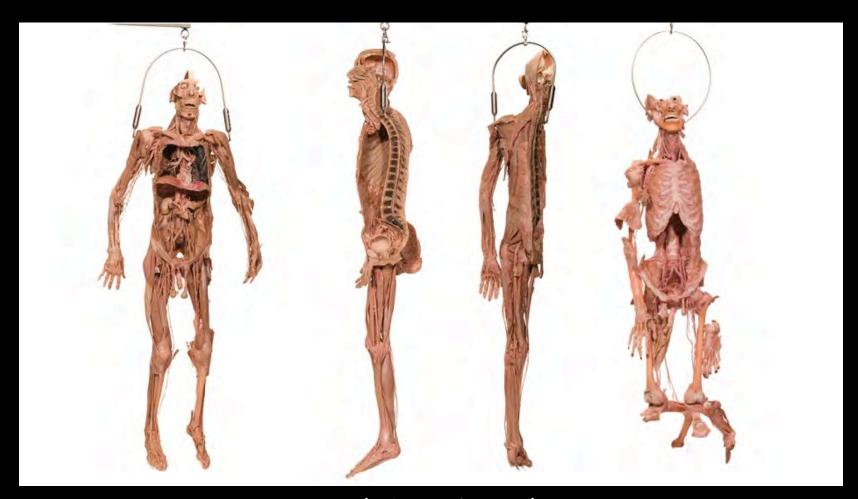
Specimens on Display

10 Oct. 2015

Body 1, Body2, Body3



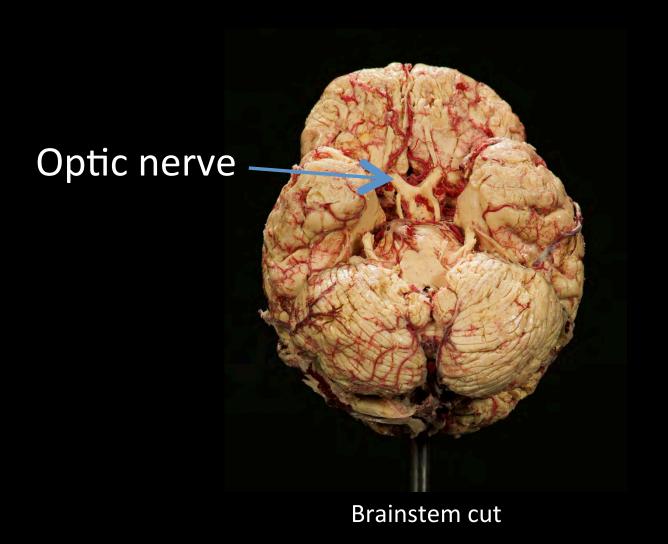
Body 2 Hemisected

Brain - Cranial Nerves

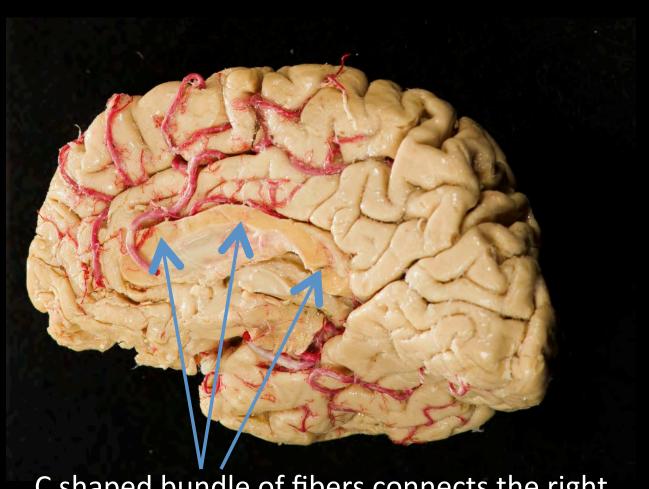


Looks like a walnut and weighs 1500 g

Brain Base



Cerebral Hemisphere (right)



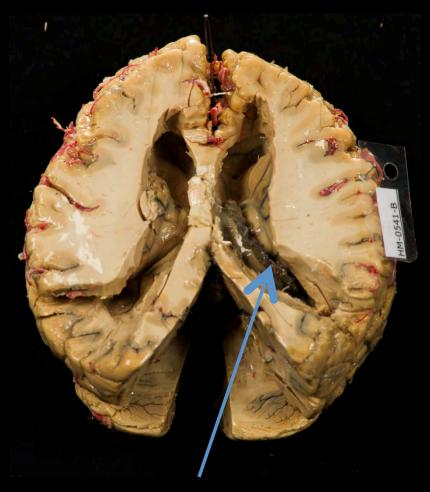
C shaped bundle of fibers connects the right and left part of brain

Cerebral Hemisphere (left)



Part dissected to show insula

Brain – Ventricles



Choroid plexus produces CSF

Midbrain and Brainstem



Skull Cap



Protects the brain

Note the variation in thickness

Wear a Helmet





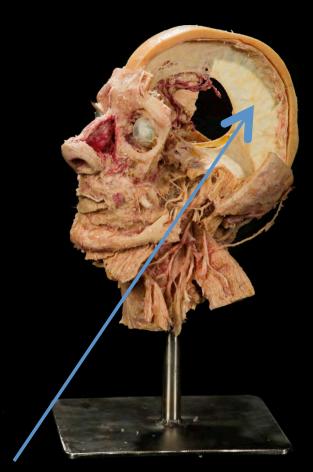
Protect your brain

Tongue, Pharynx



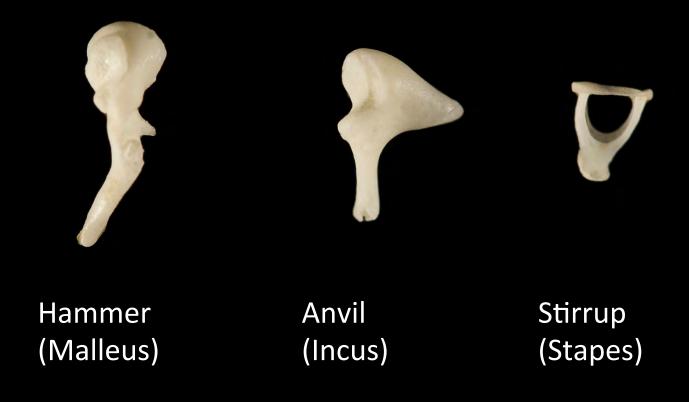
Look in to see the vocal cords

Head and Neck



Falx cerebri - partition between two lobes of brain

Ossicles

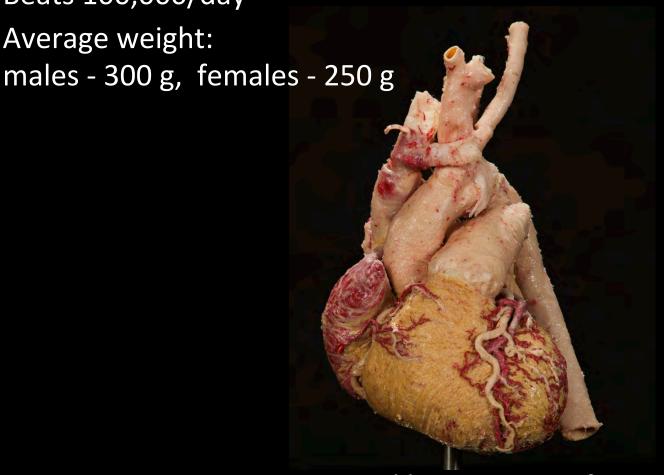


See the smallest bone in the body!

Heart External Features

Beats 100,000/day

Average weight:



Normal heart is size of owners fist What is the most hard working muscle in the body?

Heart Internal Features

Hard working heart!

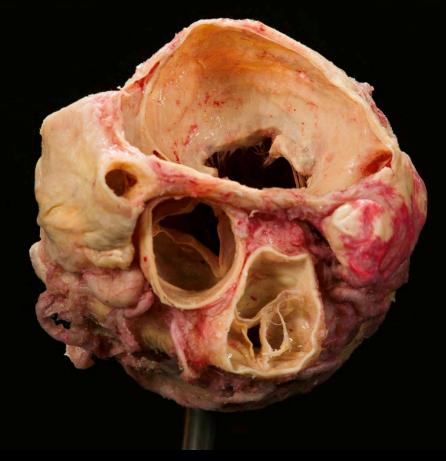
Heart (heart tube) starts beating at 21 days. Fetal circulation is fully functional by 8.5 weeks.



How many holes in a heart?

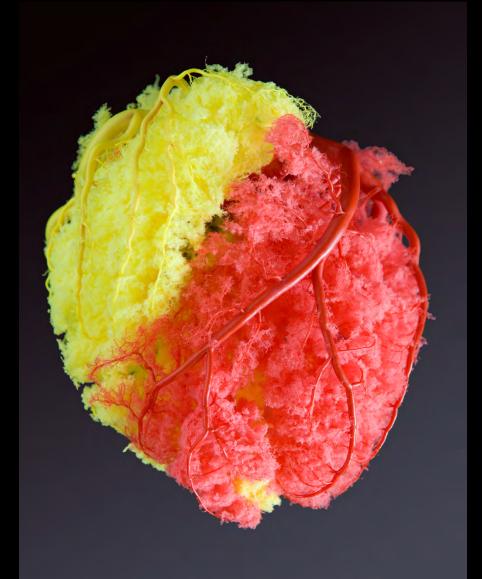
Heart Valves

There are 11 holes in a heart!



Valves allow one way flow of blood

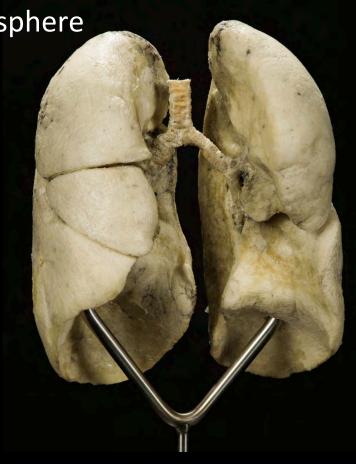
Cast of Coronary Arteries



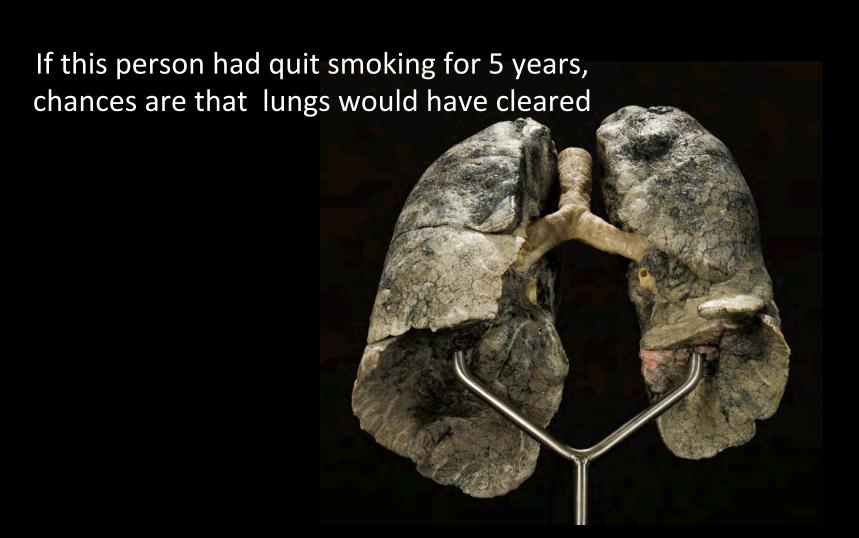
Two coronary arteries injected with dye
Heart muscle dissolved
Left with the cast –
dye where blood was!

Lungs - Healthy

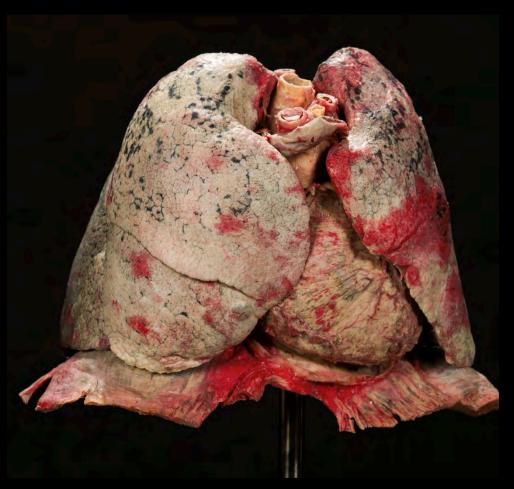
Few black spots from pollutants in the atmosphere



Lungs - Smokers



Lungs, Heart, Diaphragm



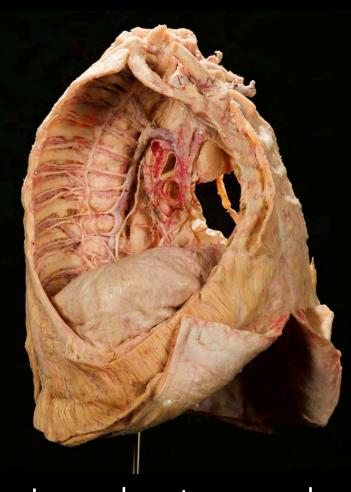
Red material is leaked dye

Diaphragm – Central Tendon, Apertures, Phrenic Nerves



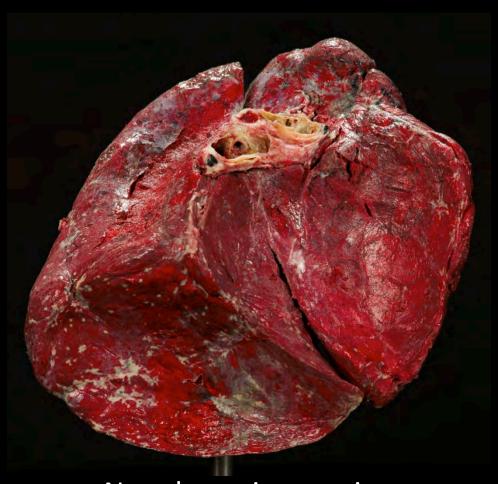
Thin sheet of muscle separates chest and abdomen

Chest Cavity



Lungs, heart removed

Lung Left



Note heart impression

Thoracic Wall



Thoracic Wall



Muscles connecting ribs - intercostal muscles

Esophagus, Stomach, Liver, Bile Duct

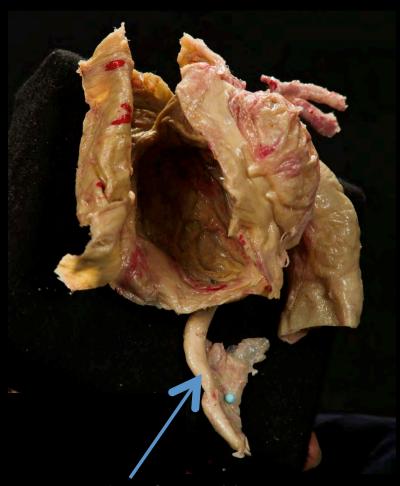


Intestine



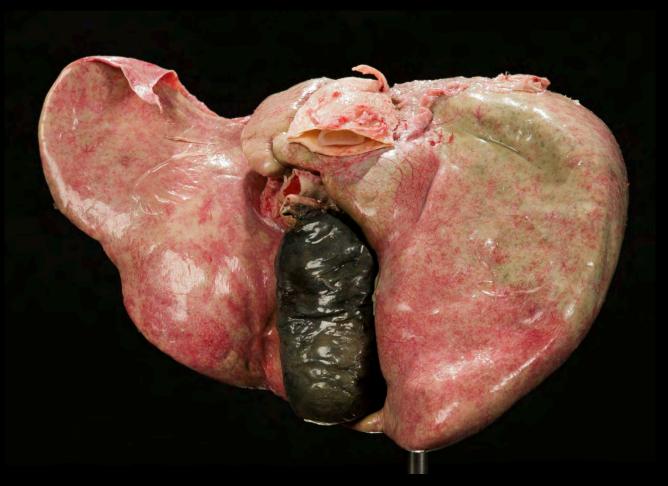
Jejunum, ilium and cecum

Cecum, Appendix



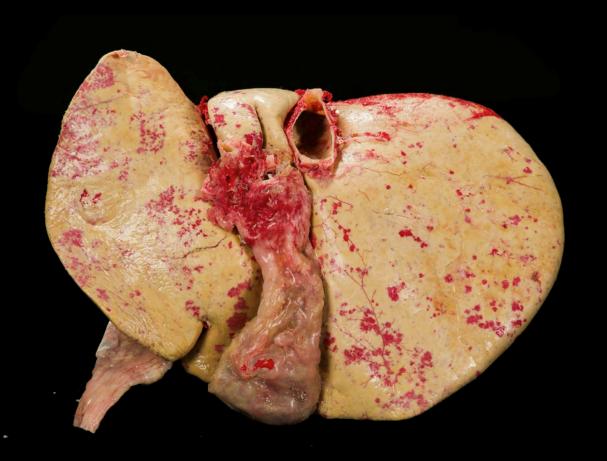
Appendix - finger like projection

Liver



Dark green sac is the gall bladder

Liver



The hole on upper part is the inferior vena cava

Liver section, Gallbladder

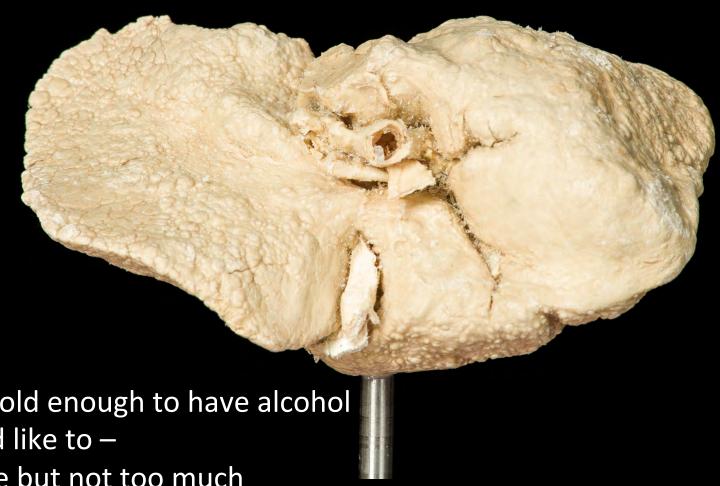


Note bile duct, portal vein and hepatic artery

Normal Liver



Cirrhotic Liver



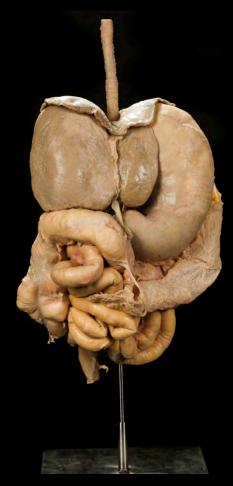
If you are old enough to have alcohol and would like to – have some but not too much

Pancreas, Spleen



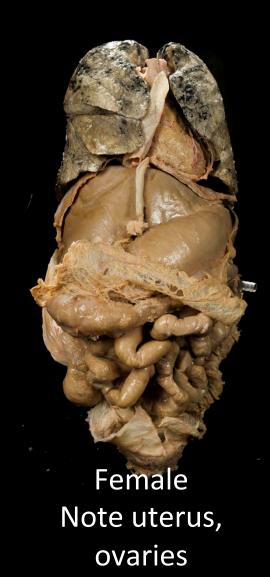
Red material is leaked silicone that was injected into an artery

Gastrointestinal Tract, Liver

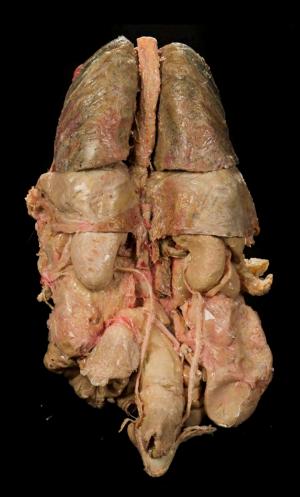


GI tract is 9 m long

Thoracic, Abdominal, Pelvic Viscera



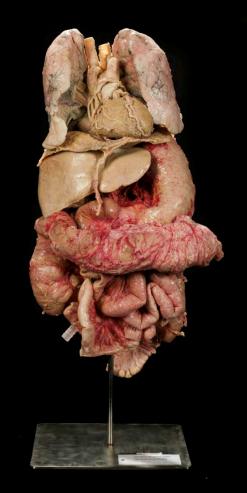
Thoracic, Abdominal, Pelvic Viscera



Back view

Male – note kidneys, ureter, rectum and prostate

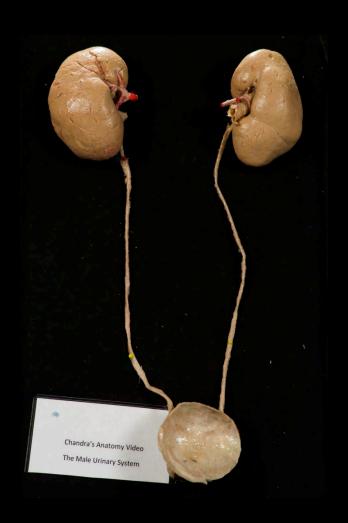
Thoracic, Abdominal Viscera



Kidneys, bladder, uterus were dissected separately

Front view

Kidneys



Note 3 openings in bladder

Male Urinary System



Note aorta, bladder and prostate

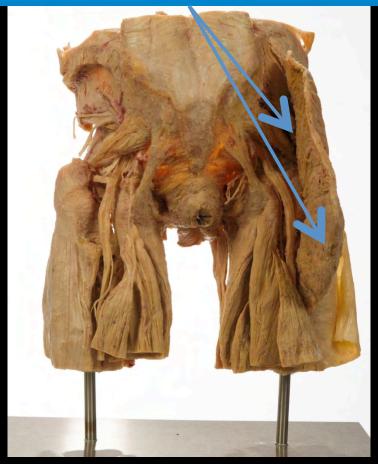
Pelvis, Thigh



Front view

Pelvis, Thigh

You can see the largest muscle in the body (gluteus maximus)



From behind

Artificial Hip X-ray

This piece of metal weighs 500 g

Left Knee



From behind

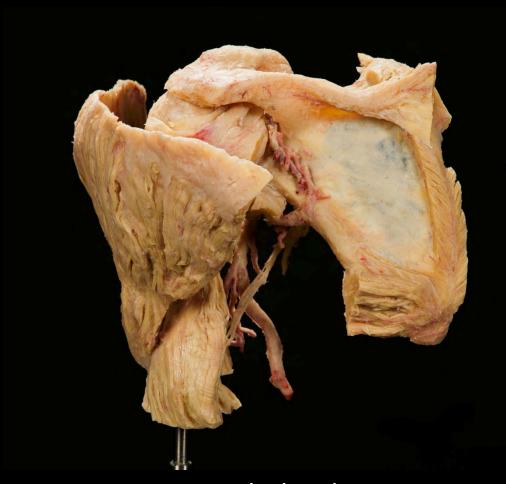
Right Knee

Note ligaments (ACL, PCL) and meniscus



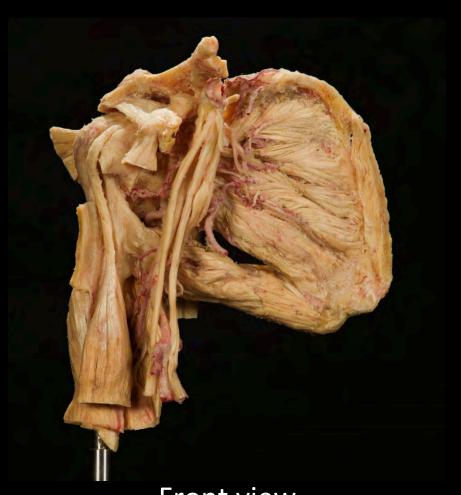
Front view

Left Shoulder



From behind

Right Shoulder



Front view

Left Upper Limb



Nerves and deep muscles

Elbow, Forearm

A membrane connects the two bones



Anterior = Front



Posterior = Back

Hand Skin Removed





Hand Tendons



Hand Tendons, Nerves

One nerve goes through tunnel, The other outside.

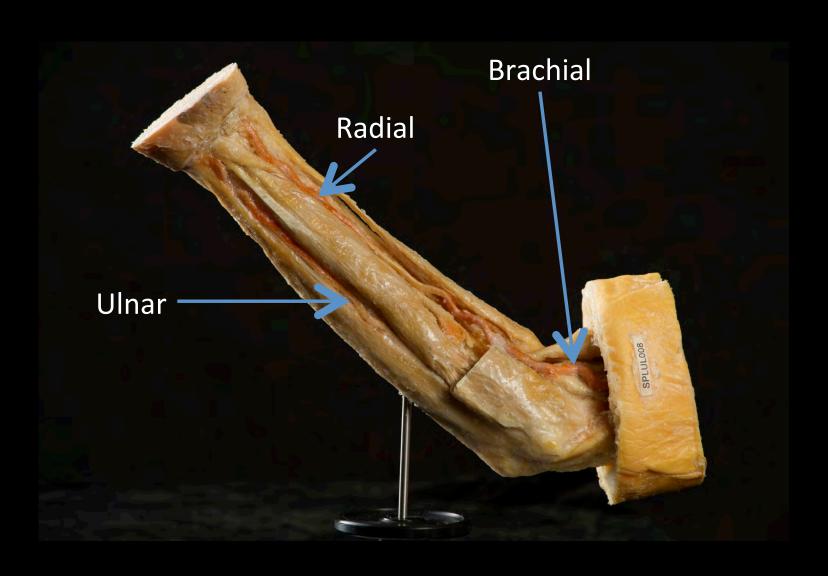
Hence in carpal tunnel syndrome pain is more on one side.



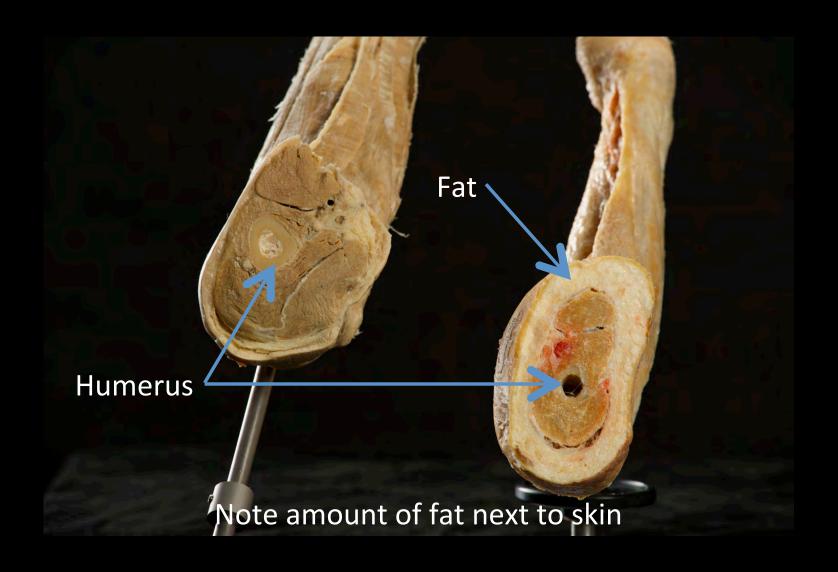
Hand – Finger Amputated



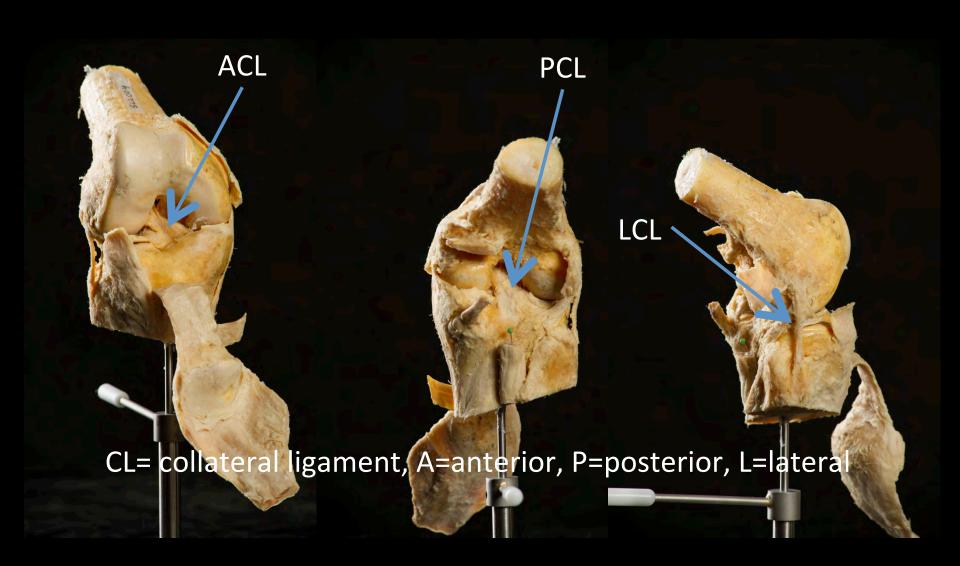
Brachial Artery Branches



Arms – Cross Section



Knee Joint



Leg and Foot – Lateral View



Leg and Foot Medial View

Tibia = shin bone _____ Not covered by muscles

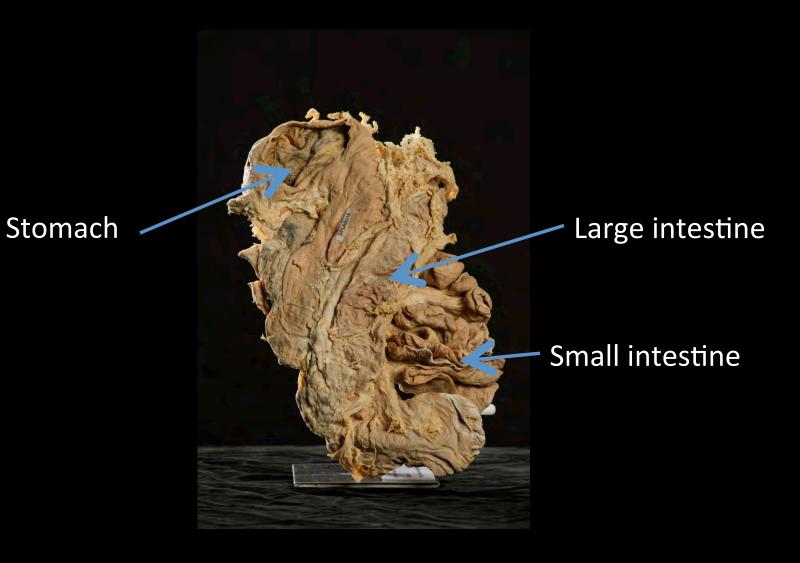


Foot

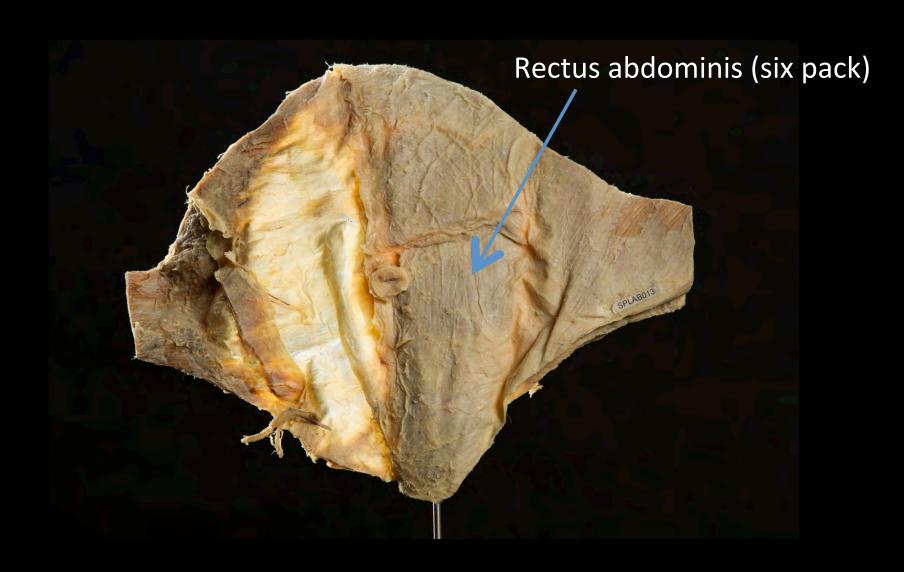
Ensure your shoes fit your feet perfectly.



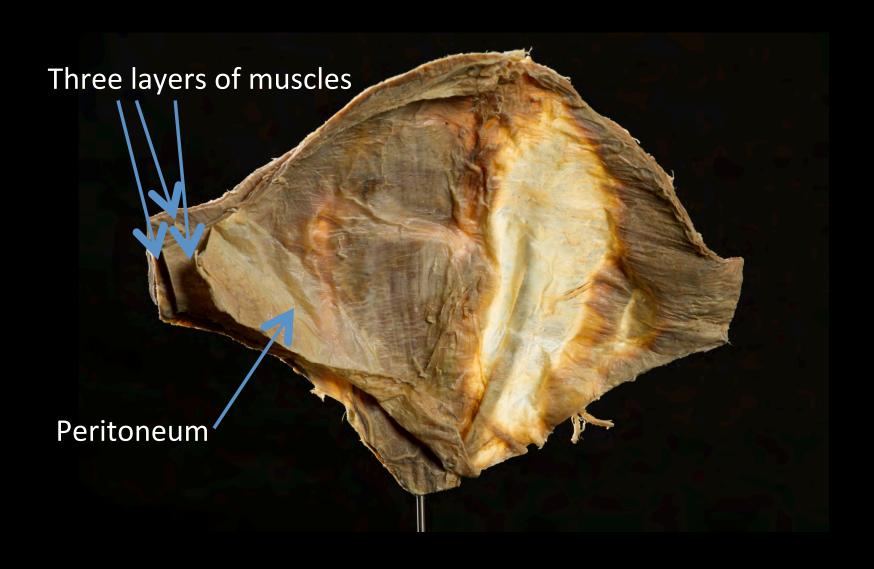
Abdominal Organs



Abdominal Wall



Abdominal Wall

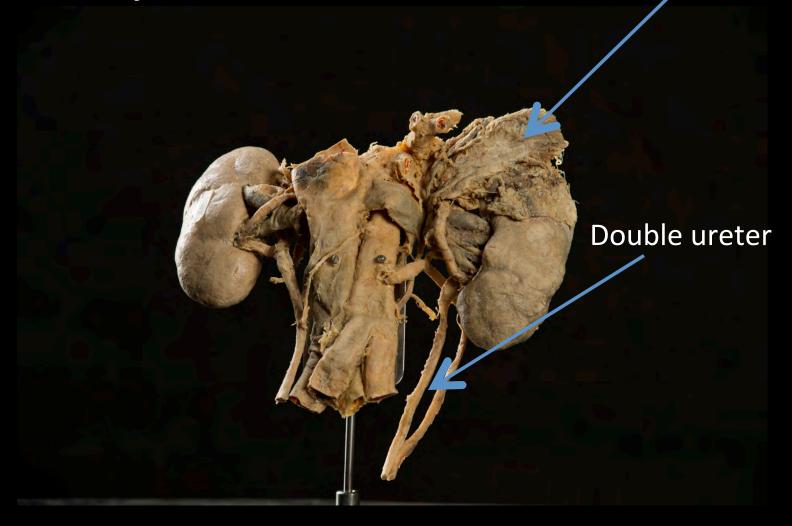


Duodenum, Pancreas and Spleen

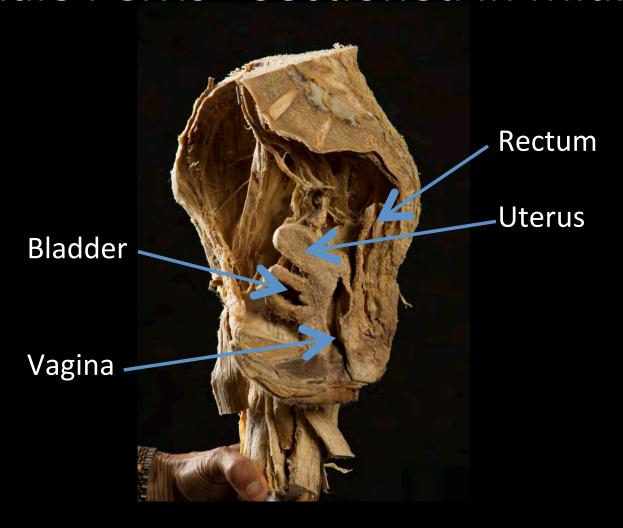


Pancreas produces enzymes to help with digestion and insulin to help control blood sugar.

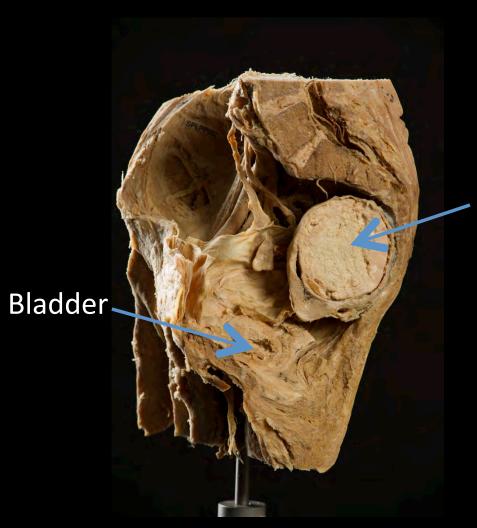
Kidneys, Vessels, Ureters, Adrenal



Female Pelvis - Sectioned in Midline

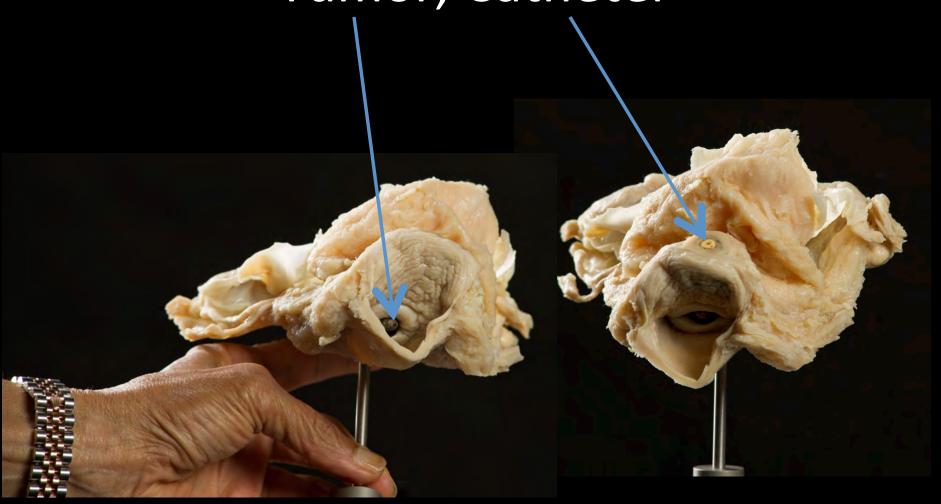


Female Pelvis - Sectioned

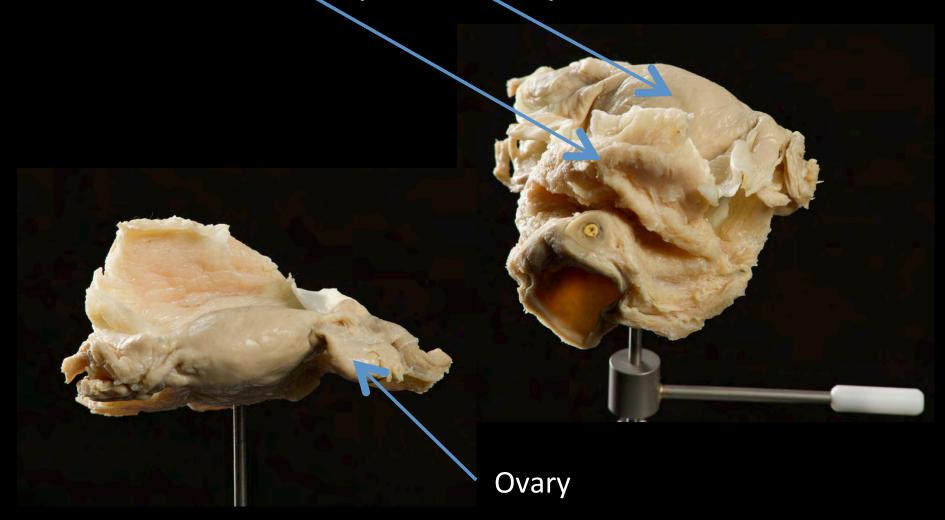


Tumor in uterus

Tumor, Catheter



Bladder, Uterus, Ovaries

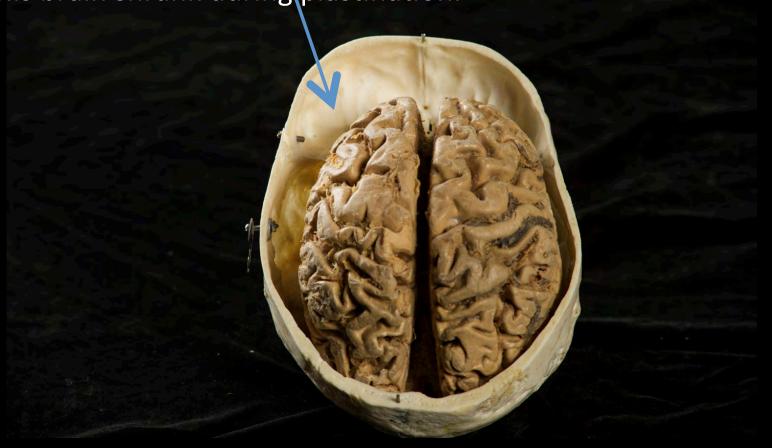


Skull Protects Brain



Brain in Skull

Normally there is no such space between the brain and skull. This brain shrank during plastination.

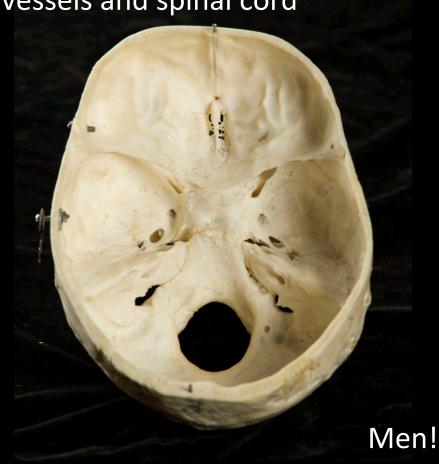


Cranial Cavity

Holes for nerves, vessels and spinal cord

Who has a thicker skull – men or women?

Thickness of skull varies from person to person and in the same person

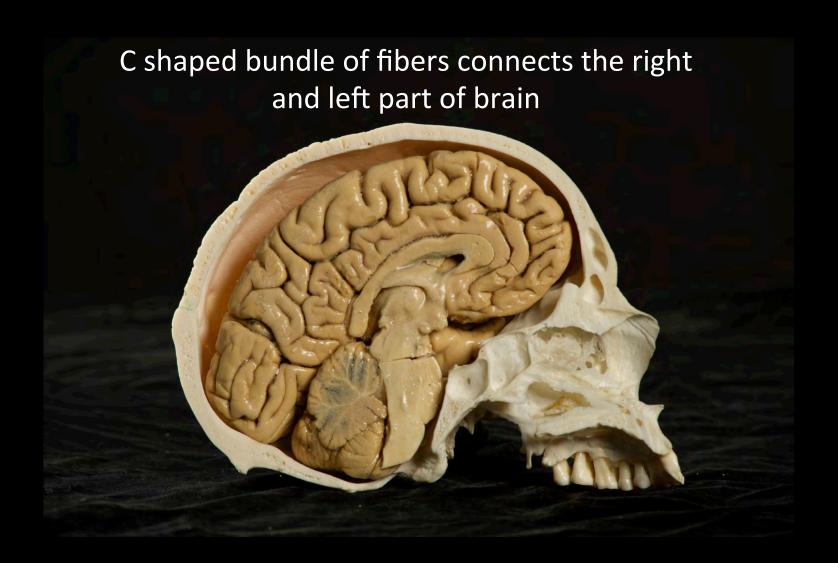


Skull Lateral View

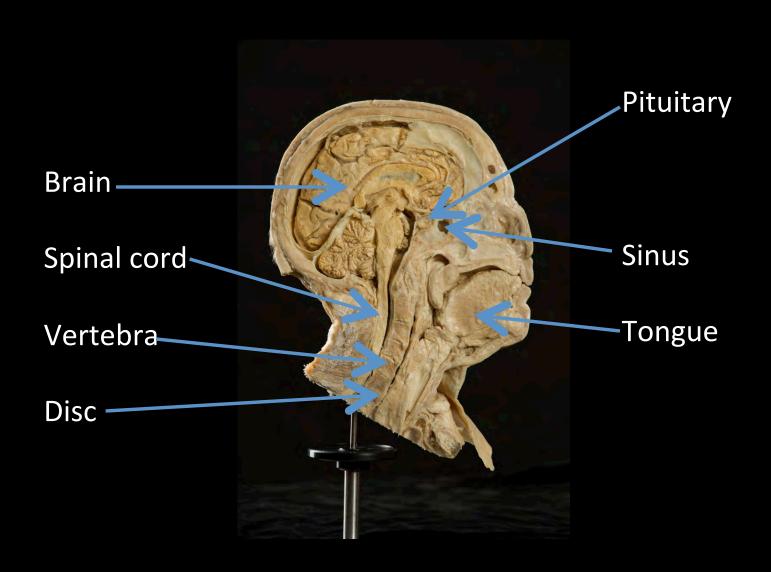
Parts are very thin – can see the light coming through



Half Brain in Skull



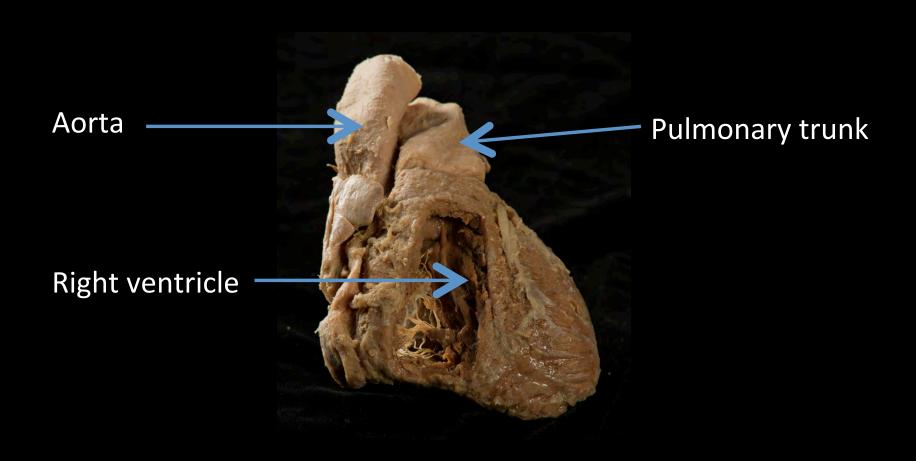
Half Head



Heart with Pericardium

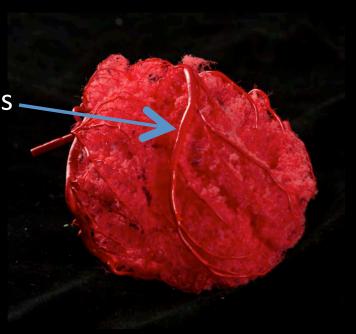
SVC = superior vena cava

Heart



Cast of Coronary Arteries

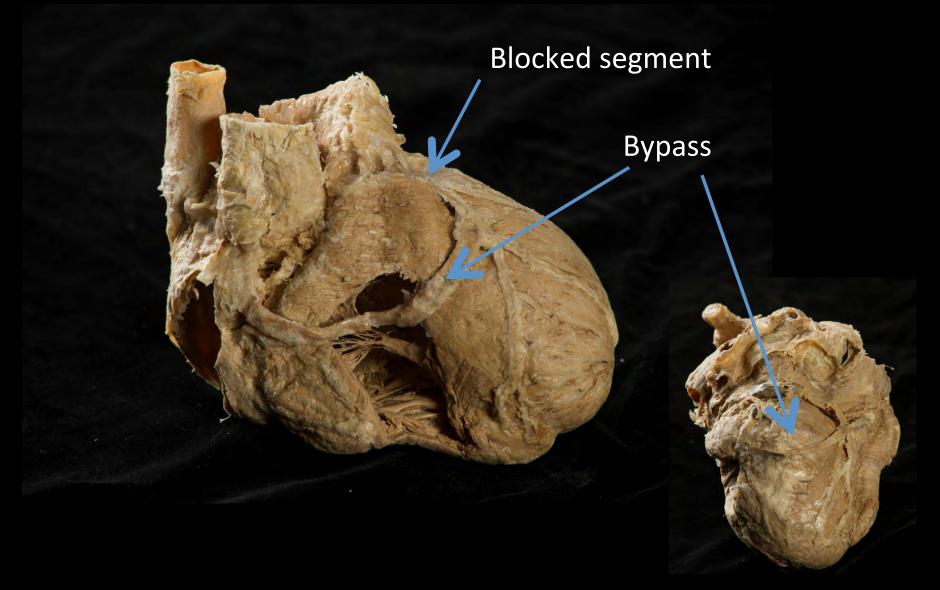
Largest branch of coronary arteries Artery most commonly blocked



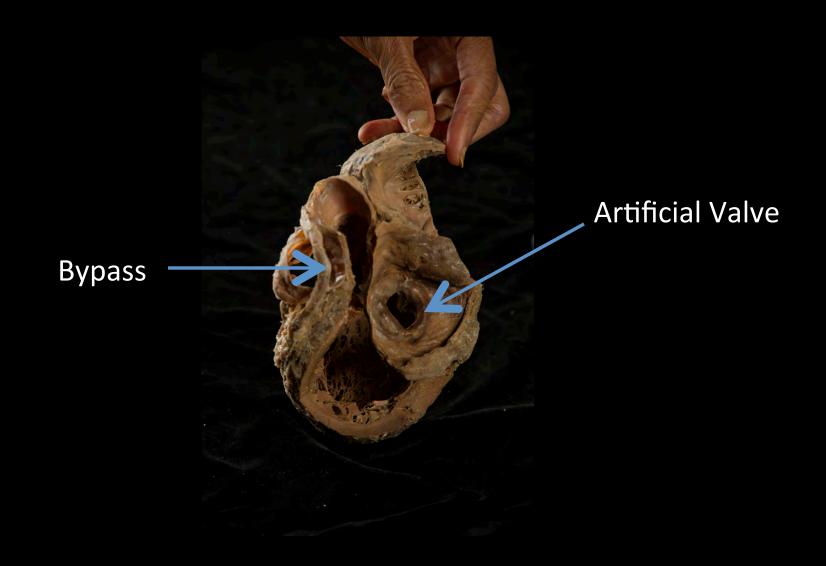
Heart and Coronary Cast



Heart with Coronary Bypass



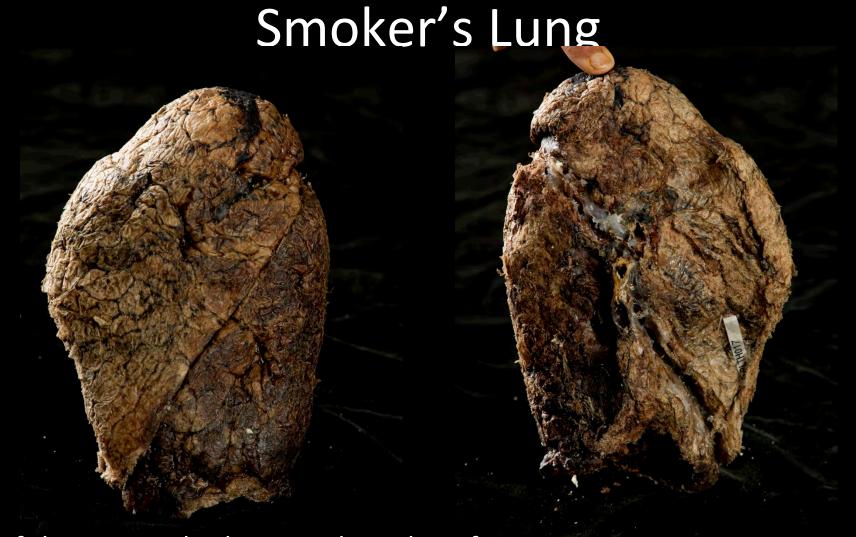
Heart with Bypass and Artificial Valve



Healthy Lung

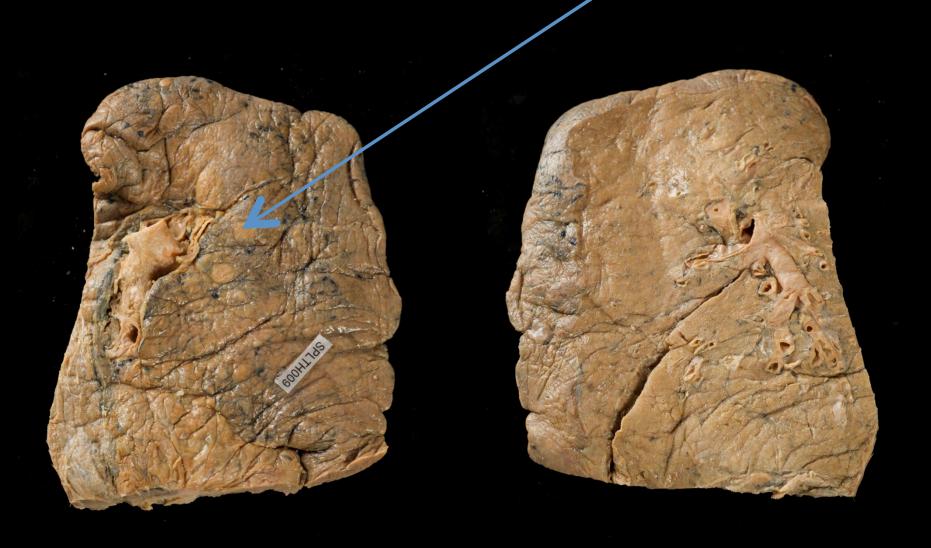
Black spots due to pollutants



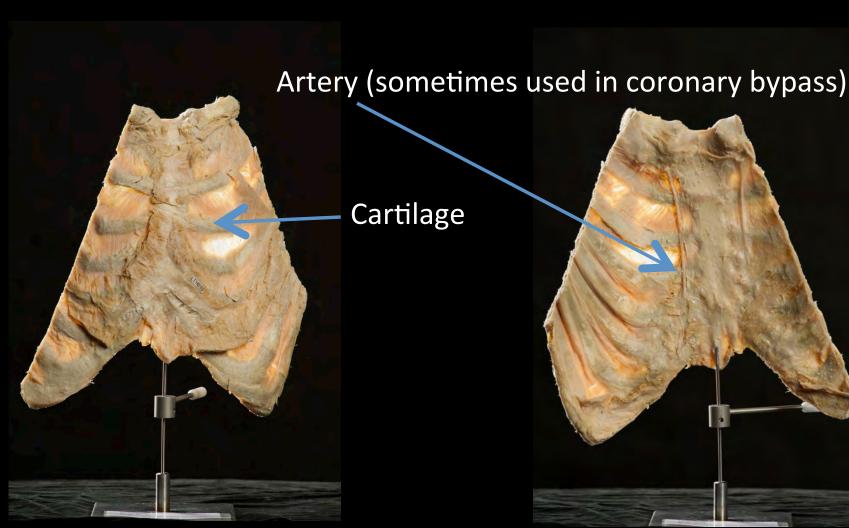


If this person had stopped smoking for 5 years, chances are the lung would have cleared!
While there is life – there is hope!

Lung Slice with Tumor



Chest Wall

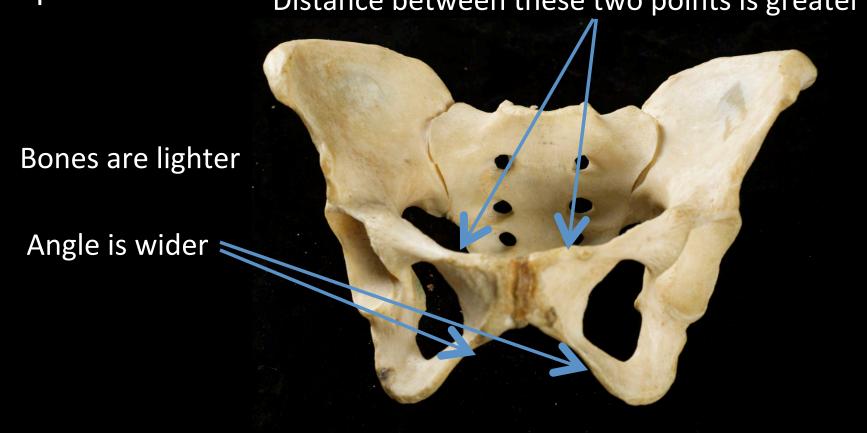


Anterior = Front

Posterior = Back

Bony Pelvis - Female

As compared to male: Distance between these two points is greater



Vertebral Column

Cartilaginous disc separates most of the vertebrae



Holes for nerves and blood vessels

Bones of Foot and Ankle

How many bones in one foot?



Ankle Joint

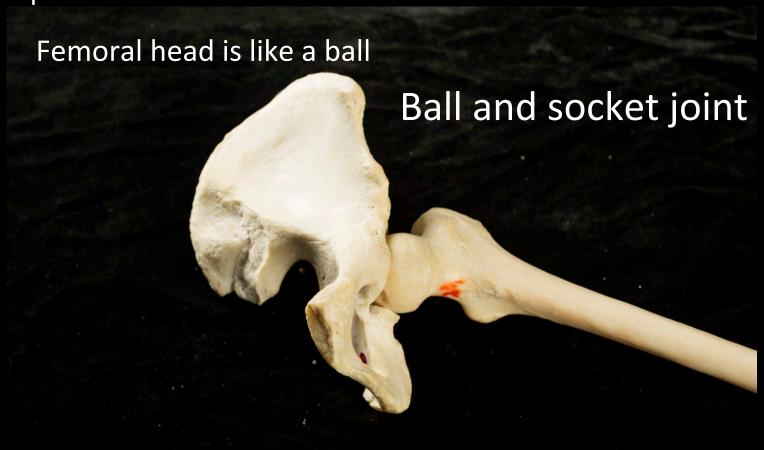


Femur



Hip Joint

Hip bone has a socket



Hand and Wrist

Which has more bones – hand or foot?

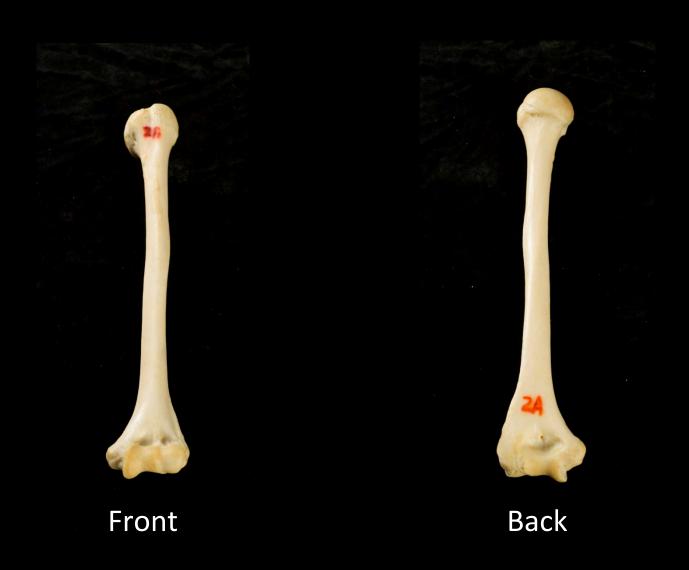


Hand – 8 wrist bones, Foot - 7 ankle bones

Radius and Ulna



Humerus



Shoulder Joint



Ball and socket joint

Scapula – Shoulder Blade





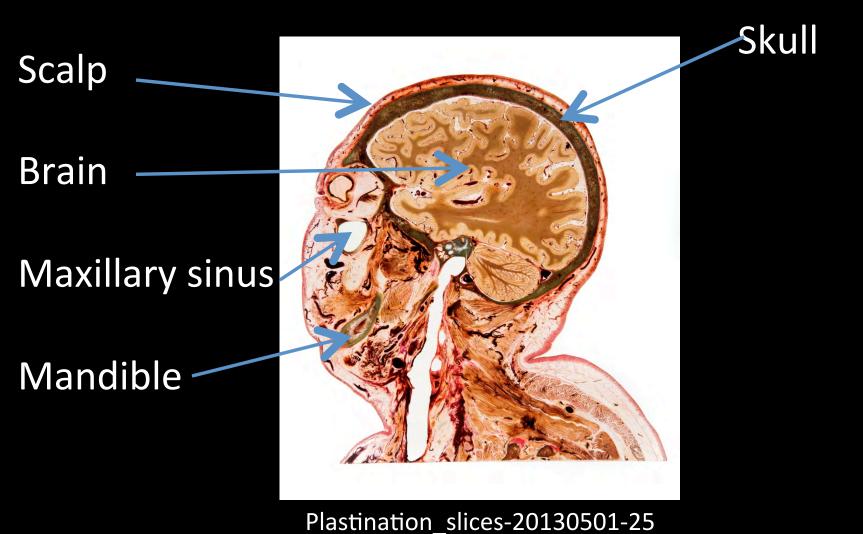
Clavicle = Collar Bone



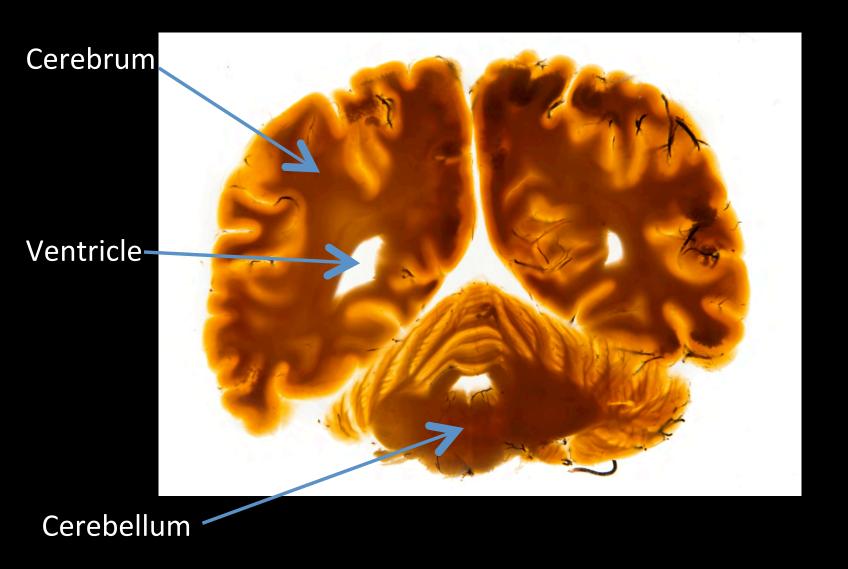
Most commonly fractured bone in the body
The only bony connection between upper limb and thorax



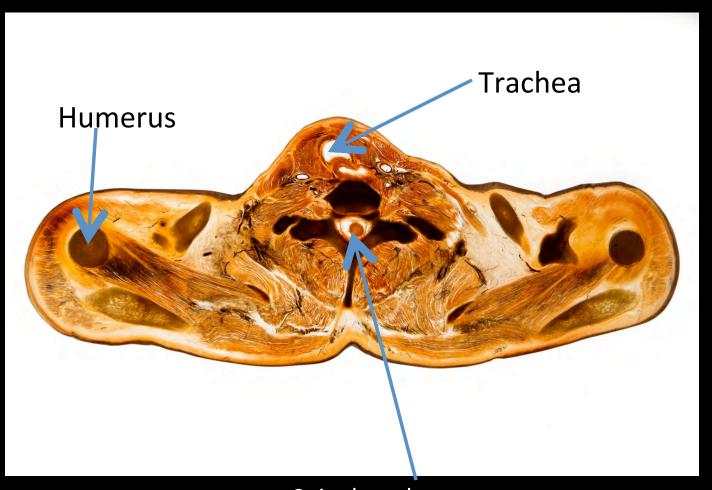
Head Sagittal Section



Coronal Section Brain

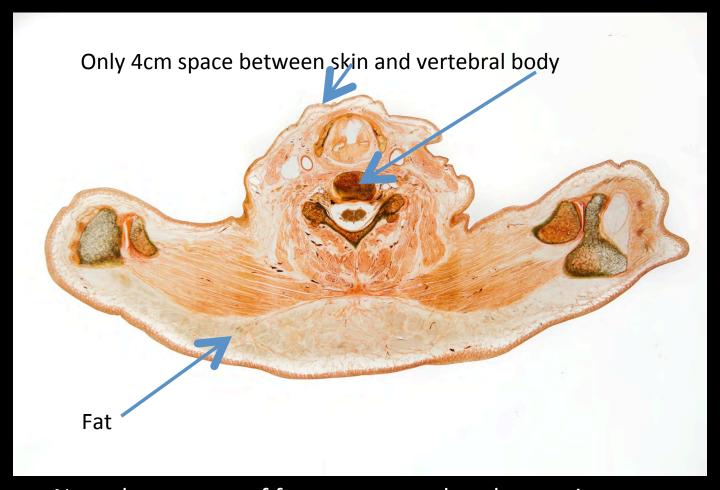


Shoulders and Neck



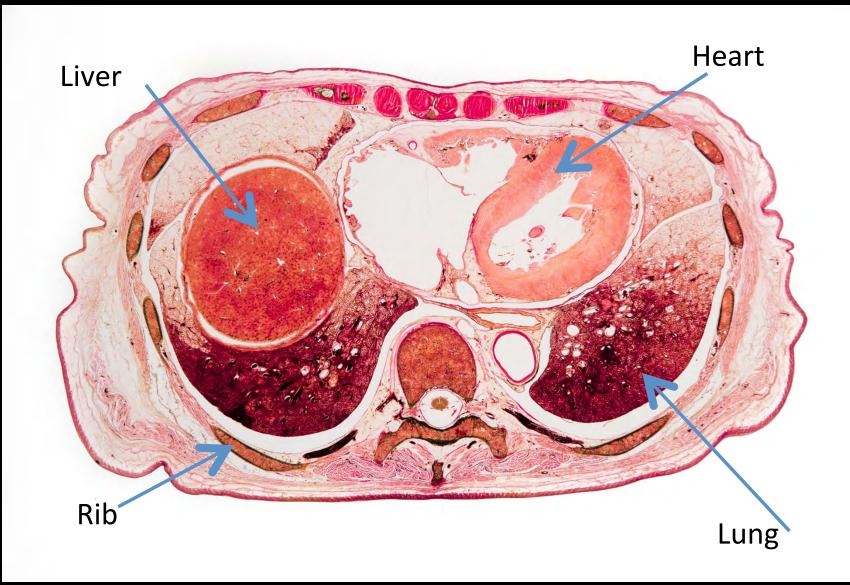
Spinal cord

Shoulders and Neck

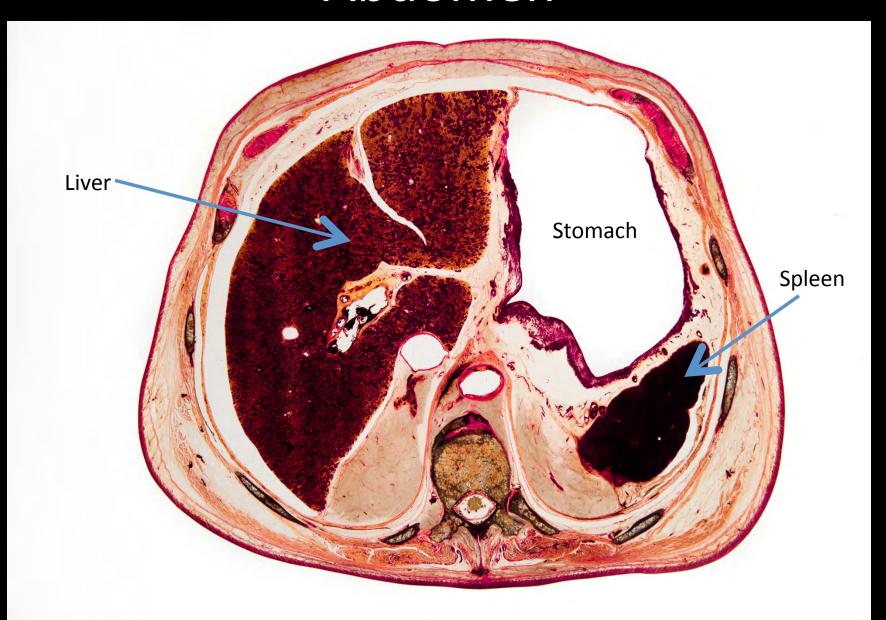


Note the amount of fat as compared to the previous one

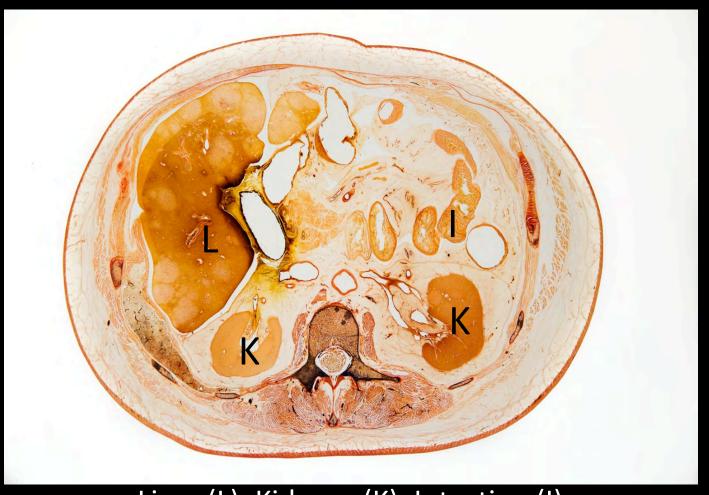
Thorax



Abdomen

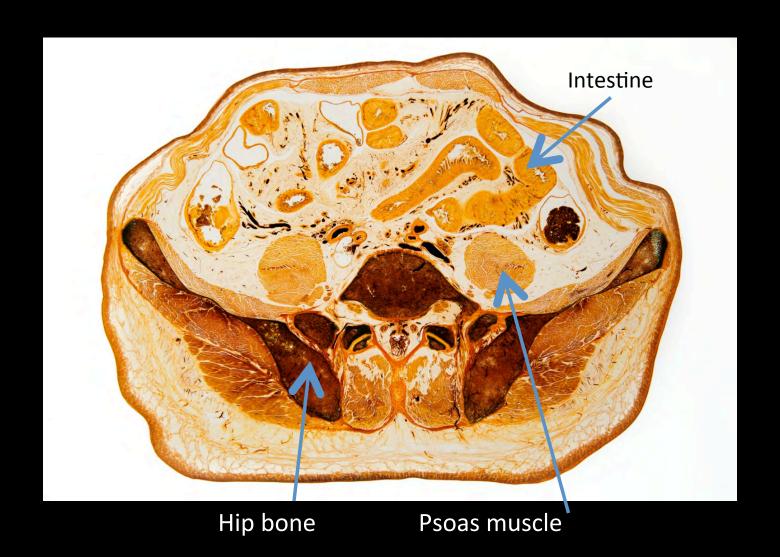


Abdomen Horizontal Section

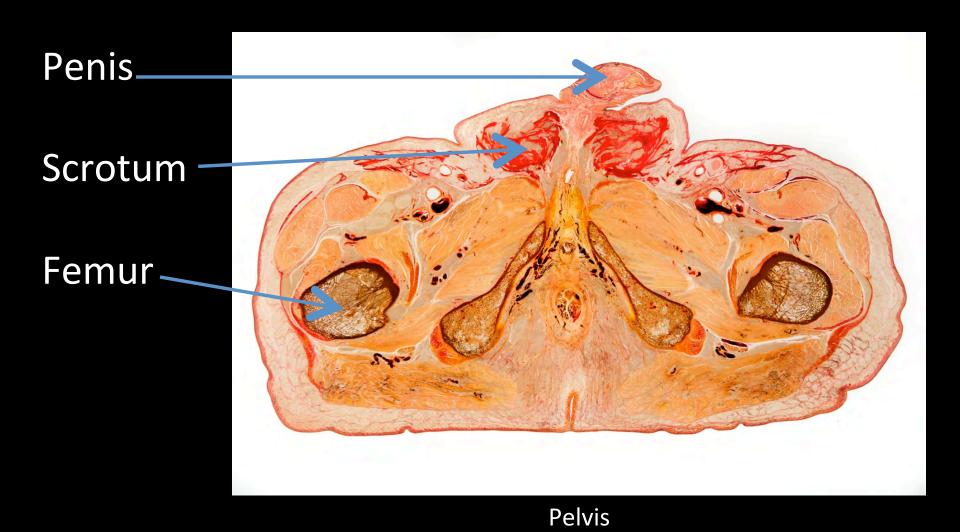


Liver (L), Kidneys (K), Intestine (I)

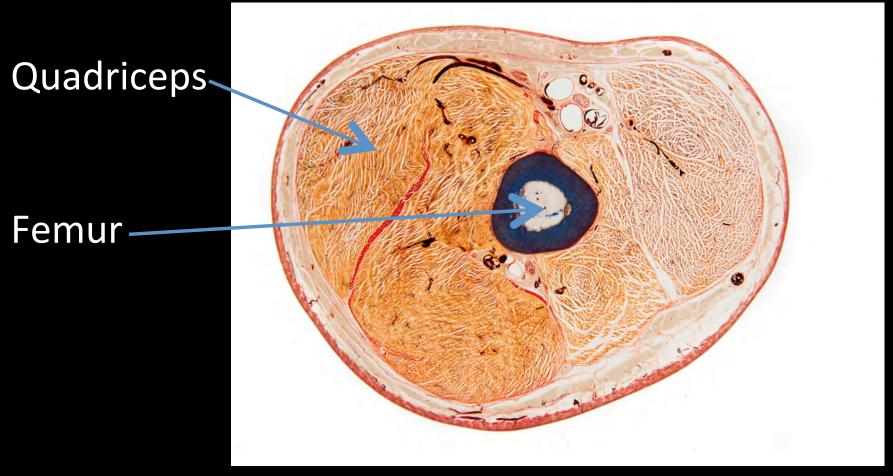
Horizontal Section Abdomen



Male Pelvis Horizontal Section

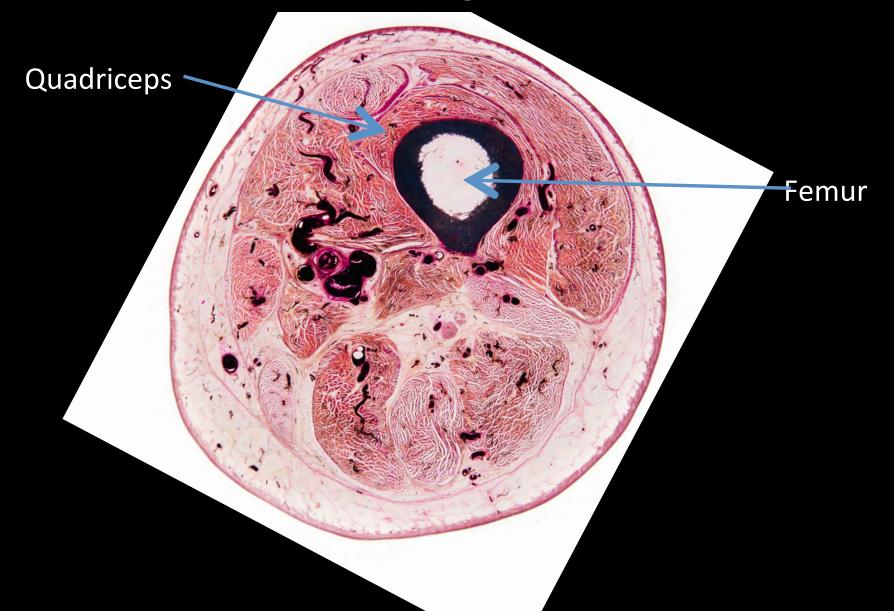


Thigh

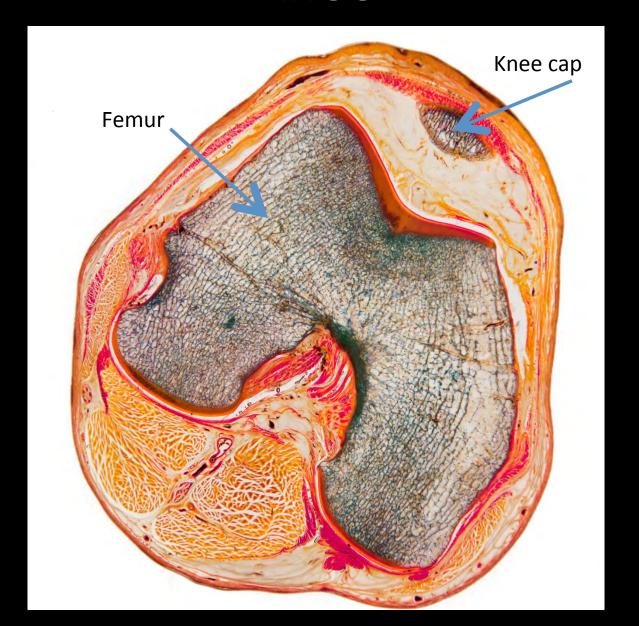


Plastination_slices-20130501-09

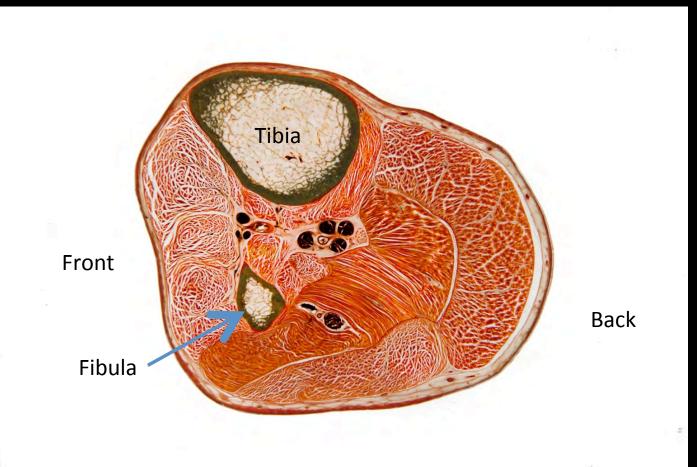
Thigh



Knee

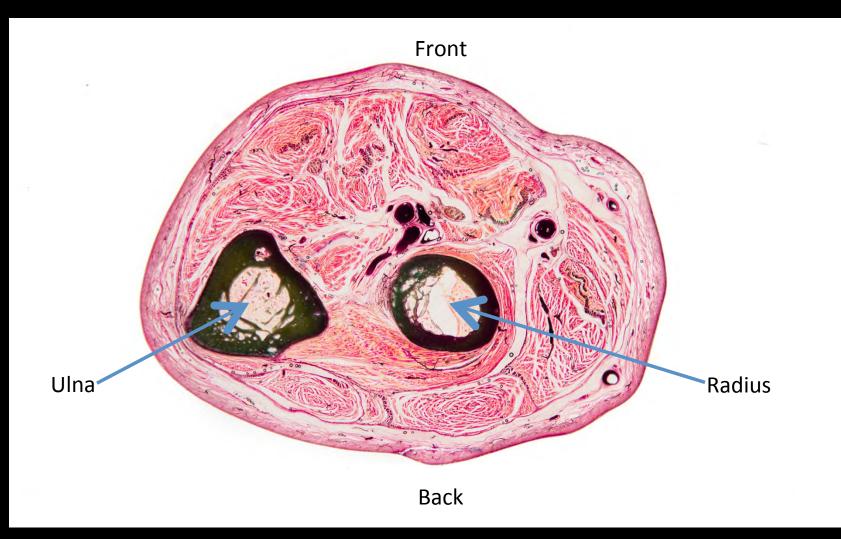


Leg

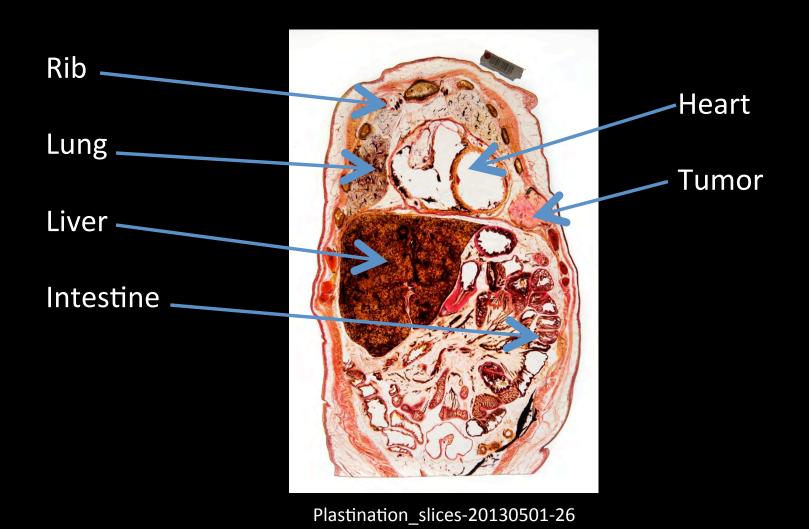


Plastination_slices-20130501-19

Fore Arm



Thorax, Abdomen Coronal Section



Section of Horse Leg



Fish

