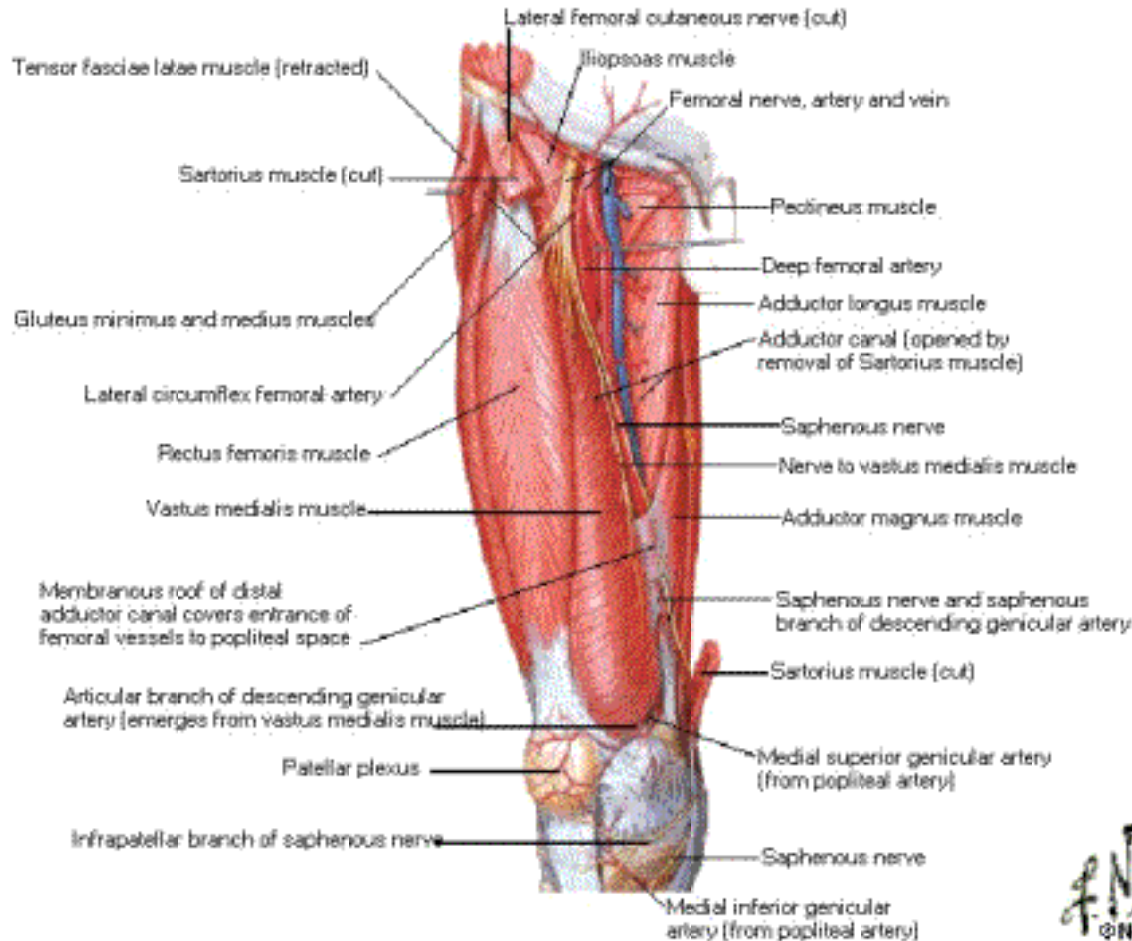
## Superficial Anterior View



EN

# Arteries and Nerves of Thigh

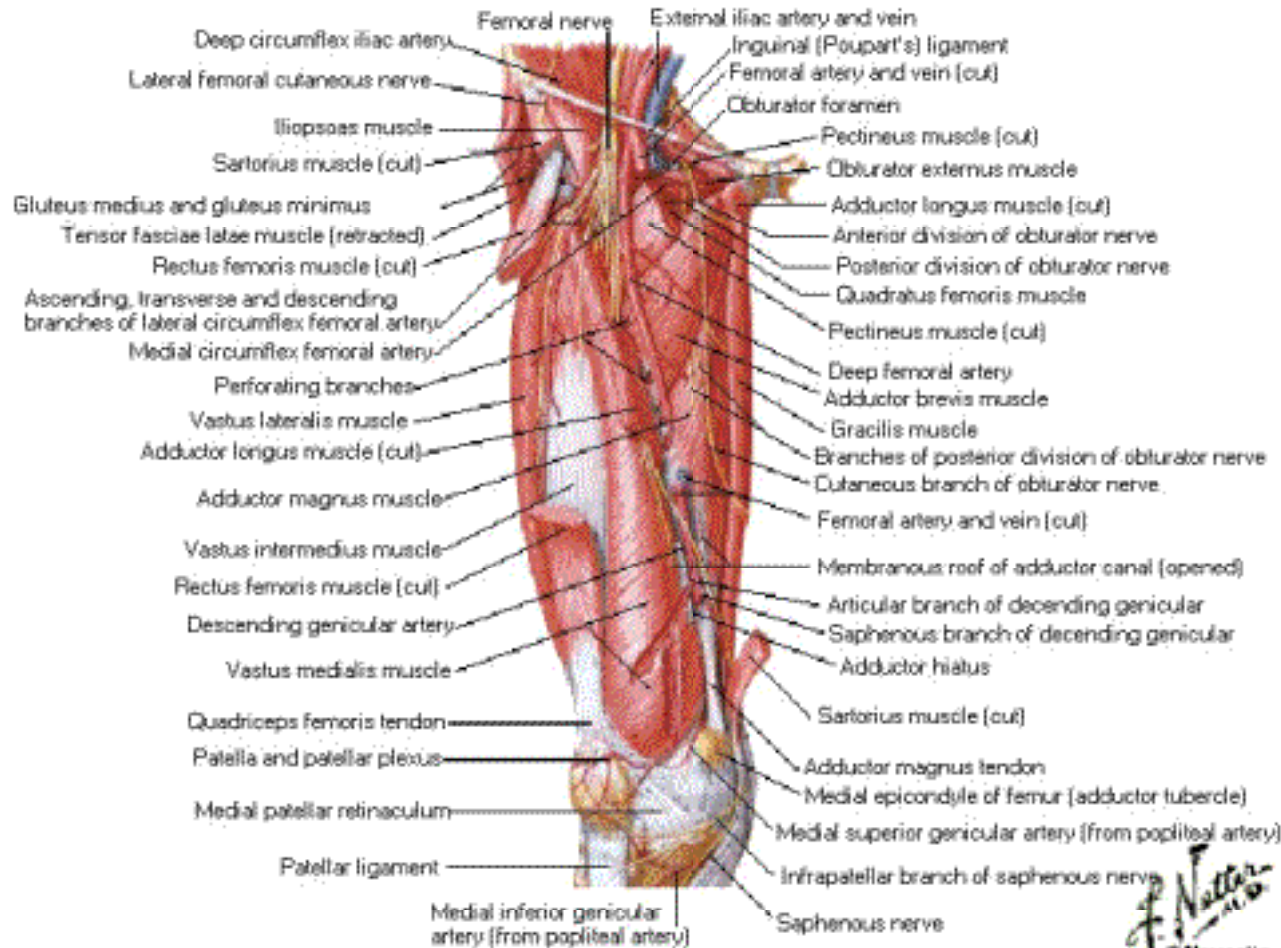
## Deeper Anterior View





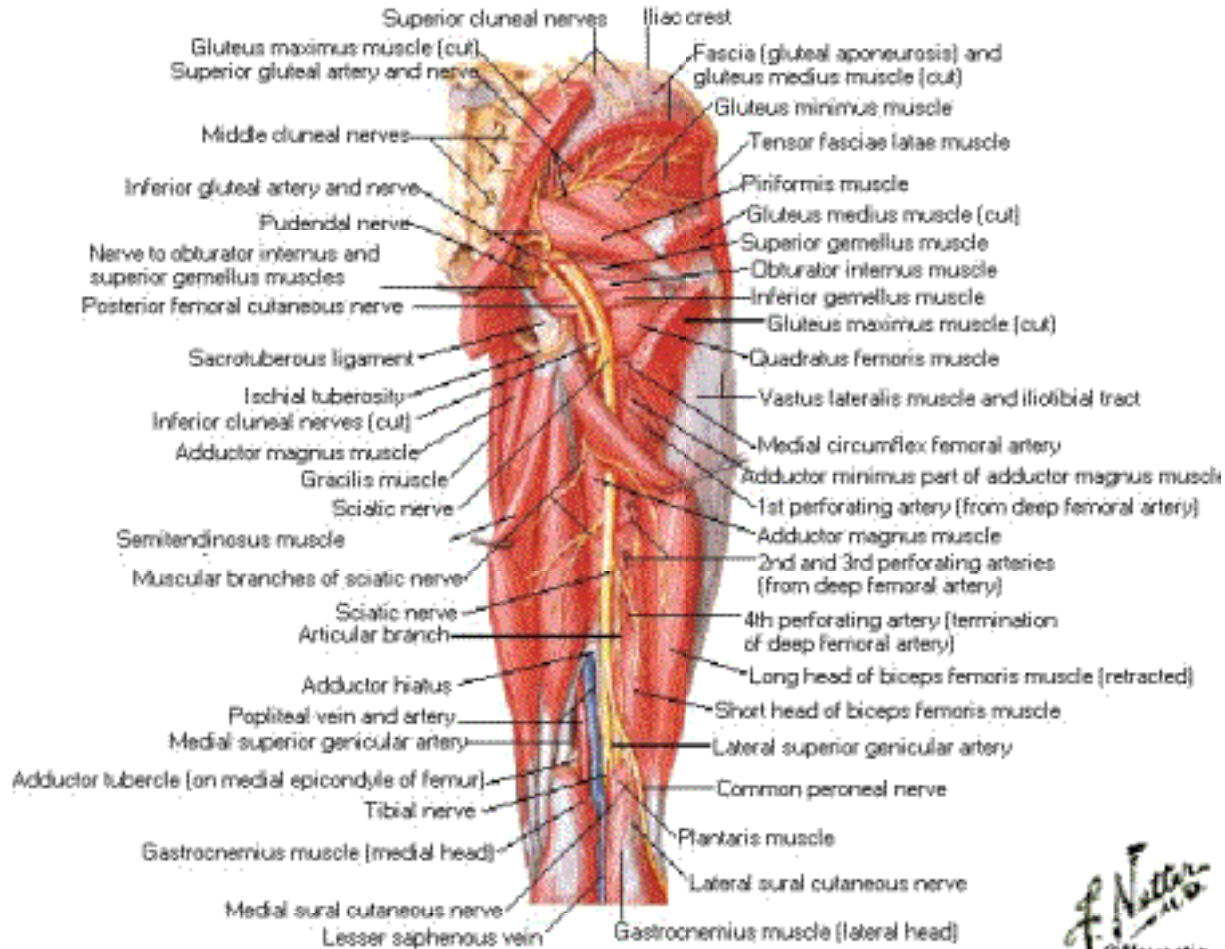
# Arteries and Nerves of Thigh

## Deepest Anterior View

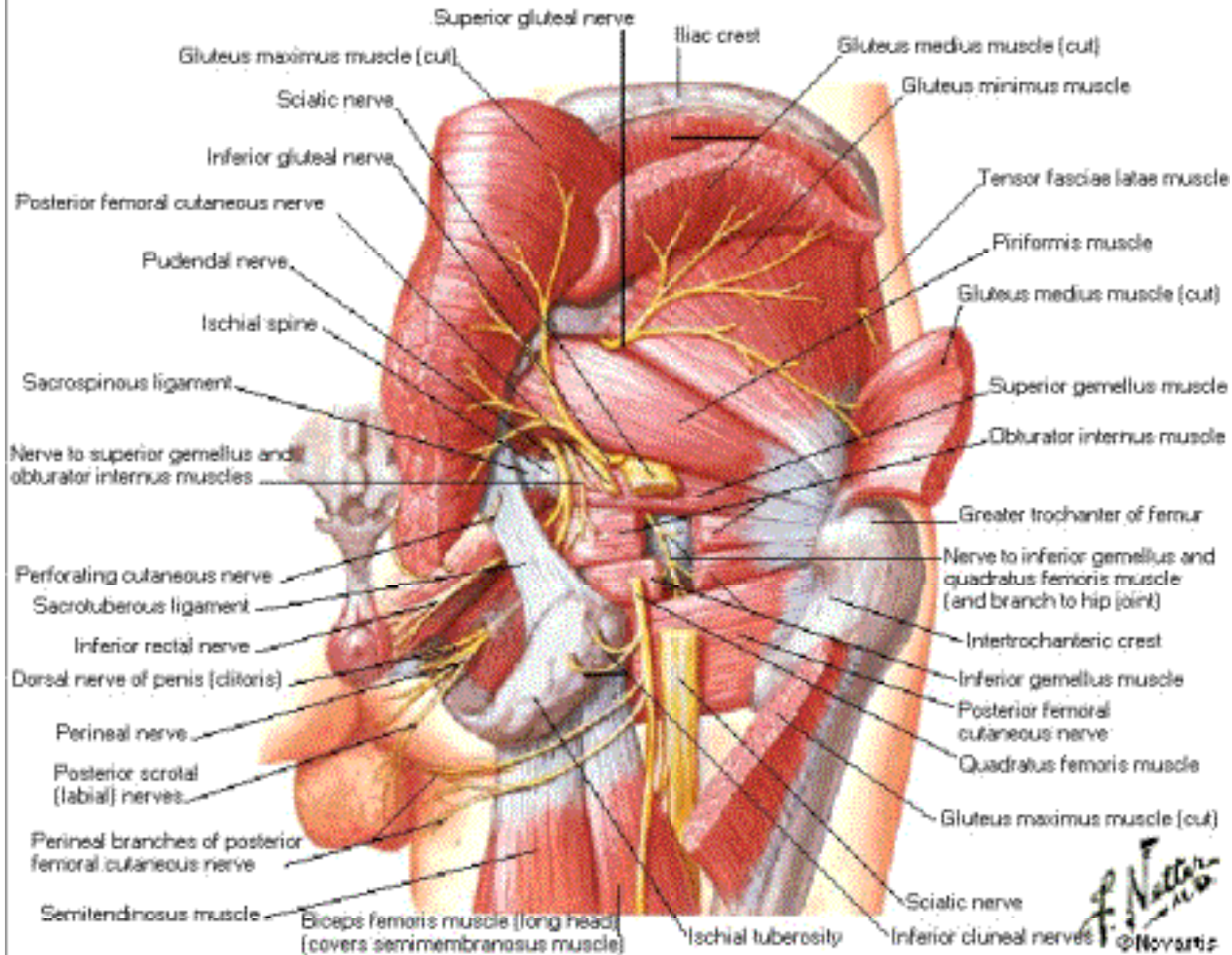


# Arteries and Nerves of Thigh

## Posterior View

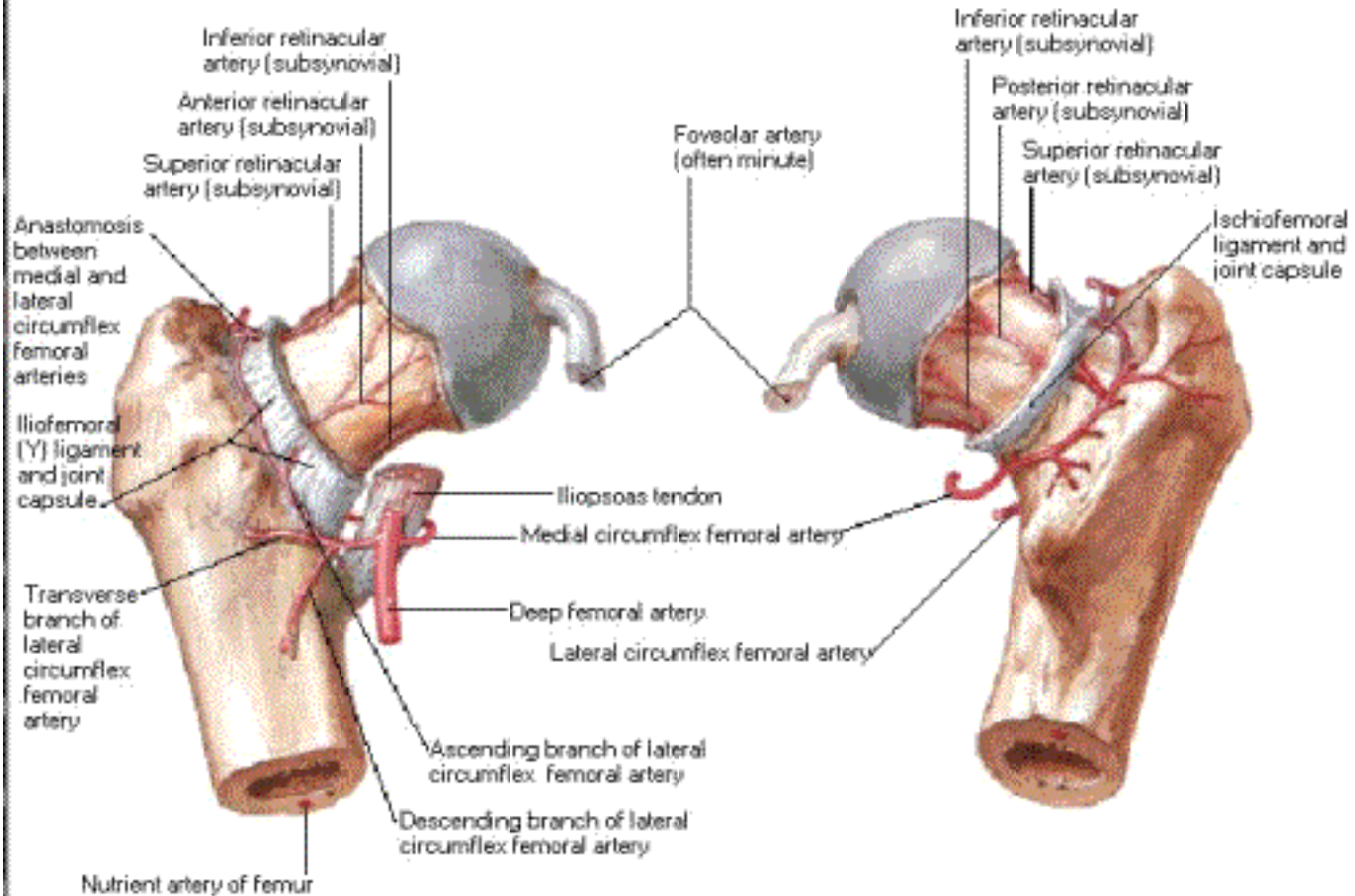


# Nerves of Hip and Buttock



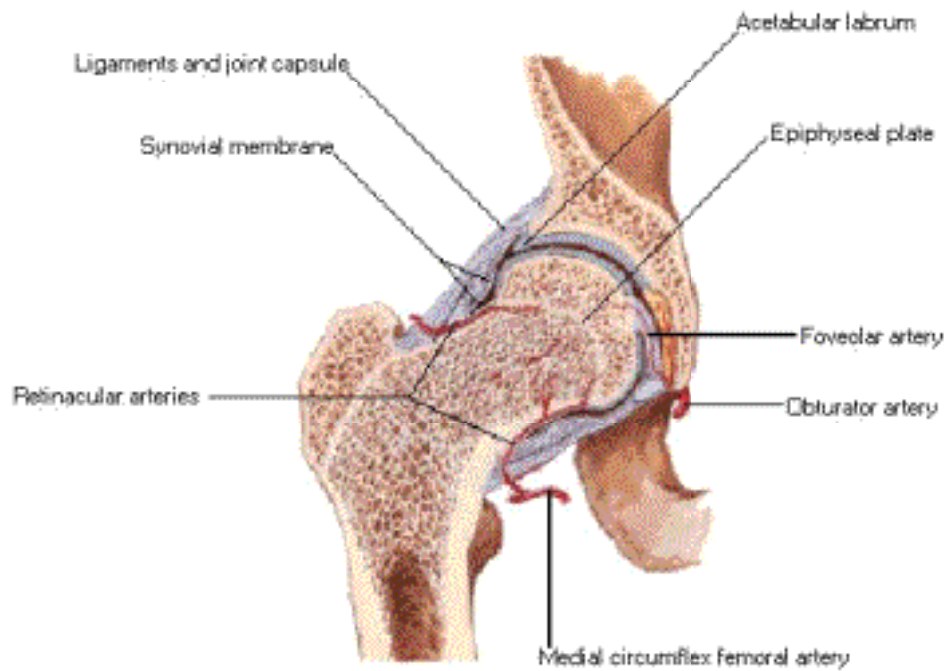
# Arteries of Femoral Head and Neck

## Anterior and Posterior Views



# Arteries of Femoral Head and Neck

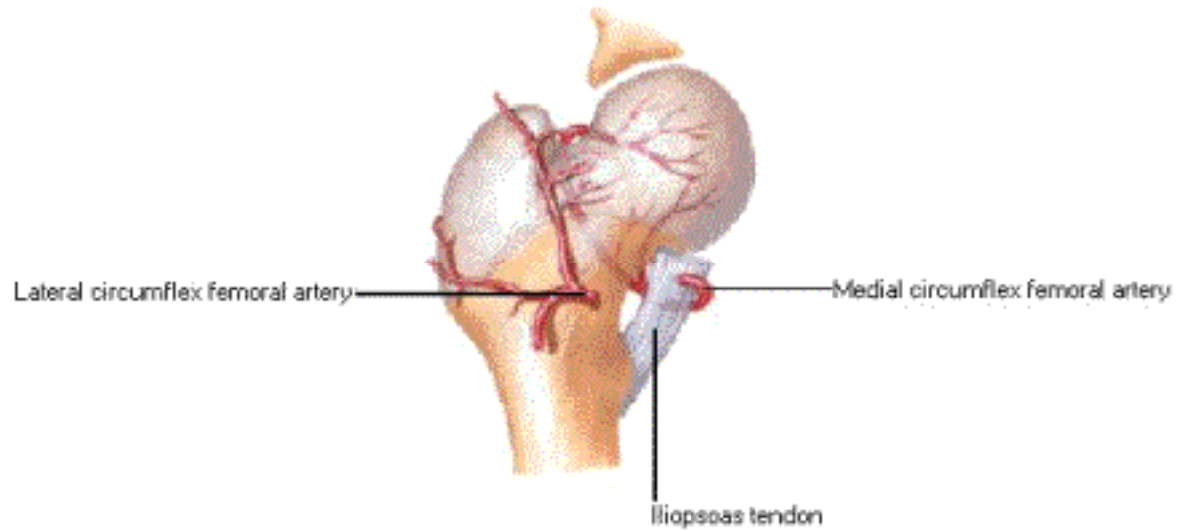
## Coronal Section





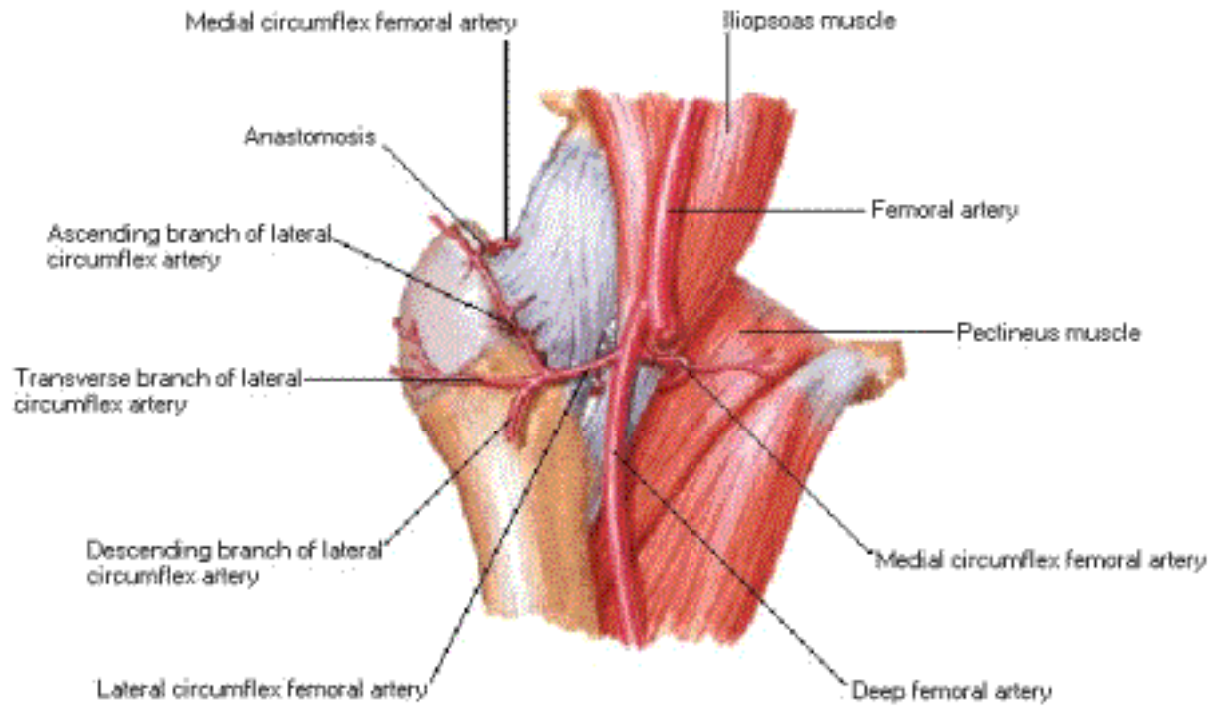
# Arteries of Femoral Head and Neck

## Femur of Child - Anterior View



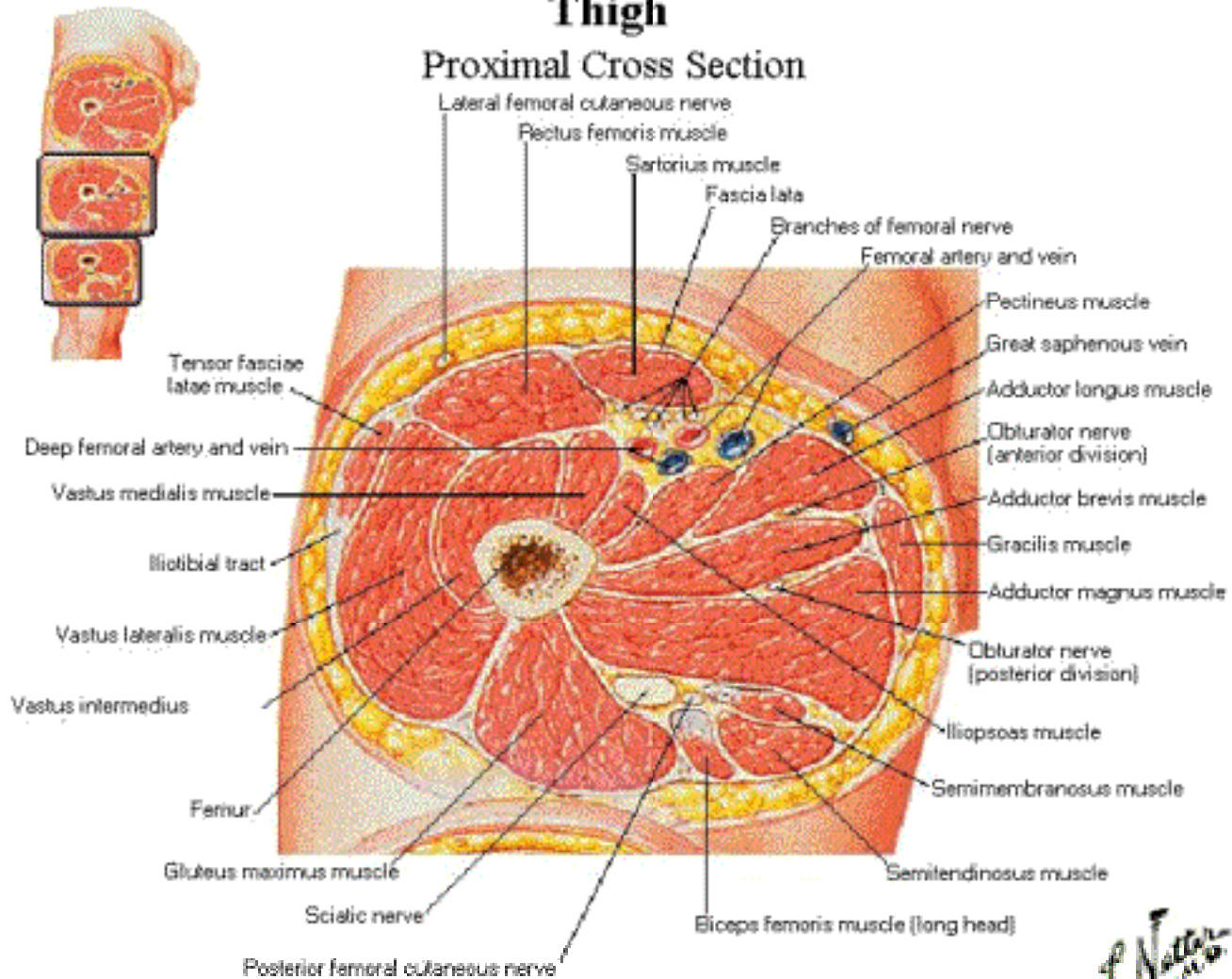
# Arteries of Femoral Head and Neck

## Anterior View in Situ



# Thigh

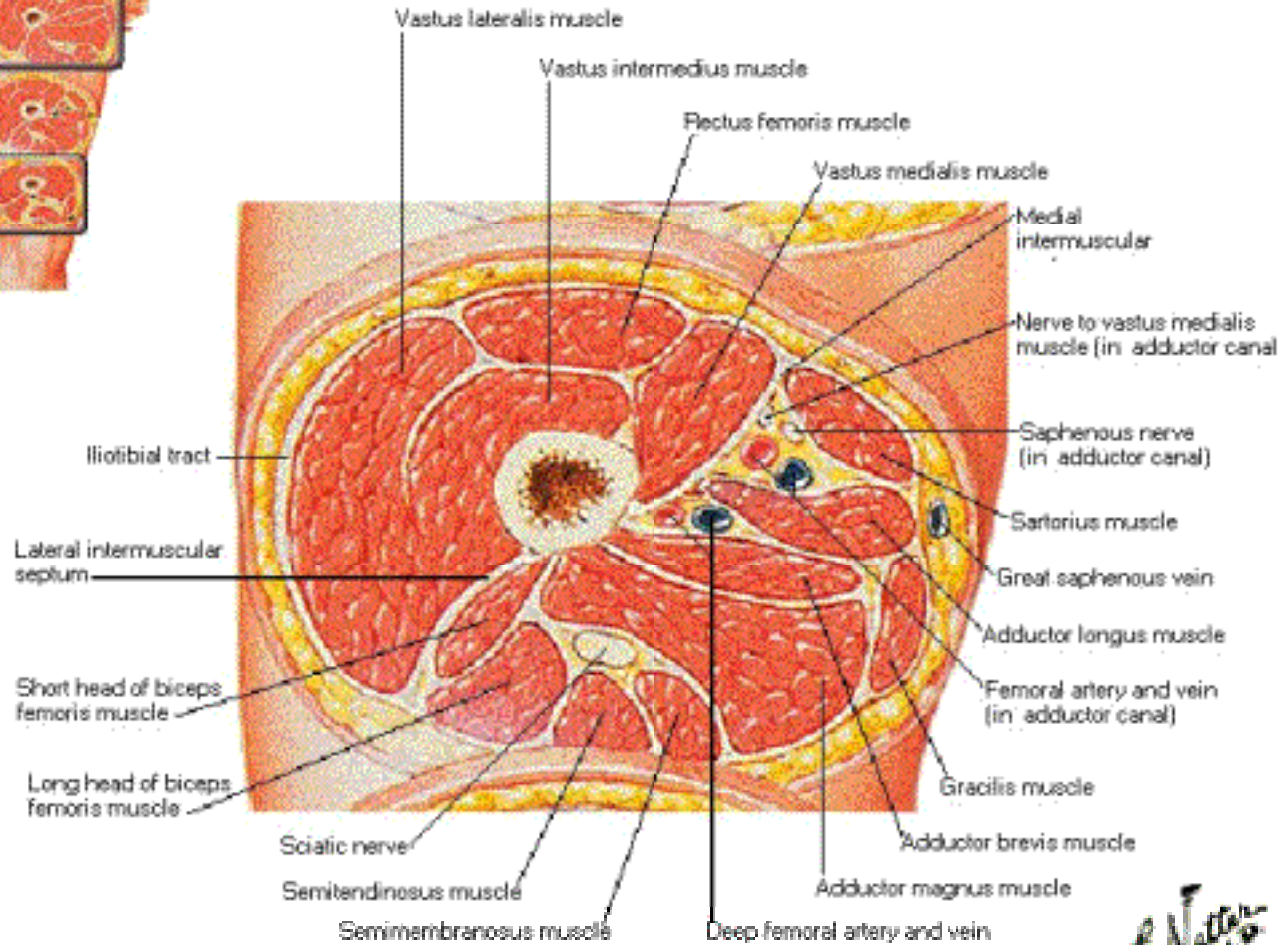
## Proximal Cross Section



*E. N. N. 2016*

# Thigh

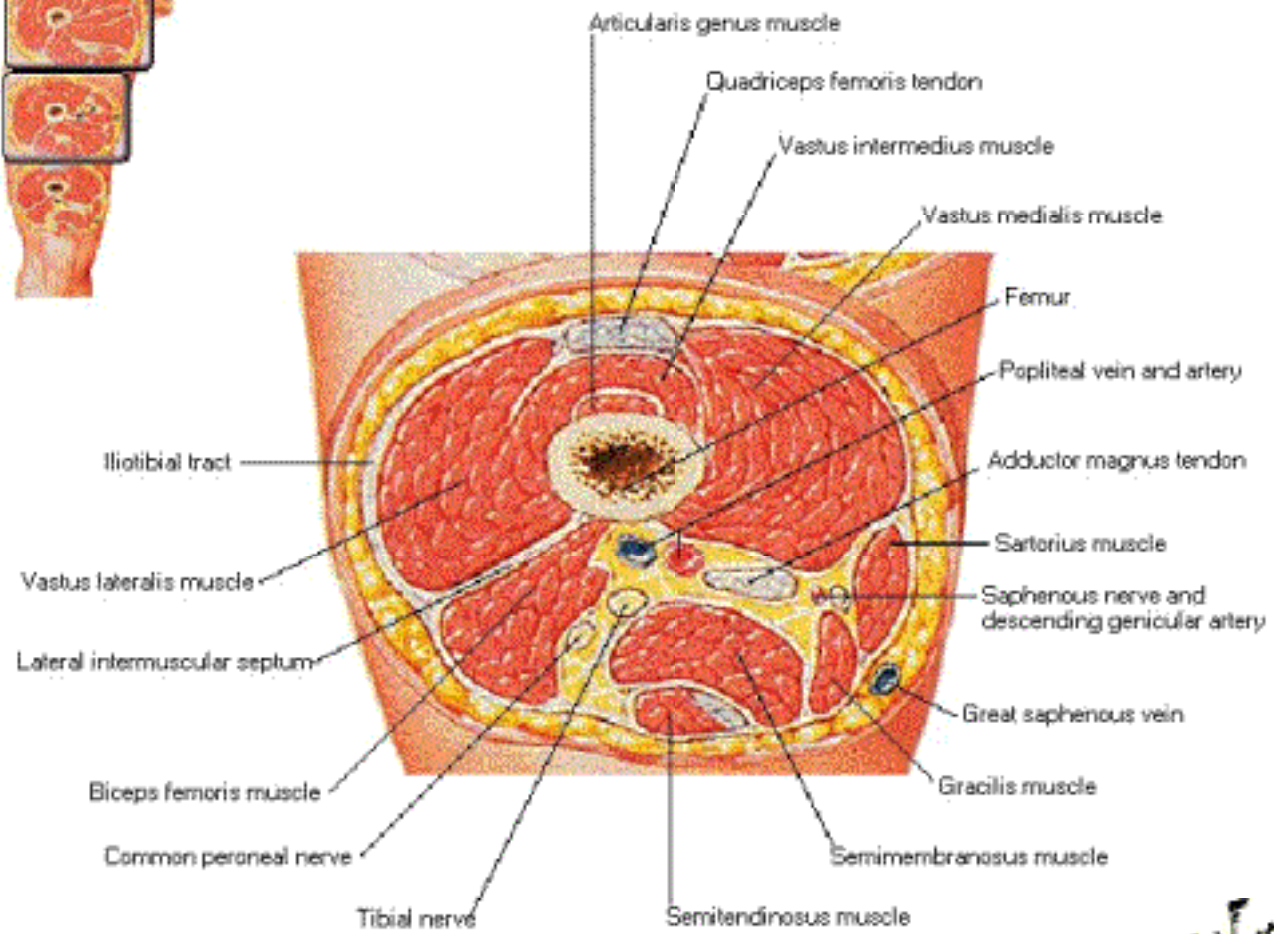
## Middle Cross Section



*A. Netter M.D.*

# Thigh

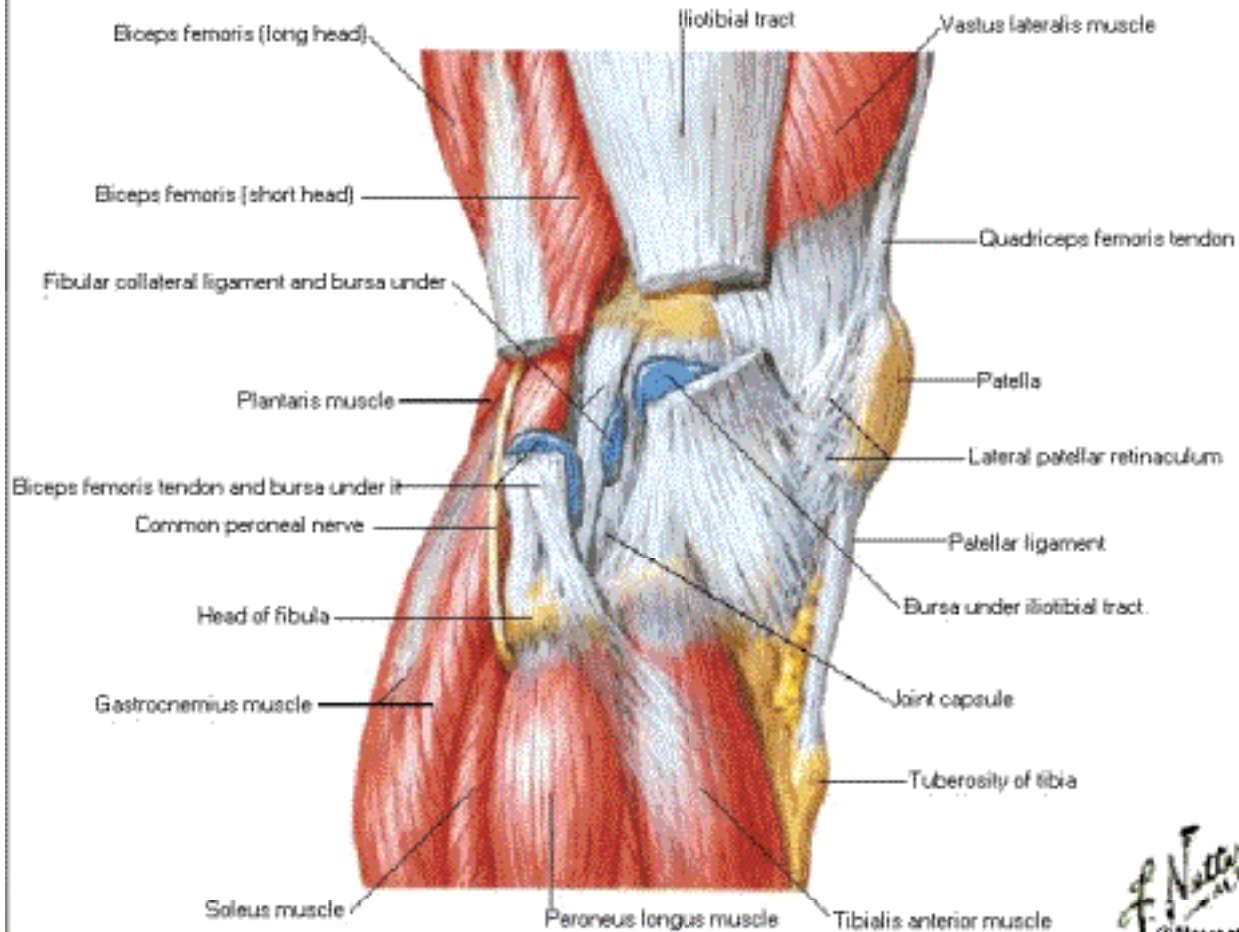
## Distal Cross Section





# Knee

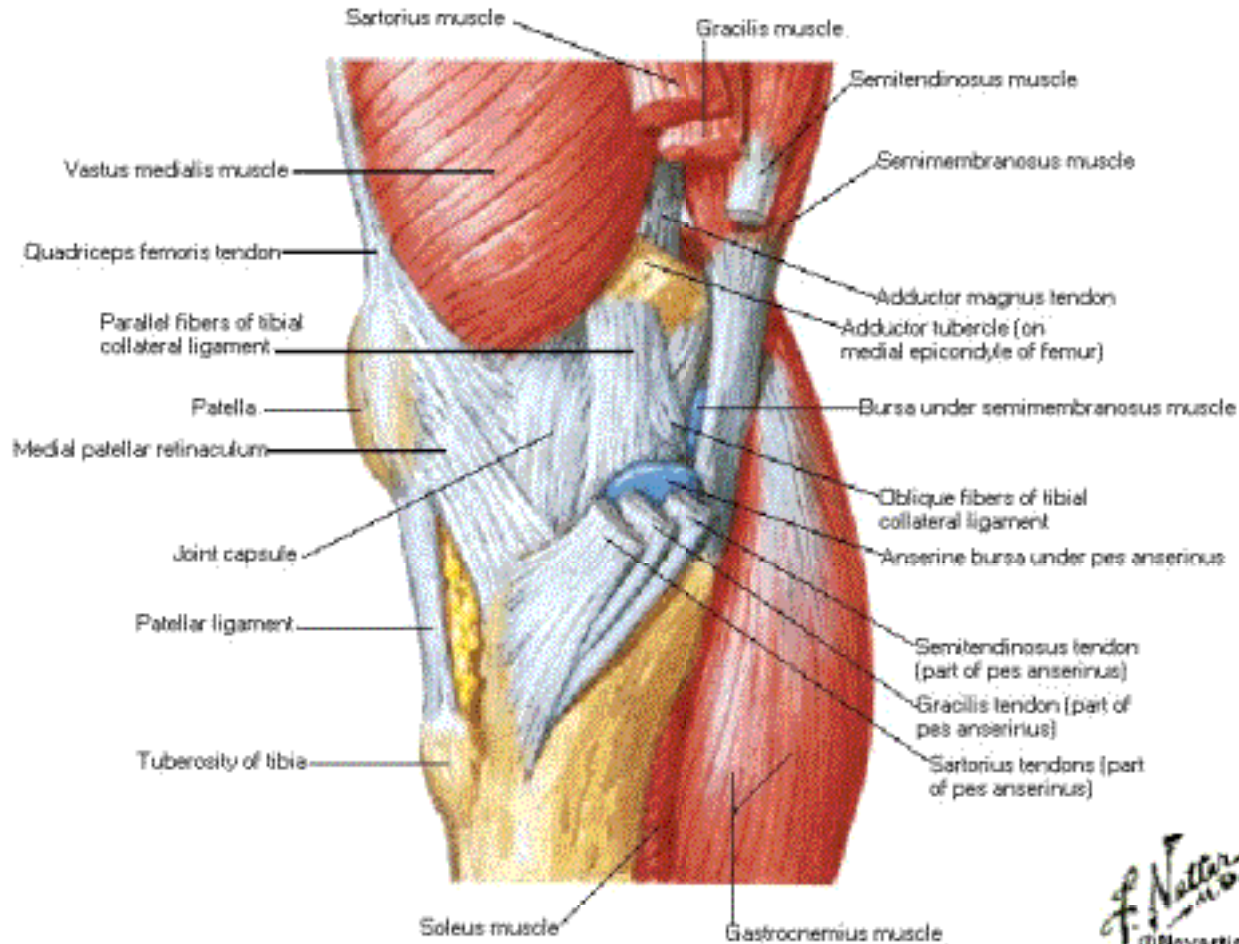
## Lateral View



F. Natta  
©Nevarta

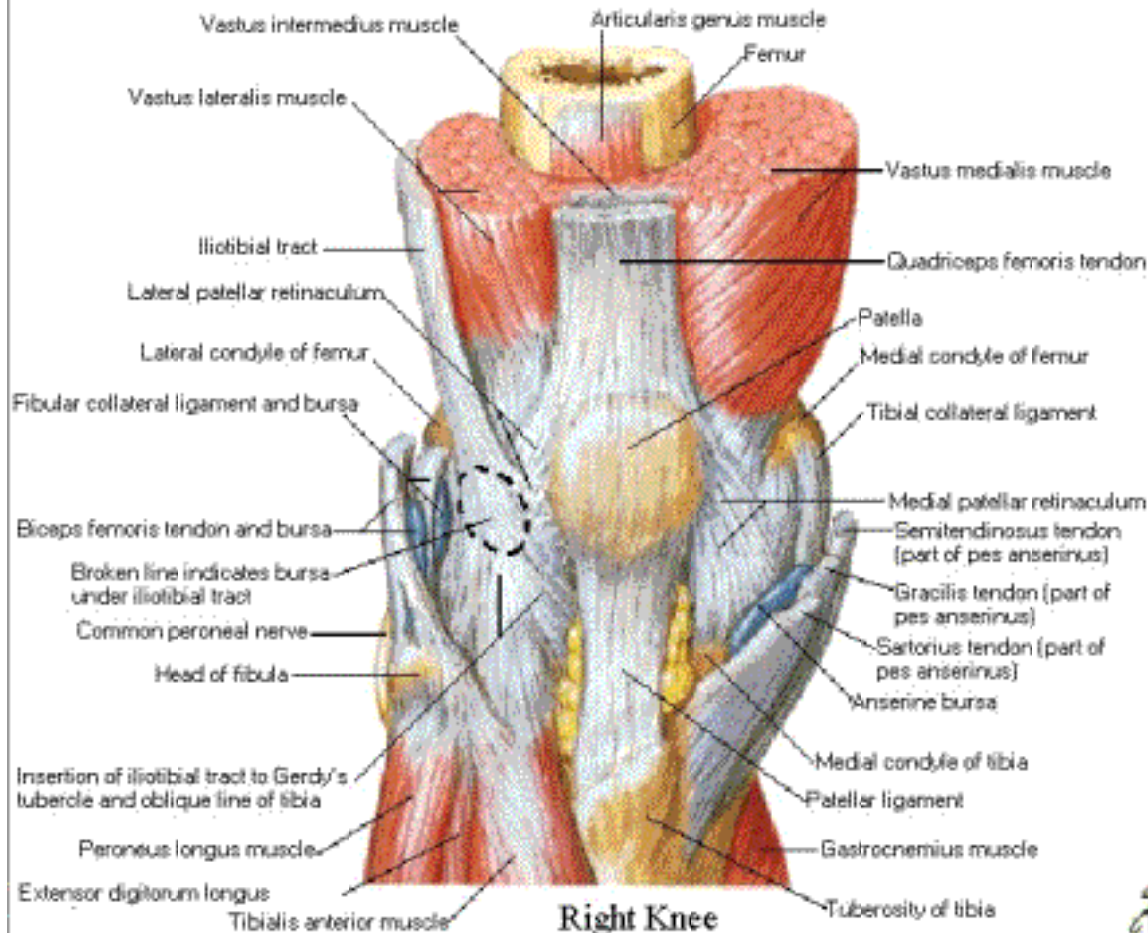
# Knee

## Medial View



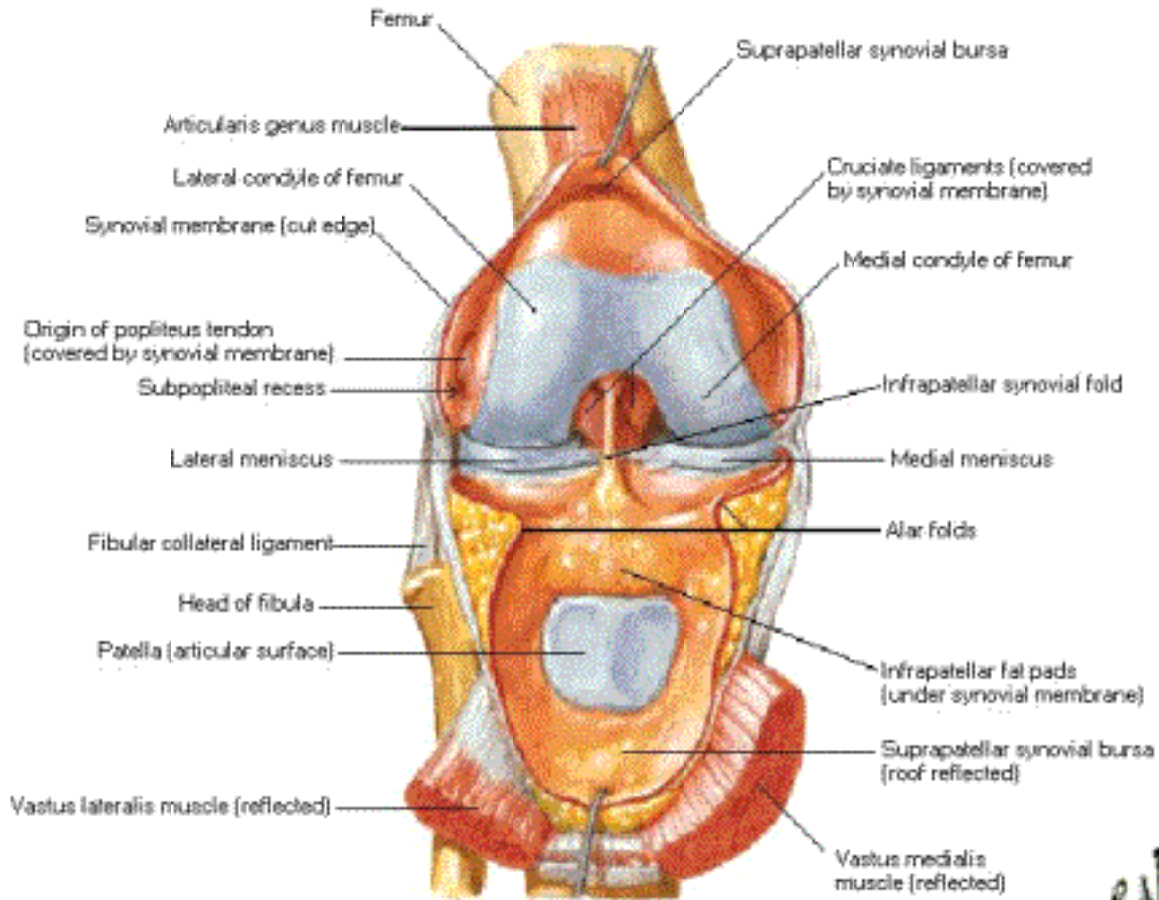
# Knee in Extension

## Anterior View



# Knee

## Right Knee Slightly in Flexion [Joint Opened]

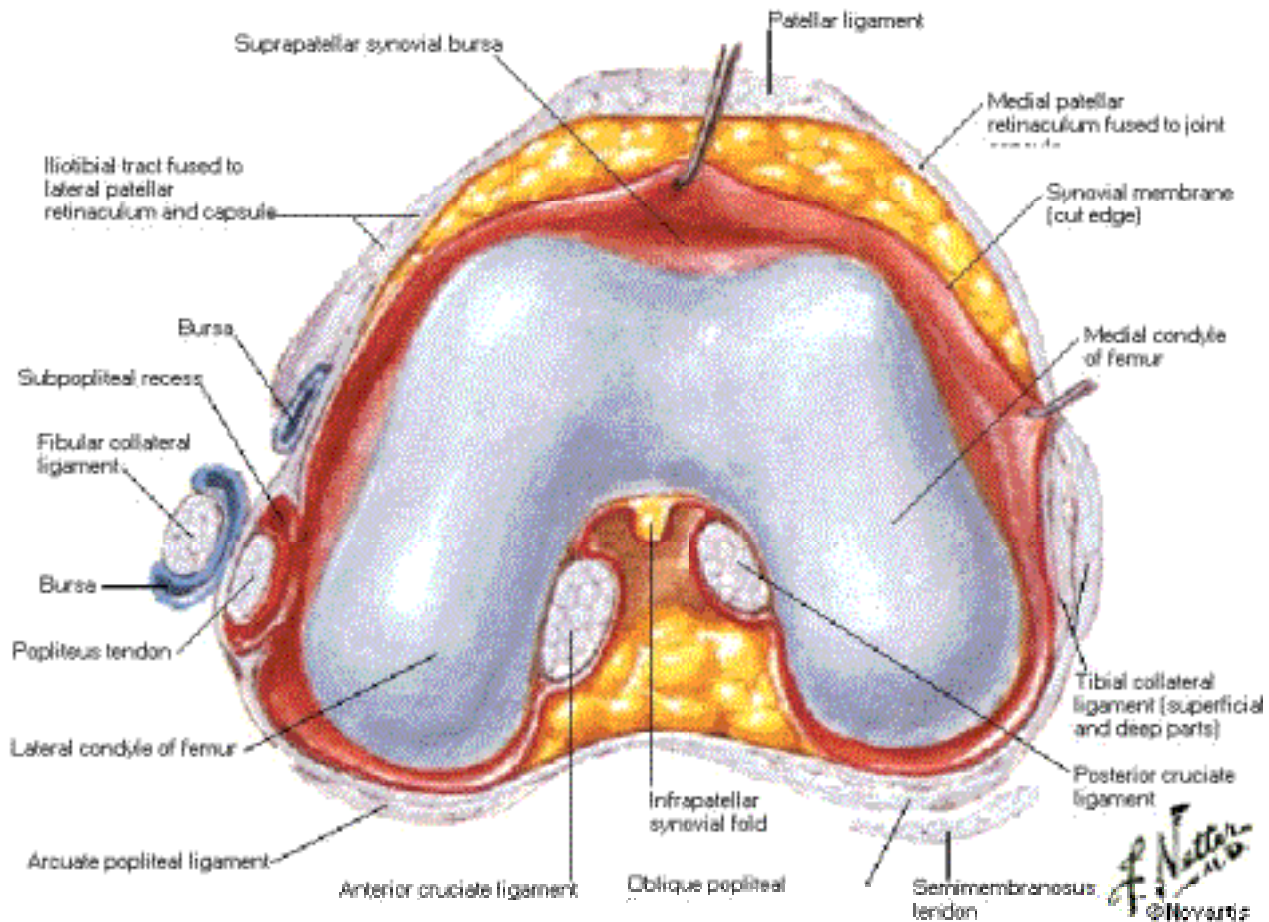


Anterior View

*F.N.*

# Knee - Interior

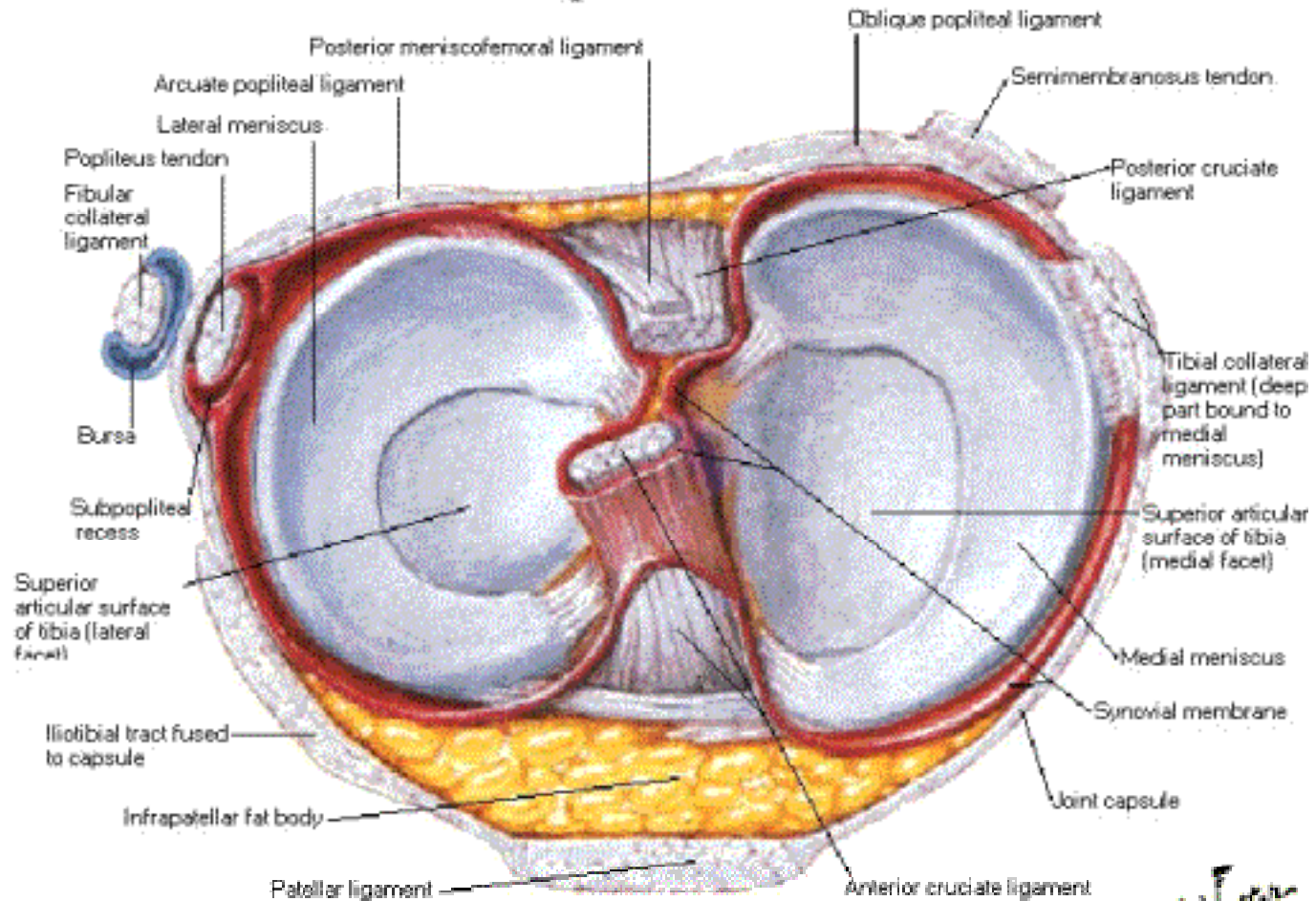
## Inferior View





# Knee - Interior

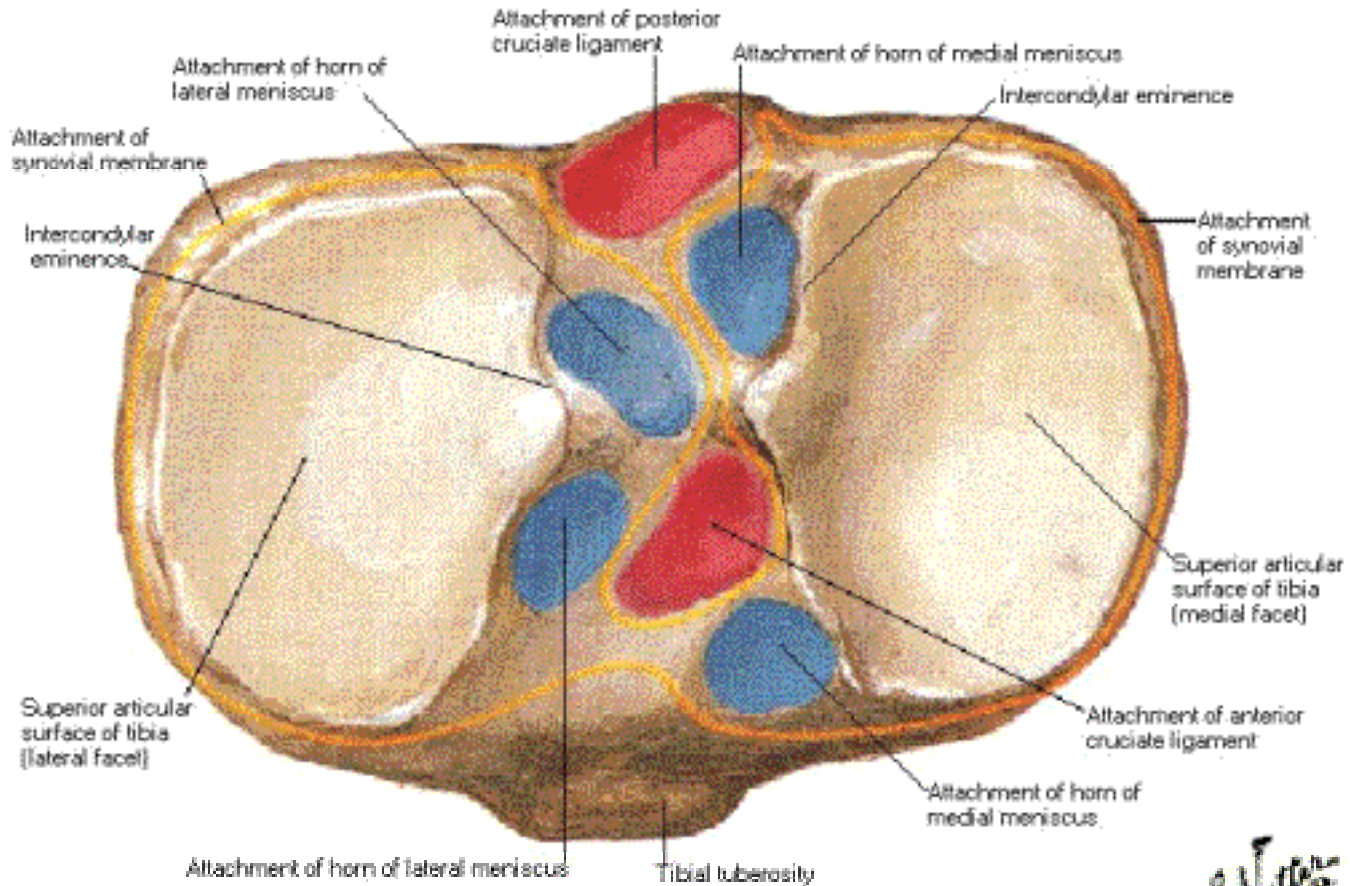
## Superior View



www.123rf.com

# Knee - Interior

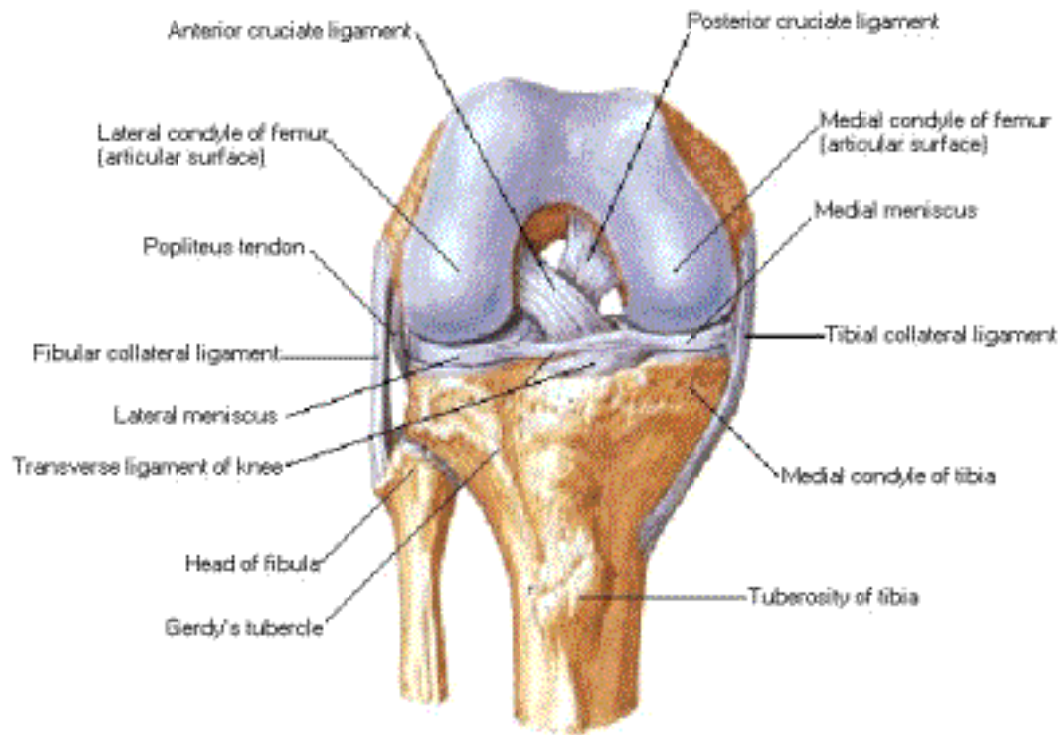
Superior View, Ligaments and Cartilage Removed



*Handwritten signature*

# Knee - Cruciate and Collateral Ligaments

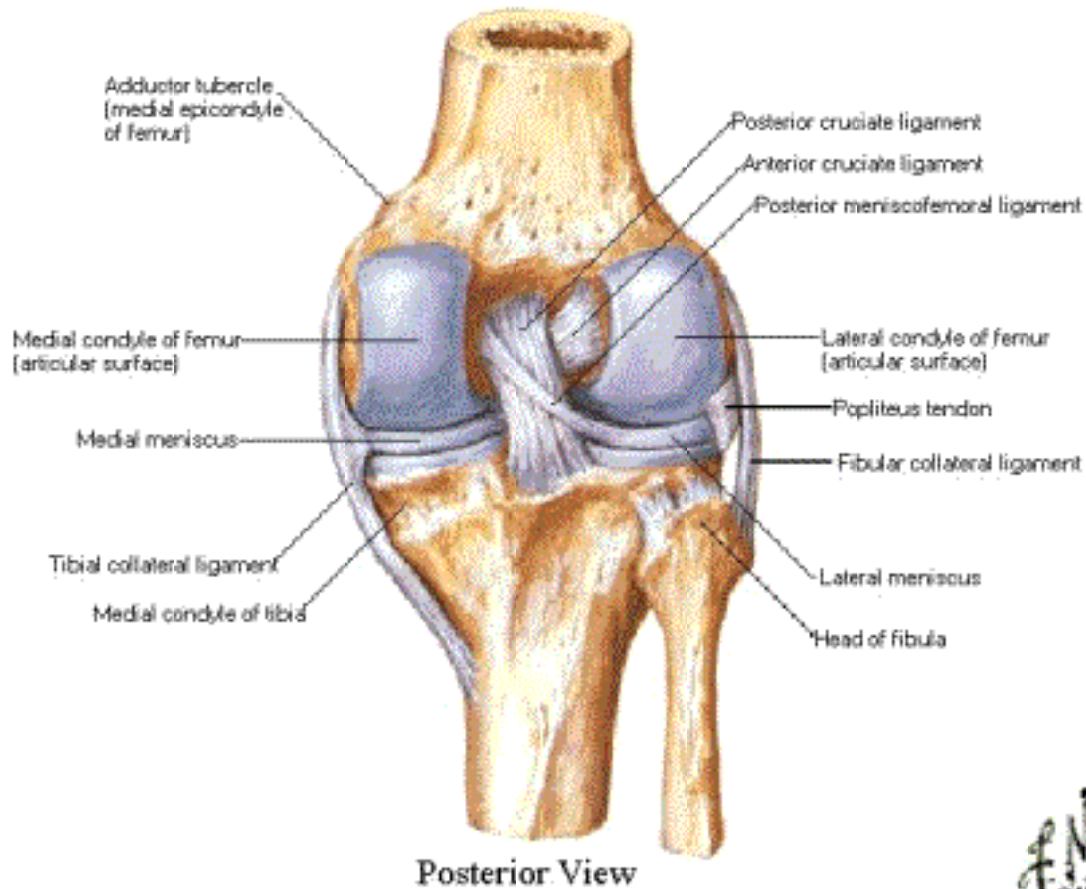
Right Knee in Flexion



Anterior View

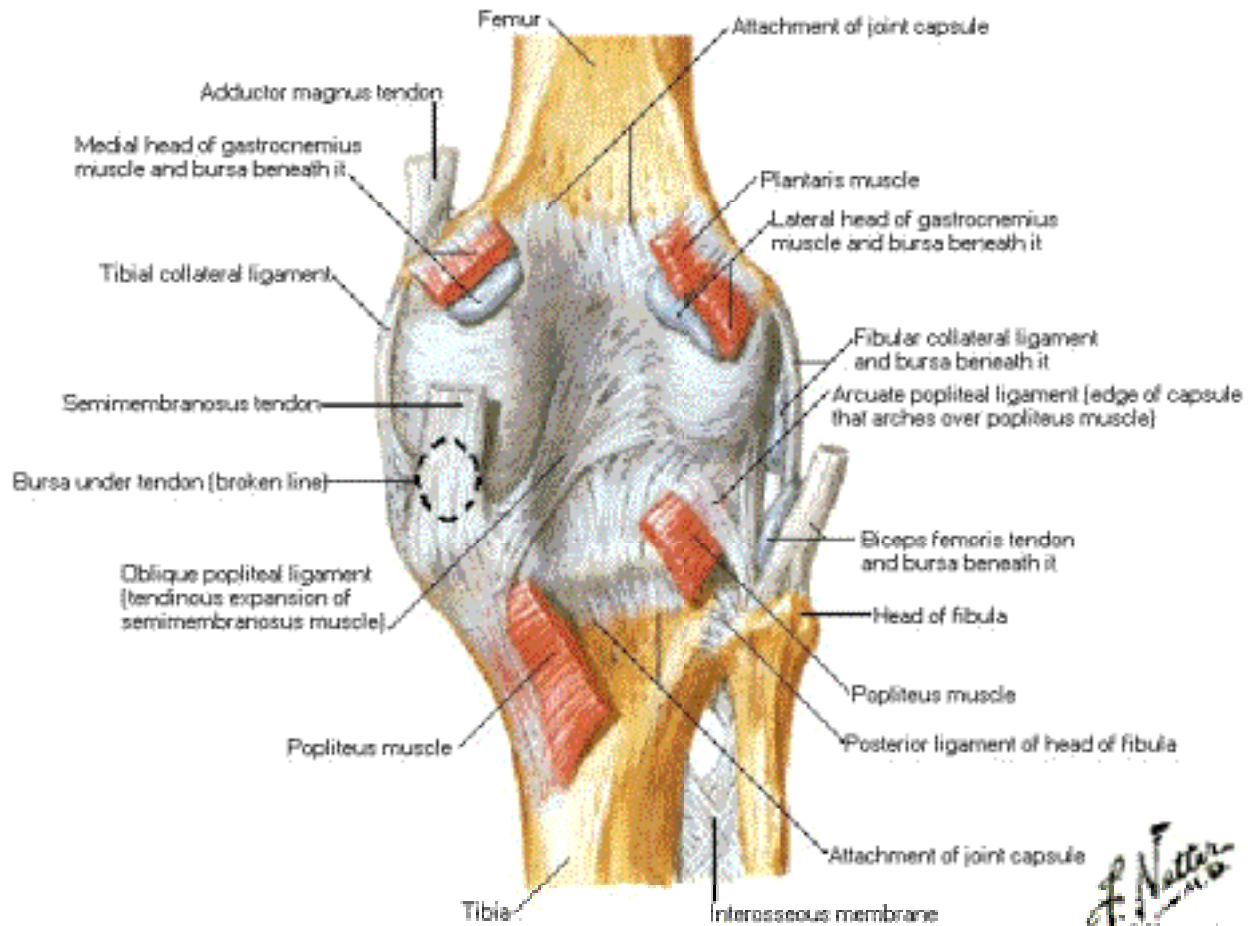
# Knee - Cruciate and Collateral Ligaments

Right Knee in Extension



# Knee

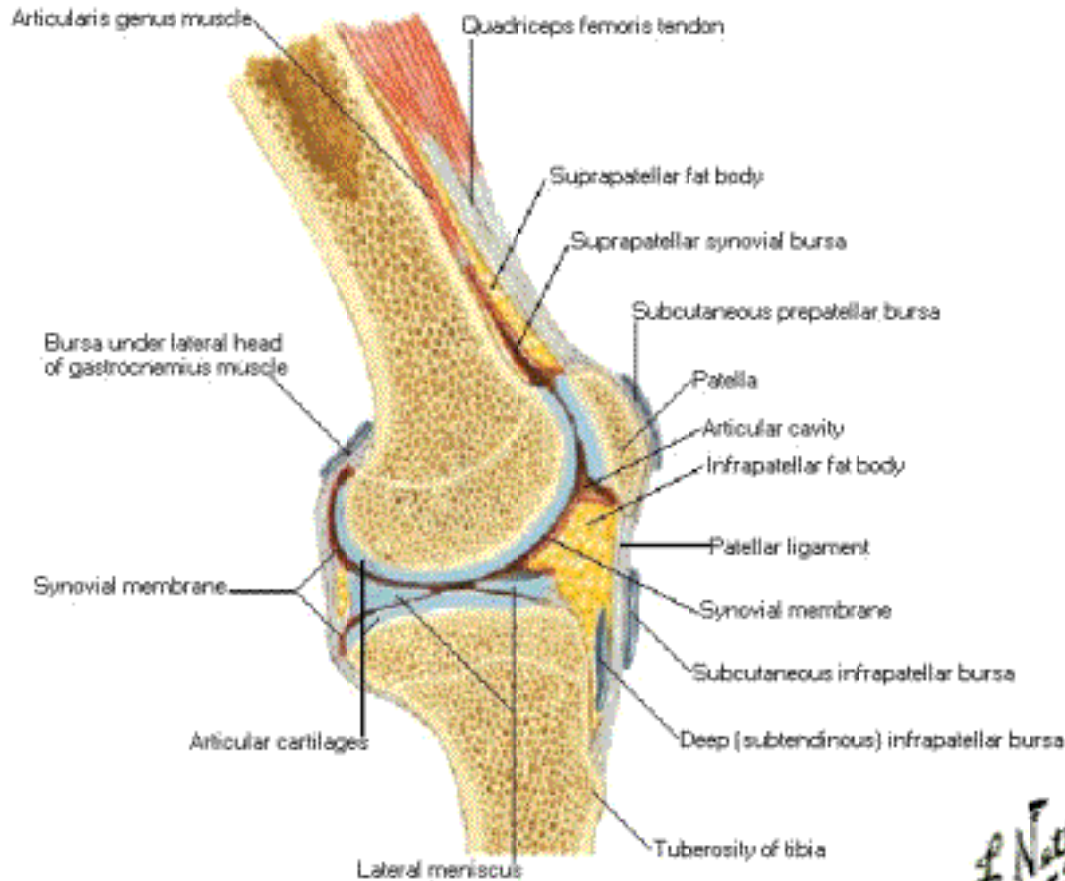
## Posterior View





# Knee

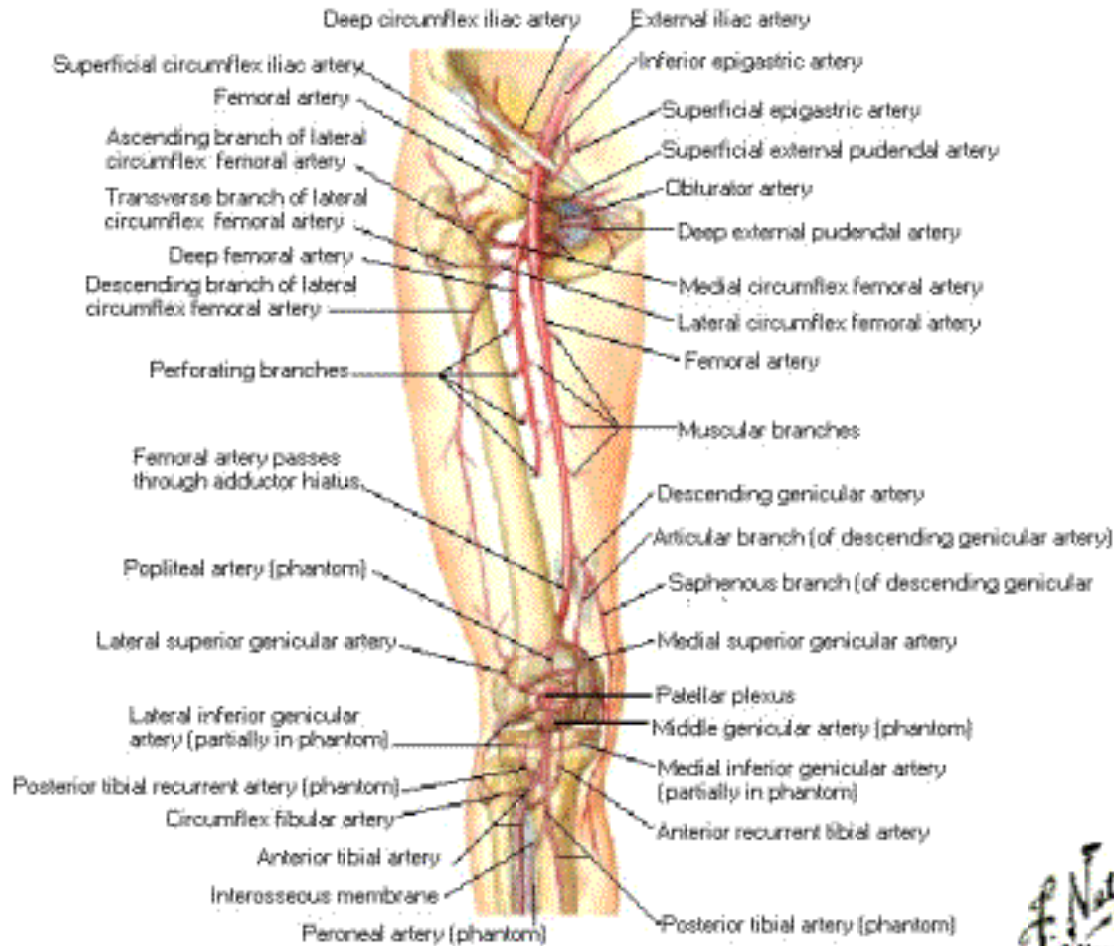
## Parasagittal Section - Lateral to Midline



*Handwritten signature*

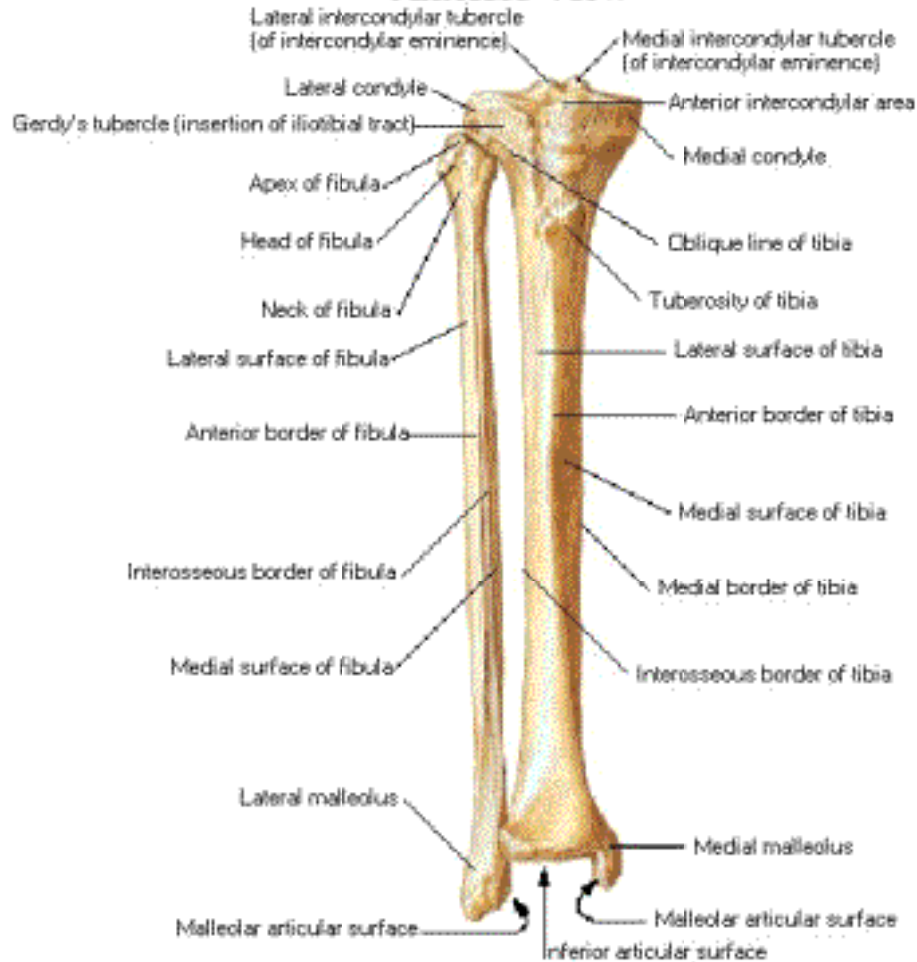
# Arteries of Thigh and Knee

## Schema



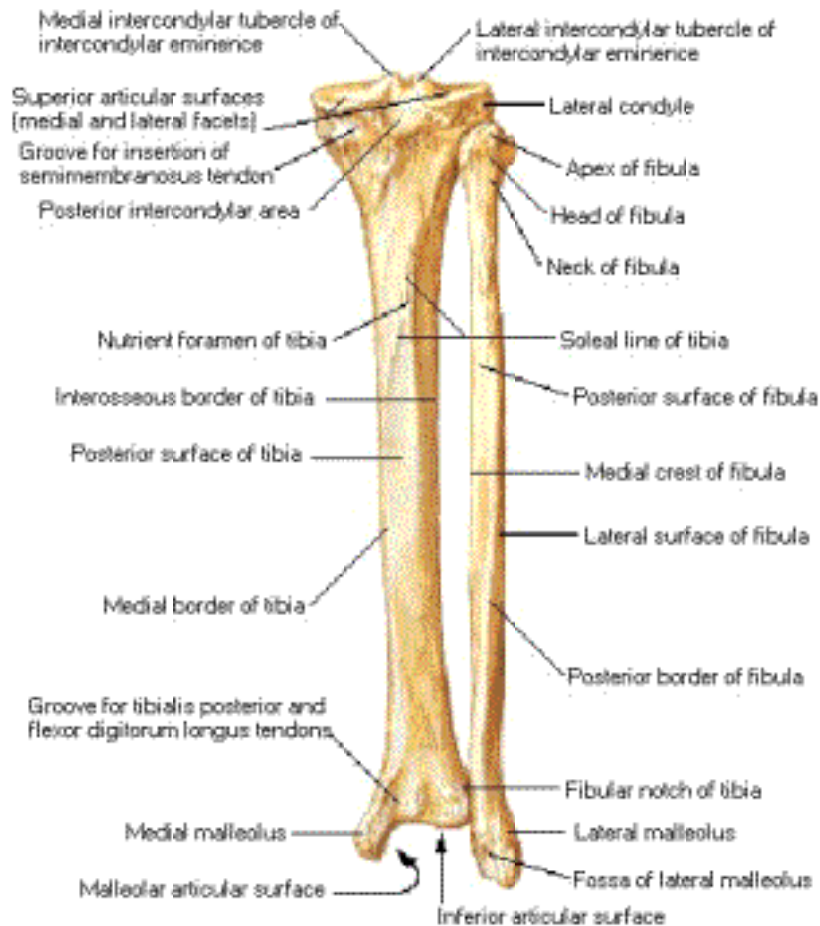
# Tibia and Fibula of Right Leg

## Anterior View



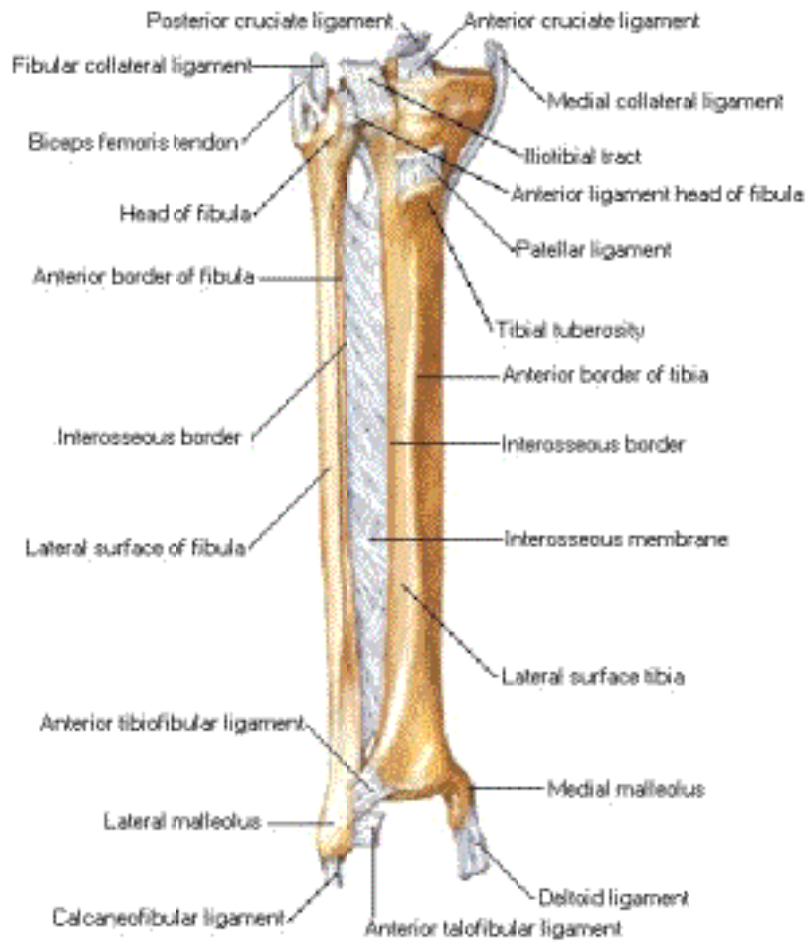
# Tibia and Fibula of Right Leg

## Posterior View



# Tibia and Fibula of Right Leg

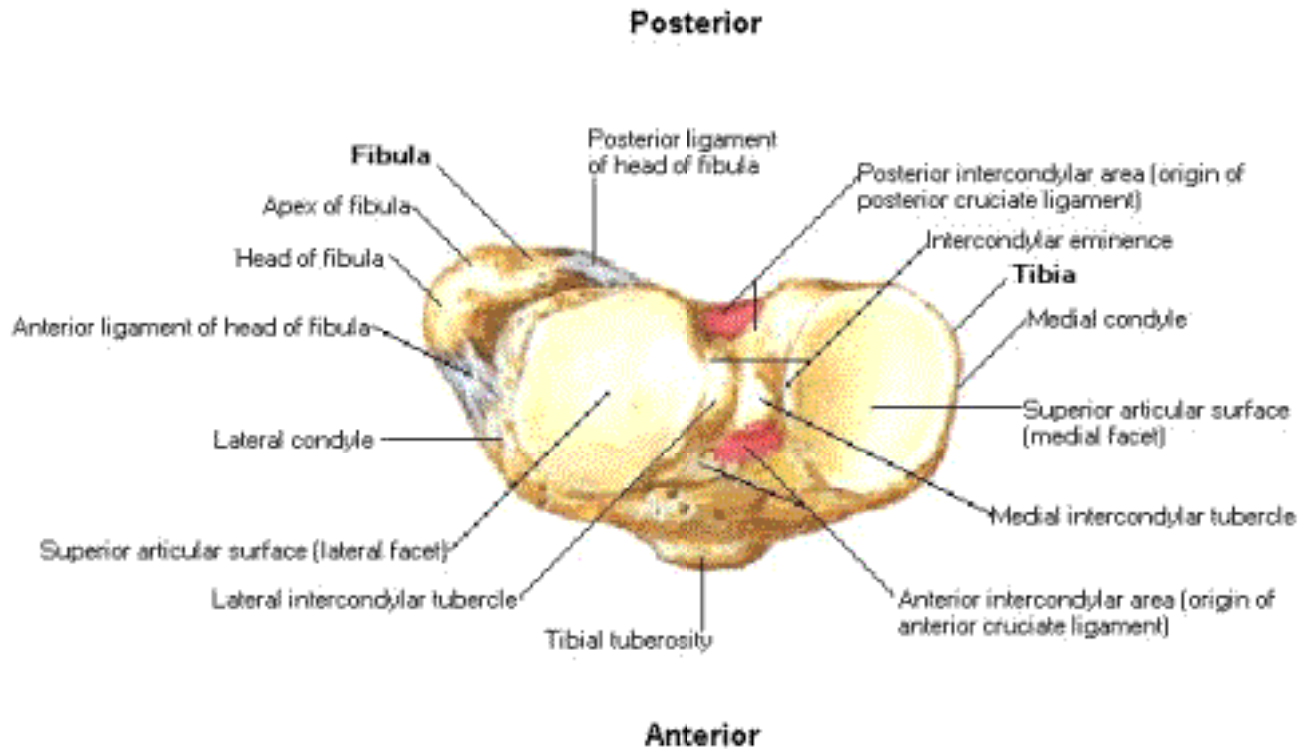
## Anterior View - Ligament Attachments





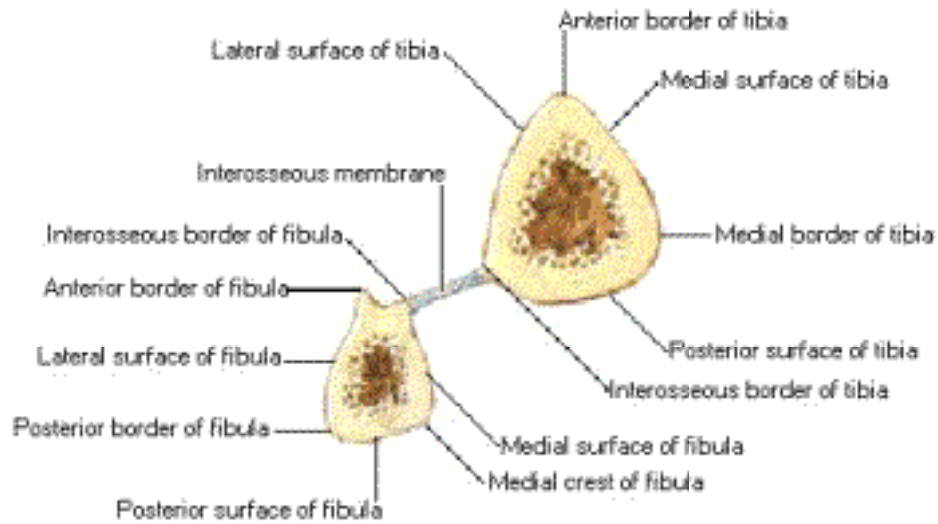
# Tibia and Fibula of Right Leg

## Superior View



# Tibia and Fibula of Right Leg

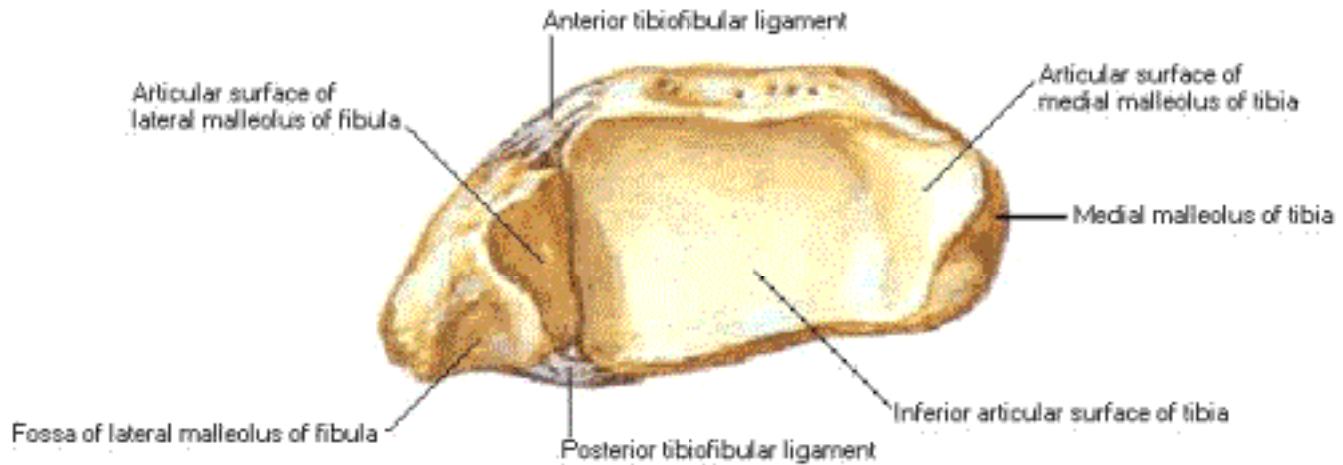
## Cross Section



# Tibia and Fibula of Right Leg

## Inferior View

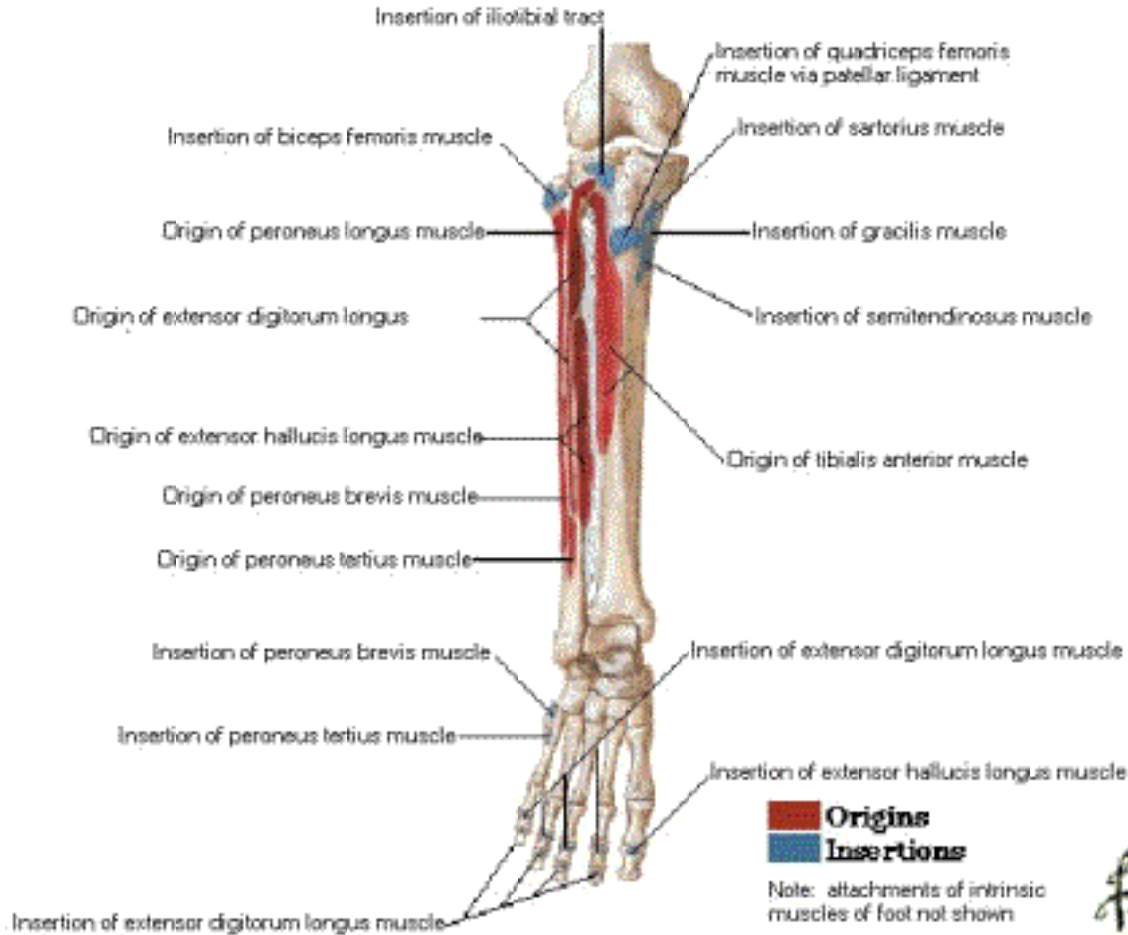
**Anterior**



**Posterior**

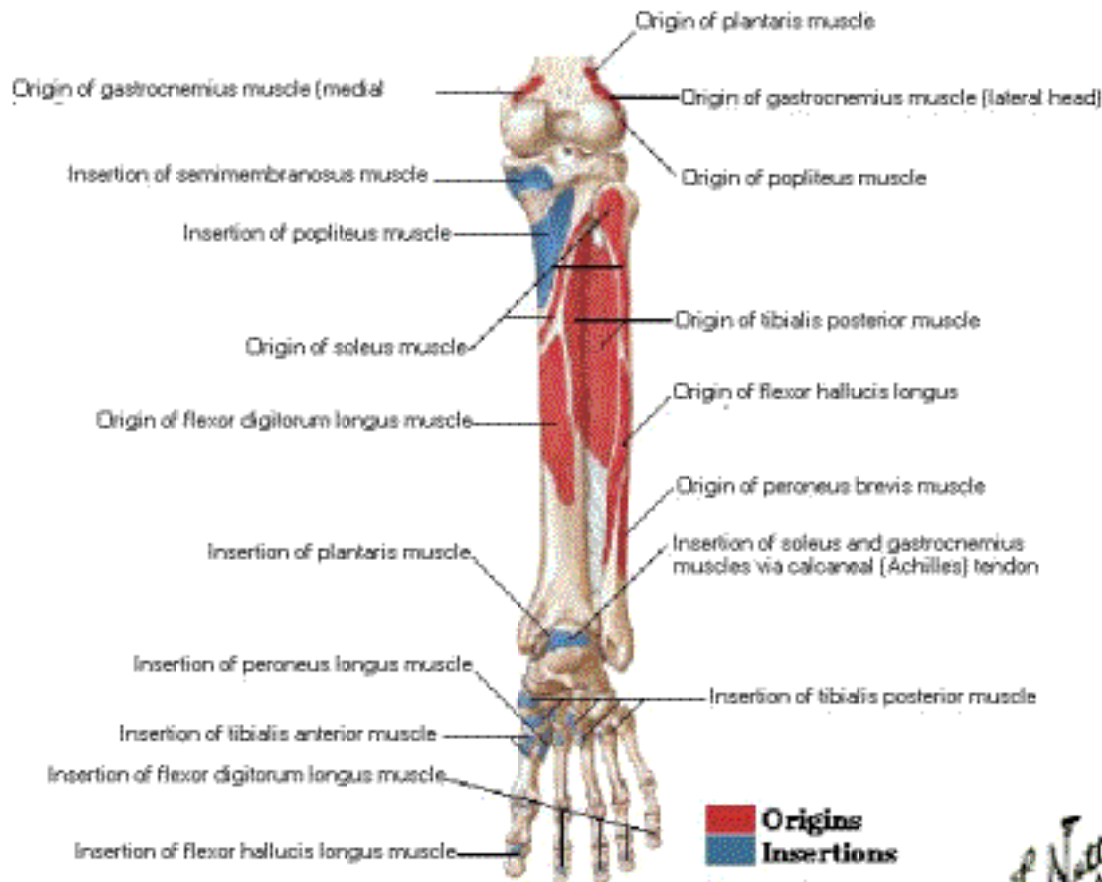
# Bony Attachments of Muscles of Leg

## Anterior View



# Bony Attachments of Muscles of Leg

## Posterior View



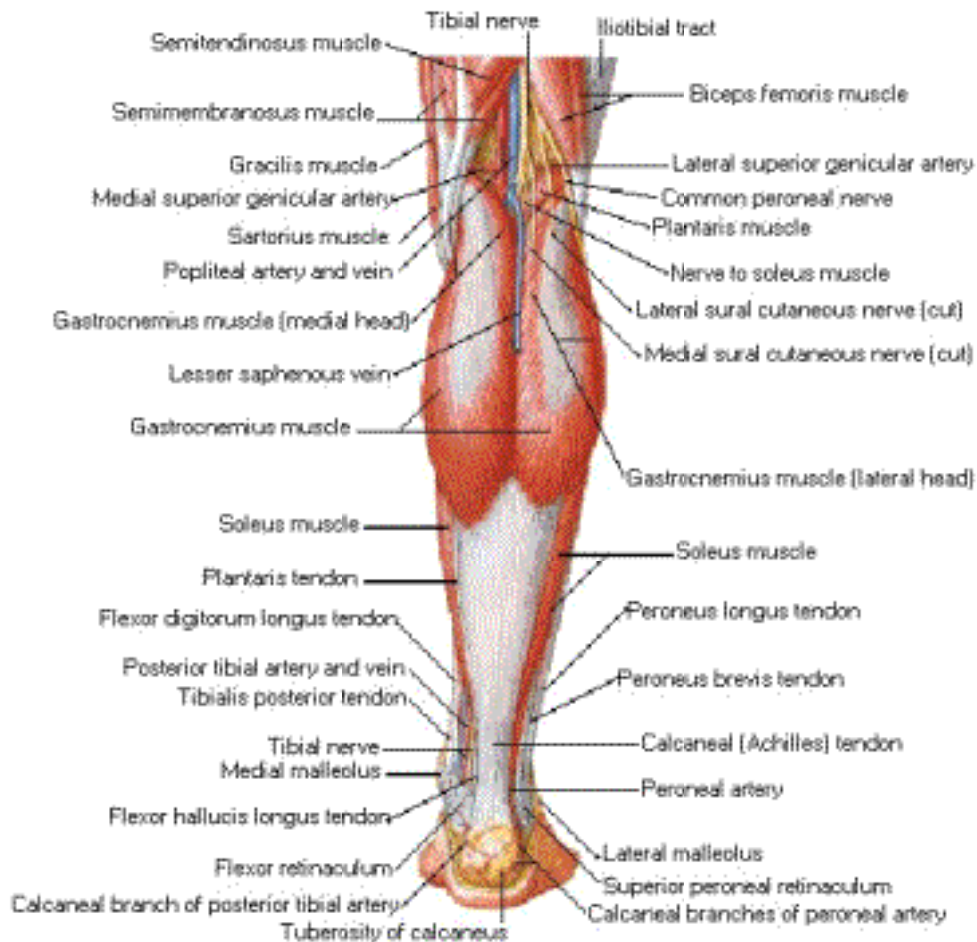
Note: attachments of intrinsic muscles of foot not shown.

*F. Netter*  
© Nova



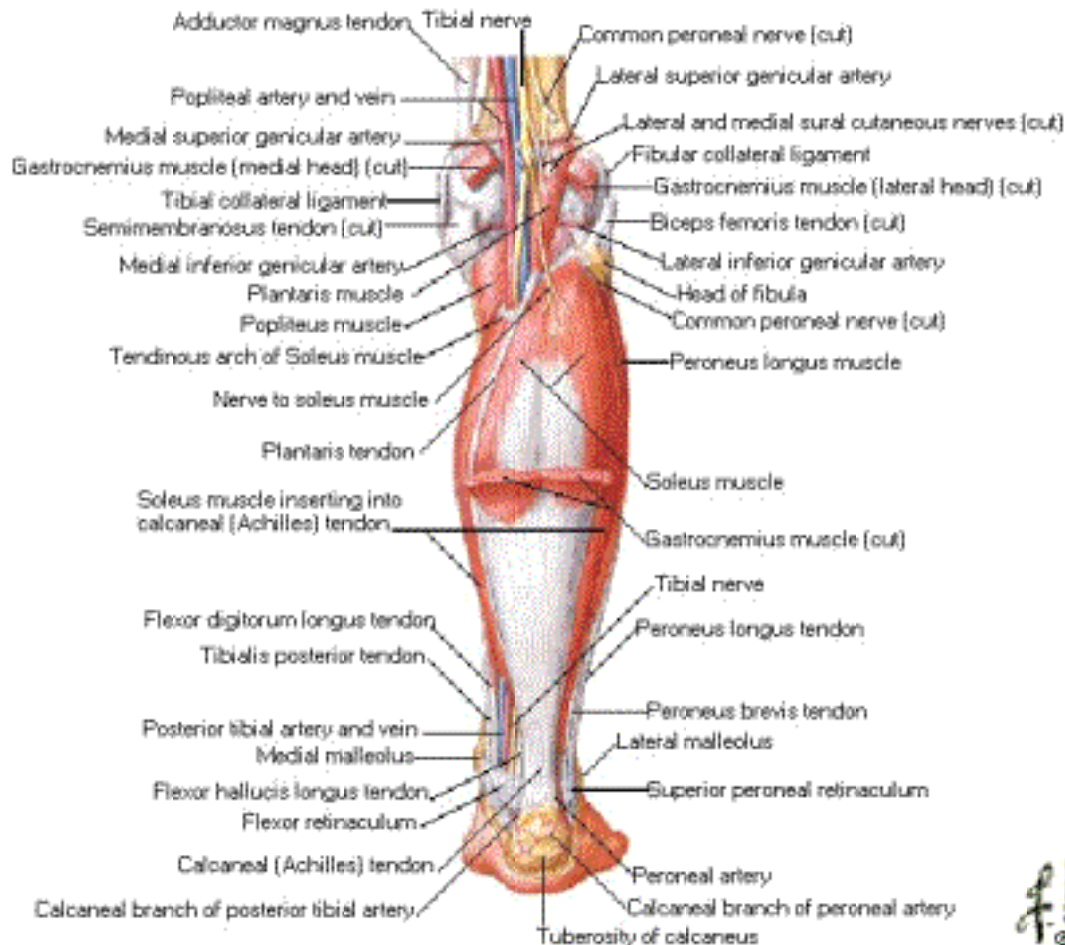
# Muscles of Leg [Superficial Dissection]

## Posterior View



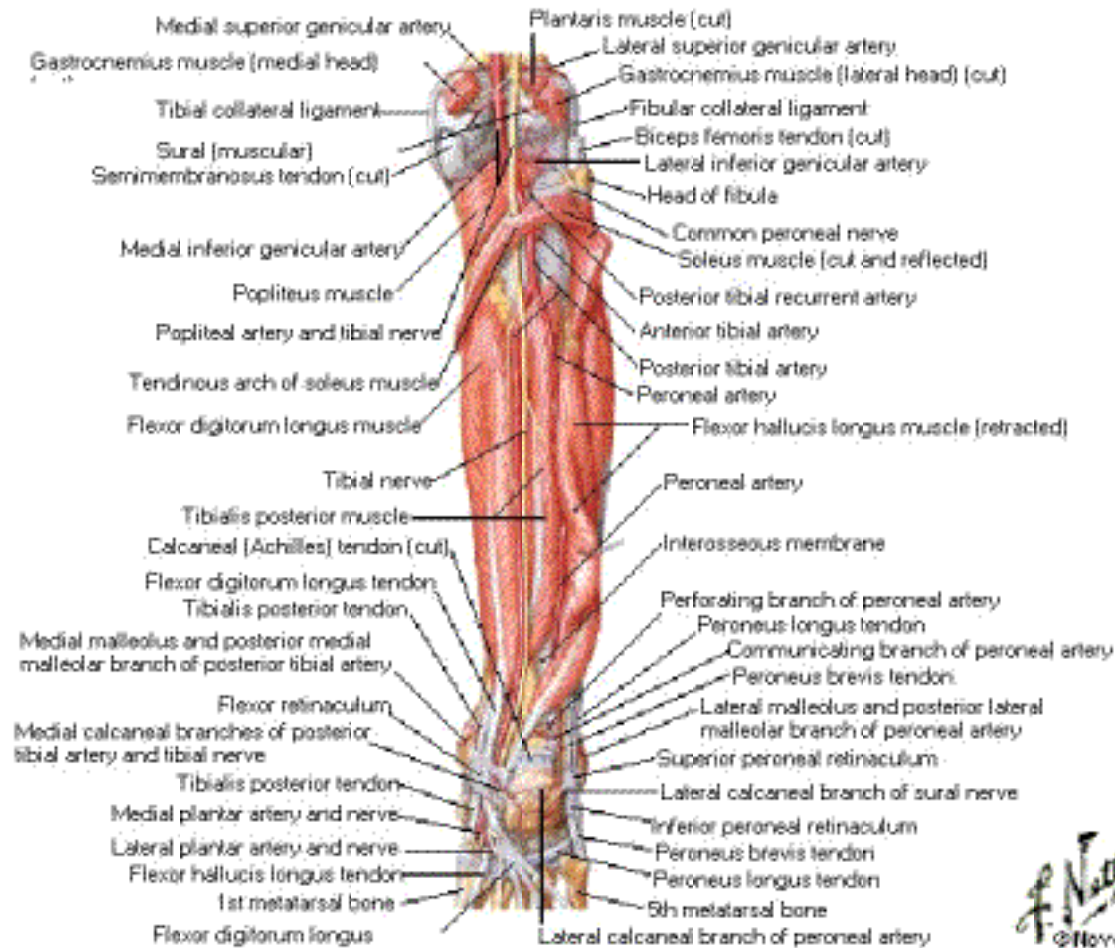
# Muscles of Leg [Intermediate Dissection]

## Posterior View



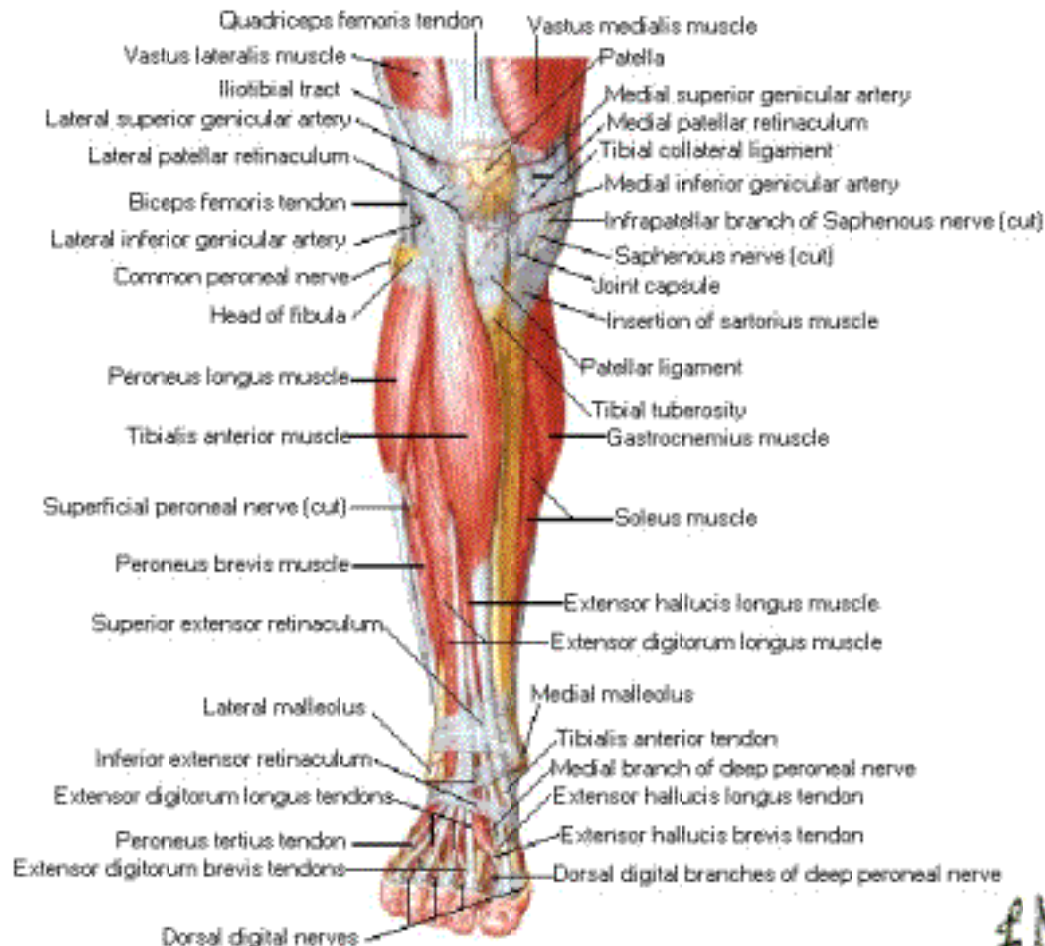
# Muscles of Leg [Deep Dissection]

## Posterior View



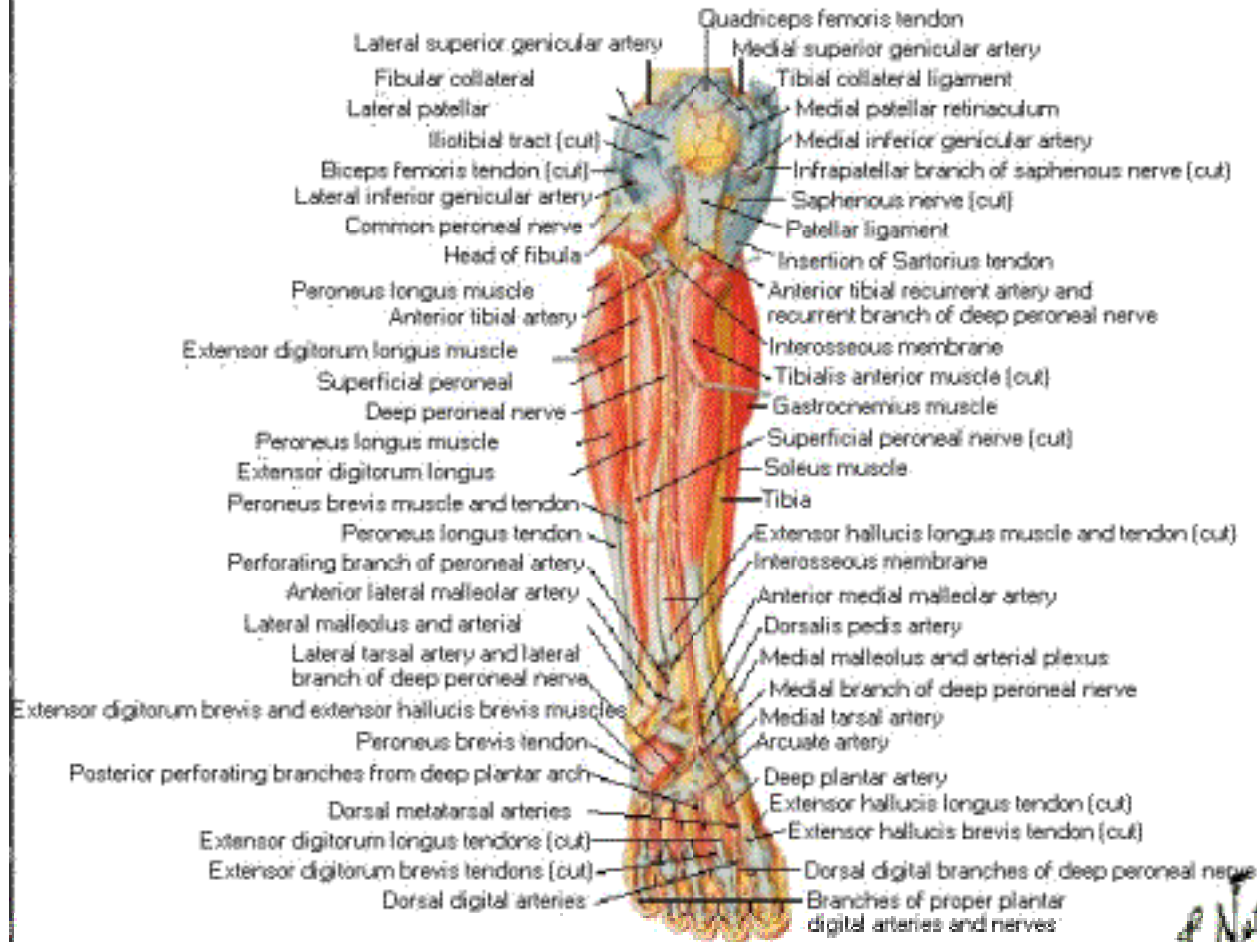
# Muscles of Leg [Superficial Dissection]

## Anterior View



# Muscles of Leg [Deep Dissection]

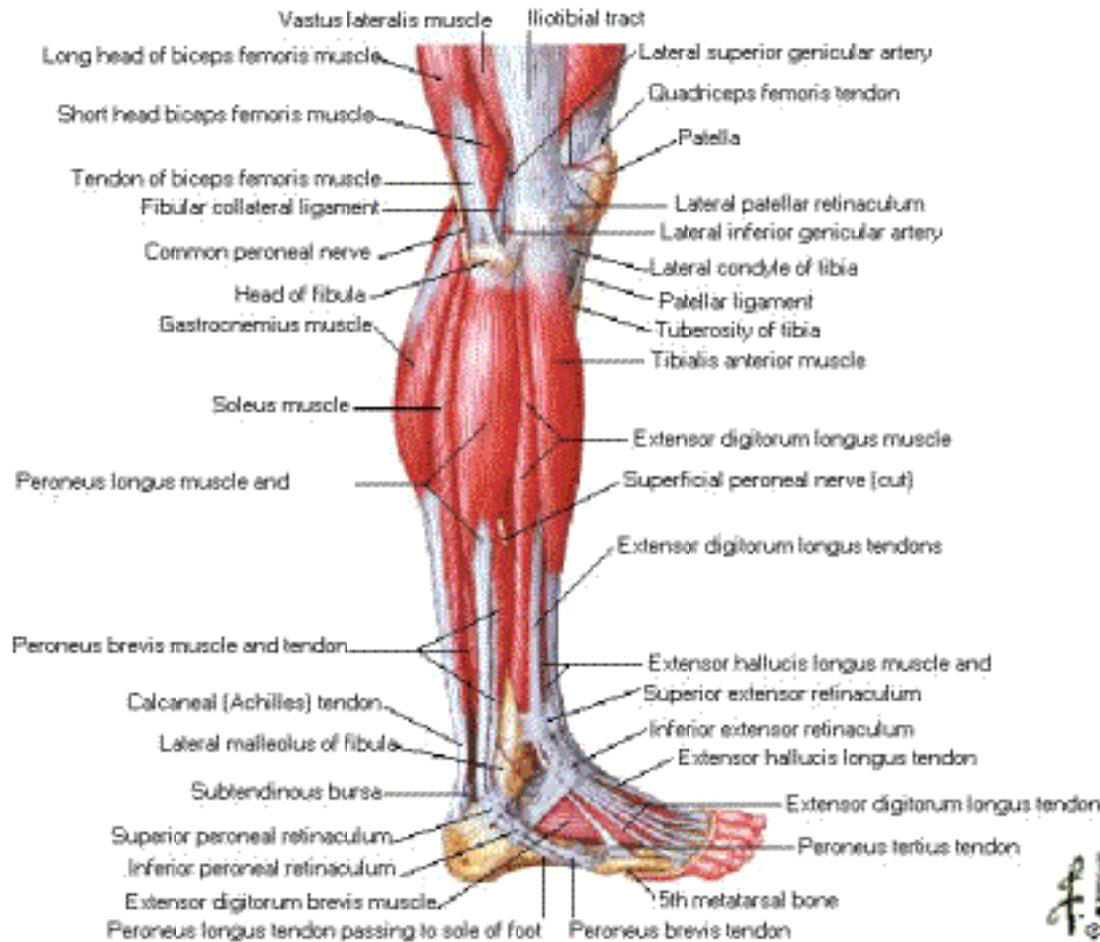
## Anterior View





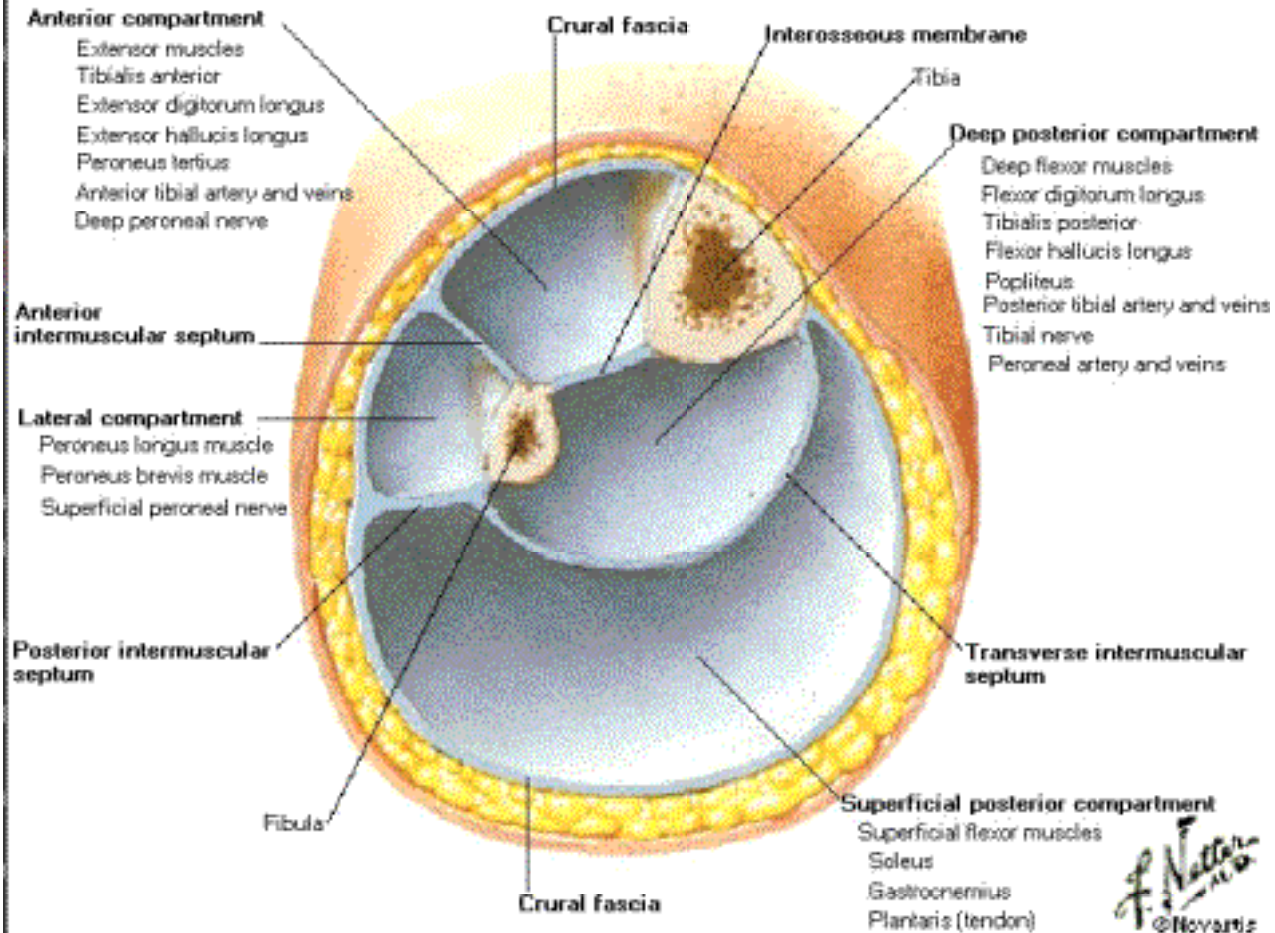
# Muscles of Leg

## Lateral View



# Leg

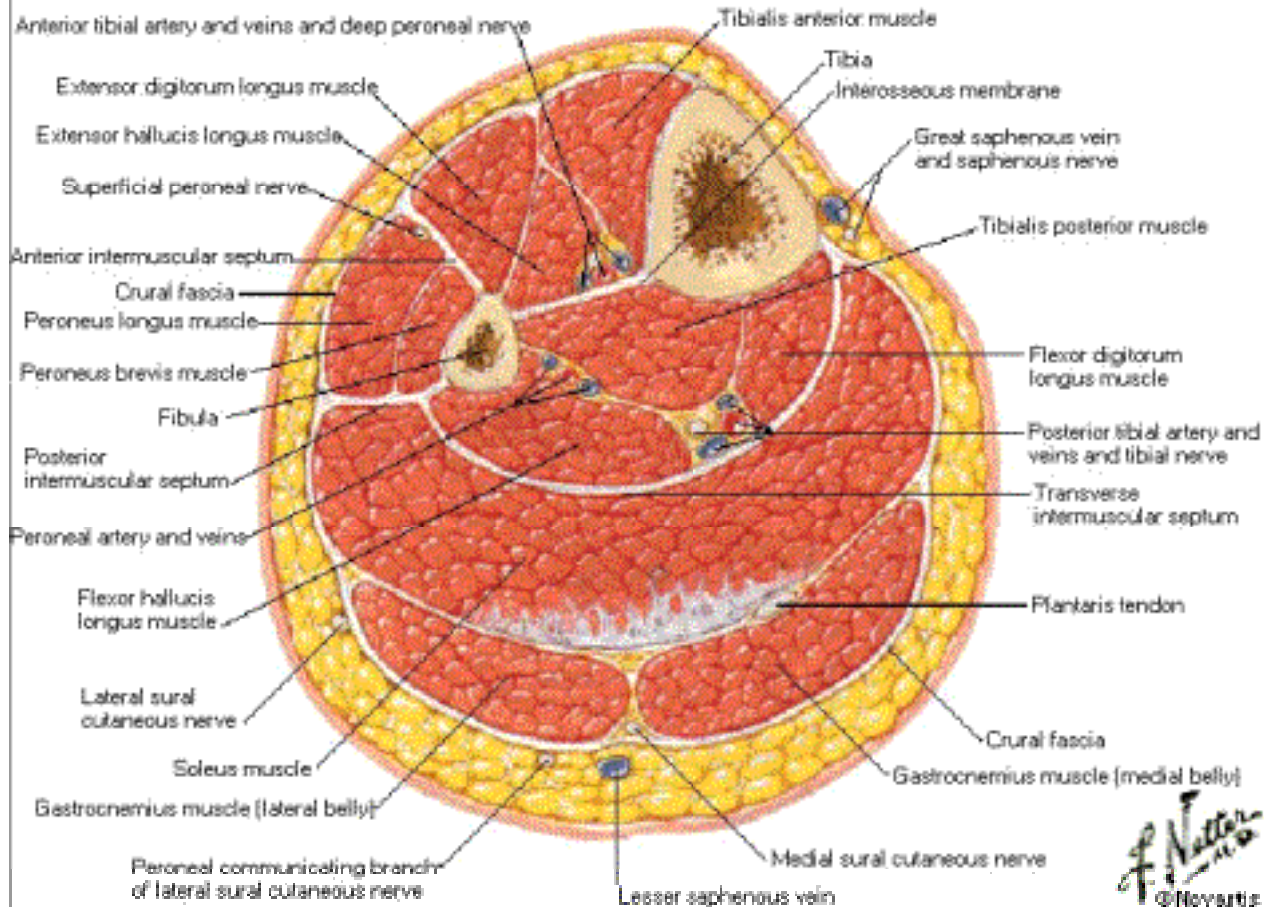
## Cross Section - Fascial Compartments



*F. Natter*  
© Novartis

# Leg

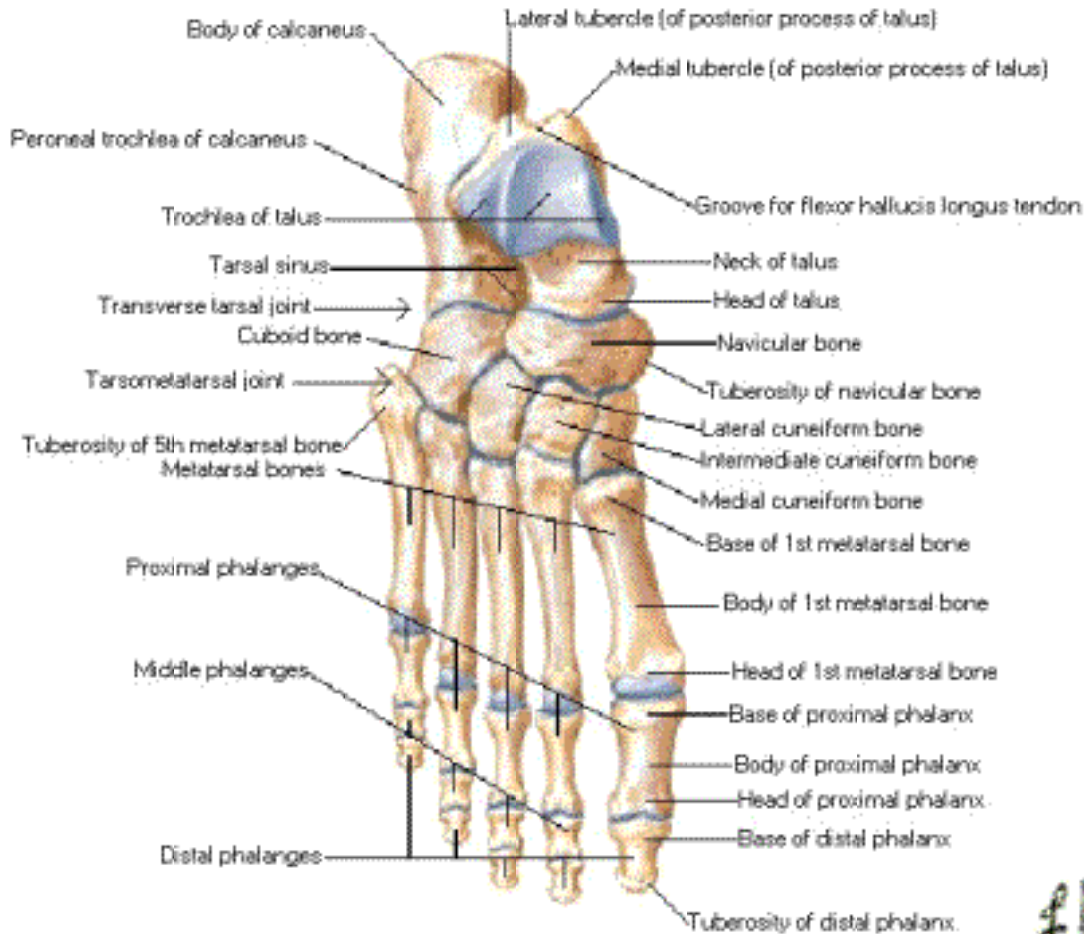
## Cross Section just above Middle of Left Leg



*F. Netter M.D.*  
 ©Novartis

# Bones of Foot

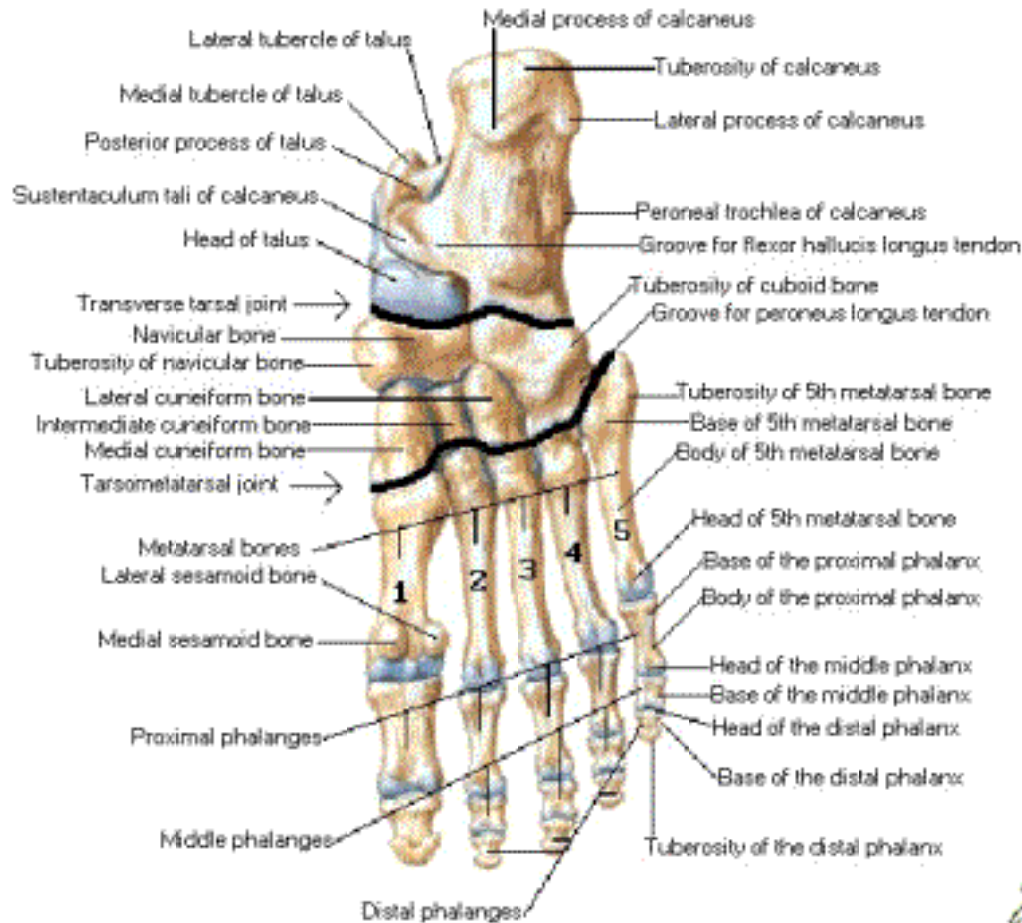
## Dorsal View



£1

# Bones of Foot

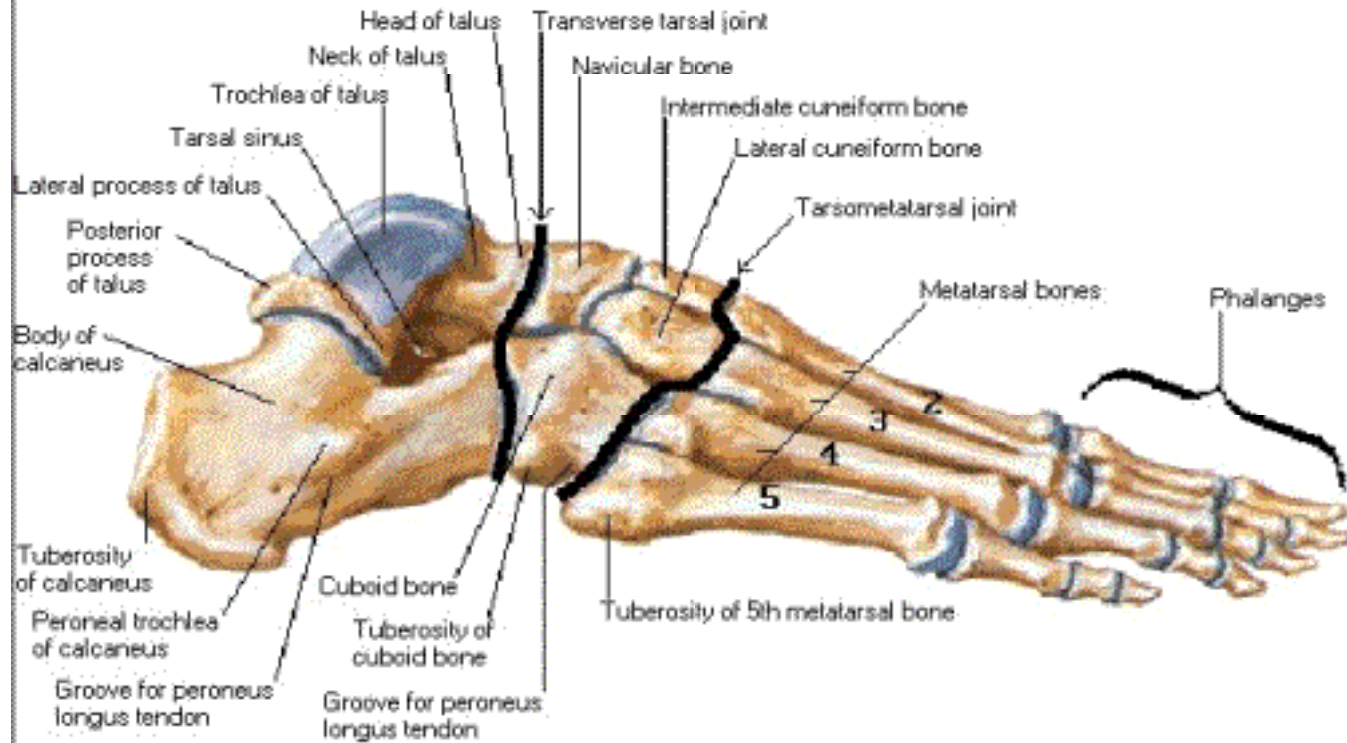
## Plantar View





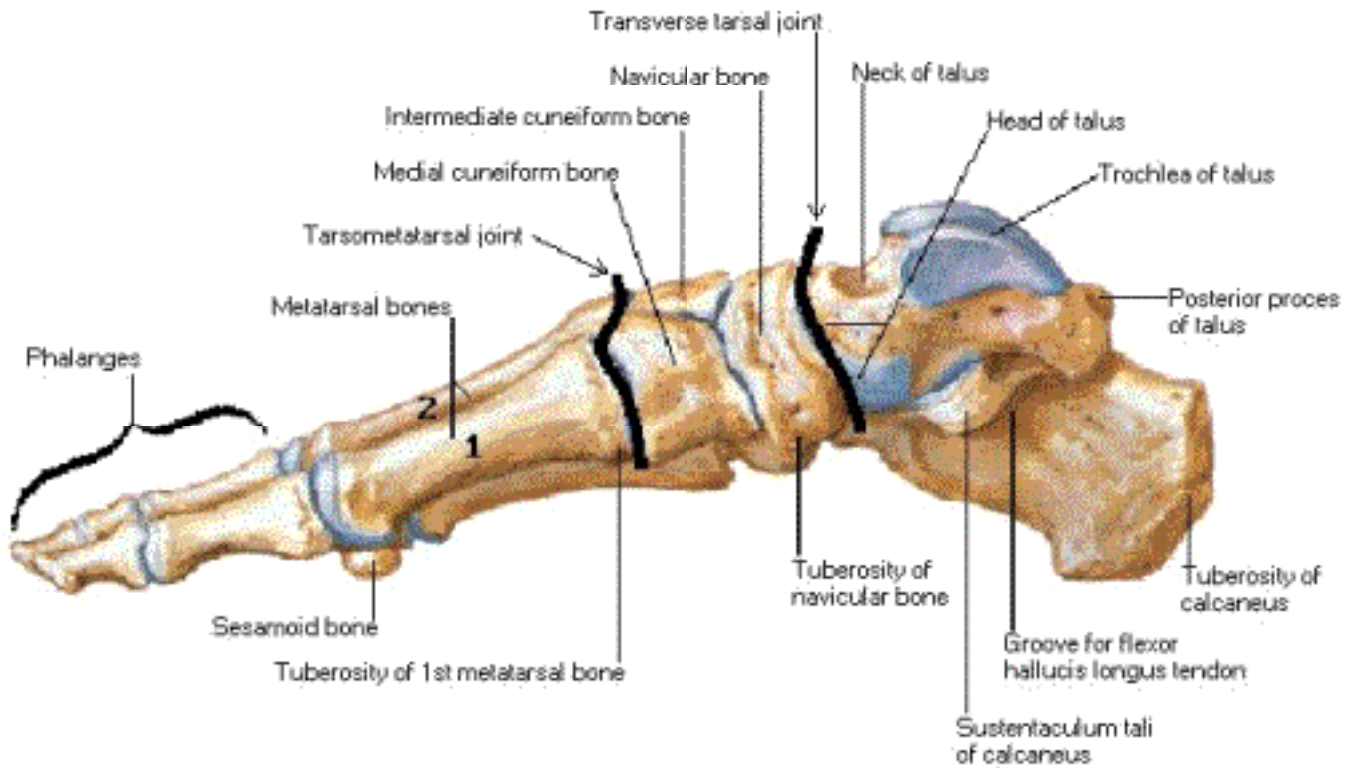
# Bones of Foot

## Lateral View



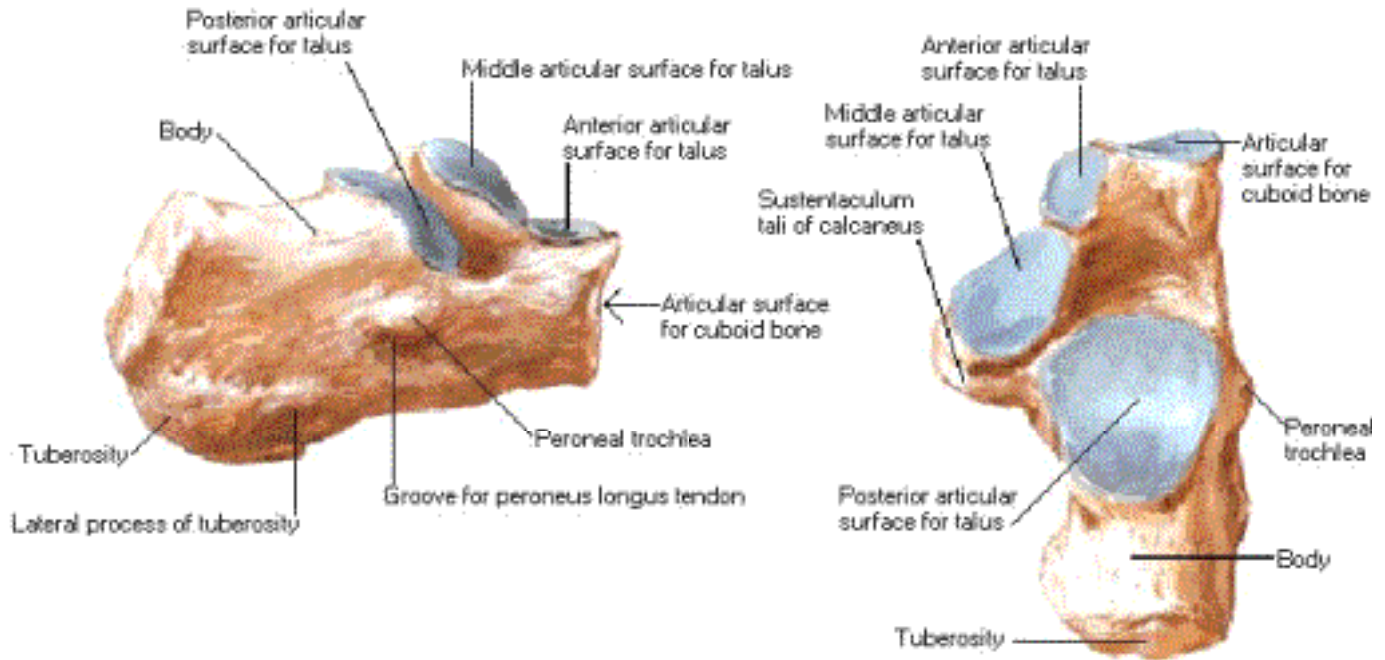
# Bones of Foot

## Medial View



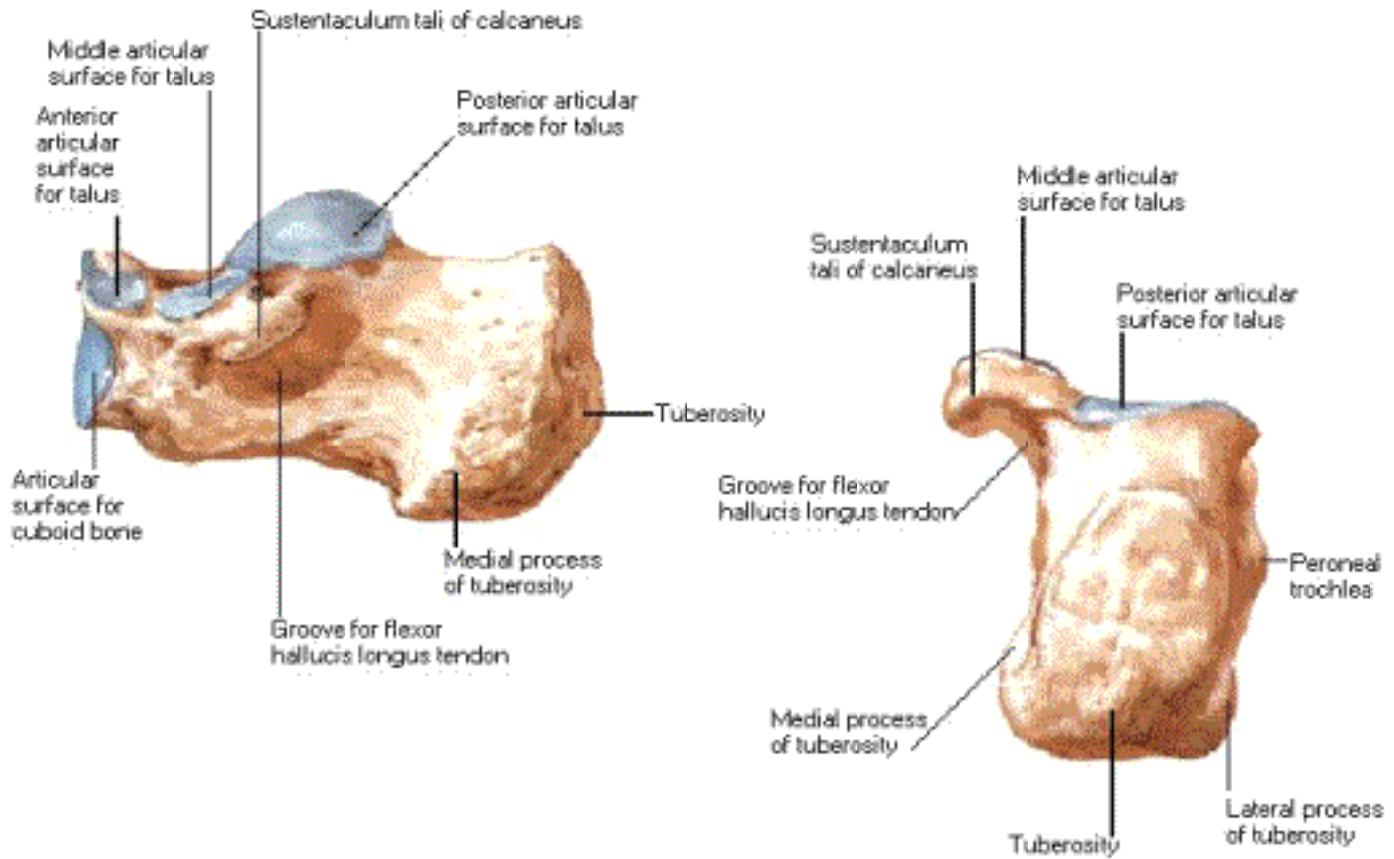
# Calcaneus of Right Foot

## Lateral and Superior Views



# Calcaneus of Right Foot

## Medial and Posterior Views



# Calcaneus of Right Foot

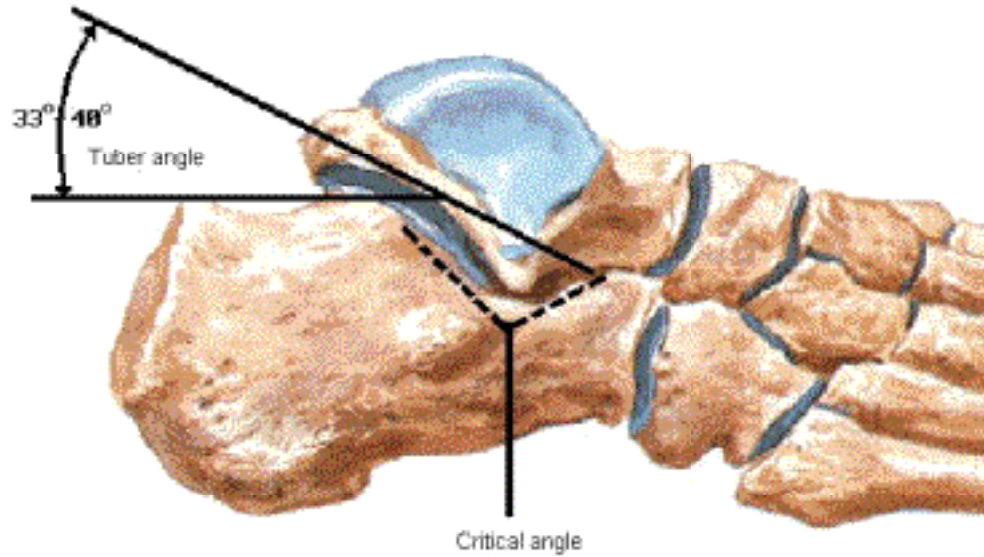
## Posterior View with Ligaments





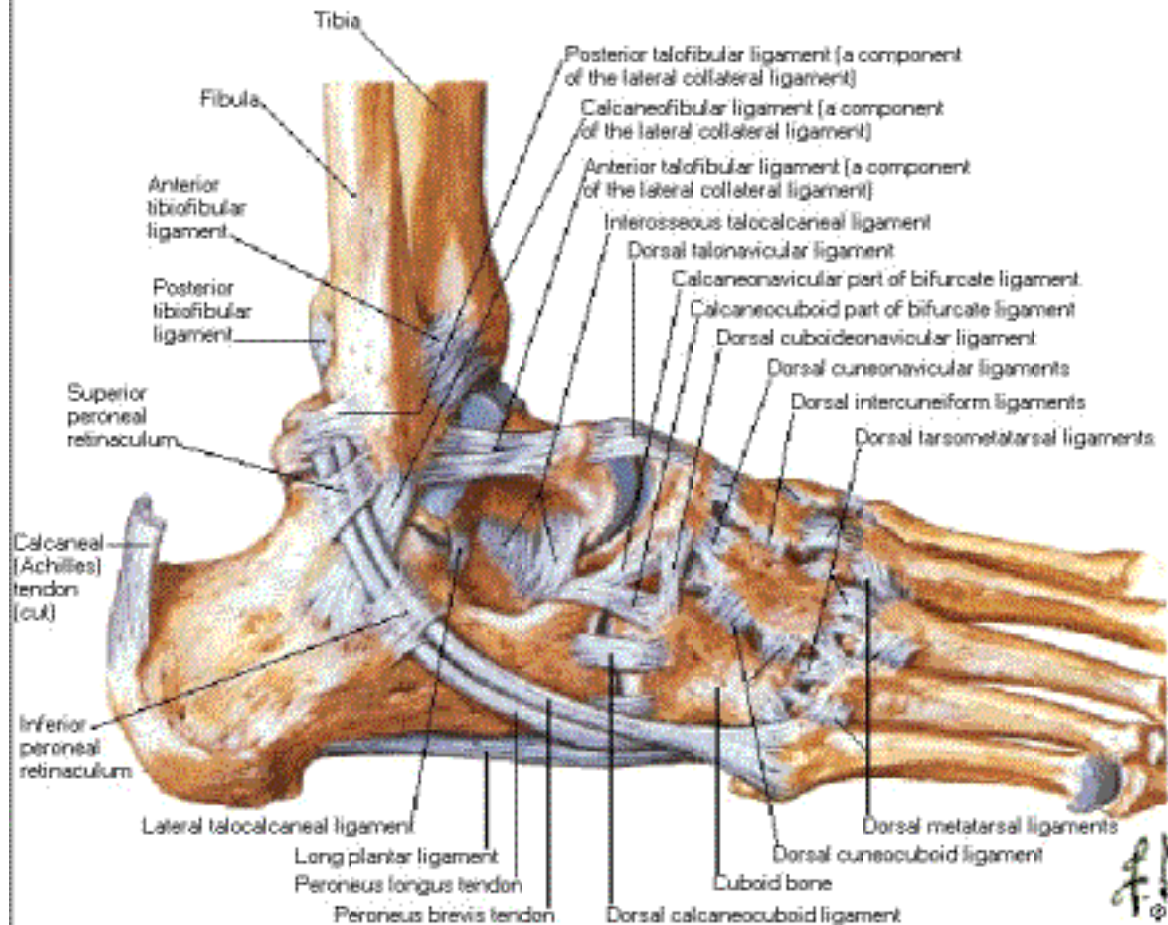
## Calcaneus of Right Foot

Functional Relations of Calcaneus



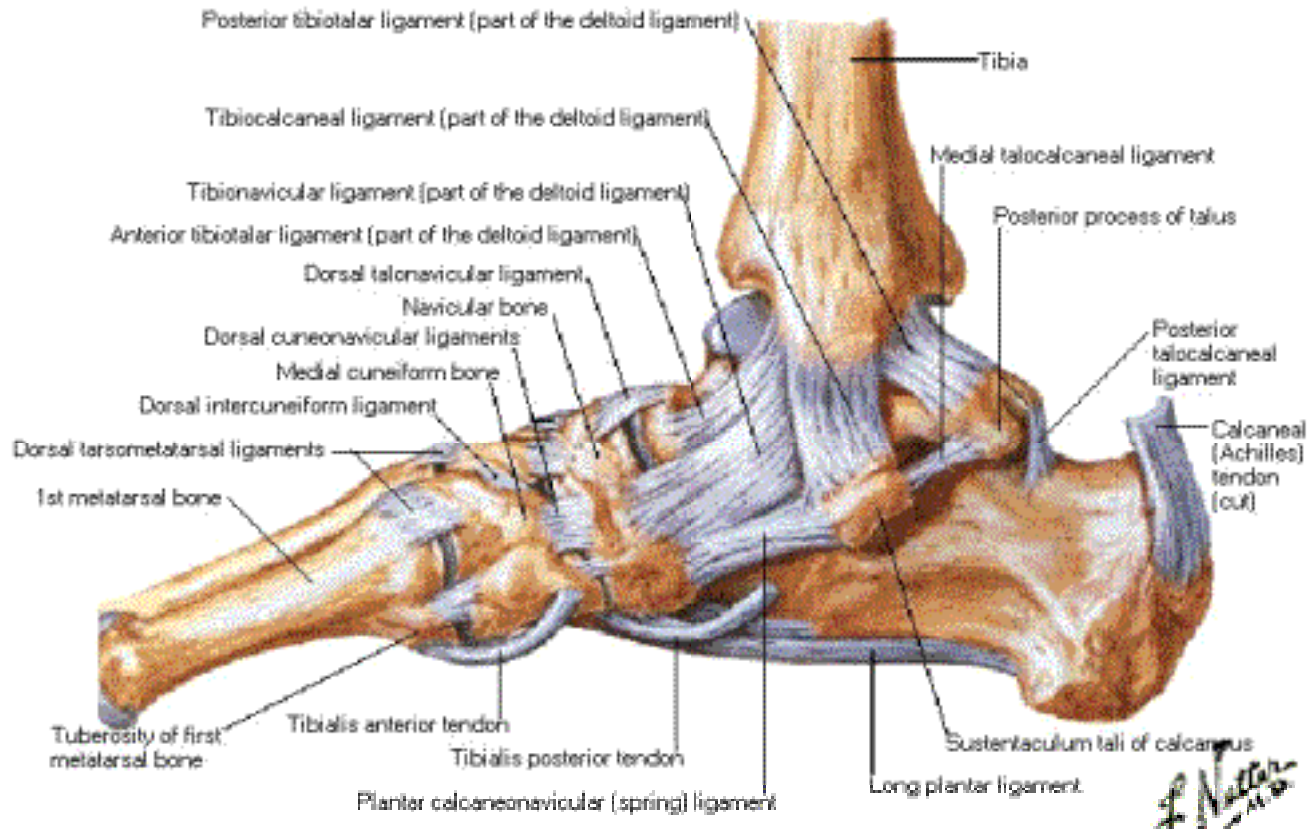
# Ligaments and Tendons of Right Ankle

## Lateral View



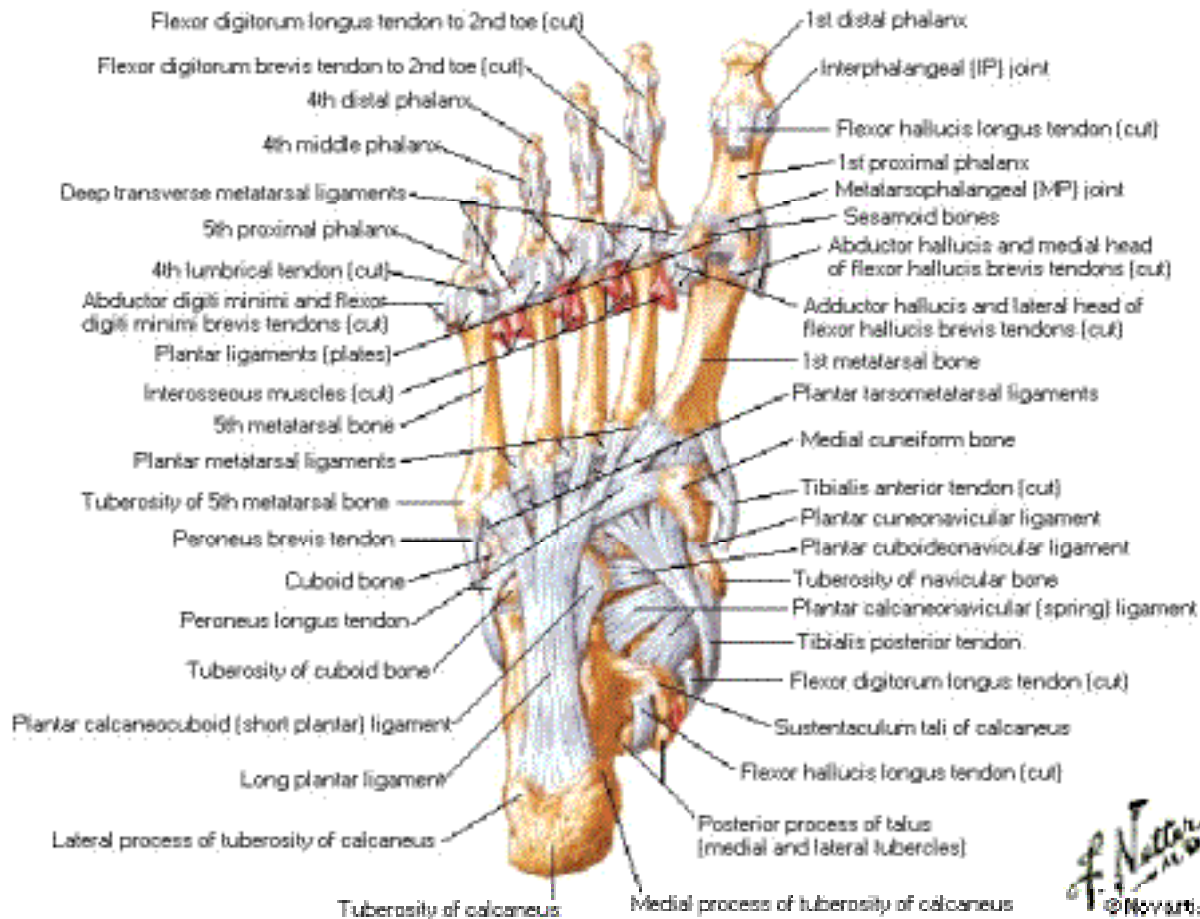
# Ligaments and Tendons of Right Ankle

## Medial View



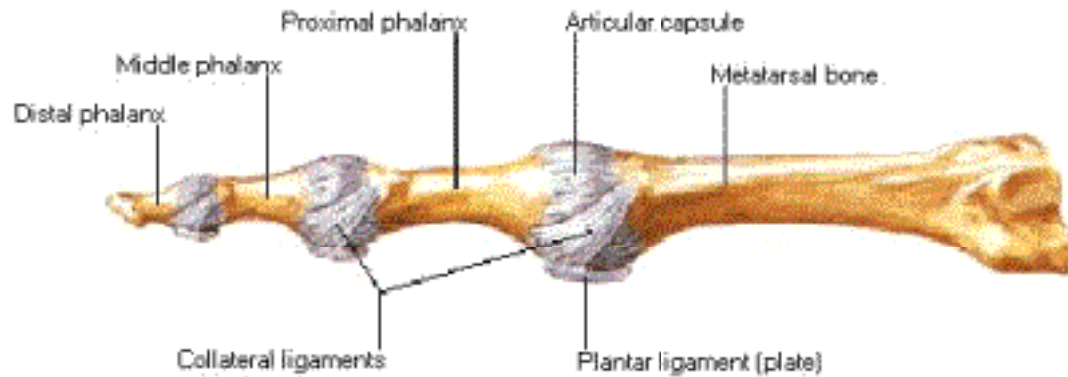
# Ligaments and Tendons of Foot

## Plantar View



# Metatarsophalangeal and Interphalangeal Joints

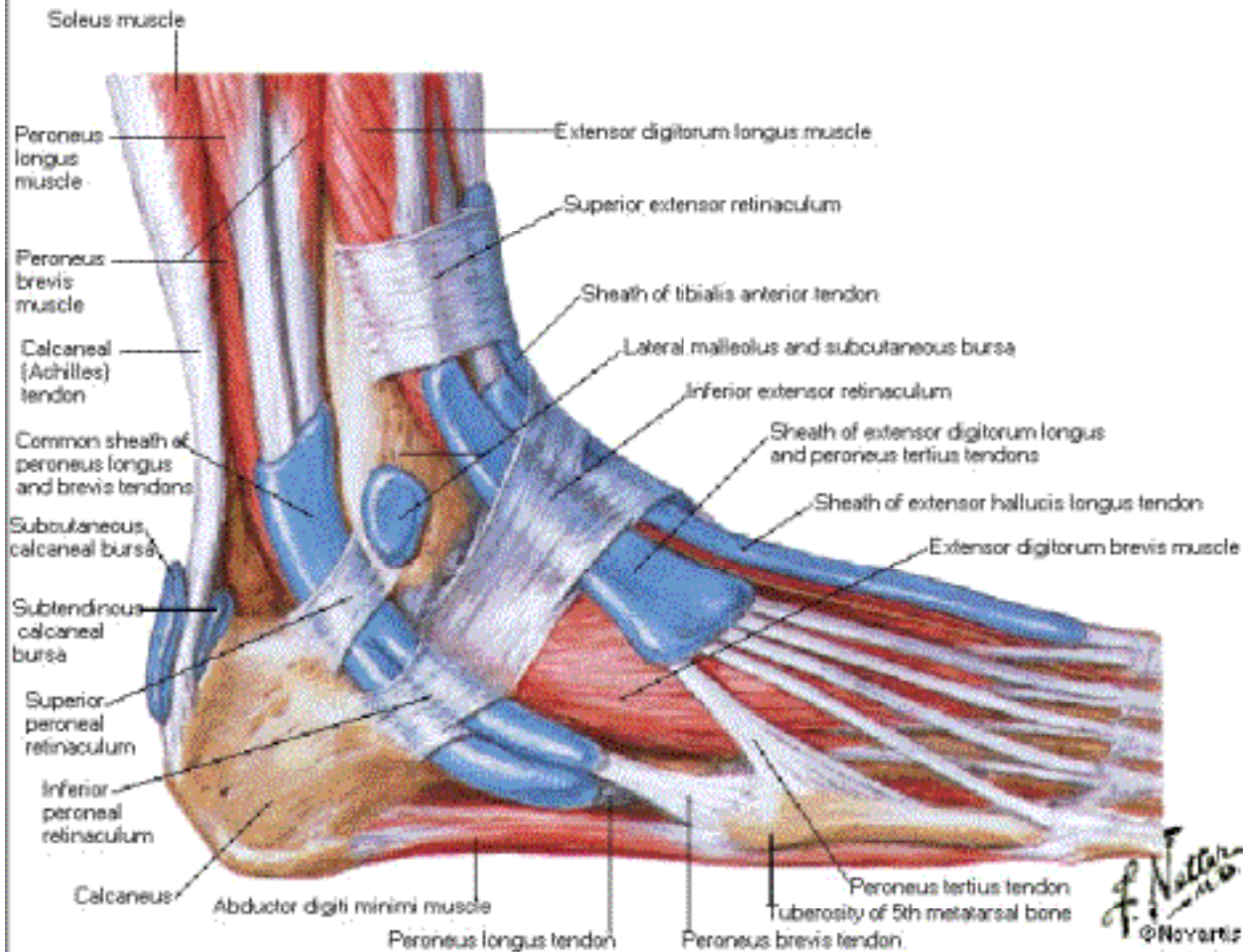
## Lateral View





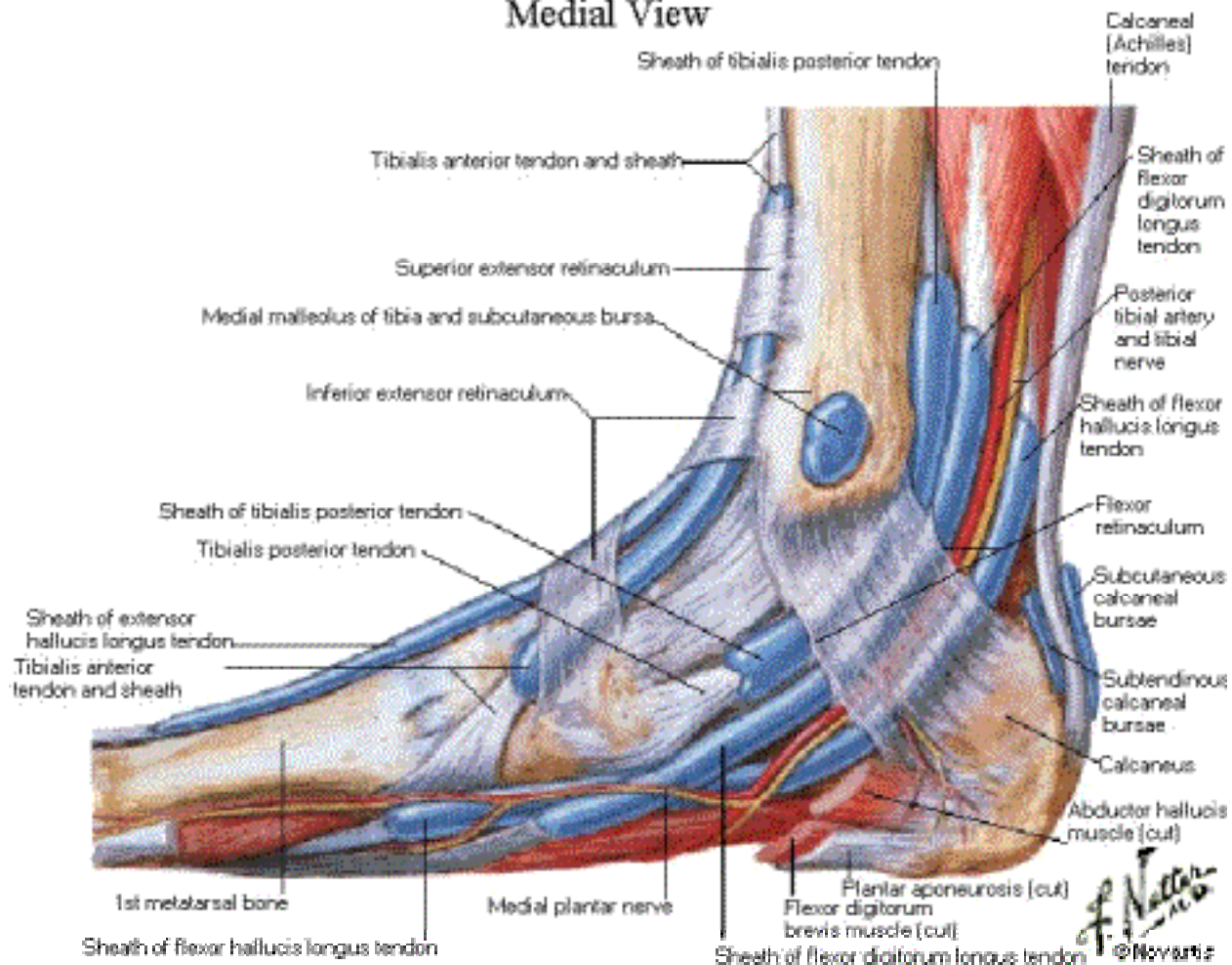
# Tendon Sheaths of Ankle

## Lateral View



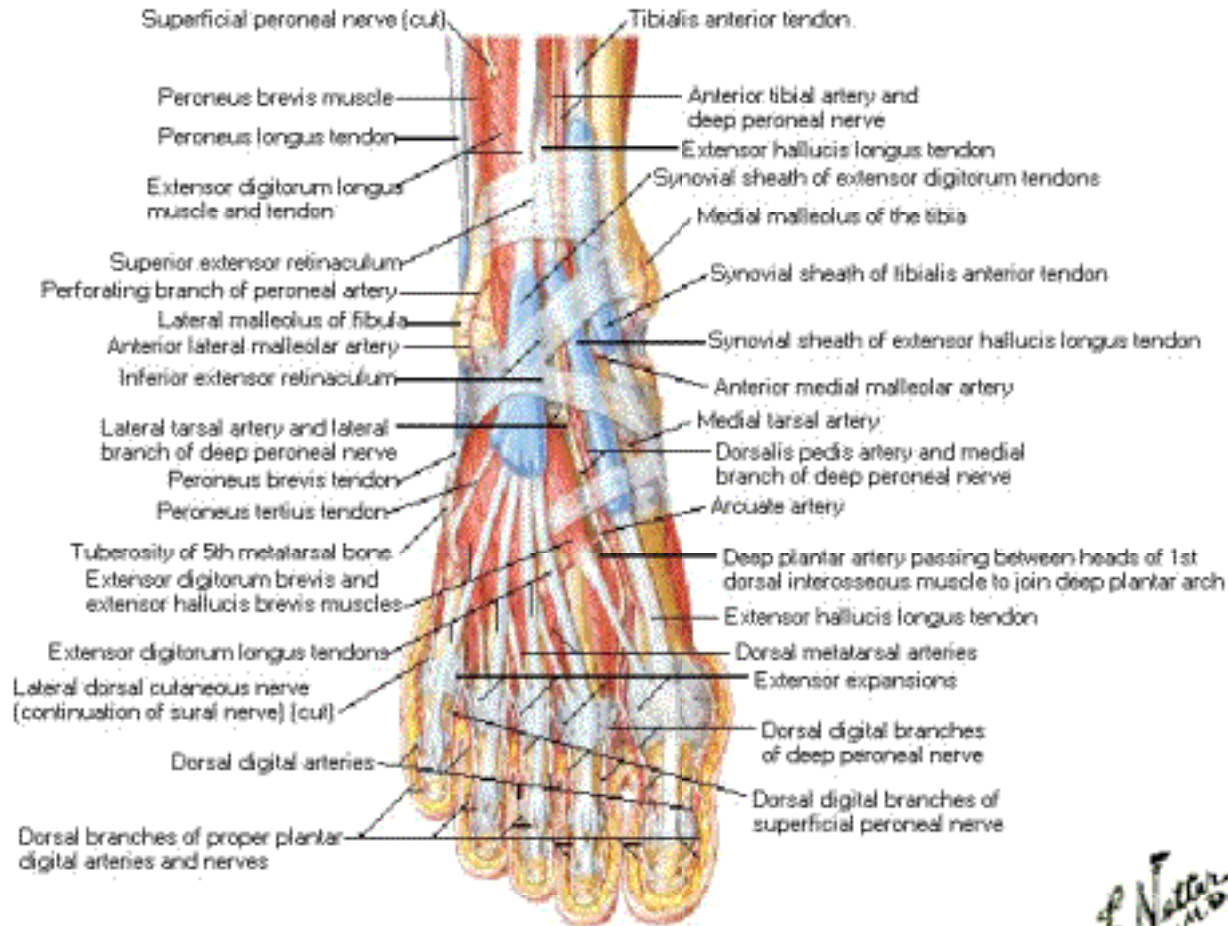
# Tendon Sheaths of Ankle

## Medial View



# Muscles of Dorsum of Foot

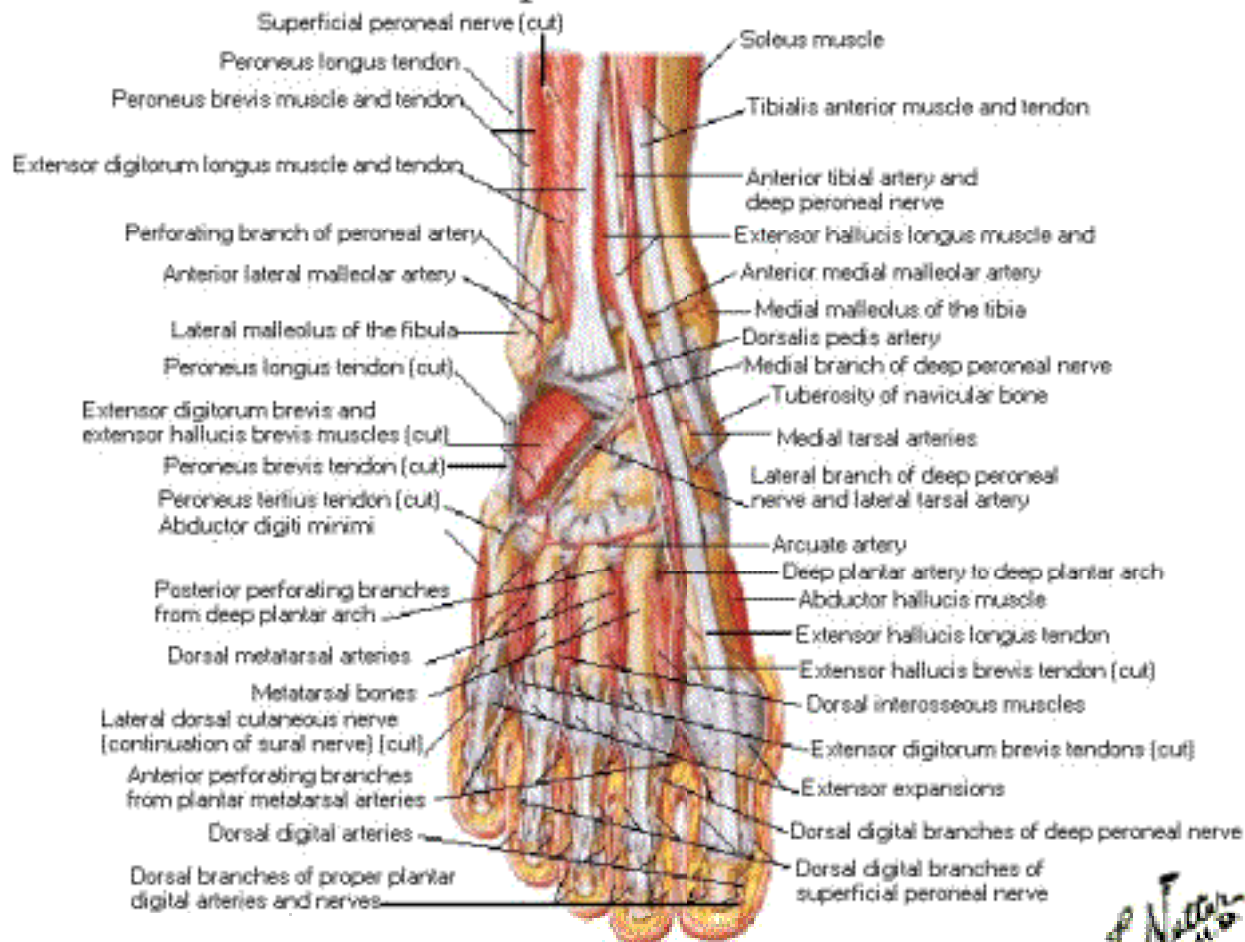
## Superficial Dissection



*Dr. Nataraj*

# Dorsum of Foot

## Deep Dissection

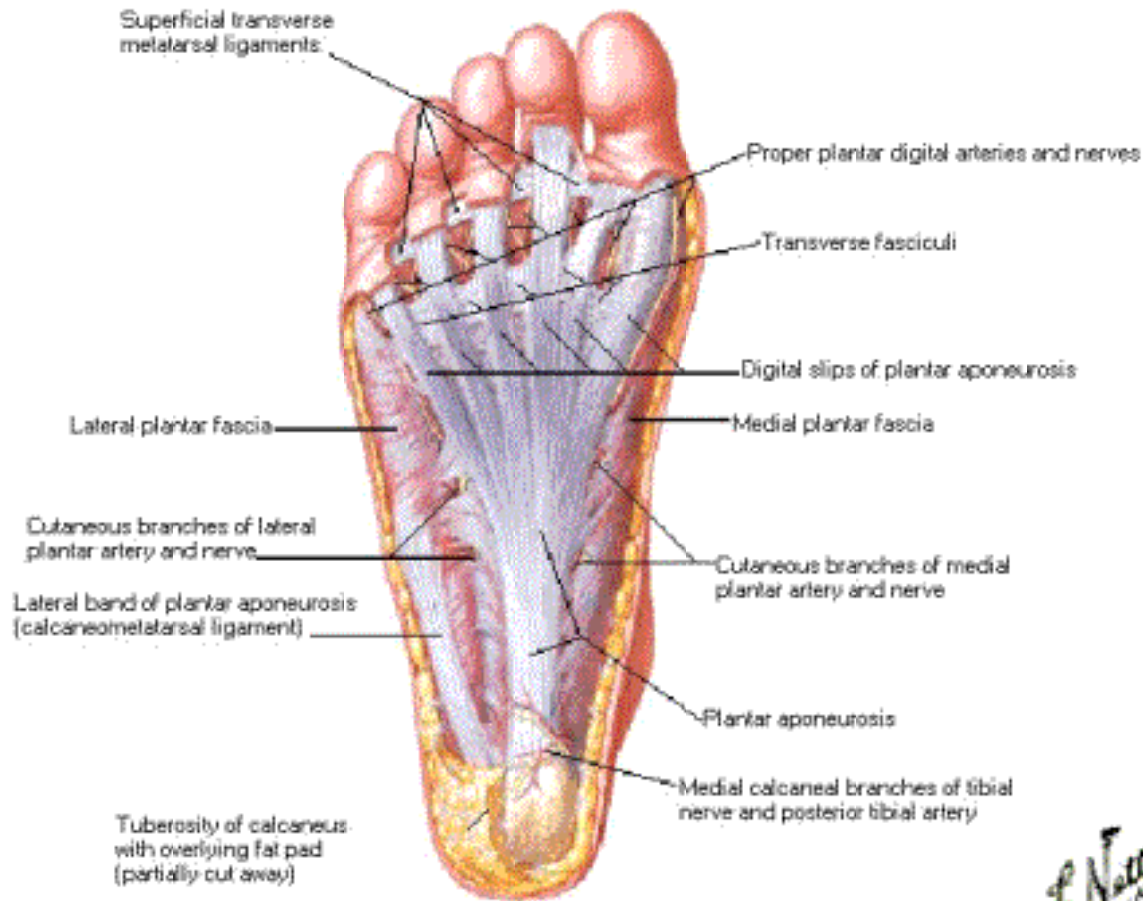


*Dr. Nasser*



# Sole of Foot

## Superficial Dissection

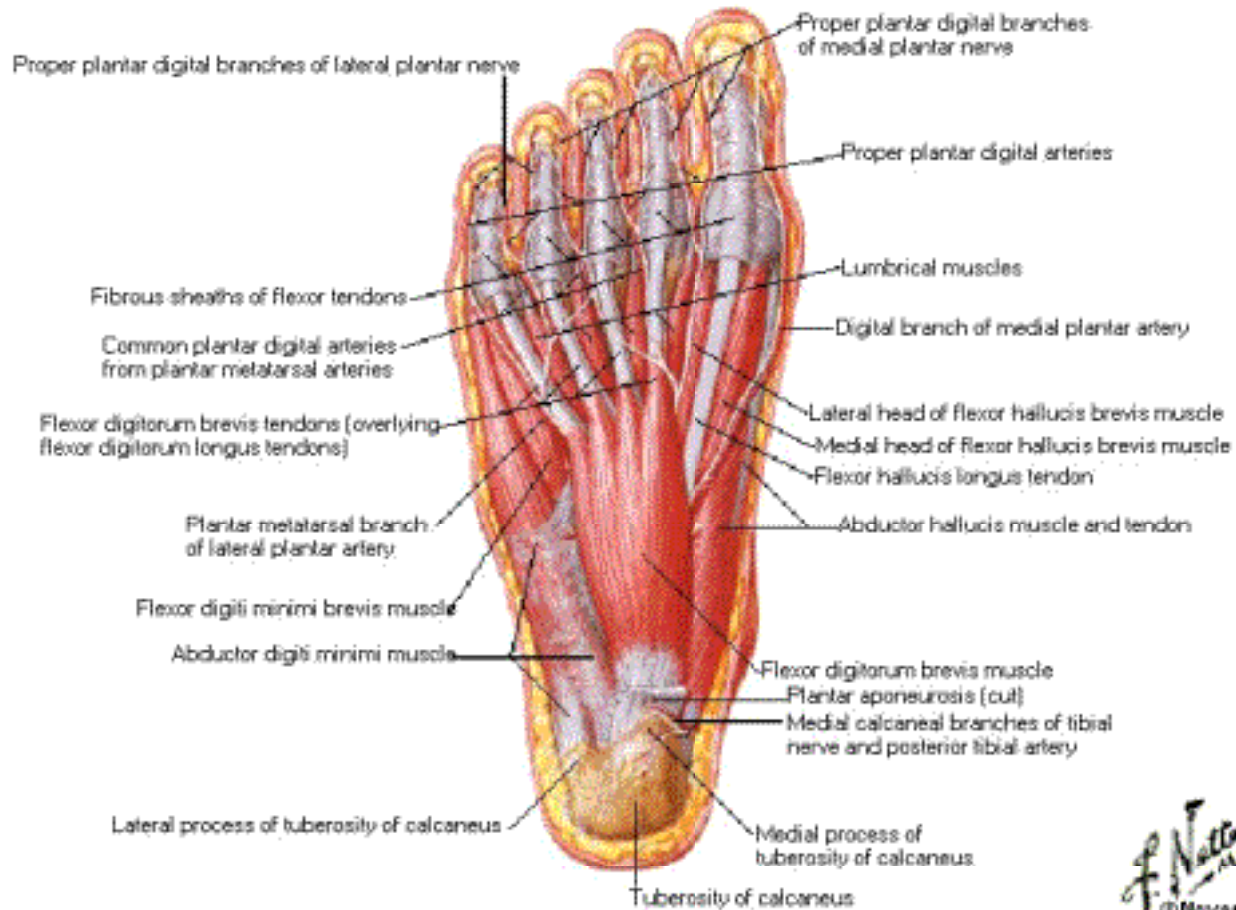


*L. Netto*



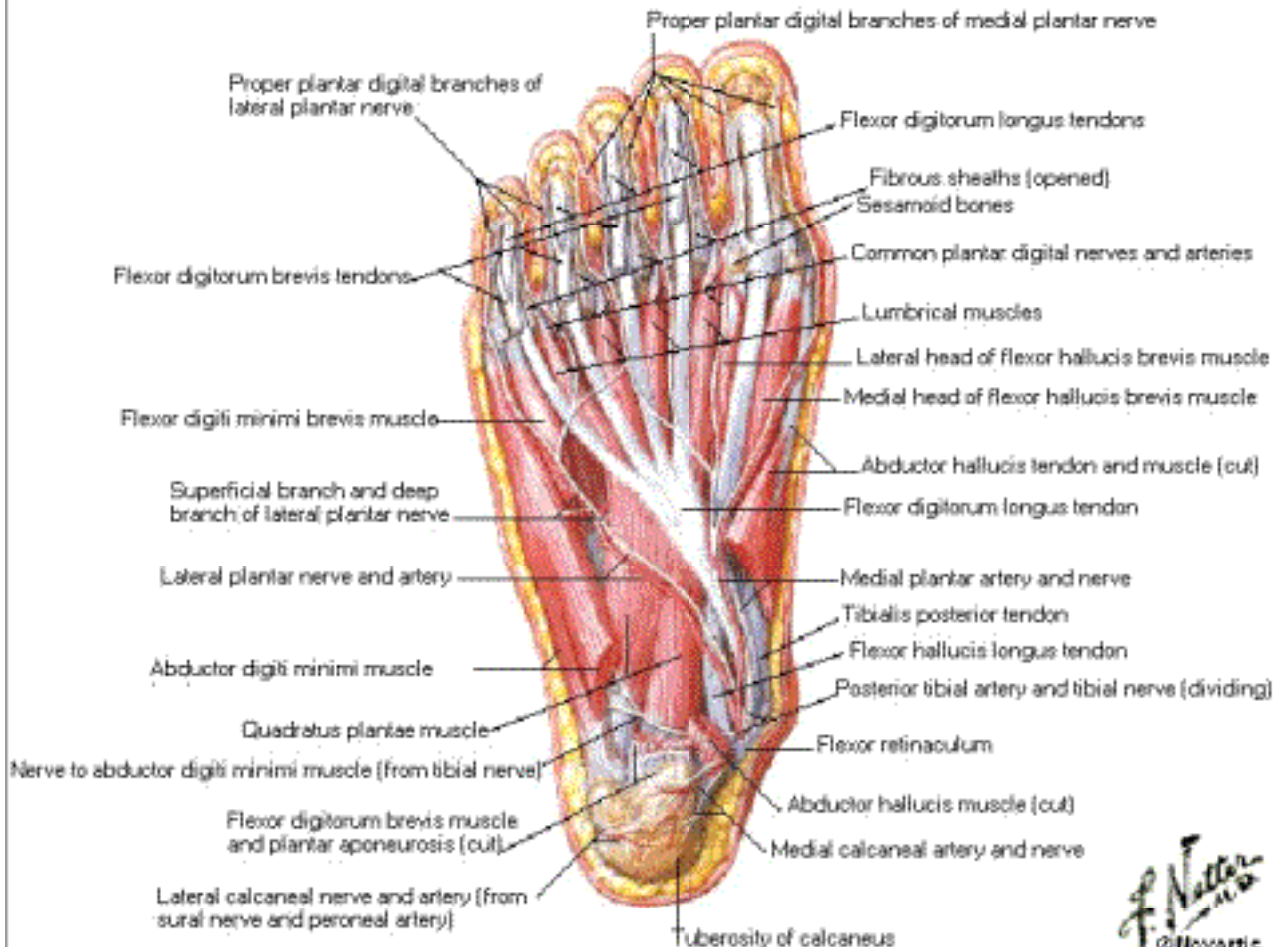
# Muscles of Sole of Foot

## First Layer



# Muscles of Sole of Foot

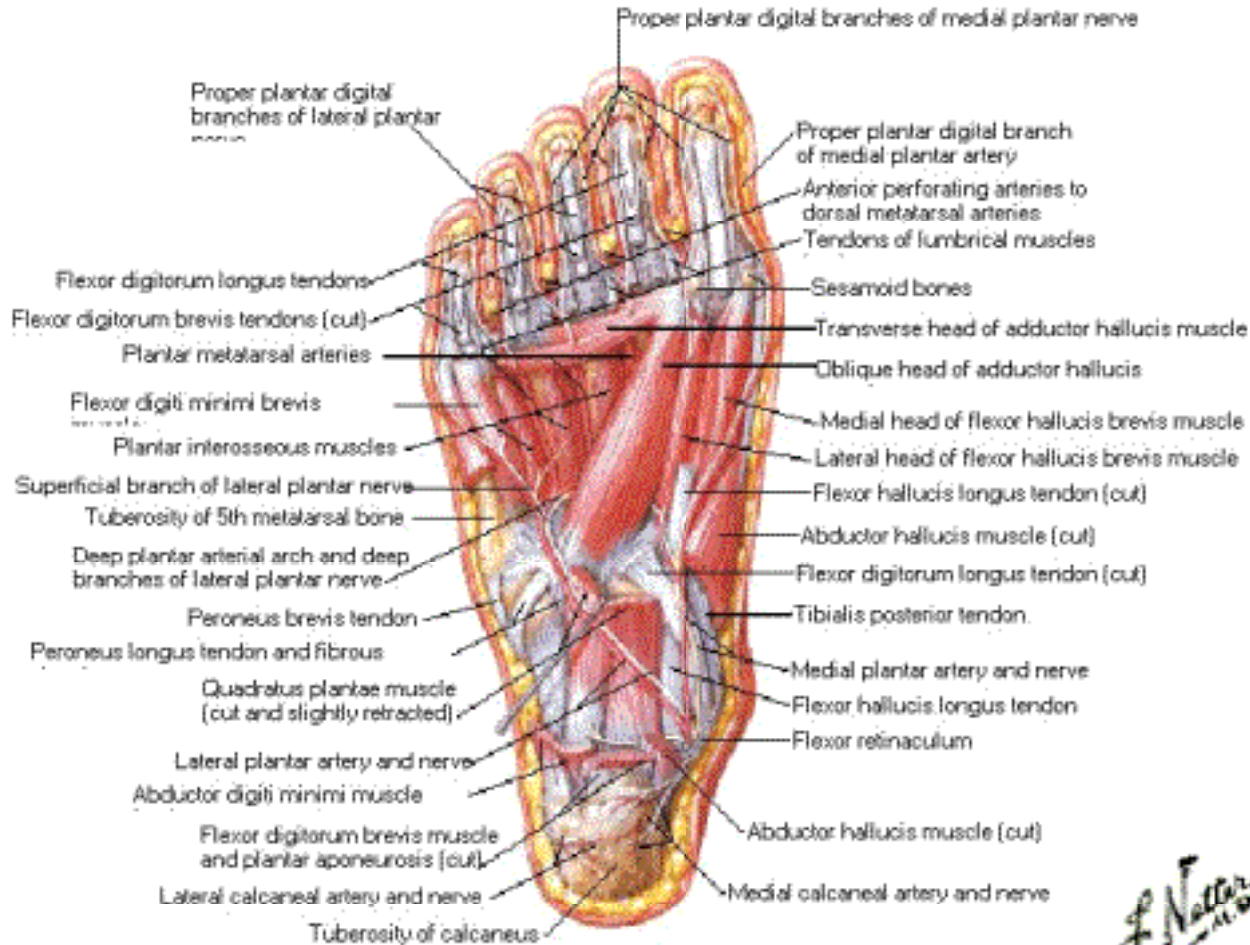
## Second Layer



F. Netter  
©Novartis

# Muscles of Sole of Foot

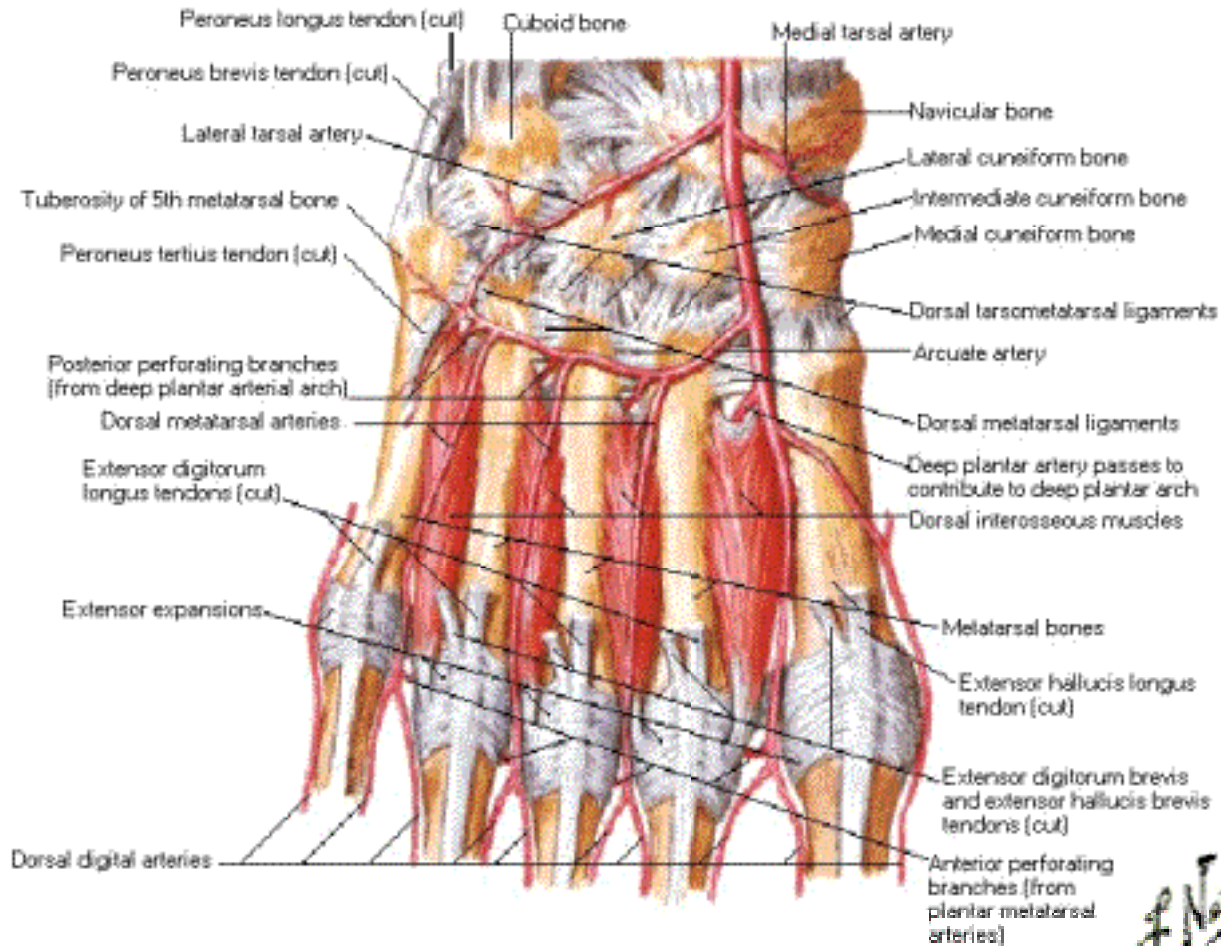
## Third Layer



*F. Natar*

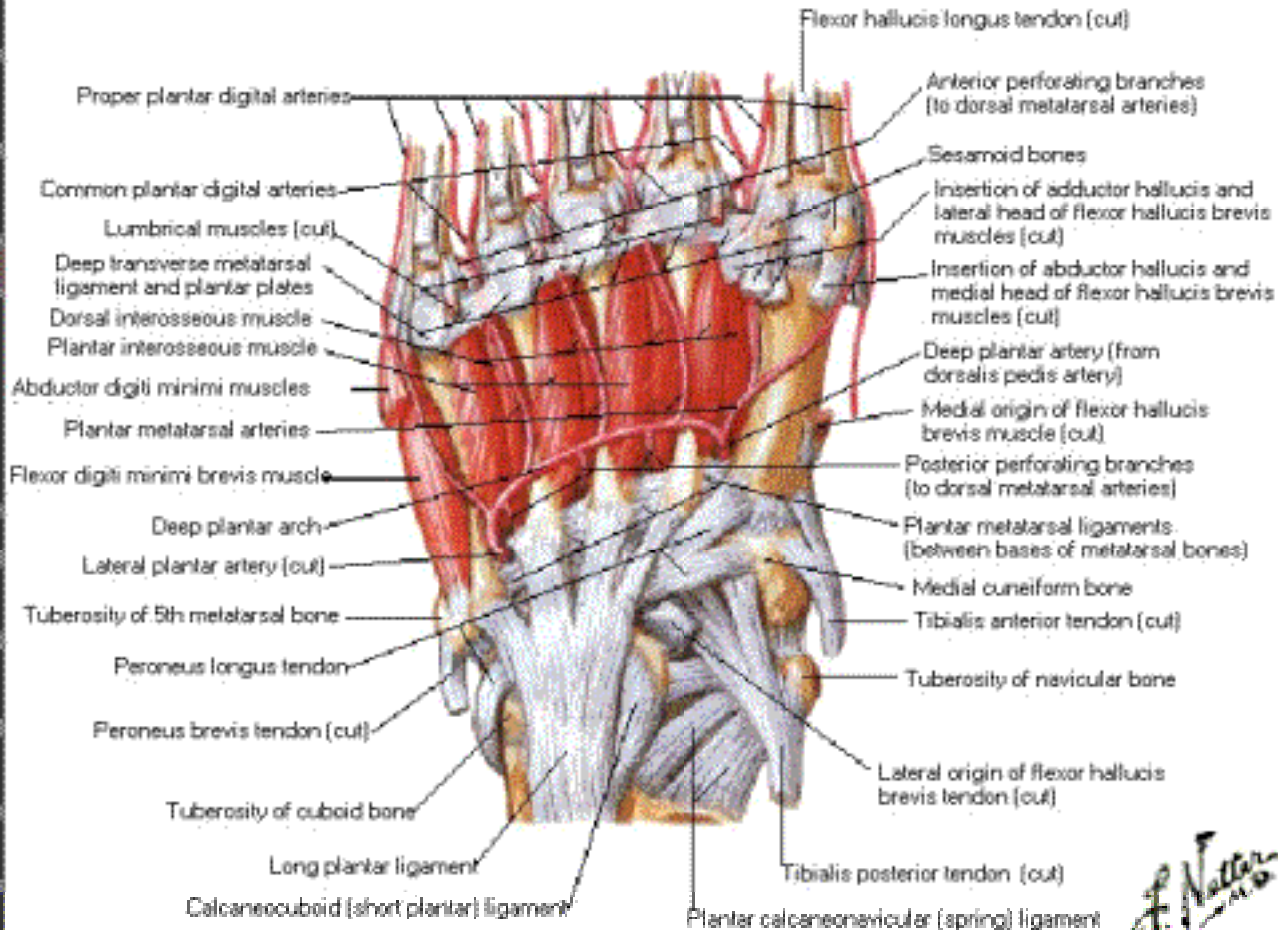
# Interosseous Muscles and Deep Arteries of Foot

## Dorsal View



# Interosseous Muscles and Deep Arteries of Foot

## Plantar View

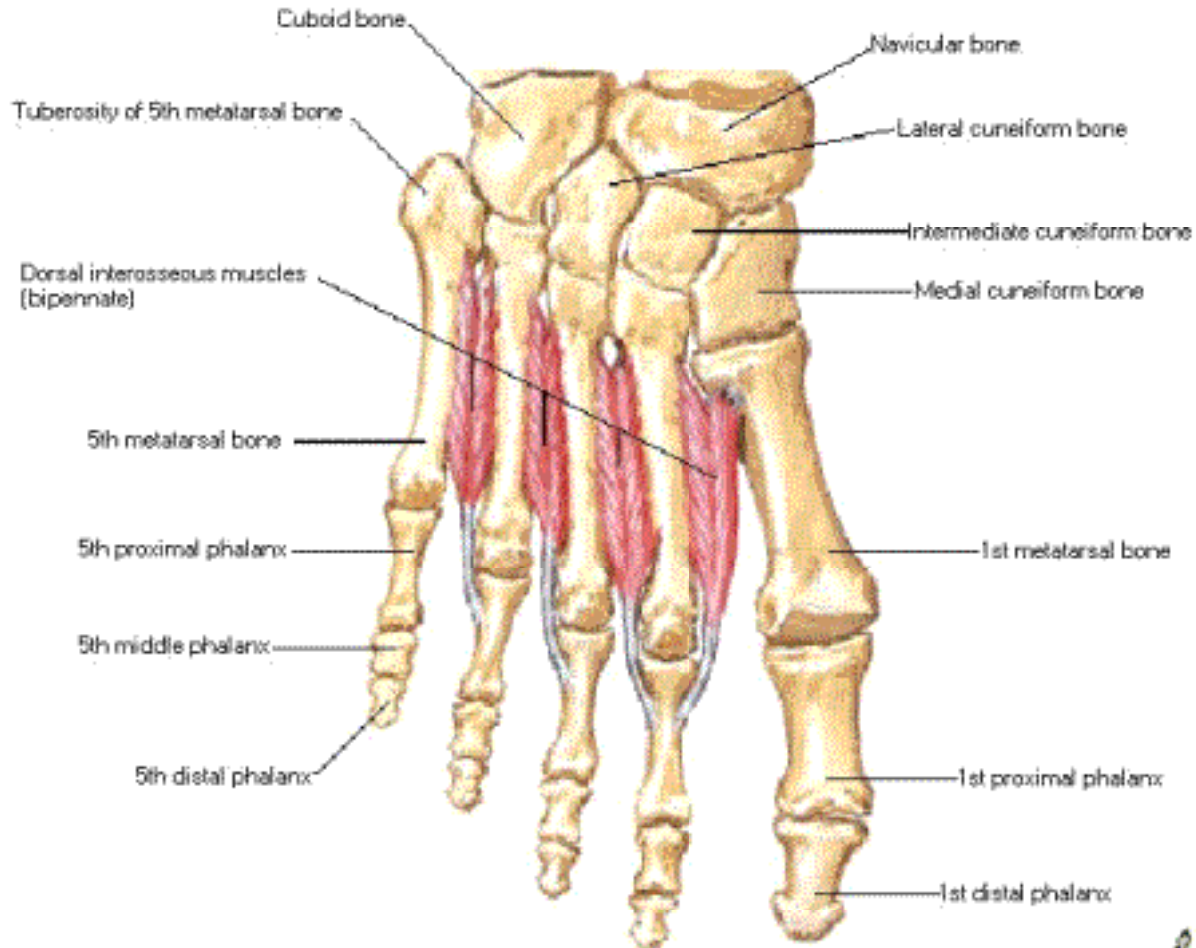


*F. Natter*  
2010



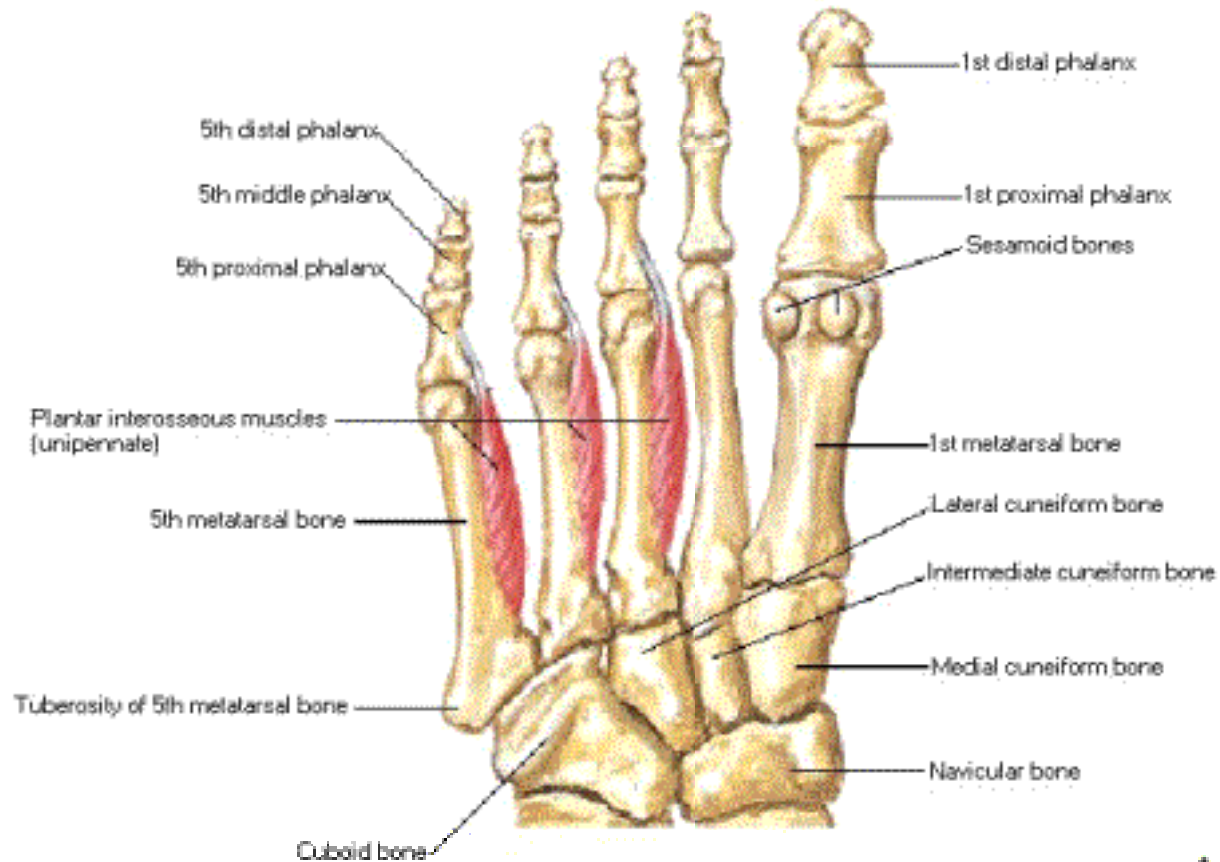
# Interosseous Muscles of Foot

## Dorsal View

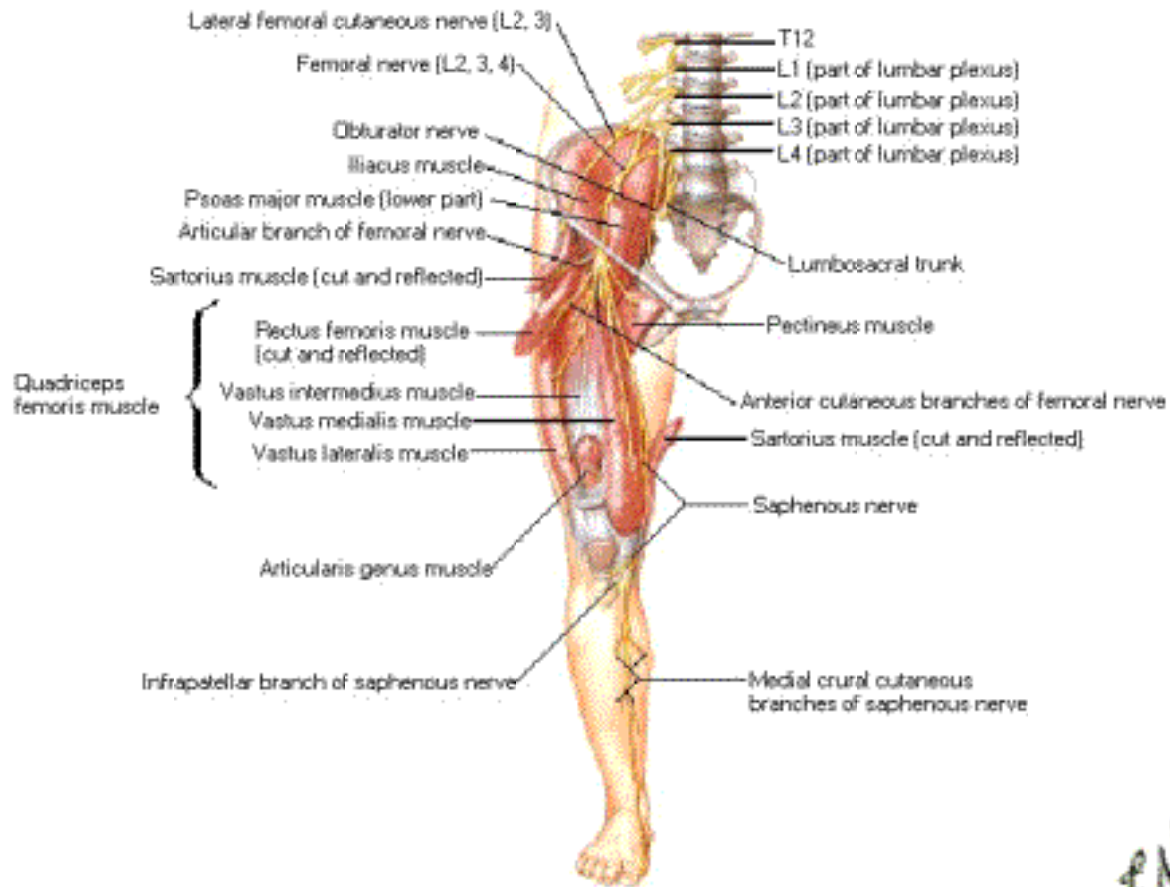


# Interosseous Muscles of Foot

## Plantar View



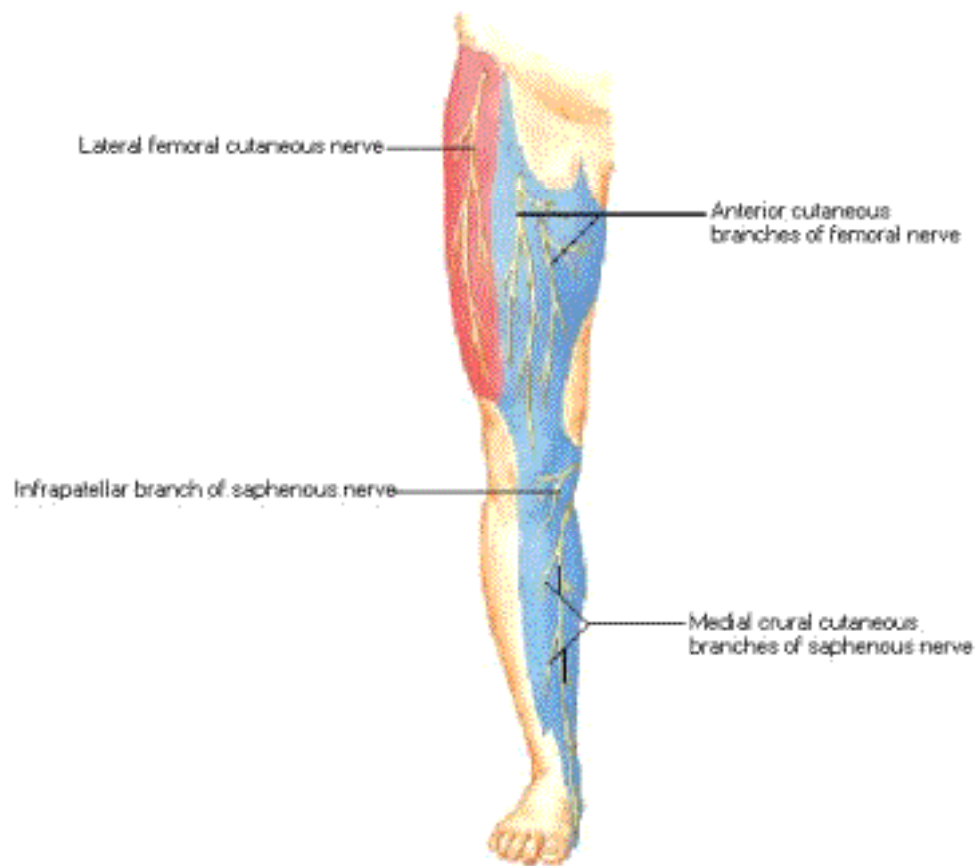
# Femoral and Lateral Femoral Cutaneous Nerves



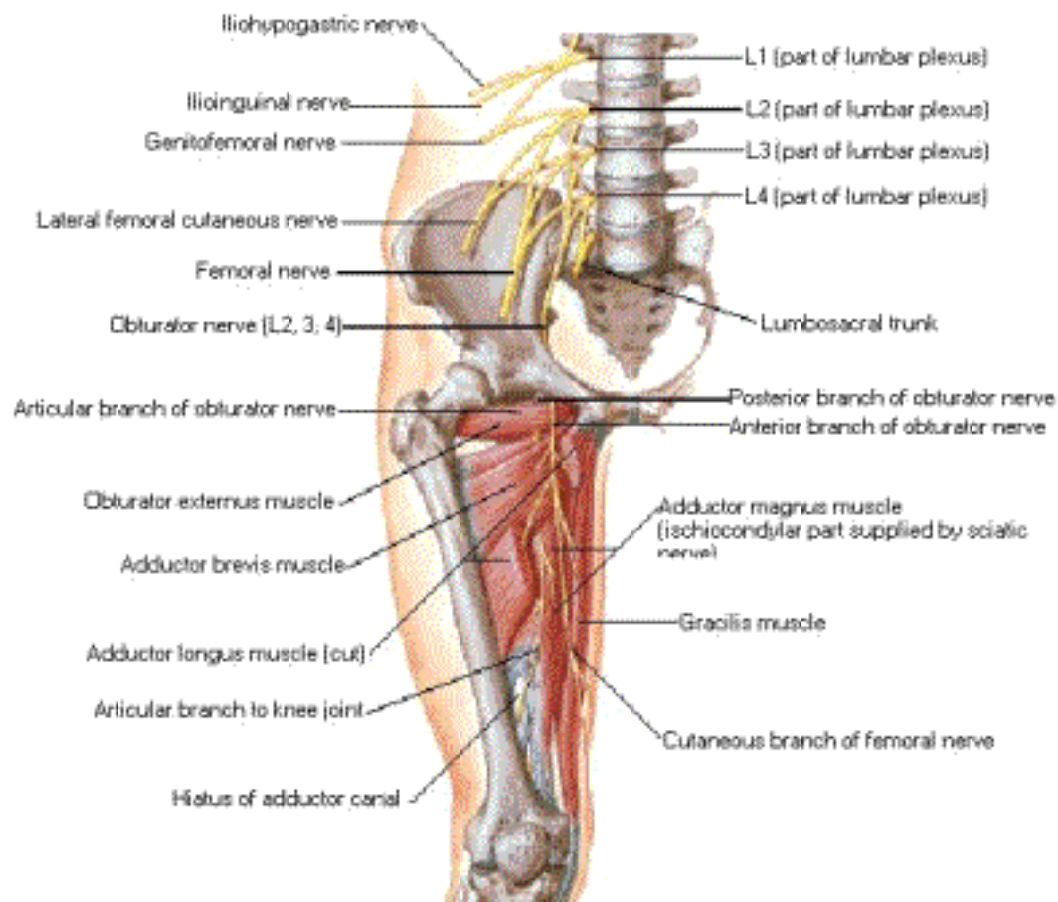
Note: only muscles innervated by femoral nerve shown

# Femoral and Lateral Femoral Cutaneous Nerves

## Cutaneous Innervation



# Obturator Nerve



Note: only muscles innervated by obturator nerve shown

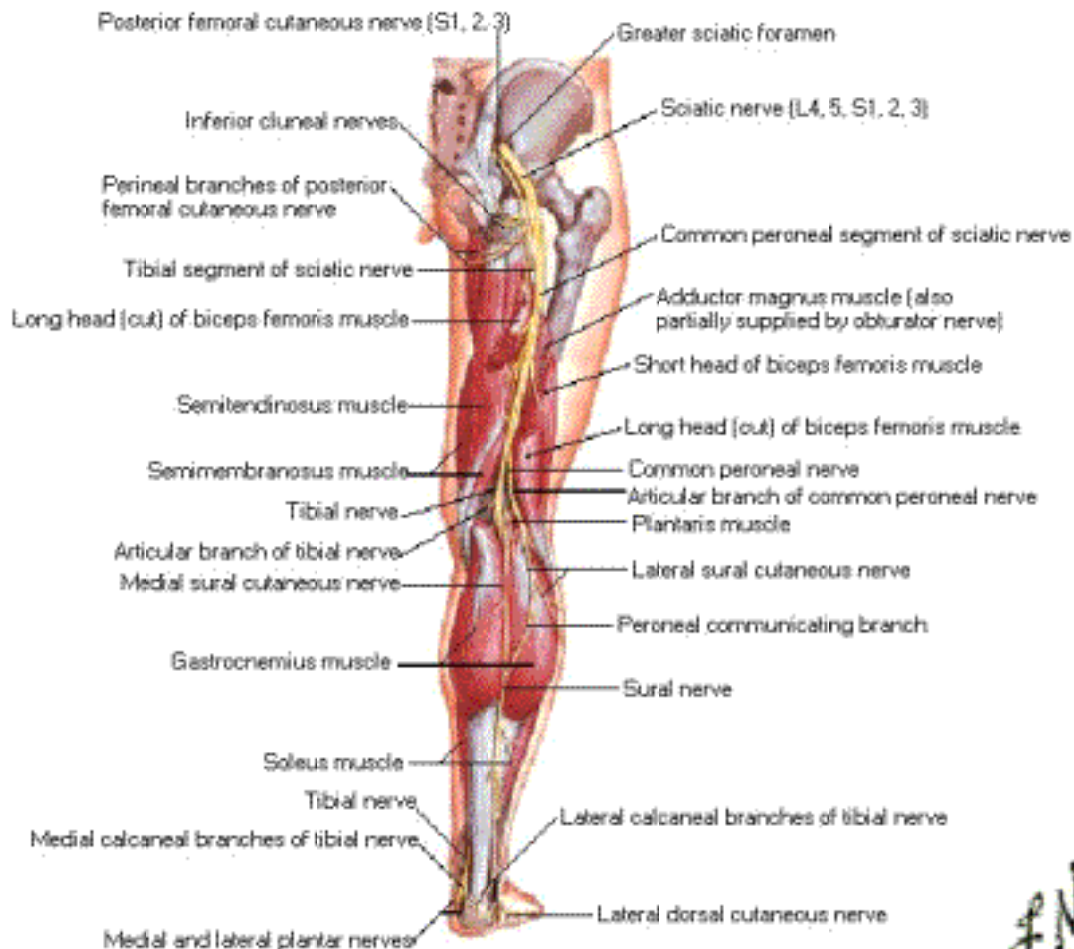


## **Obturator Nerve**

Cutaneous Innervation



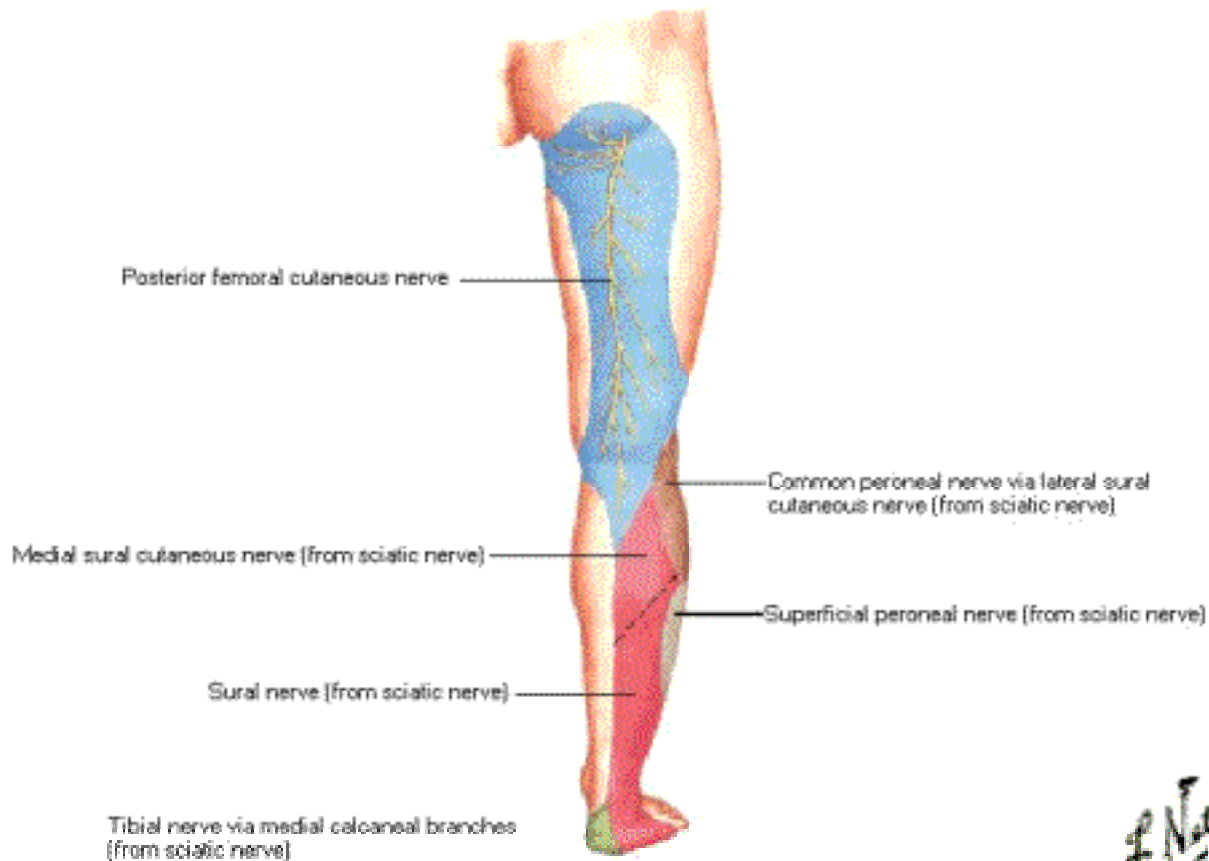
# Sciatic and Posterior Femoral Cutaneous Nerves



*Handwritten signature*

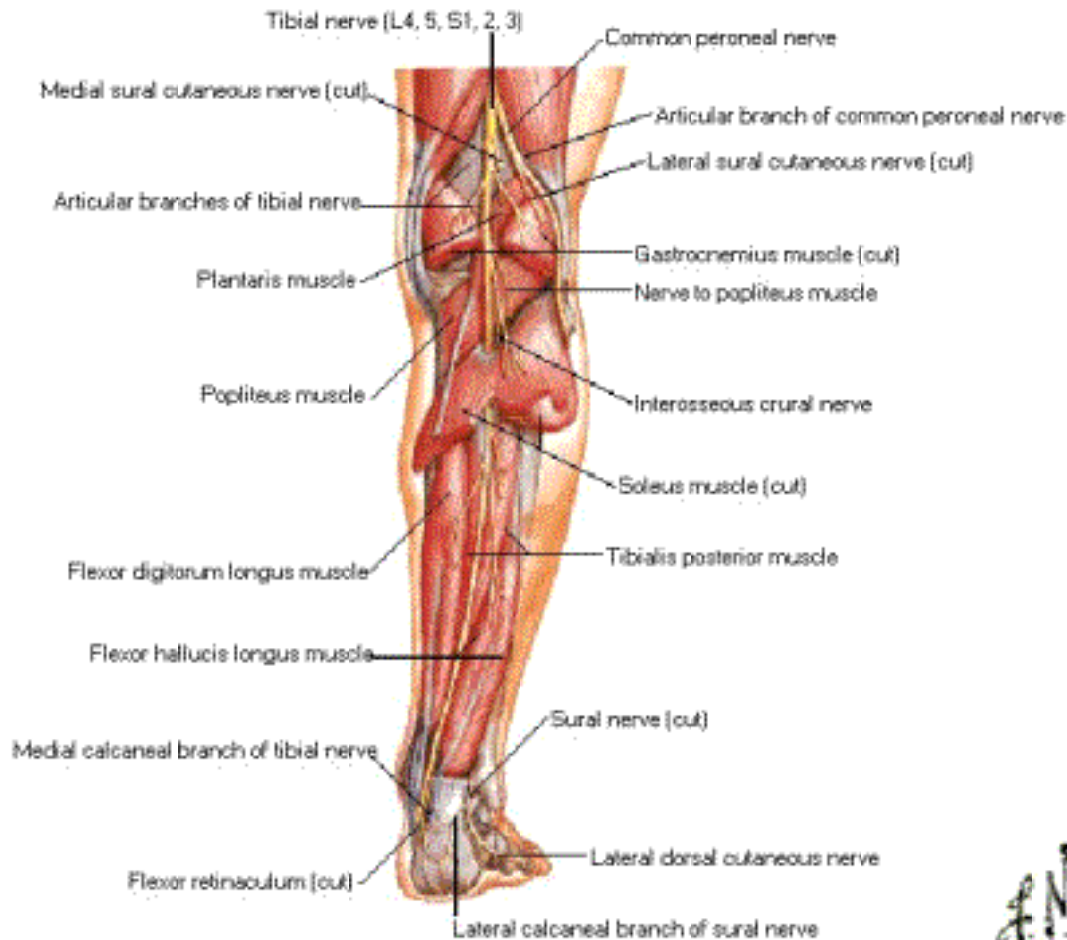
# Sciatic and Posterior Femoral Cutaneous Nerves

## Cutaneous Innervation



*F. Net*

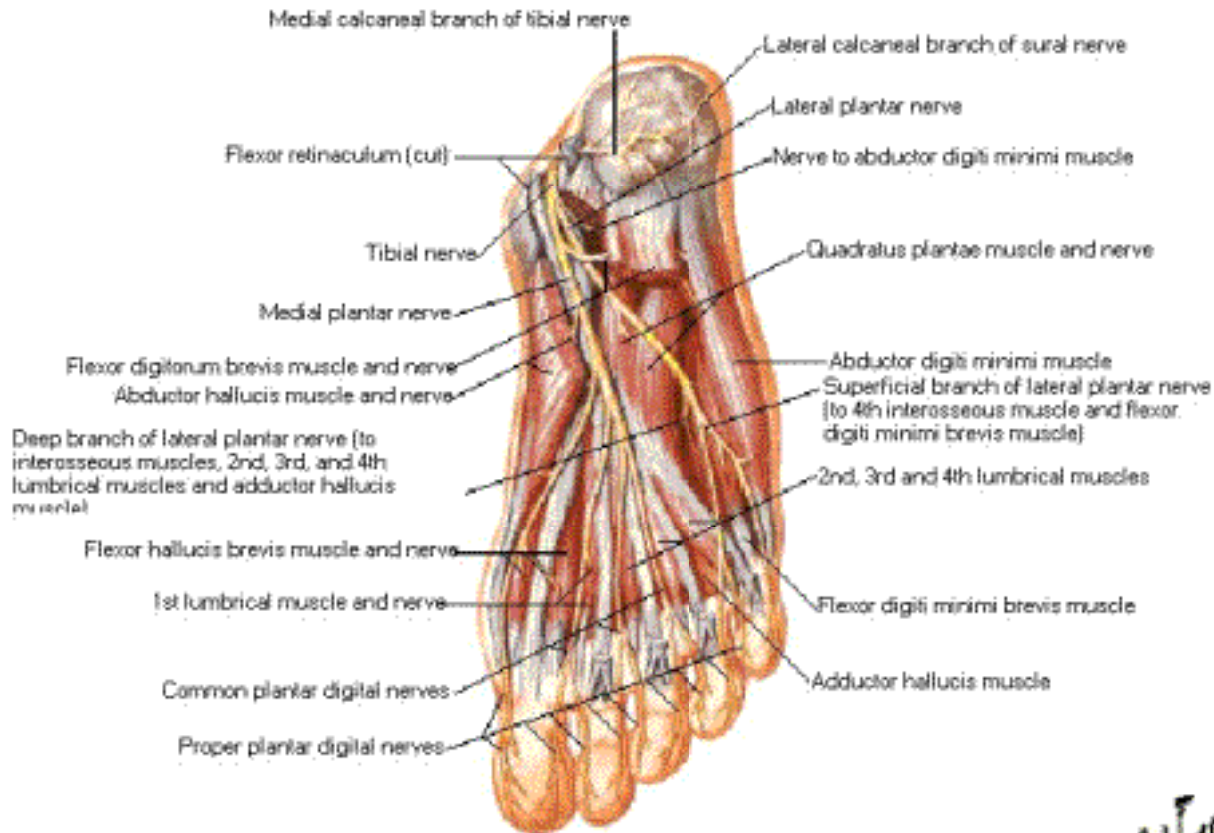
# Tibial Nerve



FN  
2021

# Tibial Nerve

## Plantar View

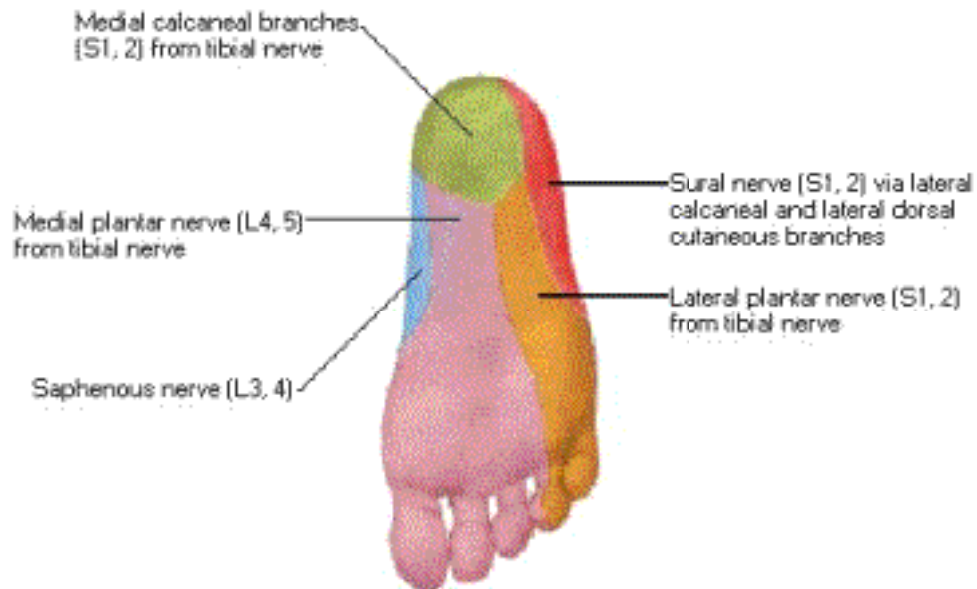


Note: articular branches not shown

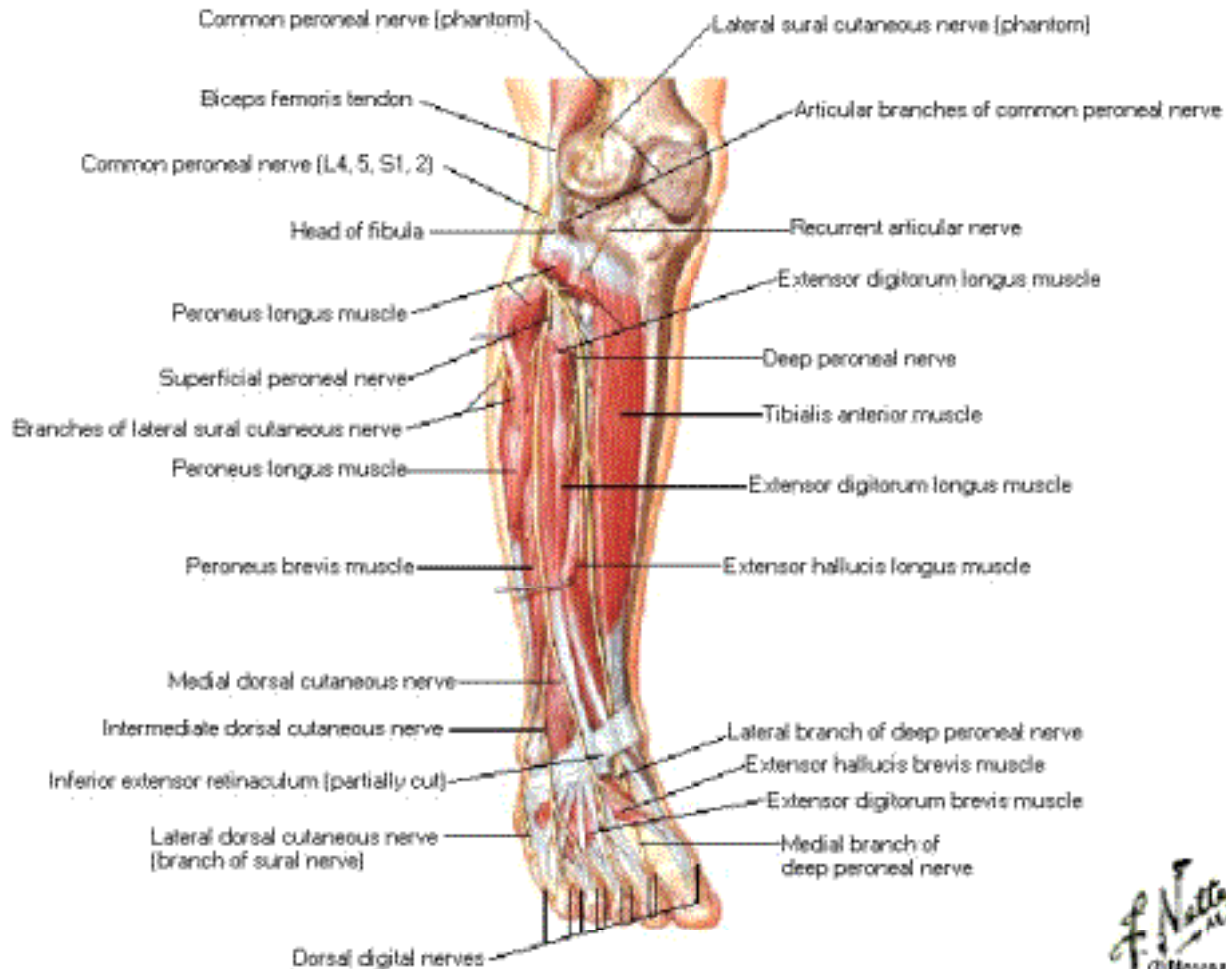


# Tibial Nerve

## Cutaneous Innervation of Sole of Foot

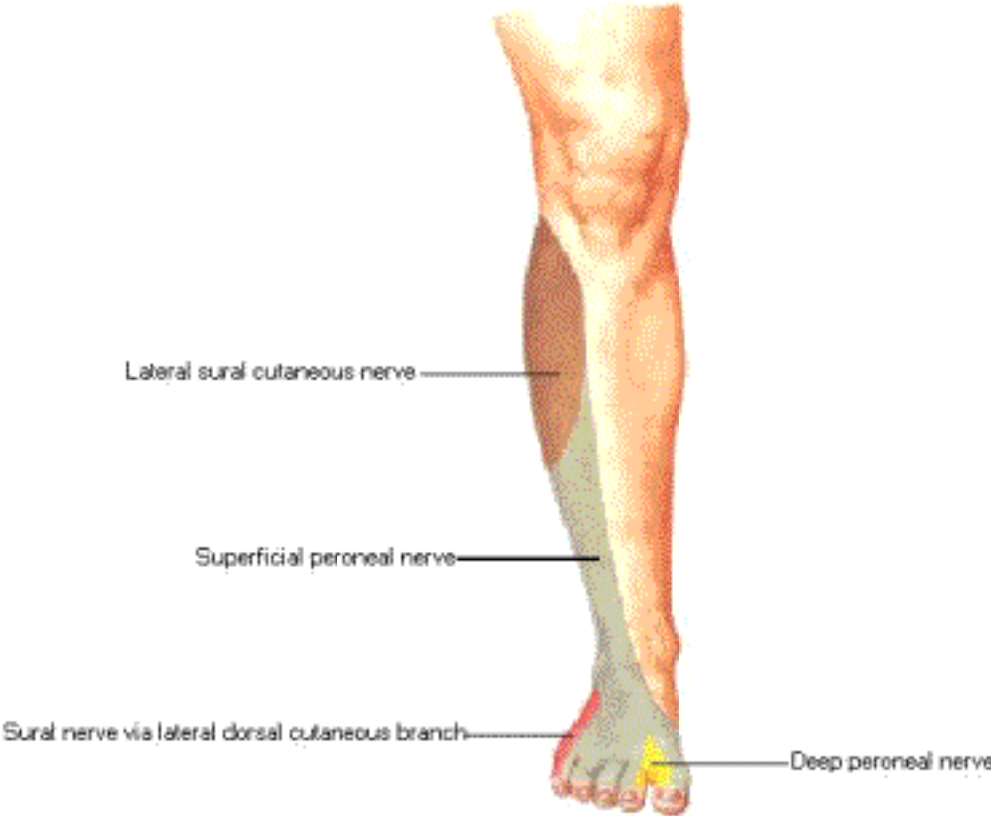


# Common Peroneal Nerve



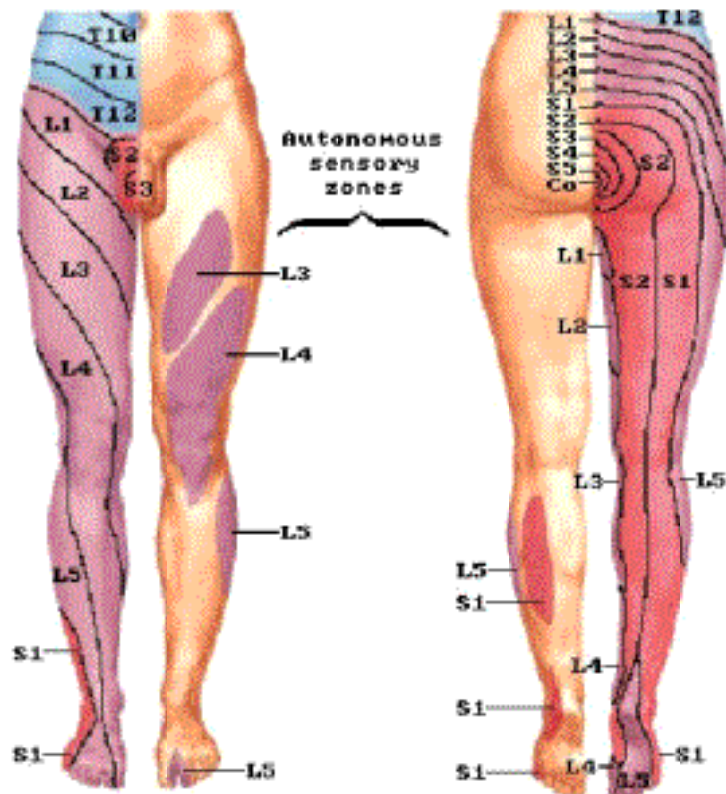
# Common Peroneal Nerve

## Cutaneous Innervation



# Dermatomes of Lower Limb

Anterior and Posterior Views



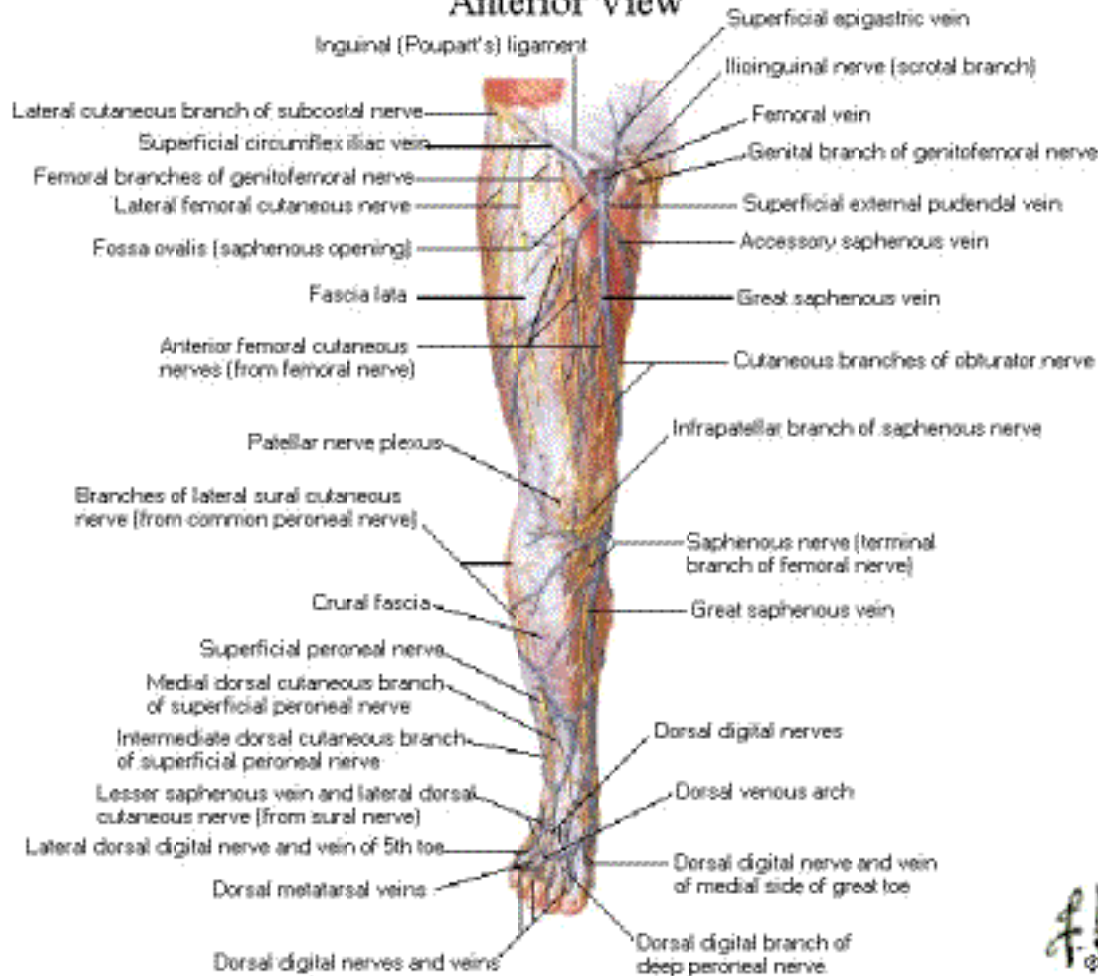
# Segmental Innervation of Lower Limb Movements





# Superficial Nerves and Veins of Lower Limb

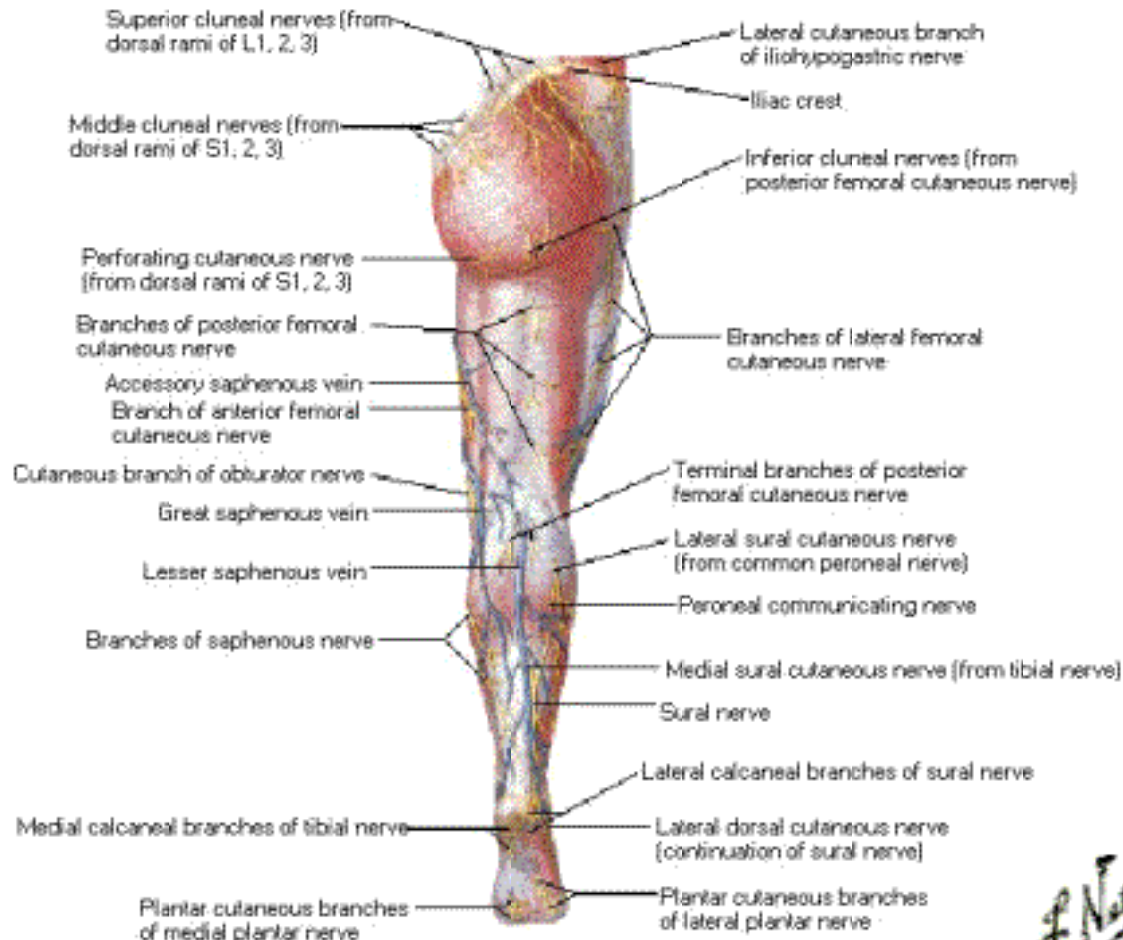
## Anterior View



*F.N.*  
© N

# Superficial Nerves and Veins of Lower Limb

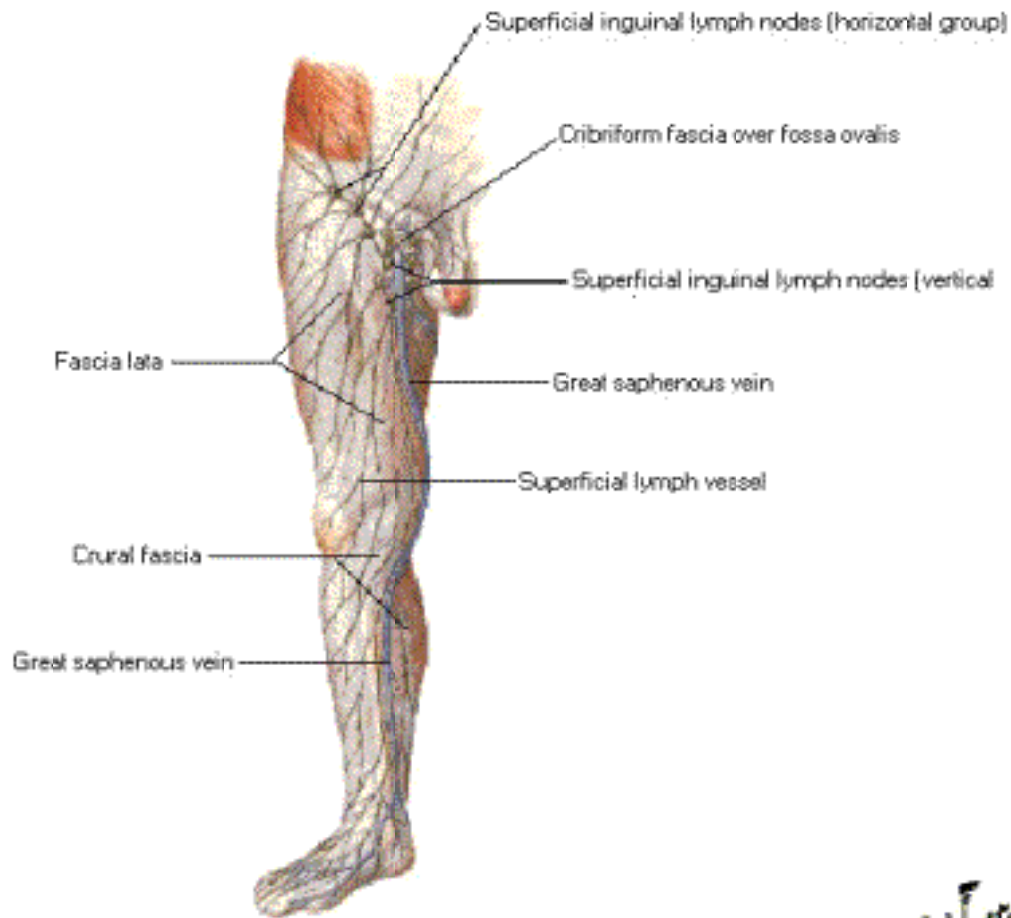
## Posterior View



*Handwritten signature*

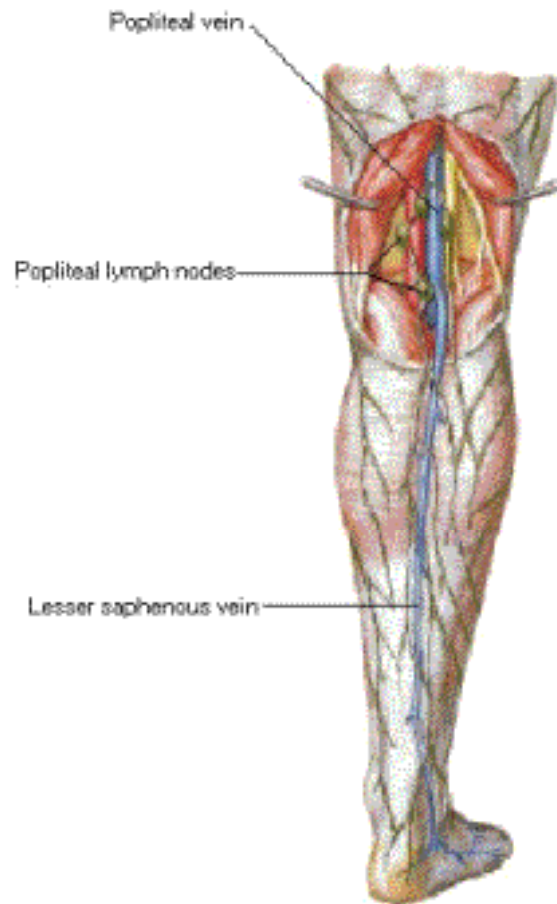
# Lymph Vessels and Nodes of Lower Limb

## Anterior View



# Lymph Vessels and Nodes of Lower Limb

## Posterior View



# Lymph Vessels and Nodes of Lower Limb

## Inguinal Region

