

Fetal Pig Dissection



The fetal pig is a *mammal* like us so it has many structures that are similar to ours.

The anatomy class will analyze the structure and function of the external and internal parts of the fetal pig relating it to human structures.

Dissection Safety

- Follow all instructions given by your teacher.
- Inform your teacher of any illness as a result of exposure to chemicals used in specimen preparation.
- Avoid contact with preservative chemicals. Rinse the specimens completely before dissection.
- Know where the eyewash fountain is if needed.

Dissection Safety

- Wear chemical-splash safety goggles to prevent the splashing of any chemicals into the eyes.
- Properly mount dissection specimens to dissecting pan. Do not dissect a specimen while holding it.
- Handle scalpels or razor blades (safety-edged) with extreme care.
- Wear chemical-splash safety goggles to prevent the splashing of any chemicals

Dissection Safety

- Always cut away from your body and away from others.
- Never ingest specimen parts.
- Never remove specimens or specimen parts from the classroom—until the dissection is completed all parts of the dissection must remain within the dissecting pan.
- Properly dispose of dissected materials.
into the eyes.

Dissection Safety

- Properly dispose of dissected materials.
- Store specimens as directed by your teacher.
- Clean up the work area and return all equipment to the proper place when the dissection is completed.
- Wash hands with soap and water after each dissection.

Overview of Tools

- Scalpel
- Dissecting Tray
- Probe
- Pins
- Elastic Bands

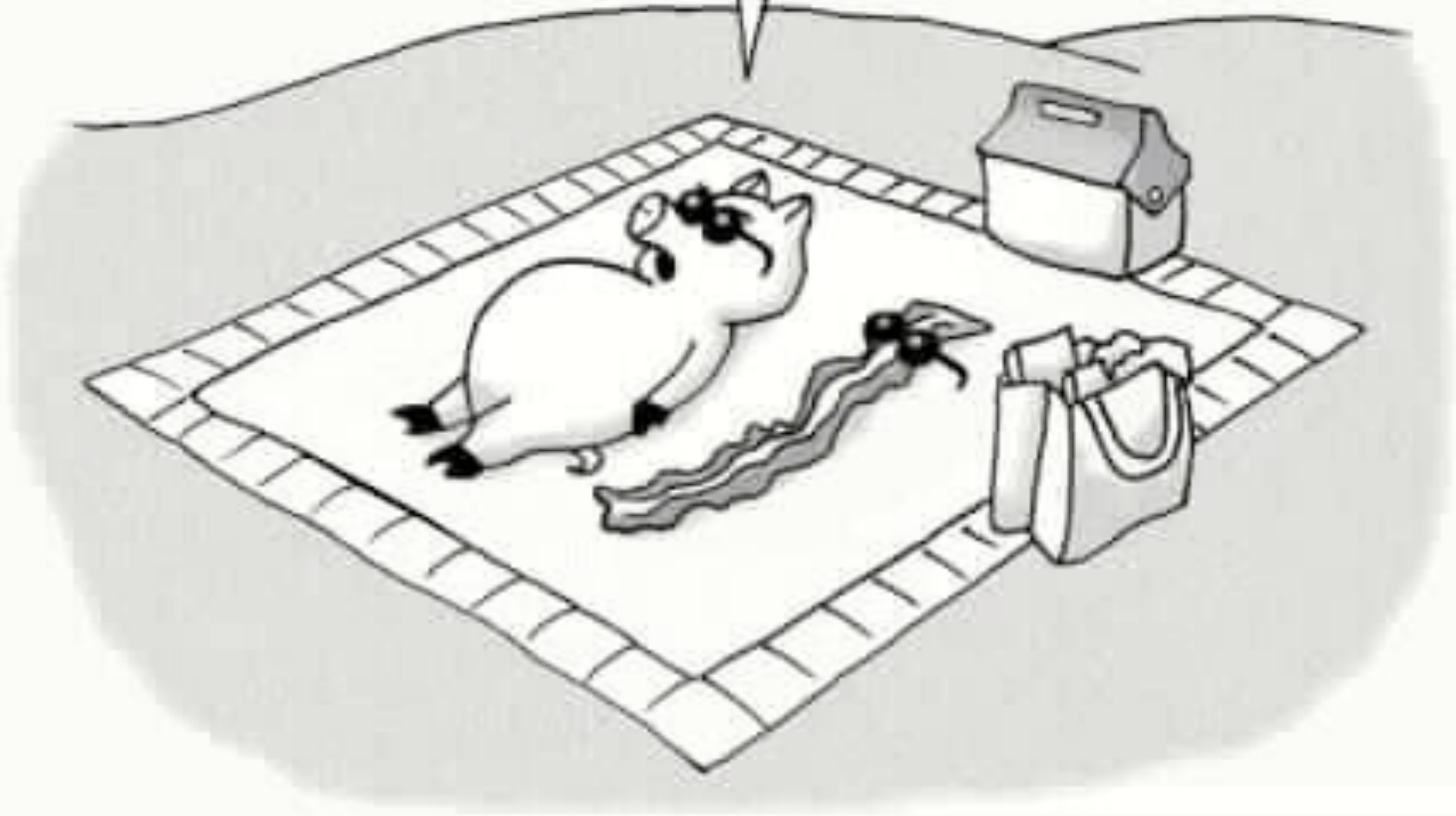
Lab 1-External structures:

- In this lab, you will:
 - Locate internal structures and state the functions of those structures.





MAYBE NEXT TIME YOU'LL
TRY A LITTLE SUNSCREEN...



Procedure:

You will be assigned a partner, a pan, and a dissection kit (It is your responsibility to clean and dry your kit and pan each day. Also, clean your table. It will be checked and points removed if it is not.)



At the appointed time, you will pick up a pig from the bucket. You will use string and tape to label so that you can remember which pig is yours when it is returned to the bucket. Get the same pig each day.

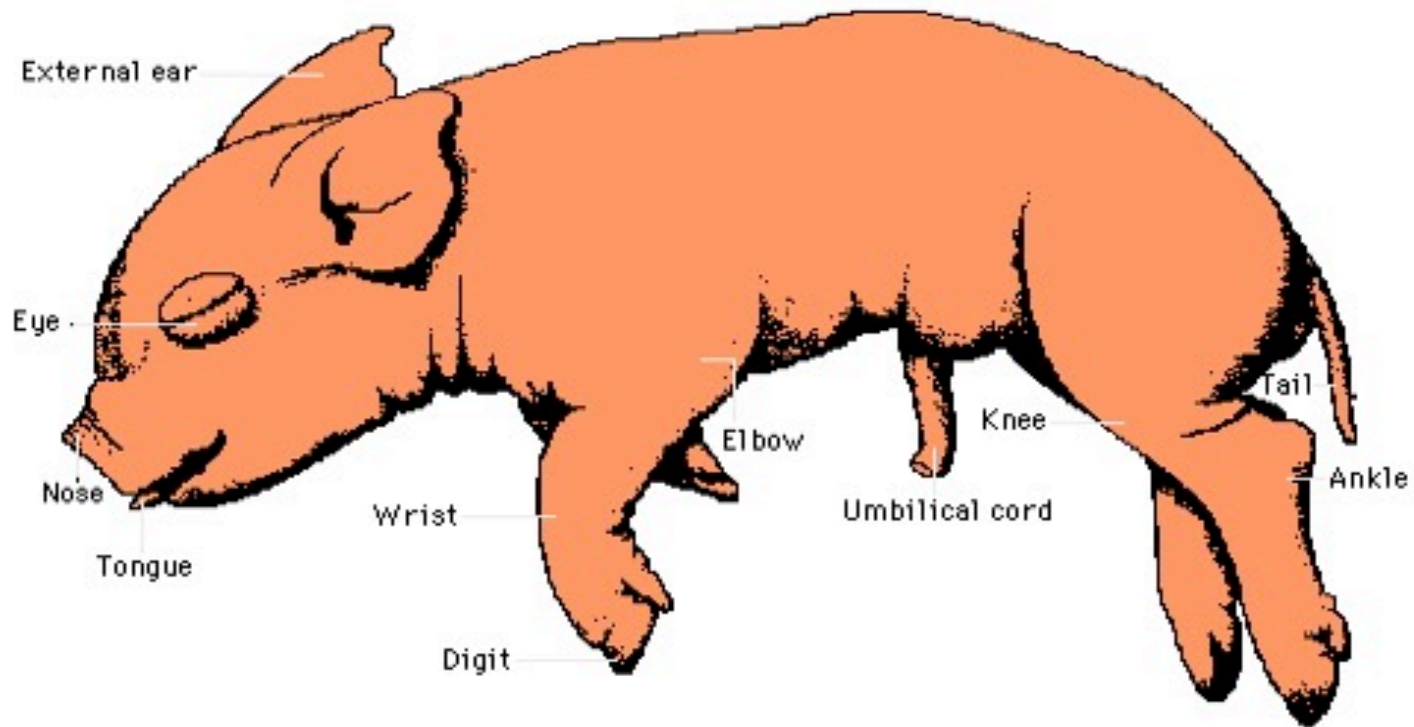
Make sure you stay at your assigned table until told to put your pig up. No horse play. This is a time for learning not just socializing.

Lab Rundown:

- Using the lab manual you were given, complete the dissection. You will be quizzed orally on 5 different structures.
- Day 2, you will be tested on the location of the structures as well as any information you were asked on the lab sheet.

External pig parts:

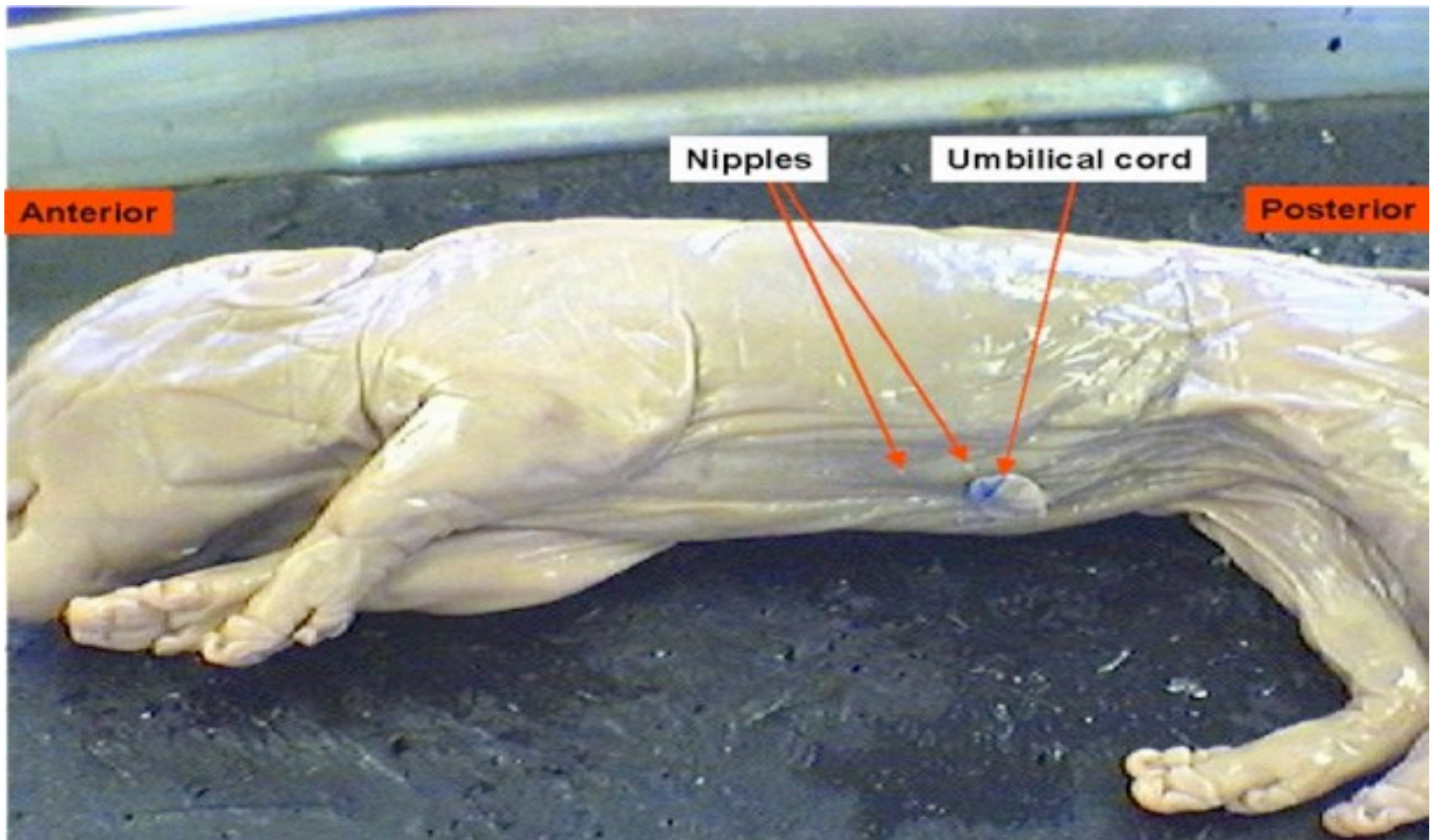
EXTERNAL ANATOMY



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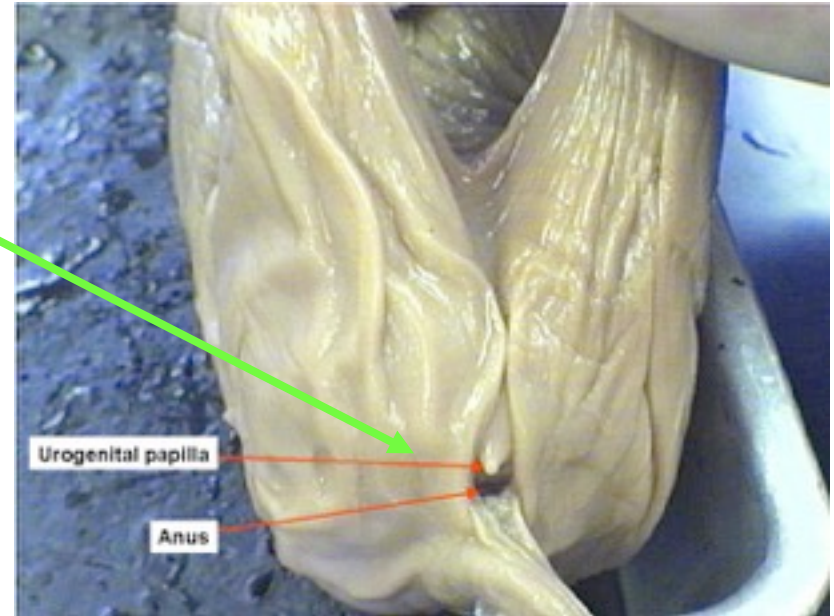
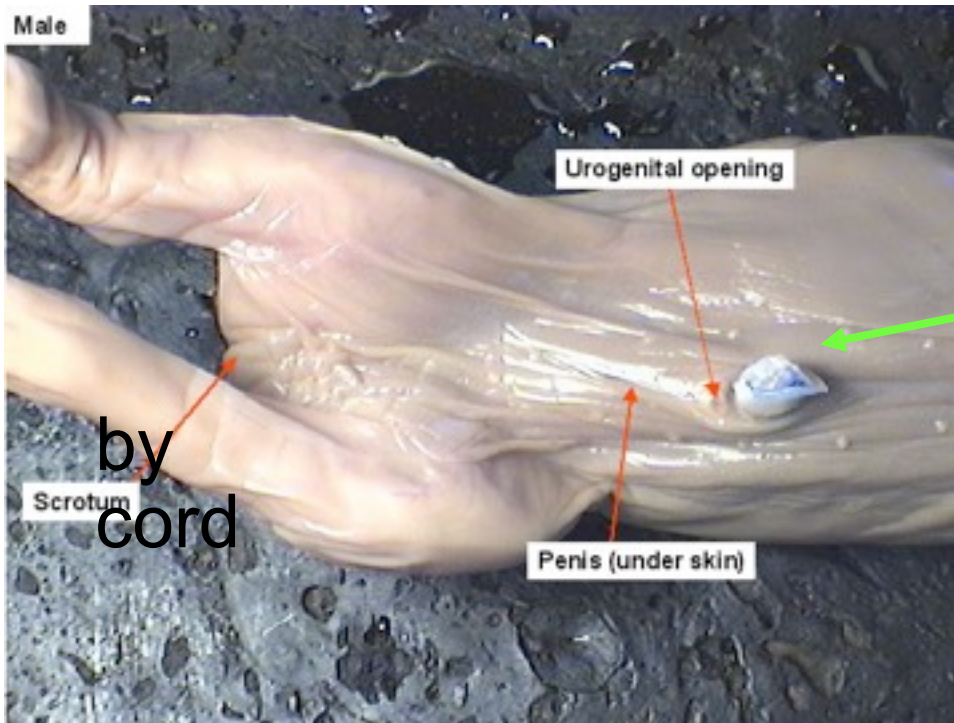
Both sexes have:

- Nipples and umbilical cord



Distinguishing between sexes:

- Female-urogenital papilla by anus

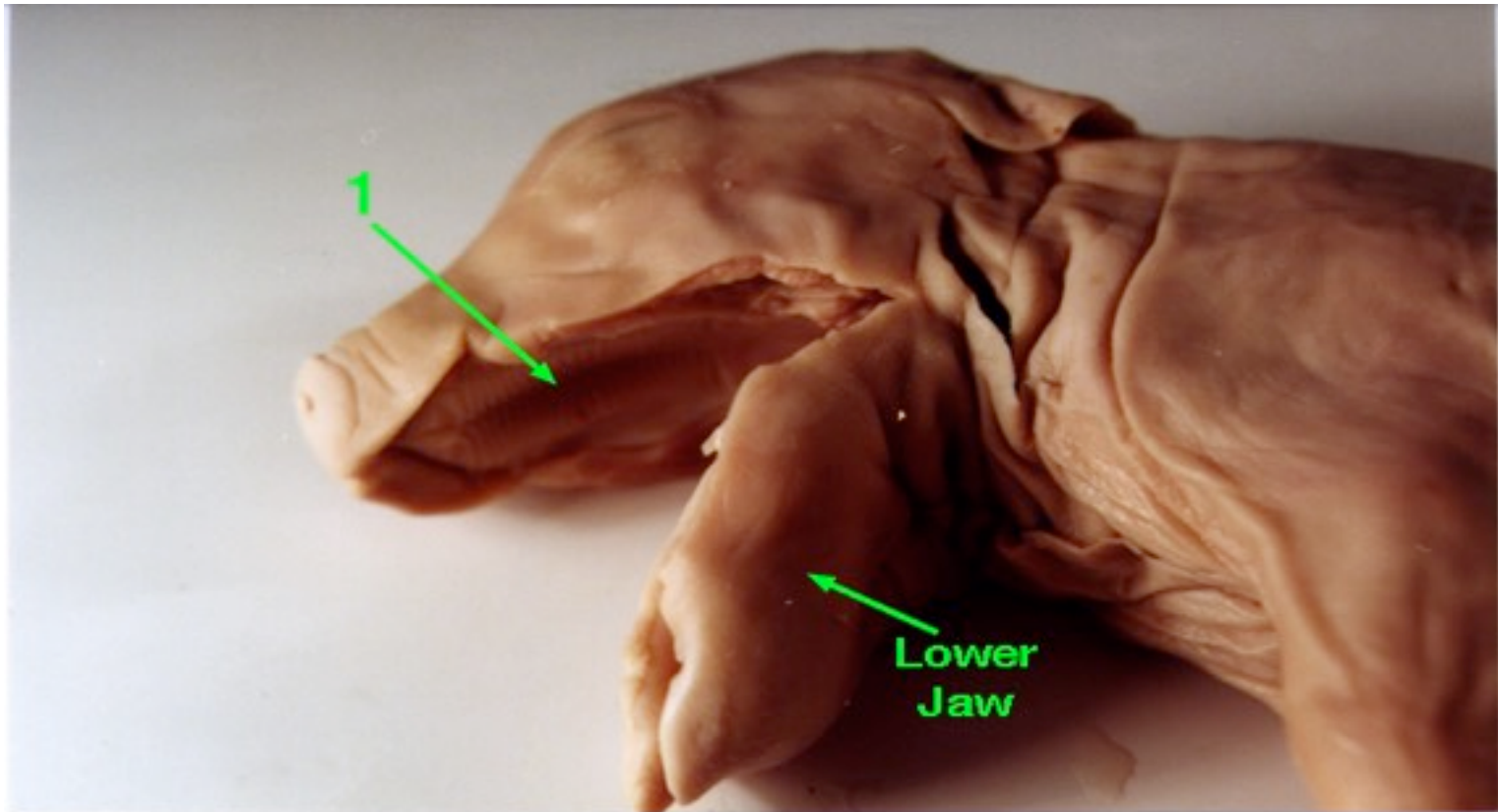


Male: urogenital opening is umbilical

Also, may see scrotum

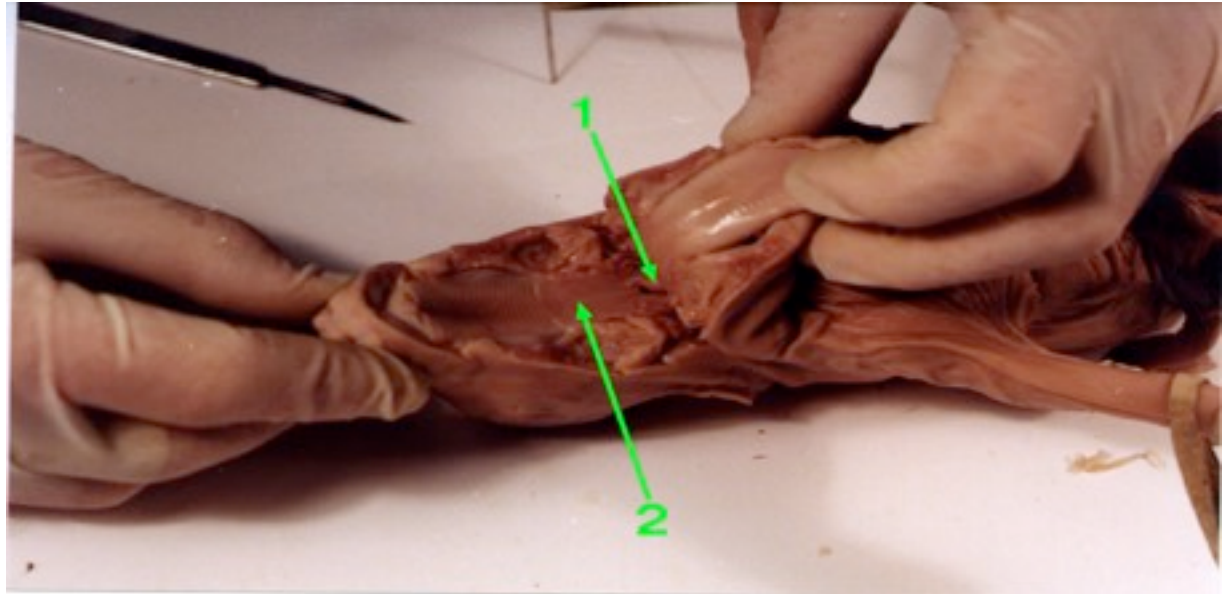
Looking at the mouth:

- Cut jaws like illustrated

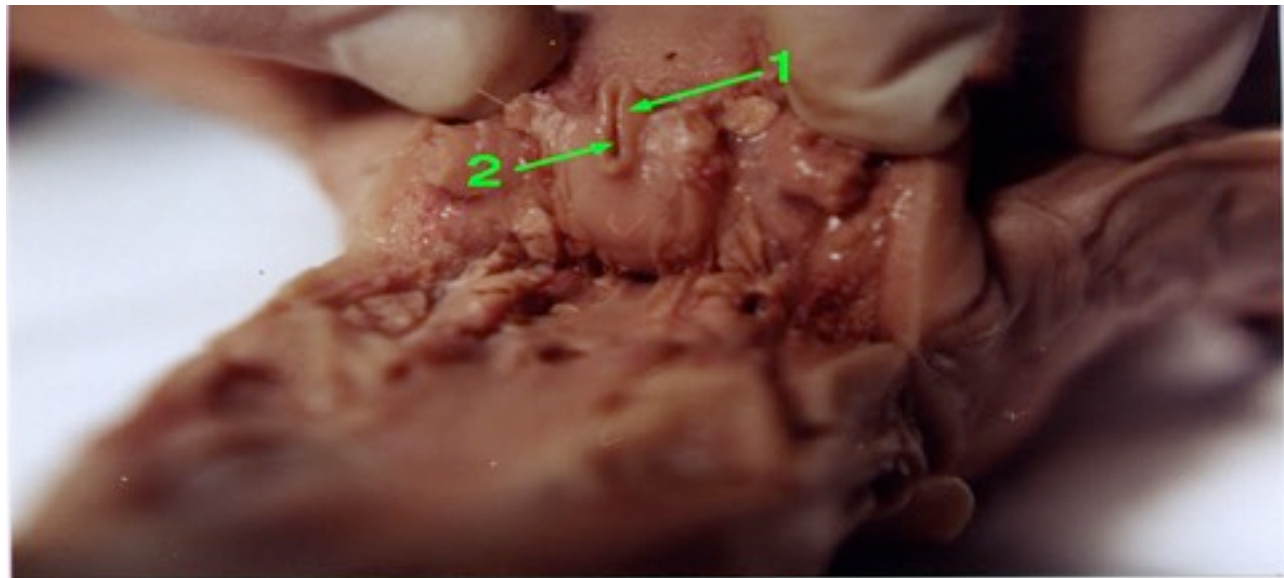


Epiglottis, glottis and soft palate:

- Locate epiglottis (1) and soft palate (2)

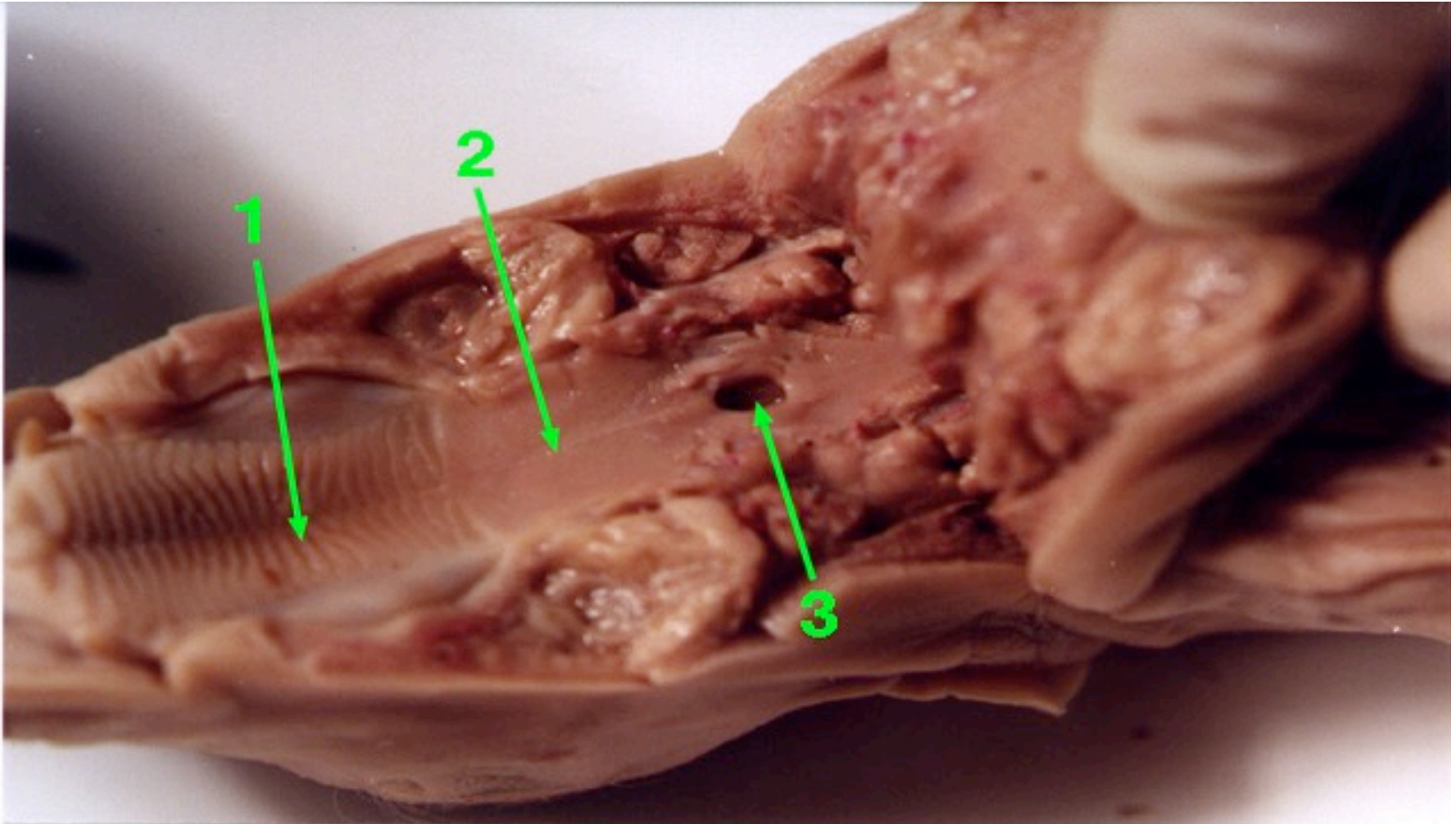


- Glottis is #2 and epiglottis is #1



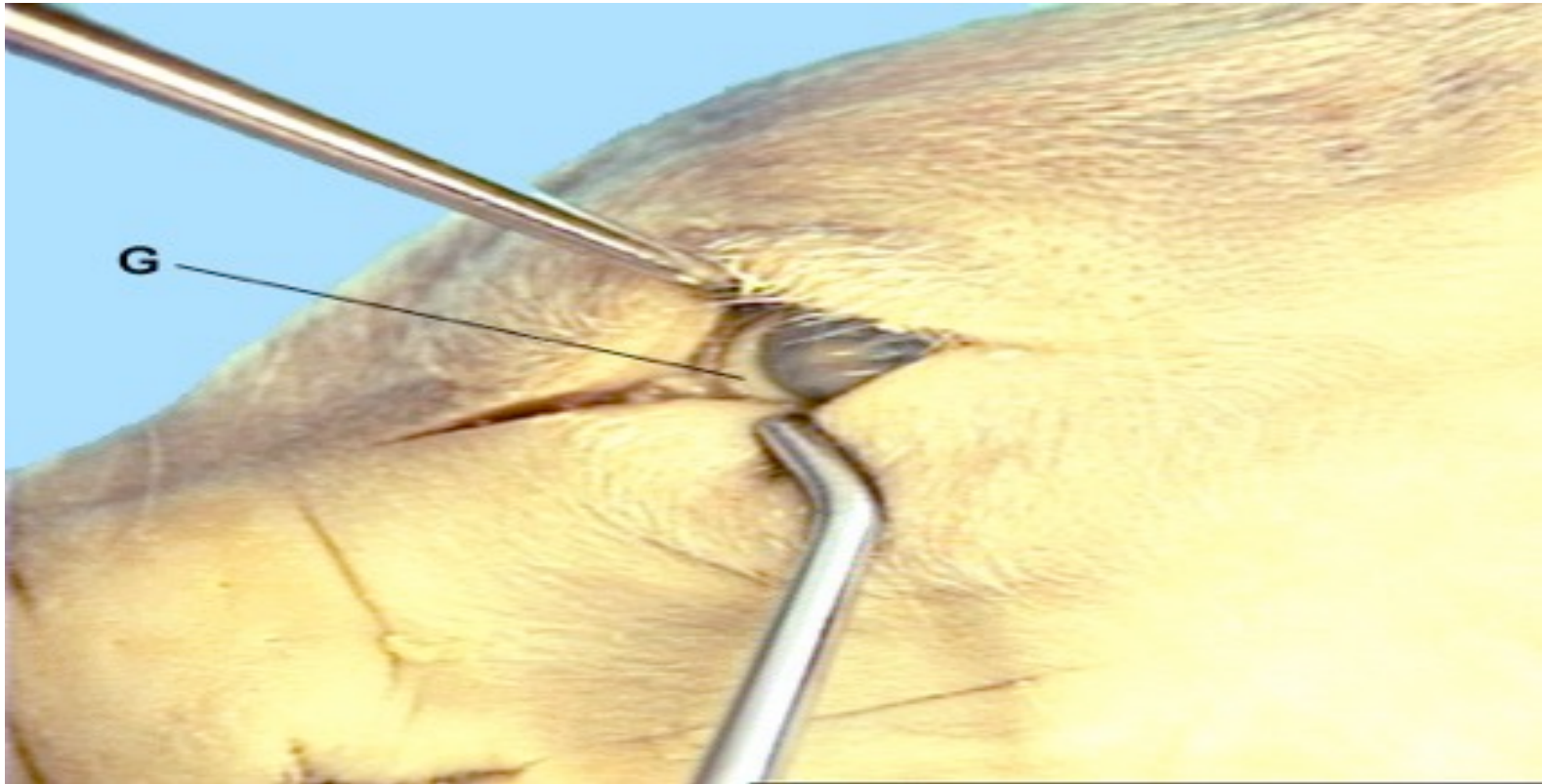
Palates and nasal opening:

Hard palate (1) Soft palate (2) Internal nares (3)

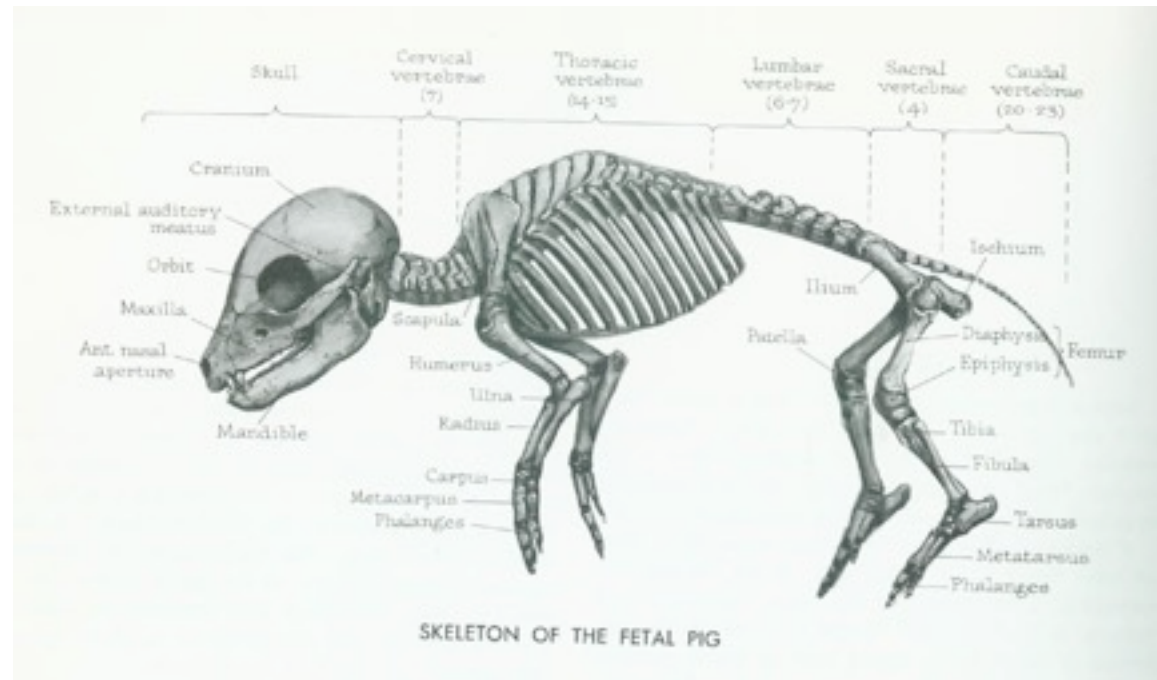
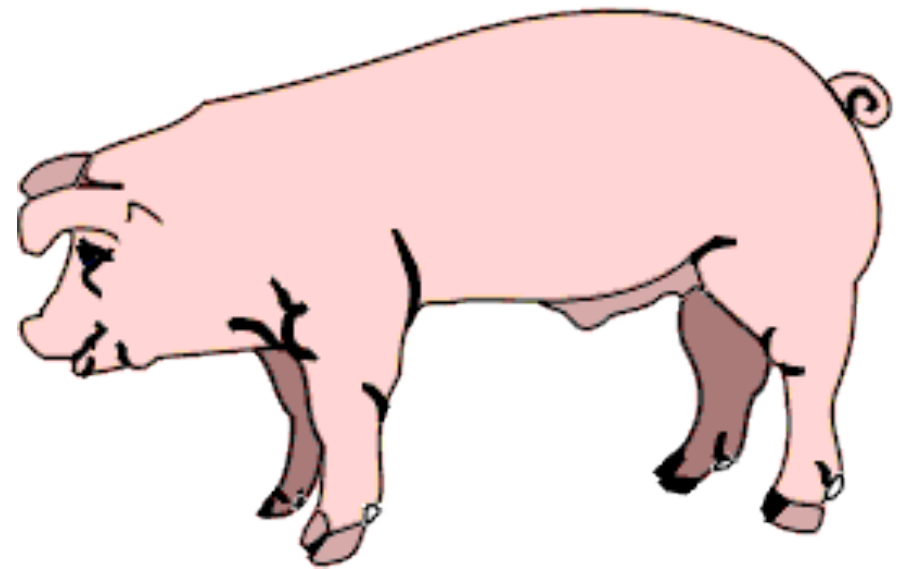


Nictating Membrane:

- In corner of eye/3rd eyelid

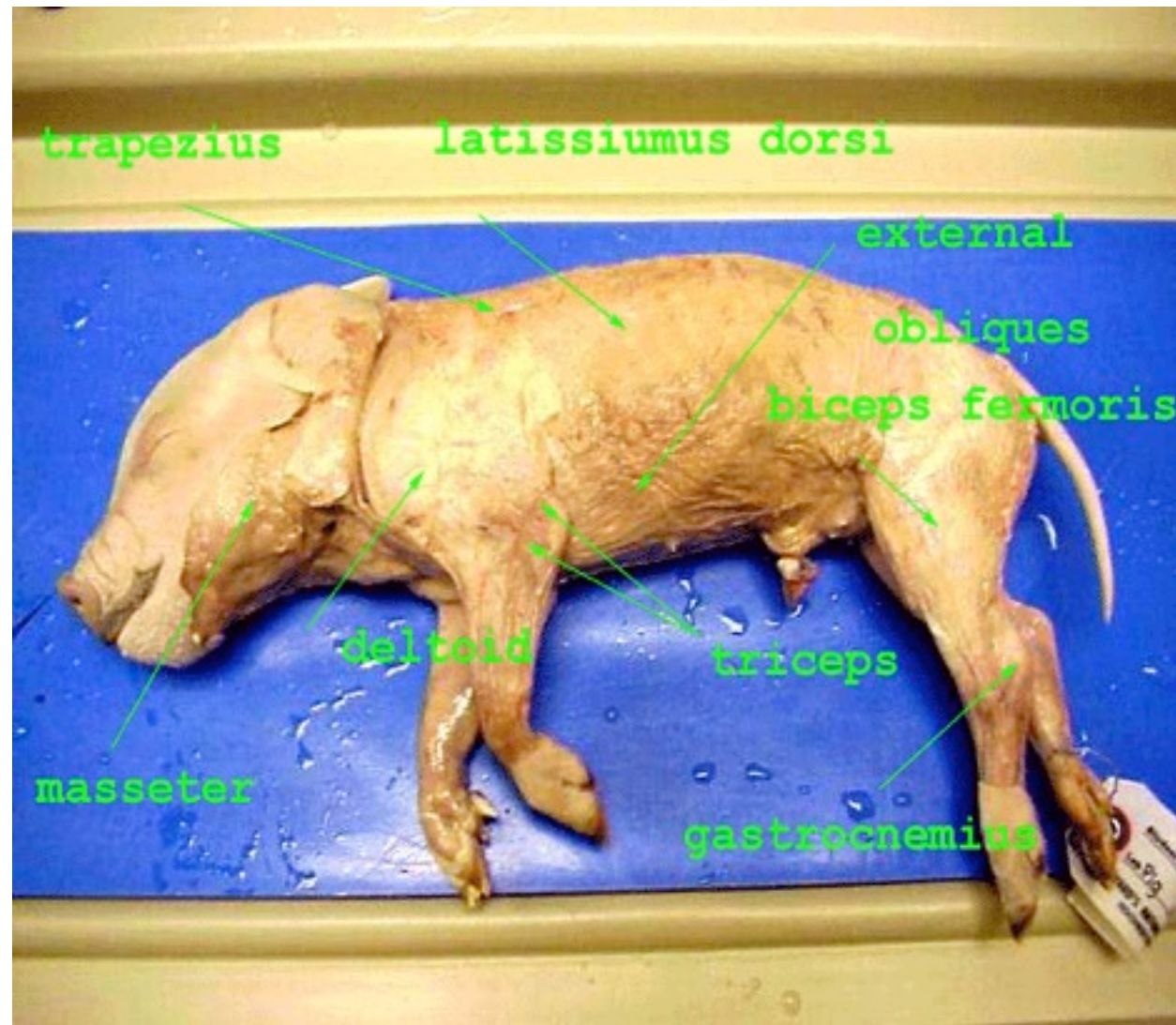


Bones of fetal pig:



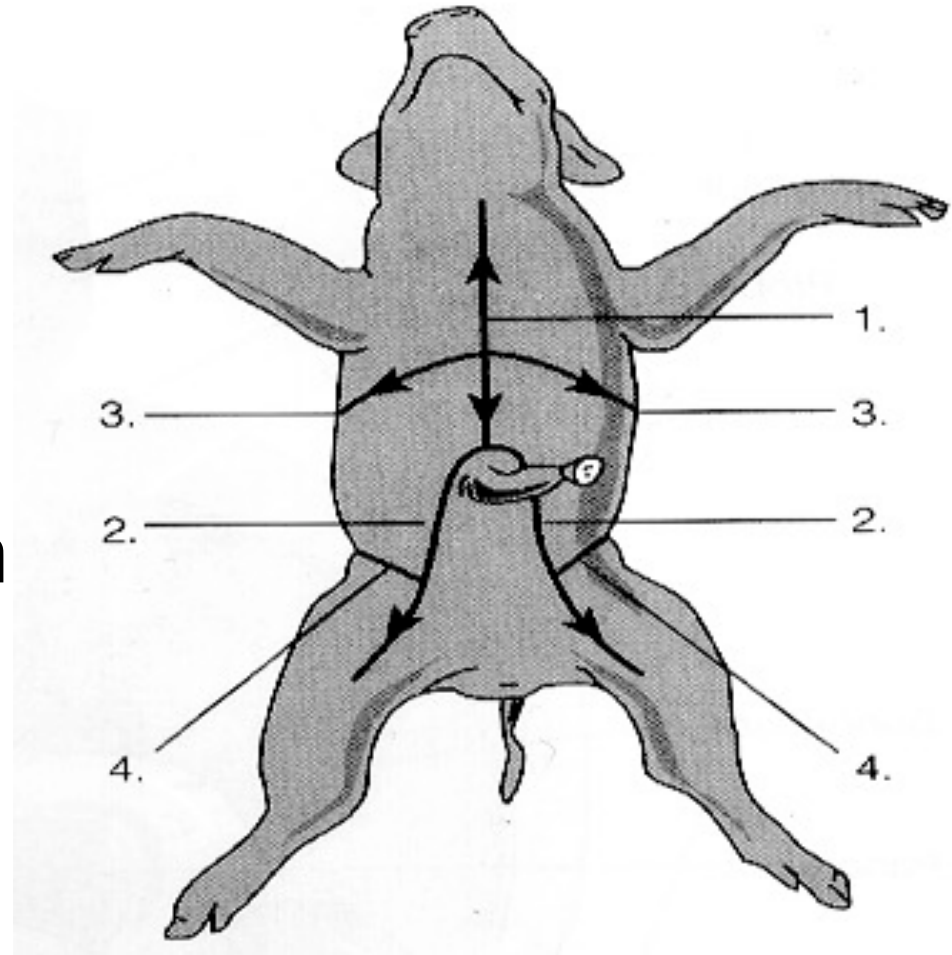
Muscle groups:

- Remove the skin (very carefully) from your pig
- Locate the muscles circled in lab booklet.



Internal pig structures:

Cut the pig as
illustrated
Do not go deep
Around the
Umbilical cord
Open it up and pin
it down to the
pan



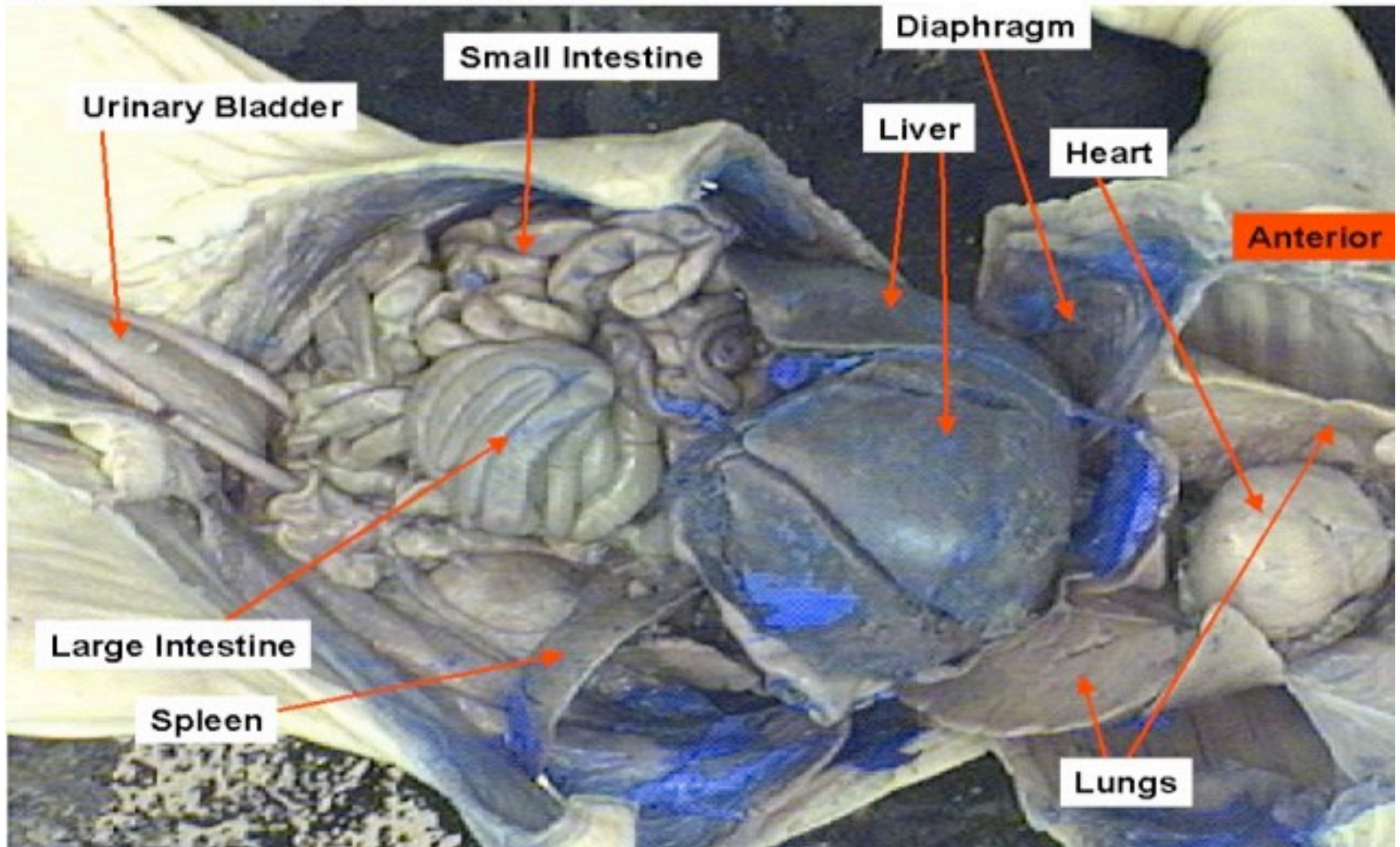
Internal structures:

- Your pig dissection should look like the pictures
(remember to cut gently around the umbilical cord- do not cut the vessels connected to it)



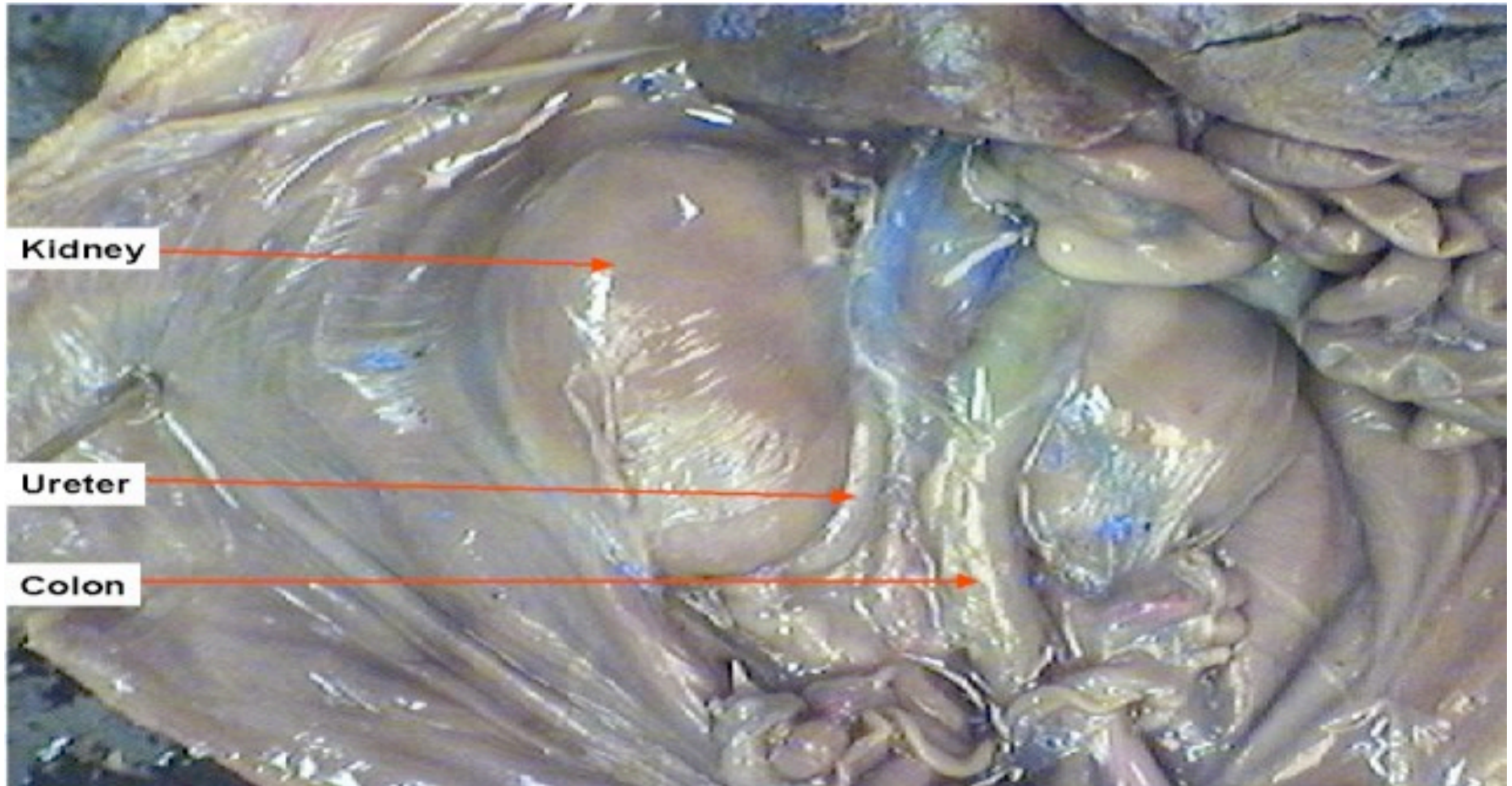
Picture of internal structures:

Thoracic and Aabdominal Cavities



Urinary system:

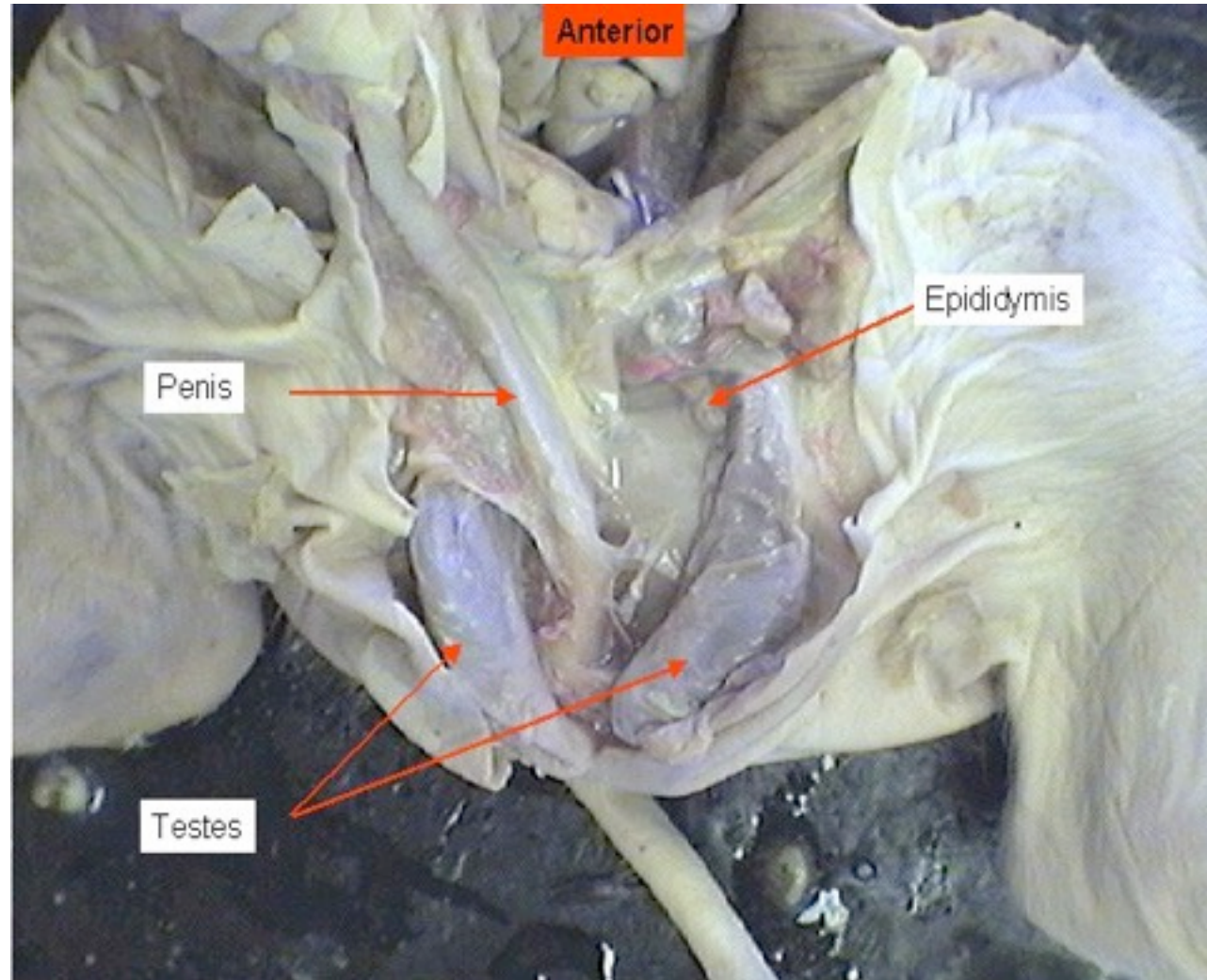
- Locate kidneys, ureter, bladder, colon



Male reproductive system:

Locate:

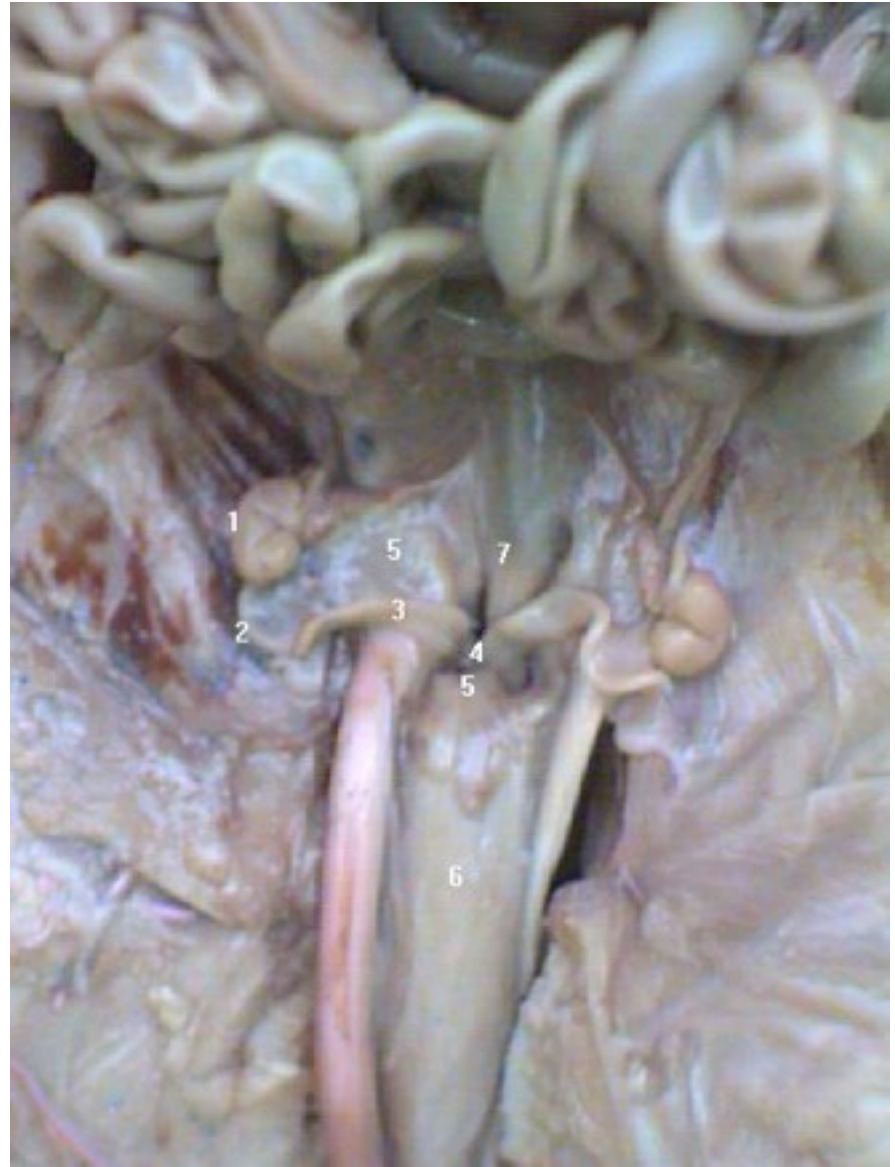
- epididymis
- penis
- testes
- scrotum



Female reproductive system:

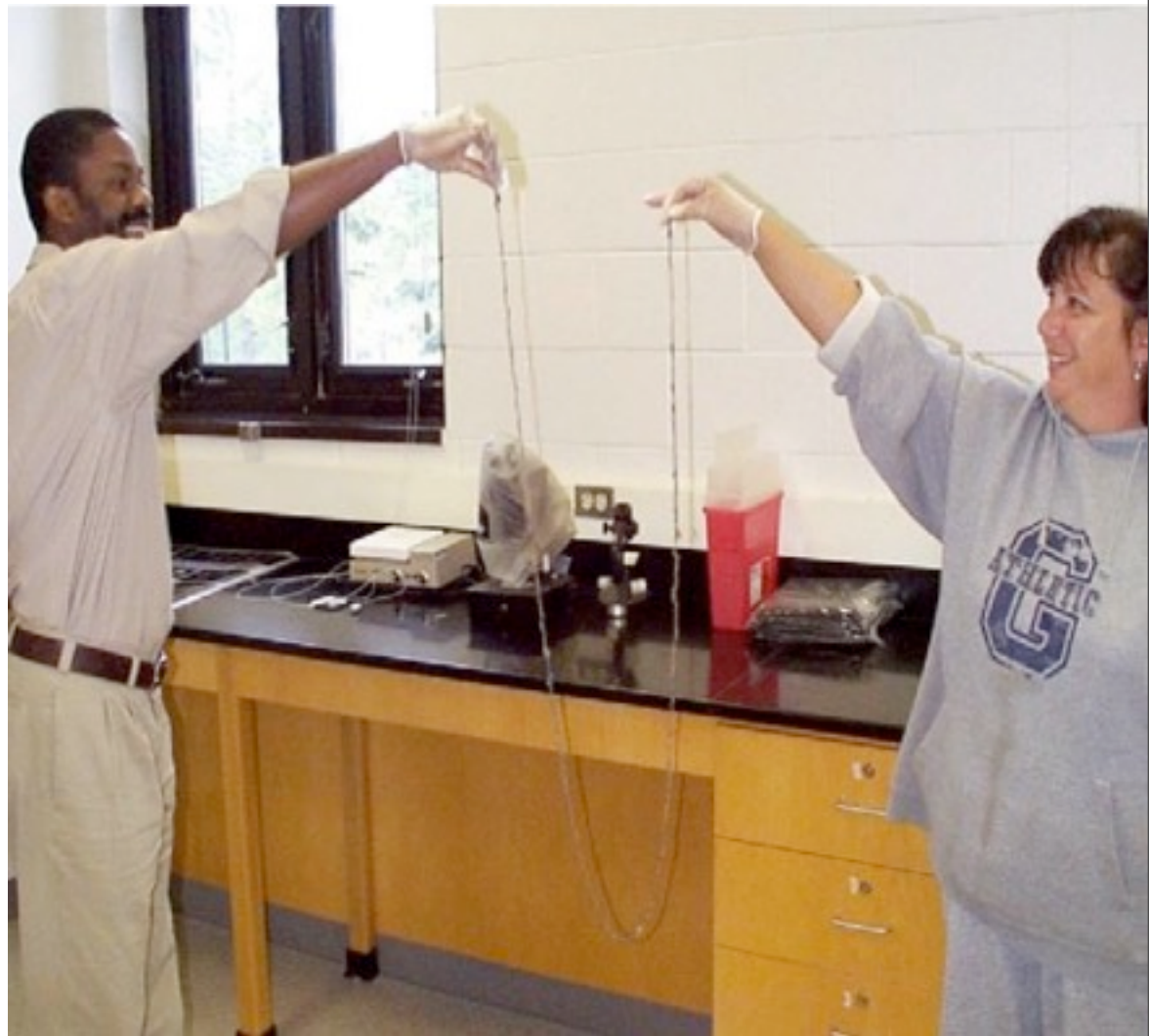
Locate:

- fallopian tubes (2)
- ovaries (1)
- bladder (6)
- horn of uterus (3)



Measuring the intestines:

- OPTIONAL
- Remove intestines as a large mass (ball)
- Separate the intestines by getting the mesentery that holds them together



Structures to Know

- Liver
- Gallbladder
- Small Intestine
- Large Intestine
- Spleen
- Stomach
- Trachea
- Lungs (left and right)
- Heart (left and right ventricles/atria) 27