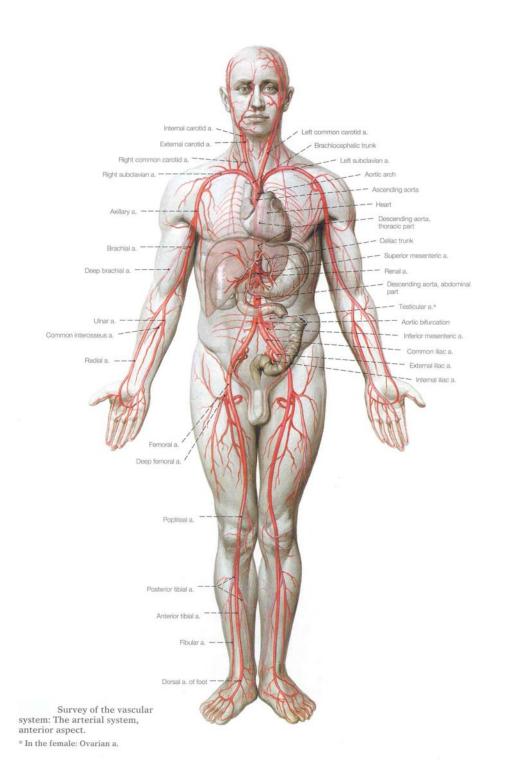
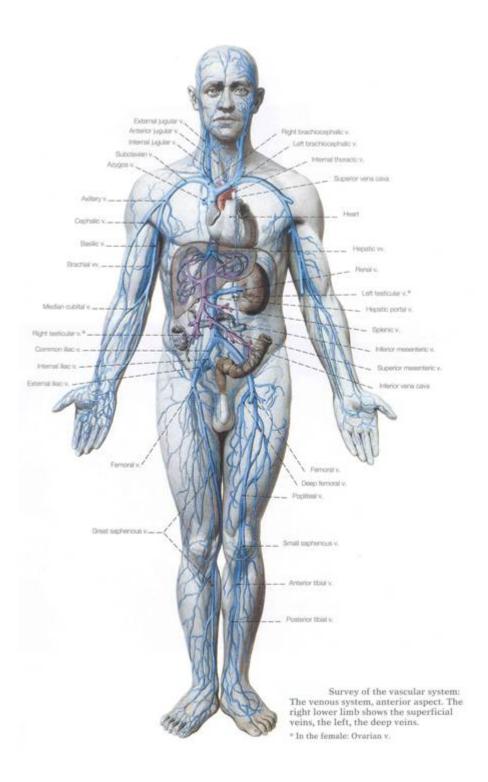
Biology 224
Human Anatomy and Physiology II
Week 2; Lecture 2; Wednesday
Dr. Stuart S. Sumida

Peripheral Circulation





UNPAIRED VESSLES OF THE BODY

Serve structures of the GUT (splanchnopleure).

PAIRED VESSLES OF THE BODY

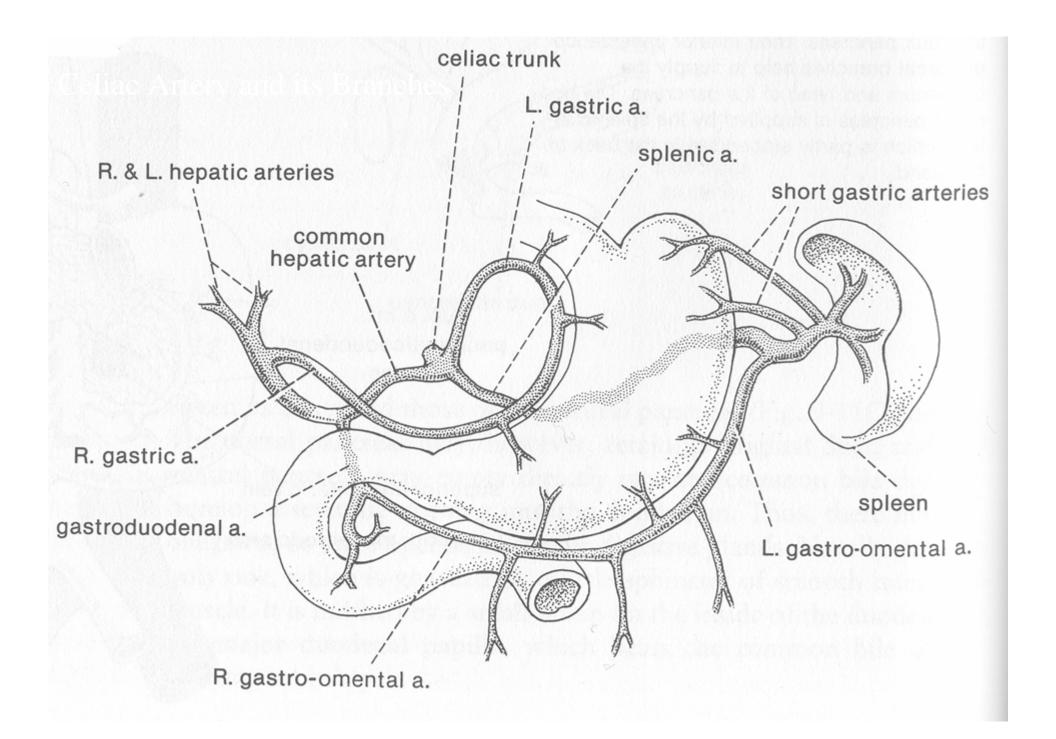
Serve structures associated with the body wall (somatopleure.)

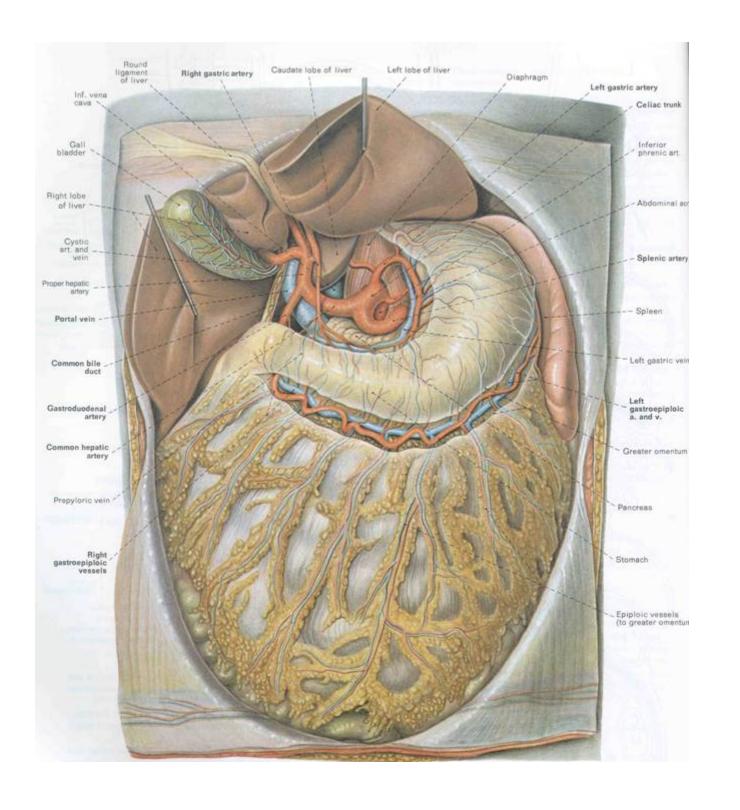
UNPAIRED ARTERIES OF THE ABDOMINAL GUT

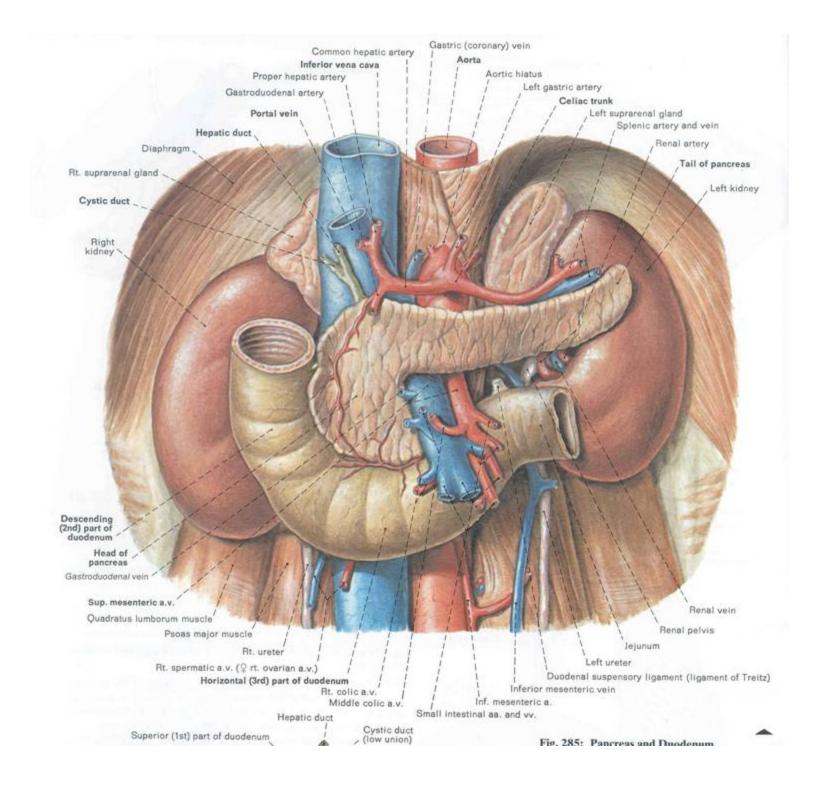
Foregut: Celiac Artery (3 main branches)
Splenic, Left gastric, Hepatic

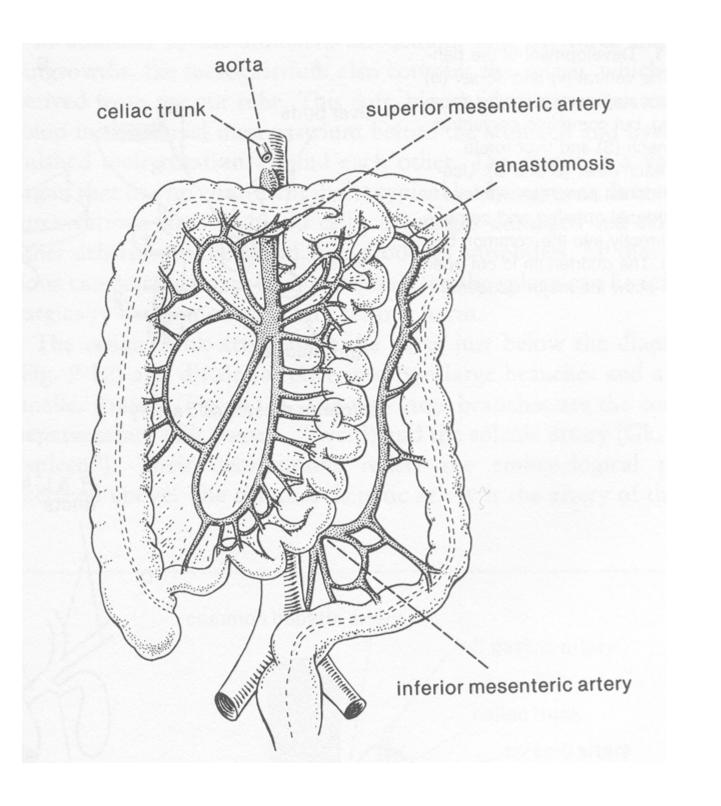
Midgut: Superior Mesenteric Artery

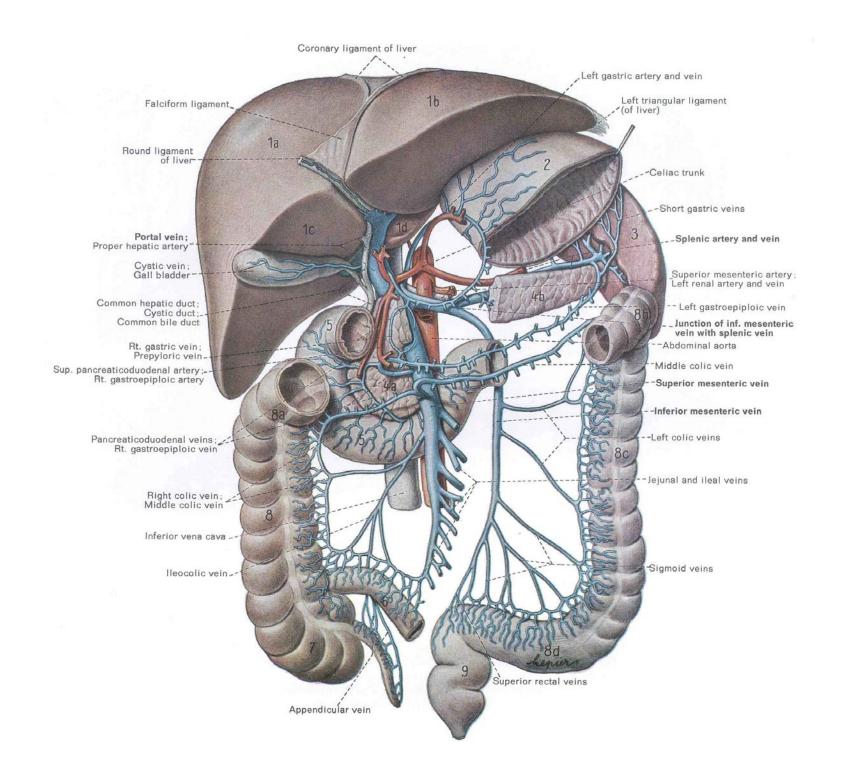
Hindgut: Inferior Mesenteric Artery

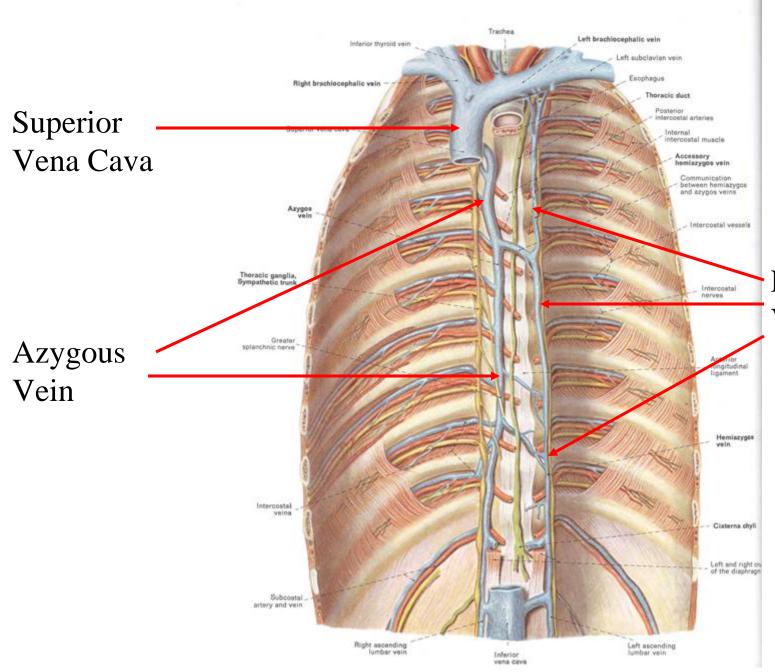




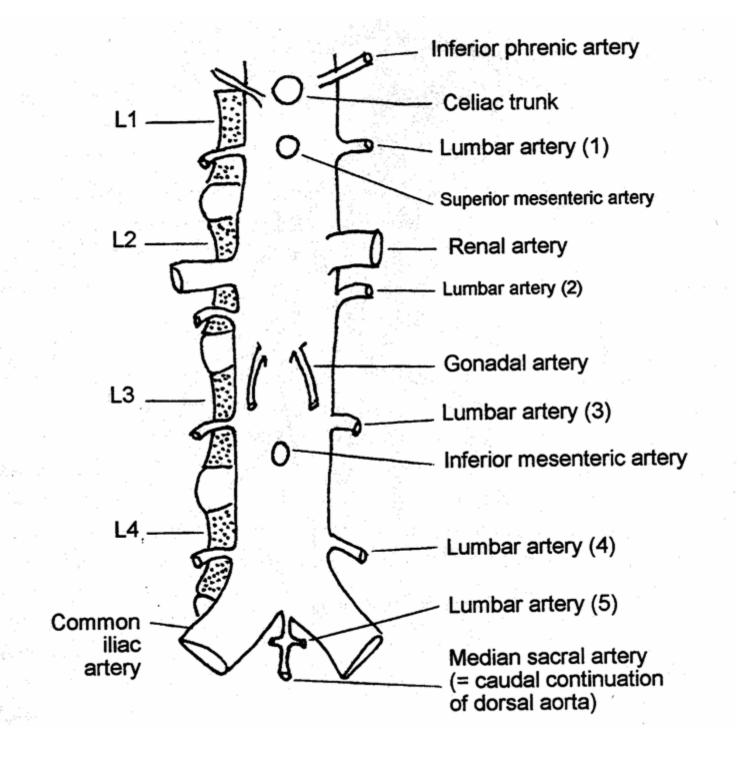


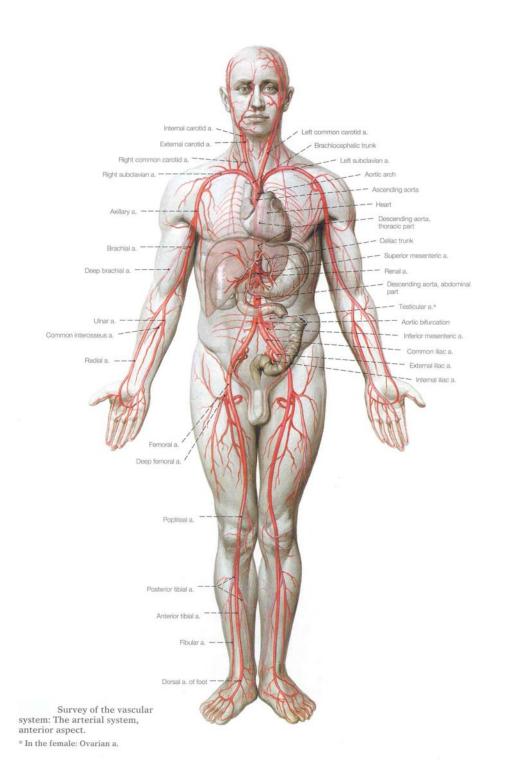




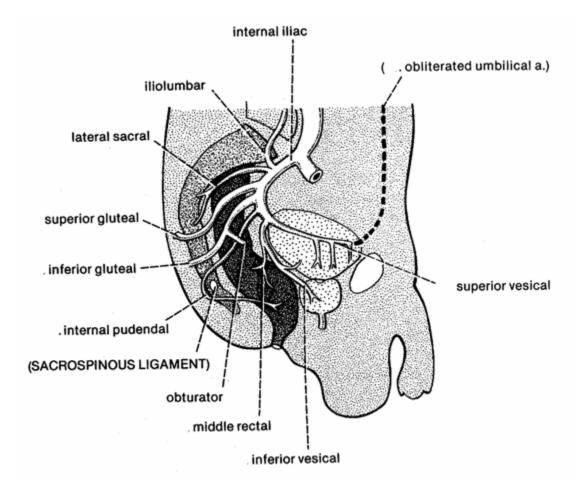


Hemiazygous Vein

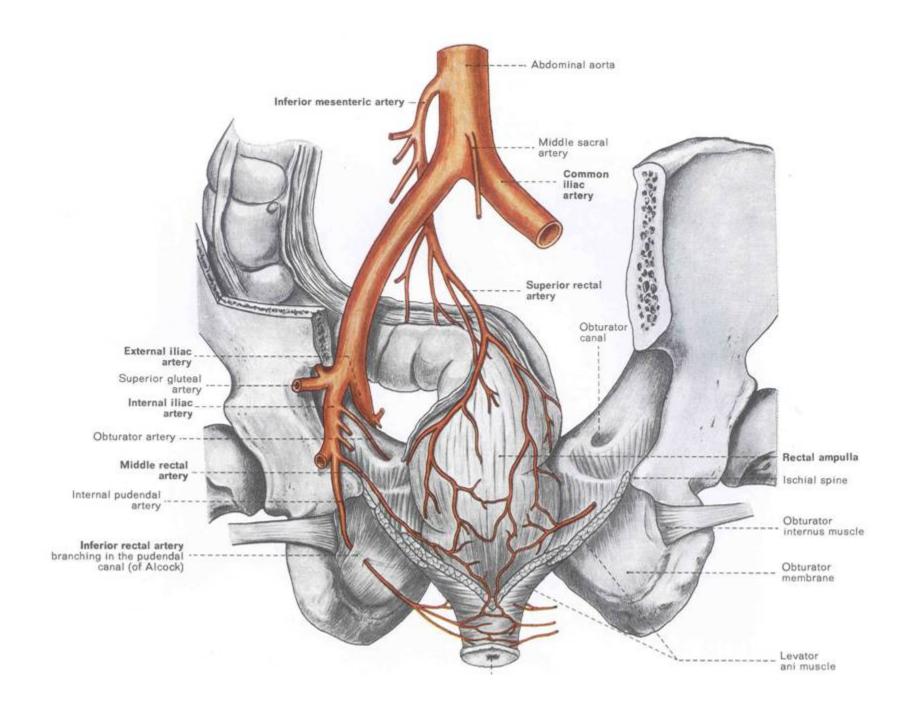


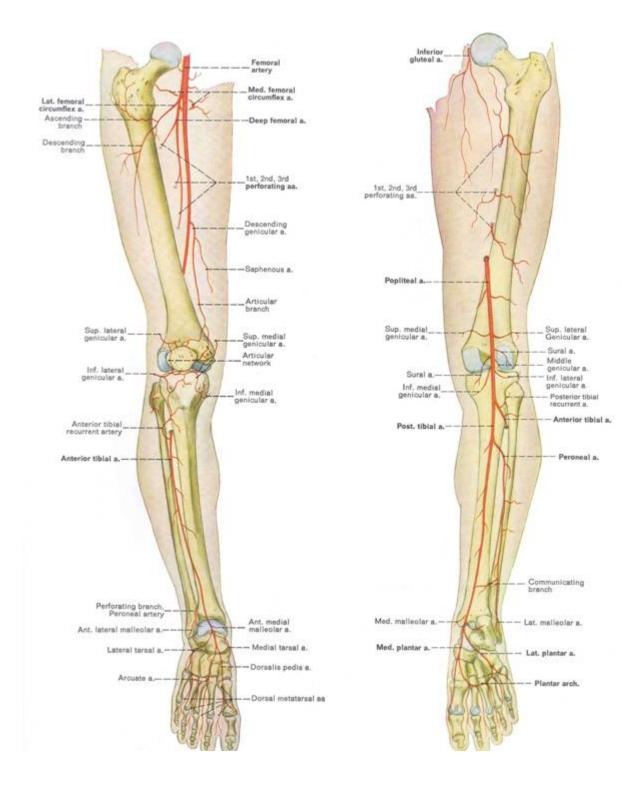


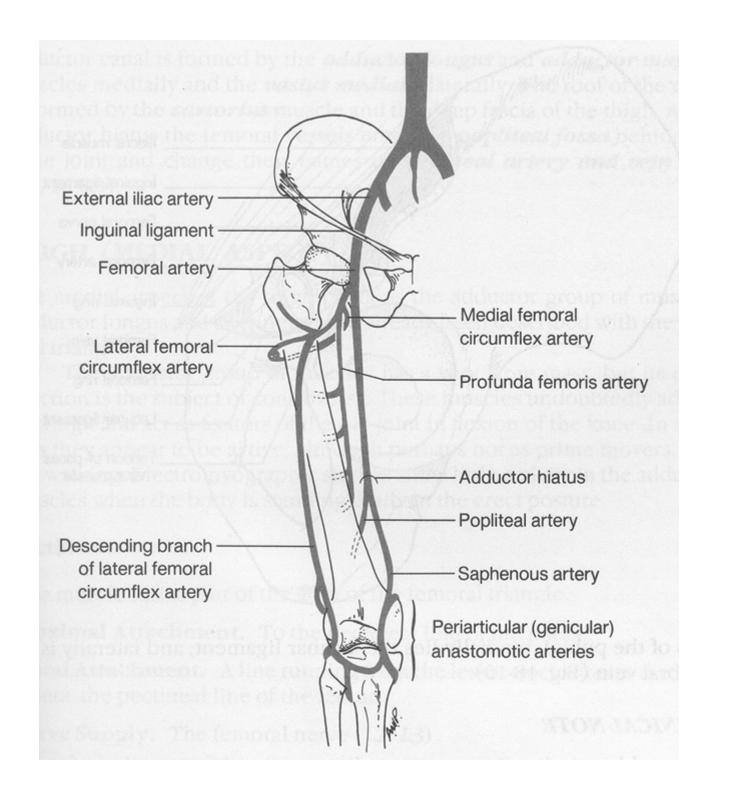
Branches of the Internal Iliac Artery (In order)

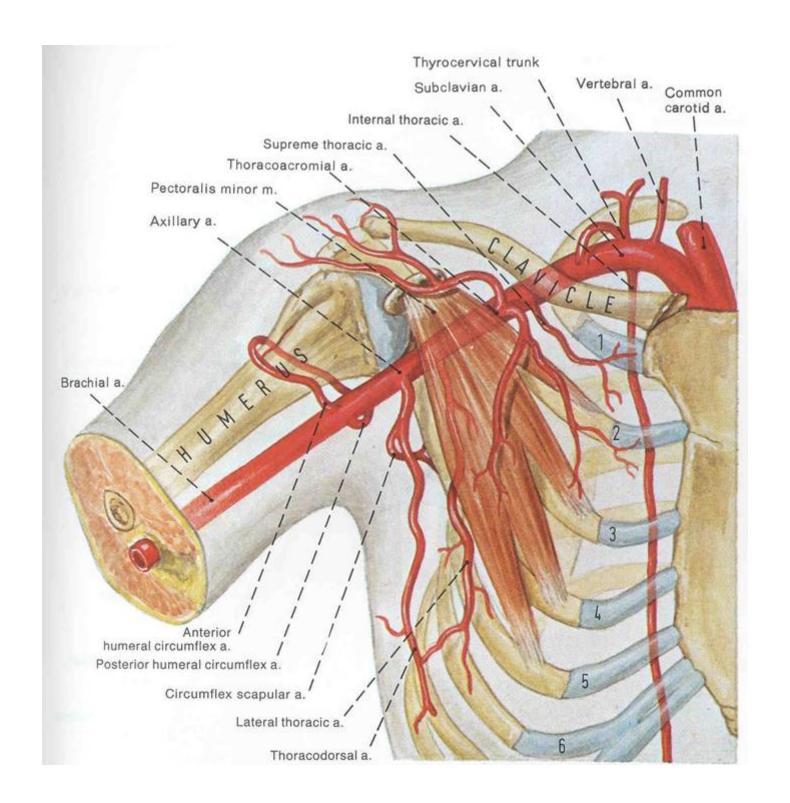


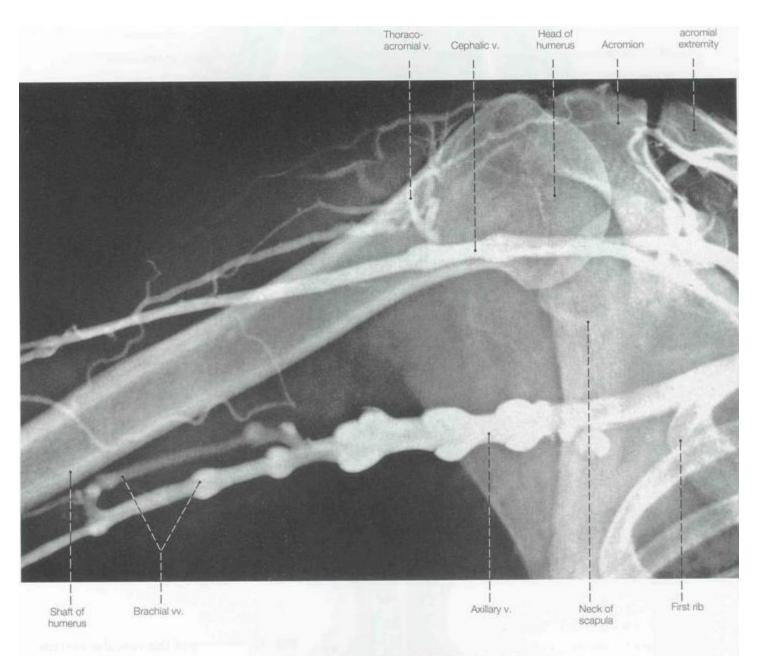
- 1. Iliolumbar
- 2. Lateral sacral
- 3. Superior gluteal
- 4. Inferior gluteal
- 5. Internal pudendal
- 6. Obturator
- 7. Middle rectal
- 8. Inferior vesicle
- 9. Superior vesicle
- 10. The old umbilical artery connects to end of internal iliac.







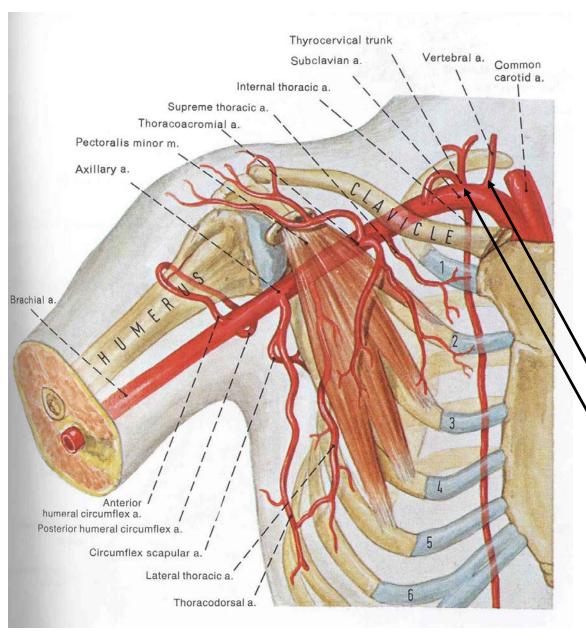




Radiograph (veno- or phlebogram) of the brachial, axillary, and cephalic veins and some of their tributaries, AP projection. Note the succession of valvular segments clearly visible in the axillary vein.

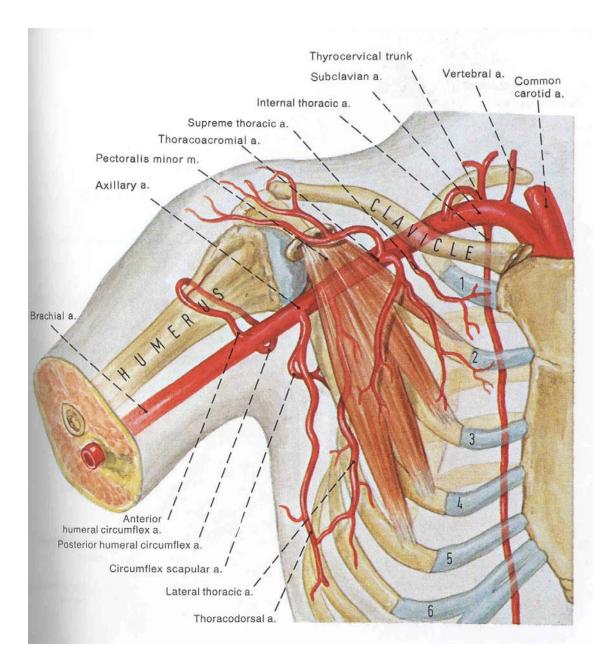
PAIRED ARTERIES OF THE BODY WALL: ARMS AND THORAX

- Subclavian Arteries
- •12 Intercostal Arteries
- •Superior Phrenic Arteries (to diaphragm from above)



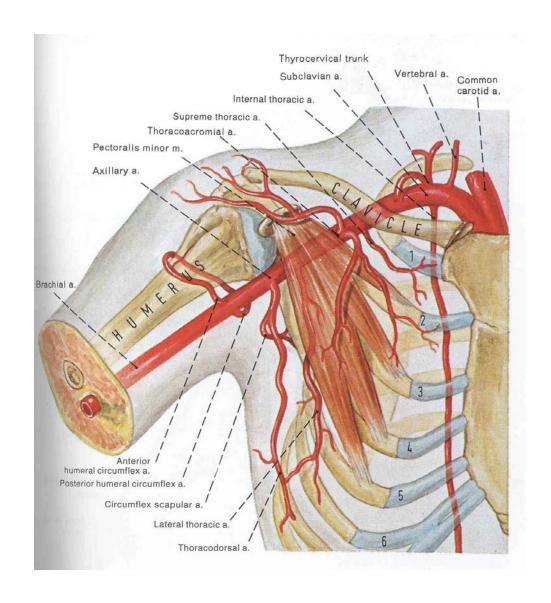
BEFORE it passes the clavicle, the subclavian artery has 2 main branches:

- 1. Vertebral a.
- **\2.** Thyrocervical trunk



Subclavian artery becomes the AXILLARY ARTERY.

It has 6 branches, organized relative to the pectoralis minor muscle.



6 banches of AXILLARY ARTERY.

"1 - 2 - 3"

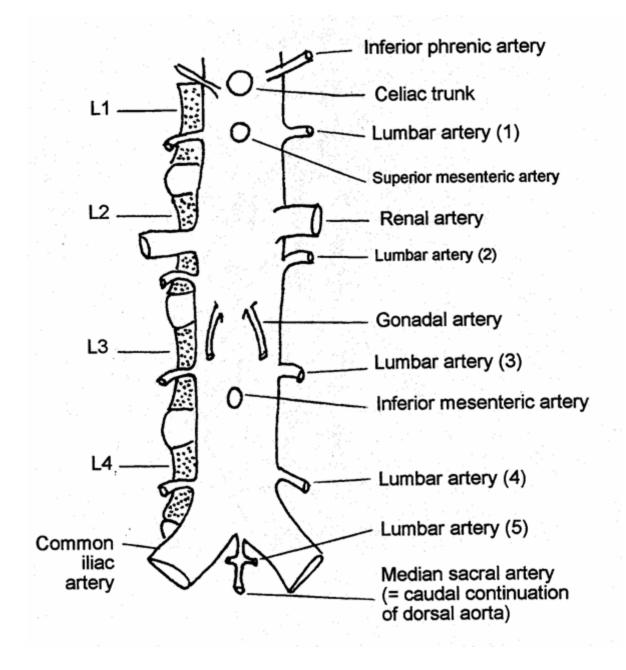
1 before pectoralis minor: supreme thoracic a.

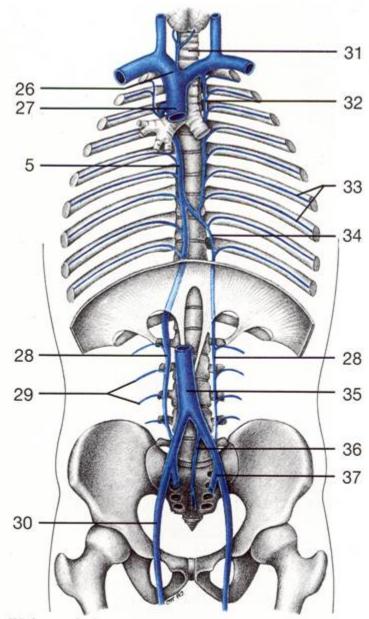
2 deep to pectoralis minor: *thoracoacromial a*. and *lateral thoracic a*.

3 beyond pectoralis minor: anterior humeral circumflex a., posterior humeral circumflex a., and subscapular a.

PAIRED ARTERIES OF THE BODY WALL: ABDOMEN

- •Lumbar arteries (5)
- Renal arteries
- •Gonadal (ovarian, testicular) arteries
- •Common Iliac Arteries; Branches:
 - External Iliac Arteries
 - Internal Iliac Arteries





Veins of the posterior wall of thoracic and abdominal cavity. (Schematic drawing.)

Body wall veins parallel the arteries.

PORTAL SYSTEMS

A circulatory system (set of tubes) with a capillary bed at BOTH ends.

Hepatic Portal System

Foregut: Splenic Vein (= Lienic Vein)

Midgut: Superior Mesenteric Vein

Hindgut: Inferior Mesenteric Vein

All dump into Hepatic Portal Vein, which goes to Liver.

