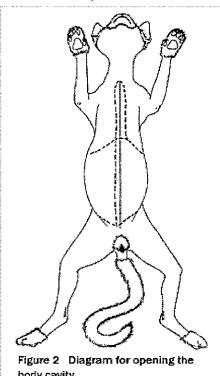
Cat Dissection Guide: Digestion

From Carolina Biological http://www.carolina.com/teacher-resources/Interactive/cat-dissectionactivity/tr10814.tr and for detailed pictures to guide you go to http://anatomycorner.com/main/imagegallery/cat-dissection/ digestive, reproductive, urinary, and respiratory system.

Digestive system dissection activity

http://teachers.sduhsd.net/ahaas/Anatomy%20Physiology/final%20exam%20items/catdiss ection.pdf page 33-36

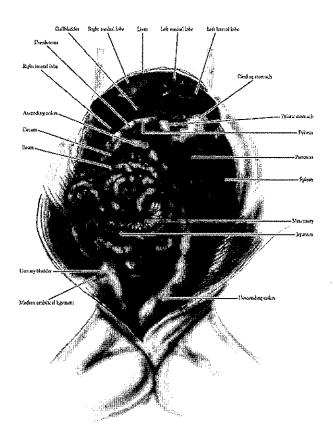
- 1. Don lab apron or coat, gloves, and eye protection.
- 2. Using bone-cutting forceps, cut the bones at the corners of the jaw until there is a clear view of the interior of the mouth.
- 3. Refer to Fig. 1. Use it to help you locate and identify the structures on your specimen.
- 4. Next, locate the posterior end of the sternum. Lift the abdominal muscle just posterior to the sternum and cut through the muscle and into the abdominal cavity.
- 5. Insert the blunt tip of the scissors into the cut and make an incision from just to one side of the midventral line to the posterior end of the abdominal cavity. Use Fig. 2 as a guide.



body cavity.

- 6. At the anterior end of the incision, make lateral cuts following the posterior margin of the ribs, Make lateral cuts through the body wall at the posterior end of the abdominal cavity. Note: Be careful. Male cats have cords that run from the posterior abdomen along the surface of the thigh muscles to the scrotum. Try to leave these cords undamaged.
- 7. Fold back the lateral body wall. The membrane covering the abdominal digestive organs is called the greater omentum. Carefully remove the membrane and locate the digestive organs. If you find a dark brown substance coating the abdominal organs, blood has leaked into the abdomen and must be flushed out. Rinse the abdomen carefully with water for several minutes until the cavity is clean.

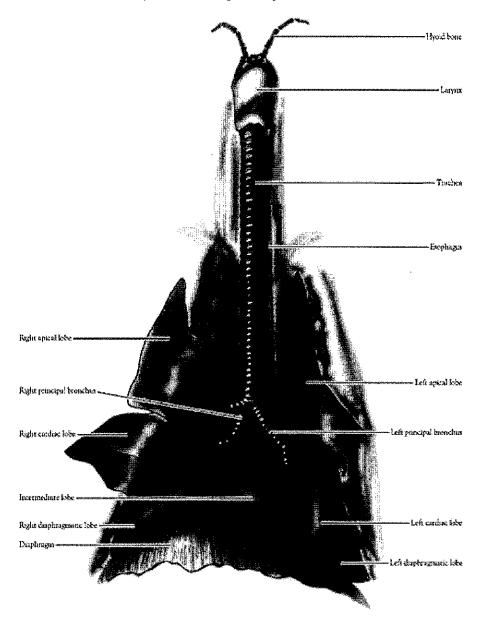
- 8. Pin each side of the abdominal wall to the dissection tray, or trim it out of the way. This will give you a clear view of the interior of the abdomen.
- 9. Using bone-cutting forceps or heavy scissors, cut each rib about 1 cm to either side of the sternum.
- 10. Once all the ribs have been cut, lift the sternum. Hold the sternum in place while you cut the underlying membranes.
- 11. Remove the sternum.
- 12. Cut or break the ribs along the sides of the chest, near the attachment to the vertebrae, to expose the thoracic cavity.
- 13. Refer to Fig. 3. Use it to help you locate and identify the structures on your specimen.
- 14. Cut the body of the stomach and examine the interior body wall. Cut the pyloric stomach section to examine the sphincter muscle that controls the passage of food from the stomach to the small intestine.
- 15. Remove a small section of the small intestine. Examine the interior wall.
- 16. Remove a small section of the large intestine. Examine the interior wall and compare it to the interior wall of the small intestine. If you have access to a stereomicroscope, view each section of intestine under magnification.



Respiratory System:

http://teachers.sduhsd.net/ahaas/Anatomy%20Physiology/final%20exam%20items/catdissection.pdf page 31-32

- 1. Don lab apron or coat, gloves, and eye protection.
- 2. Clear away muscle that obscures the trachea, larynx, and hyoid bone.
- 3. Locate the structures shown in Fig. 4.
- 4. Make a thin slice through the lobe of a lung and observe it under a stereomicroscope.
- 5. Once the respiratory system has been thoroughly studied, expose the esophagus from the pharynx to the stomach. Review the portion of the digestive system between the head and abdominal region.



For more detailed pictures go to: http://anatomycorner.com/main/image-gallery/respiratory-system/

	Circu	ulatory	system
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Dissection guide see pages 25-29.

http://teachers.sduhsd.net/ahaas/Anatomy%20Physiology/final%20exam%20items/catdissection.pdf

For detailed pictures of cat blood vessels: http://anatomycorner.com/main/image-gallery/cat-vessels/

Urinary system:

 $\frac{http://teachers.sduhsd.net/ahaas/Anatomy\%20Physiology/final\%20exam\%20items/catdissection.pdf}{pages~37-42}$

Dissection 4: Blood Vessels

Double-injected cats are usually used to identify blood vessels. Arteries are injected with red latex, and veins are injected with blue latex. Blood vessels differ slightly in location from cat to cat. It is important to understand that these slight differences in location are normal and also occur in humans. Observe the fascia that protects and secures blood vessels. Carefully remove the fascia with blunt instruments to separate blood vessels from other structures.

Position your cat within the dissection tray, including the tail. Keep any remaining preserving fluid in the bag to keep your cat moist and inhibit bacterial and mold growth.

Procedure

A. Arteries

- 1. Place your cat in a dissecting tray with the ventral surface facing upward. If you have not opened the ventral body cavities, refer to the instructions in the preface.
- 2. Identify the following major organs: heart, trachea, lungs, diaphragm, stomach, spleen, pancreas, liver, small intestine, and large intestine.
- 3. Using your scissors, cut open the pericardial sac surrounding the heart to expose the heart.
- 4. Refer to Figure C4.1 to identify the arteries listed in steps 5-10 that are located above the diaphragm.
- 5. Identify the pulmonary trunk exiting from the right ventricle. Locate its branches, the right pulmonary artery and the left pulmonary artery, and follow them to the lungs.
- 6. Identify the ascending aorta as it exits the left ventricle.
- 7. Identify the aortic arch. In cats, there are only two branches off the aortic arch, the brachiocephalic artery (first branch) and the left subclavian artery. Identify these branches. Compare this branching with the human.
- 8. The brachiocephalic artery divides into the right subclavian artery, the right common carotid, and the left common carotid. Locate the subclavian artery as it turns laterally and travels toward the upper extremity. Locate the right and left common carotid arteries as they travel along the trachea. At the level of the larynx, the common carotid arteries divide to form the external and internal carotid arteries.

- 9. The first major branch off each subclavian artery is the vertebral artery. Follow the right and left subclavian arteries to the first rib, As each subclavian artery crosses the first rib, it becomes the axillary artery. Follow the axillary artery into the arm, where it becomes the brachial artery. Distal to the elbow, the brachial artery divides to form the radial and ulnar arteries.
- 10. Lift up the heart and follow the aortic arch as it descends and forms the thoracic aorta. Follow the thoracic aorta and observe where it passes through the diaphragm with the esophagus and inferior vena cava, and becomes the abdominal aorta. The abdominal aorta is retroperitoneal. You must move aside the visceral organs and remove the parietal peritoneum lining the dorsal body wall to observe the aorta.
- 11. Refer to Figure C4.2 to identify the arteries listed in steps 12-20 that are located below the diaphragm.
- 12. Locate the celiac trunk, the first branch off the abdominal aorta. The celiac trunk branches into the hepatic artery, the left gastric artery, and the splenic artery.
- 13. Posterior (caudal) to the celiac trunk is the superior (anterior) mesenteric artery, whose branches can be observed traveling through the mesentery of the small intestine.
- 14. Follow the abdominal aorta to the level of the kidneys and observe the paired renal arteries branching off and traveling to the kidneys.
- 15. The gonadal arteries, testicular arteries in males and ovarian arteries in females, are the next major branches off the abdominal aorta. Follow these arteries to the gonads (testes in males and ovaries in females).
- 16. The inferior (posterior) mesenteric artery branches off the abdominal aorta posterior (caudal) to the gonadal arteries. Branches of the inferior mesenteric artery travel through the mesentery of the large intestine.
- 17. Hiolumbar arteries are large branches off the abdominal aorta posterior to the inferior mesenteric arteries.
- 18. The abdominal aorta ends when it divides into the right and left external iliac arteries, and the internal iliac artery. There is no common iliac artery in the cat.
- 19. Follow one external iliac artery into a thigh, where it becomes the femoral artery.
- 20. The femoral artery travels down the thigh and becomes the popliteal artery in the popliteal area.

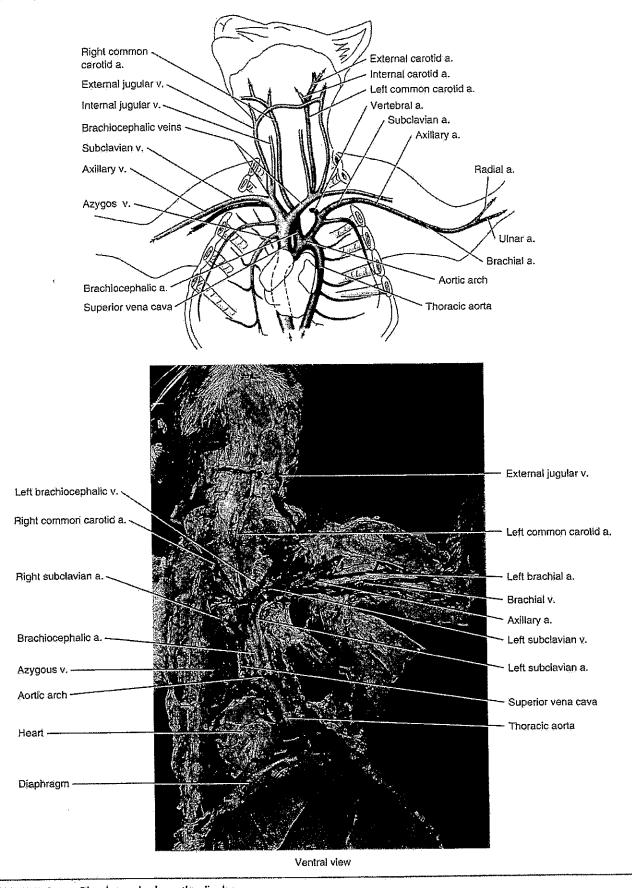
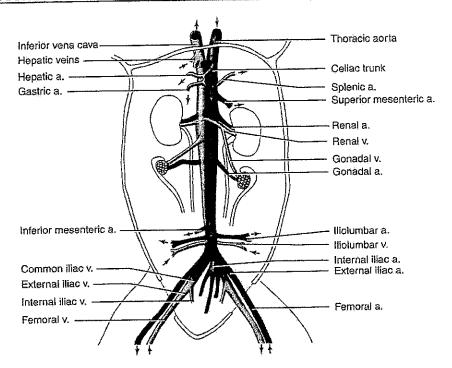


FIGURE C4.1 Blood vessels above the diaphragm.



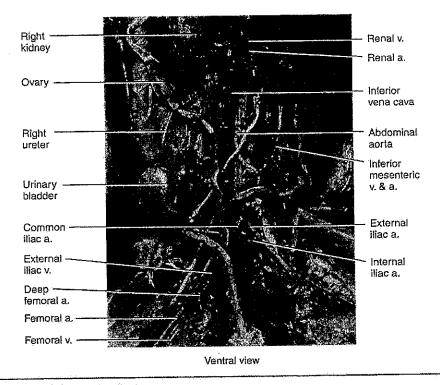


FIGURE C4.2 Blood vessels below the diaphragm.

B. Veins

- Blood leaving tissues travels through veins back to the heart. Remember that some veins are superficial (close to the surface), whereas others are deep.
 Many of the deep veins are adjacent to arteries with the same name.
- 2. Refer to Figure C4.2 to identify veins located caudal to the diaphragm.
- 3. Observe the large superficial vein traveling along the medial surface of the leg ascending into the thigh. This is the great saphenous vein, and it joins the femoral vein, a deep vein, traveling through the thigh adjacent to the femoral artery.
- 4. The femoral vein becomes the external iliac vein in the groin region. The internal iliac vein joins the external iliac vein to form the common iliac vein.
- 5. The right and left common iliac veins unite to form the inferior vena cava (postcava in cat).
- 6. The renal veins and gonadal veins carry blood from the kidneys and gonads to the inferior vena cava.
- 7. The hepatic portal vein probably does not contain blue latex and may appear brown from the presence of coagulated blood. The hepatic portal vein receives blood from the digestive organs and carries this blood to the liver. The hepatic portal vein is formed from the gastrosplenic vein and the superior mesenteric vein.
- 8. Follow the inferior vena cava through the diaphragm, into the thoracic cavity, and into the right atrium.

- Refer to Figure C4.1 to identify veins cephalic to the diaphragm.
- Locate the radial and ulnar veins in the forearm.
 These veins are adjacent to their corresponding arteries. The radial and ulnar veins merge to form the brachial vein.
- 11. The brachial vein becomes the axillary vein that is adjacent to the axillary artery in the axillary regions.
- 12. In the shoulder area, the axillary vein becomes the subclavian vein.
- 13. Each subclavian vein unites with an external jugular vein to form either the right or left brachiocephalic vein. The brachiocephalic veins merge to form the superior vena cava (precava). Follow the superior vena cava unit it enters the right atrium.
- 14. Blood draining from the face and skull enters the external jugular vein. The internal jugular vein drains the brain. Identify the large external jugular vein traveling along the lateral surface of the neck until it joins with the subclavian vein to form the brachiocephalic vein.
- 15. Place the skin back over your cat and follow your instructor's directions to prepare the cat for storage in the plastic bag. Be sure to attach your group's identification tag.
- 16. Clean your tabletop with disinfectant.
- 17. Wash your dissection tools, dissection tray, and hands before leaving the lab.

Dissection 5: Lymphatic System

The lymphatic system of the cat is complementary to the human with the organs being similar in location and structure compared with the human. Assemble your dissection equipment and safety glasses, put on your gloves, and obtain your cat. Position your cat within the dissection tray, including the tail. Keep any remaining preserving fluid in the bag to keep your cat moist and inhibit bacterial and mold growth.

Procedure

- You may have already looked at the lymphatic organs in your previous dissections. If your cat is triple injected with yellow or green latex for the lymphatic system, it will be easier to find the lymphatic organs and very thin vessels. Use Figure C5.1 to identify lymphatic glands and organs.
- As you dissected the blood vessels, you may have noted small, bean-shaped lymph nodes in the cervical, axillary, and inguinal areas. Because these nodes are small, they are easy to miss if you do not know their structure or location.
- The noncapsulated thymus is over the anterior surface of the heart and sometimes is also a little superior to the heart. This gland may have been identified in the endocrine system.

- The spleen is located in the upper left quadrant posterior and lateral to the stomach, and may be a dark brownish-red color.
- 5. The thoracic duct (left lymphatic duct) can sometimes be found in the dorsal part of the thoracic cavity, especially if your cat has been triple injected with latex. Move the lungs and heart aside and look just to the left of the midline next to the descending (thoracic) aorta. The thoracic duct will be very thin (1/16 inch) and may be reddish-brown, with a segmented look that is caused by the presence of valves. You may be able to trace it to where it enters the junction of the left subclavian and external jugular veins. The right lymphatic duct is smaller and is not as easy to find.
- 6. Place the skin back over your cat and follow your instructor's directions to prepare your cat for storage in the plastic bag. Be sure to attach your group's identification tag to the cat or bag.
- 7. Clean your laboratory tabletop with disinfectant.
- 8. Wash your dissection tools, dissection tray, and hands before leaving the lab.

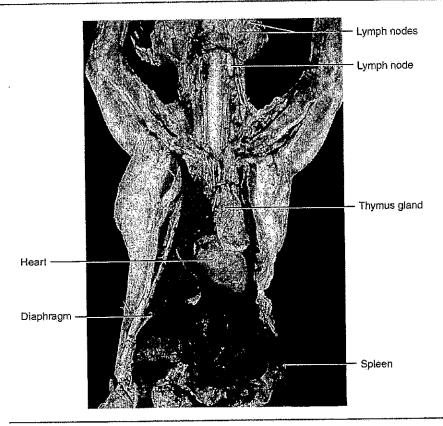


FIGURE C5.1 Lymphatic glands and organs.

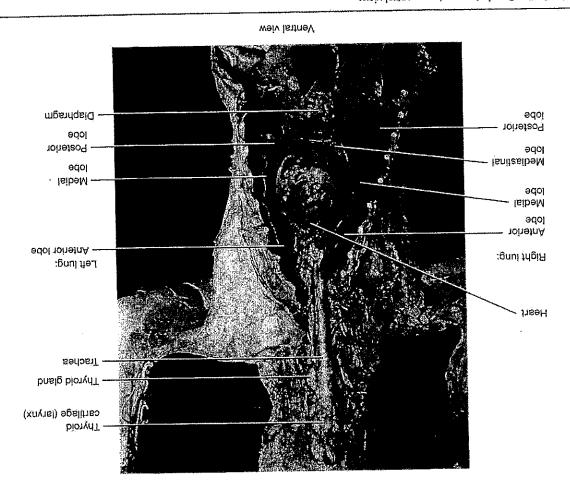
Dissection 6: Respiratory System

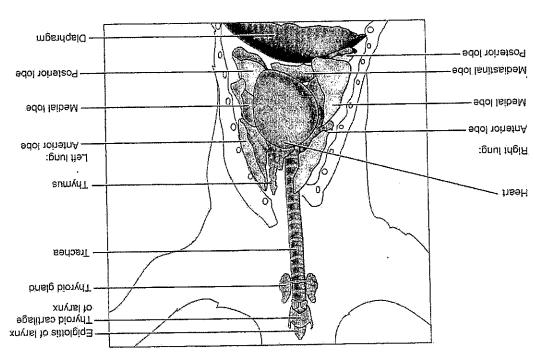
The respiratory system of the cat is complementary to the human. The structure of the larynx, trachea, lungs, and diaphragm are similar to the human. Assemble your dissection equipment and safety glasses, put on your gloves, and obtain your cat. Make sure all parts of the cat are inside the dissection tray, including the tail. Keep any remaining preserving fluid in the bag to keep your cat moist and inhibit bacterial and mold growth.

Procedure

- Use Figure C6.1 to help you identify the bolded structures listed below in the cat.
- Observe the external nares (choanae), nasal cavity, and oral pharynx.
- Locate the larynx, the prominent thyroid cartilage in the anterior neck region, and the cricoid cartilage inferior to the thyroid cartilage. Use the blunt probe to separate the larynx from the muscles and connective tissue.
- Your instructor may divide the lab groups in half to observe two different views of the larynx as listed helow.
 - Half of the lab groups will cut the complete larynx away from the laryngopharynx at the hyoid bone.
 Pull the larynx toward you, look into the top of the larynx, and identify: the epiglottis (elastic cartilage), glottis, false vocal cords (anteriorly), and true vocal cords (posteriorly).
 - The other half of the lab groups will make a longitudinal cut through the thyroid cartilage, the larynx, and through the superior part of the trachea.
 Observe the following structures: the epiglottis, glottis, false vocal cords, and true vocal cords.
- 5. Examine the trachea, following it into the thoracic cavity. Feel the C-shaped tracheal cartilages. Check to see if the thyroid gland is still present, or if it was removed in a previous dissection.

- 6. Cut the trachea in cross section and pull the cut portion toward you. Carefully separate the connective tissue between the esophagus and the trachea with a blunt probe. Observe the dorsal side of the trachea and identify the trachealis muscle that connects the free edges of the tracheal cartilages.
- If you have already studied the cardiovascular system, ask your instructor for permission to remove the heart and great vessels from the cat.
- With the heart removed, you can easily identify the end of the trachea in the thoracic cavity at its bifurcation into the right and left primary bronchi.
- Dissect away lung tissue on the left side to follow the left primary bronchus as it branches into the secondary bronchi. If you keep dissecting, you may want to use a dissecting microscope to observe smaller tertiary bronchi.
- On the right side, you should find the anterior, medial, posterior, and mediastinal lobes of the lung.
 The latter lobe will be more midline.
- On the left side, you should find the anterior, medial, and posterior lobes.
- 12. Identify the hilus of the lung on its medial border, along with the primary bronchus, pulmonary artery, and pulmonary veins.
- 13. Look deep into the thoracic cavity and identify the shiny parietal pleura that covers the ribs and intercostal muscles. The visceral pleura also glistens and covers the lungs themselves.
- 14. Observe the muscular diaphragm that forms the thoracic cavity floor and its relationship to the lungs and the pleura of the lungs.
- 15. Place the skin back over your cat and follow your instructor's directions to prepare your cat for storage in the plastic bag. Be sure to attach your group's identification tag to the cat or bag.
- 16. Clean your tabletop with disinfectant.
- Wash your dissection tools, dissection tray, and hands before leaving the lab.





Dissection 7: Digestive System

The cat digestive system and organs are quite similar to that of the human in location and structure. This dissection also clearly demonstrates the location and structure of the mesentery and parts of the peritoneum that are not realistically portrayed in models. Assemble your dissection equipment and safety glasses, put on your gloves, and obtain your cat. Position your cat within the dissection tray, including the tail. Keep any remaining preserving fluid in the bag, to keep your cat moist and to inhibit bacterial and mold growth.

Procedure

A. Mouth, Oropharynx, and Salivary Glands

1. To observe the oral cavity structures, you may need to use a bone cutter to cut through the mandible and separate it from the maxilla.

- 2. Identify the vestibule, hard palate, soft palate, canine teeth, tongue, lingual frenulum, and oropharynx. Compare the teeth with human teeth.
- 3. Using a hand lens or magnifying glass, observe the papillae on the tongue.
- 4. To expose the salivary glands, remove the skin on one side of the head inferior to the ear (see Figure C.7.1), trim away the connective tissue in the area between this and the masseter muscle. Look for tiny, dark lymph nodes (bean-shaped) in this area. The parotid gland is a light-colored gland on the cheek area inferior to the ear. You may be able to identify the parotid duct traversing the masseter to enter the oral cavity. The smaller submandibular gland is inferior and a little posterior to the parotid gland. The sublingual gland, just anterior to the submandibular gland, is the smallest salivary gland and is more difficult to find.

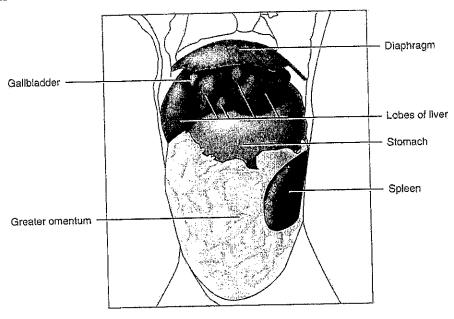


Left lateral view

B. Esophagus and Abdominal Organs

- I. If you have dissected the respiratory system, you have previously observed the laryngopharynx, epiglottis, larynx, and trachea. The laryngopharynx also leads to the esophagus that is posterior to the trachea. Follow the esophagus through the thoracic cavity to the diaphragm, locating the esophageal hiatus where the esophagus penetrates through the diaphragm to the abdominal cavity.
- 2. Use Figure C.7.2a and Figure C.7.2b as a reference to identify the bolded structures.
- 3. Observe the yellowish, fat-filled "apron" that covers the abdominopelvic viscera. This is the doublelayered serous membrane, the greater omentum, that can be deflected back or totally removed according to your instructor's directions.
- 4. Observe the peritoneum that lines the abdominal cavity and also covers the exterior of the abdominal organs. The peritoneal cavity is the large cavity that is filled with the abdominopelvic organs.
- 5. The next obvious structure in the abdomen is the large, brown or reddish-brown liver on the right side inferior to the diaphragm. Look for a small, greenish sac, the gallbladder, on the inferior surface of the liver, and the cystic duct. The falciform ligament separates the right and left lobes of the liver and attaches the liver superiorly to the abdominal wall.
- 6. To the left of and partially posterior to the liver is the stomach. Identify the lesser omentum, the serous membrane that attaches the liver to the lesser curvature of the stomach. Note the constricted junction of the esophagus and the stomach, the esophageal sphincter. Cut open the stomach along its greater curvature to reveal the rugae, if present. If the cat's stomach is stretched, rugae are absent; if the stomach is contracted, rugae will be present. Identify the parts of the stomach: the cardia, fundus, body, pylorus, and the pyloric sphincter. Roll the firm sphincter area between your thumb and

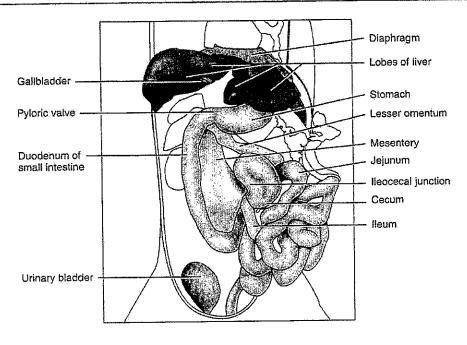
- index finger; cut open this area to observe the constriction caused by the sphincter. To the left of and posterior to the stomach is the long, narrow, dark-colored spleen that hugs the left abdominal wall (not a digestive organ).
- 7. Lift the stomach, and reflect it back to reveal the granular, usually brownish-gray pancreas. The head of the pancreas is in the C-shape of the first section of the small intestine, the duodenum, and the tail of the pancreas is near the spleen. Find the common bile duct entering the duodenum and follow it toward the liver until you find the junction of the common hepatic duct with the cystic duct.
- 8. The small intestine of the cat has three divisions, as does the human: the duodenum, jejunum, and ileum. Note the mesentery that attaches the small intestine to the posterior body wall. Spread the mesentery to observe the branches of the superior mesenteric artery and vein. Follow the small intestine through its entire length. The ileum ends in the inferior right quadrant, where it joins with the large intestine at the ileocecal junction or sphincter. Make an incision in this area to observe the sphincter. Note that the small intestine has a smaller diameter, a greater length, and is very coiled compared with the large intestine.
- 9. The large intestine, or colon, is composed of the cecum, a short ascending colon, transverse colon, descending colon, and rectum. Just inferior to the ileocecal junction is the cecum, or blind pouch. Identify the ascending, transverse, and descending parts of the colon plus the mesocolon that affixes the colon to the posterior body wall. Now identify the rectum and the anus.
- 10. Place the skin back over your cat and follow your instructor's directions to prepare your cat for storage in the plastic bag. Be sure to attach your group's identification tag to the cat or bag.
- 11. Clean your laboratory tabletop with disinfectant.
- Wash your dissection tools, dissection tray, and hands before leaving the lab.





(a) Ventral view

FIGURE C7.2a Digestive organs, superficial.



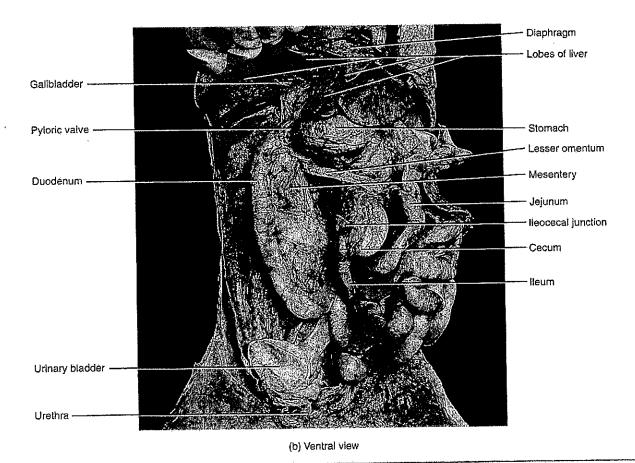


FIGURE C7.2b Digestive organs, deep.

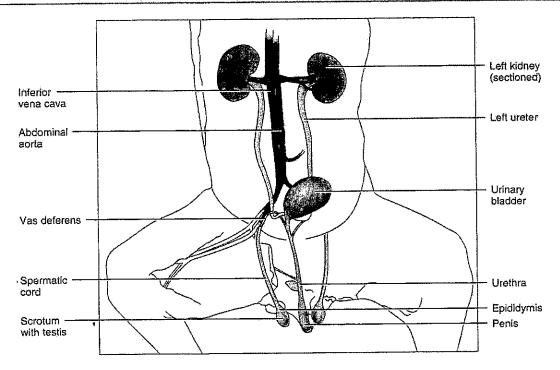
Dissection 8: Urinary and Reproductive Systems

Typically, the urinary and reproductive systems are studied together, because of their close association of structures and their embryologic derivations. The urinary and reproductive systems of the male cat are similar to the human. The female cat has more differences compared to the human, because she has litters rather than one offspring during one pregnancy. Assemble your dissection equipment and safety glasses, put on your gloves, and obtain your cat. Position your cat within the dissection tray, including the tail.

Procedure A. Urinary System

Refer to Figure C8.1a if you have a male cat, or Figure C8.1b if you have a female. Identify the bolded urinary structures described.

- 2. Reflect the abdominal viscera that were observed in the digestive system dissection.
- Remove the peritoneum from the kidneys if not removed in a prior dissection and carefully remove the adipose capsule surrounding the kidneys. Locate the adrenal glands that are not attached to the kidneys, but are superior and medial to them.
- Locate the renal hilus on the medial surface of each kidney and identify the renal artery, renal vein, and the ureter passing through the renal hilus.
- 5. Follow the renal artery to where it branches off the abdominal aorta and the renal vein to where it enters the inferior vena cava.
- 6. Follow the ureters to the urinary bladder, a retroperitoneal, muscular sac. If you have a female cat, be careful not to mistake the uterine horns for the ureters. Observe the entrance of the ureters into the posterior wall of the urinary bladder, and the peritoneal folds that secure the urinary bladder to the abdominal wall.
- The urethra will not be dissected out at this time because of its location, but will be located in the reproductive system dissection that follows.



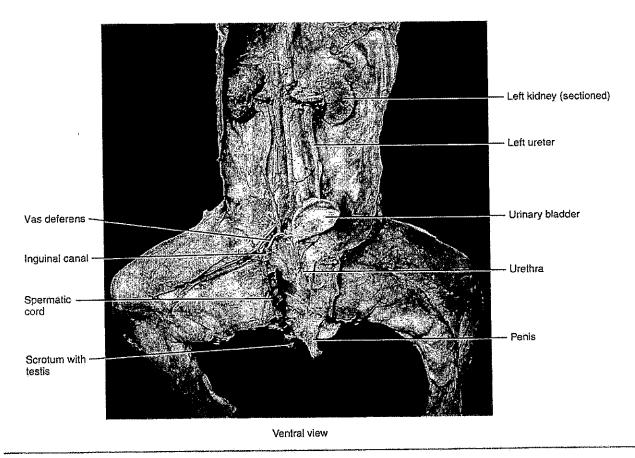


FIGURE C8.1a Male urogenital system.

B. Male Reproductive System

- 1. Using Figure C8.1a for reference, identify the **bolded** male reproductive structures listed below.
- Because a male cat has a retractable penis, you may need to check for the external urethral orifice first to find the penis and the sheathlike prepuce covering it. To observe the glans penis, make an incision in the prepuce.
- Identify the scrotum or scrotal sac covering the paired testes, which may not be very obvious if you have a young male.
- 4. Carefully, make a lateral incision in one side of the scrotum and remove the loose fascia and inner fibrous connective tissue to expose one testis. Is the scrotal sac open to both testes?
- Note the epididymis on the medial and posterior surfaces of the testis, and inspect its tiny, coiled tubules. You may want to use a hand lens for this.
- Identify the ductus (vas) deferens that begins at the tail of the epididymis and travels toward the body in the spermatic cord.
- 7. Observe the spermatic cord and cut away the connective tissue to identify the ductus (vas) deferens, testicular artery, testicular vein, and autonomic nerves within it. Follow the ductus (vas) deferens through the inguinal canal into the pelvic cavity.
- Trace the path of the ductus (vas) deferens in the abdominopelvic cavity as it arches around the ureter,

- and continues posterior to the bladder to join the small prostate gland at the urethra. Inside the pelvic cavity, the testicular blood vessels and autonomic nerves travel near the ureters, taking a different route from the ductus (vas) deferens.
- 9. To properly observe the accessory sex glands and the urethra, you need to cut the cat's pelvis. Using a sharp scalpel, make a midline incision to cut through the muscles covering the symphysis pubis and then carefully cut through the center of the pubic symphysis cartilage.
- 10. Spread the thighs apart and bend the pelvic bones back to expose the prostate gland, paired bulbourethral glands, urethra, and penis. The prostate can be palpated as a small, hard mass surrounding the urethra. The cat anatomy is similar to, but not identical to, the human. There are no seminal vesicles in the cat.
- 11. The bulbourethral glands are located posterior to the prostate gland dorsal to the penis.
- 12. Make a longitudinal incision in the penis and identify the two columns of corpora cavernosa, one column of corpus spongiosum, and the spongy urethra.
- Observe the dissection of a female cat from another lab group. Read steps 9-11 of the female cat reproductive system dissection for clean-up directions.

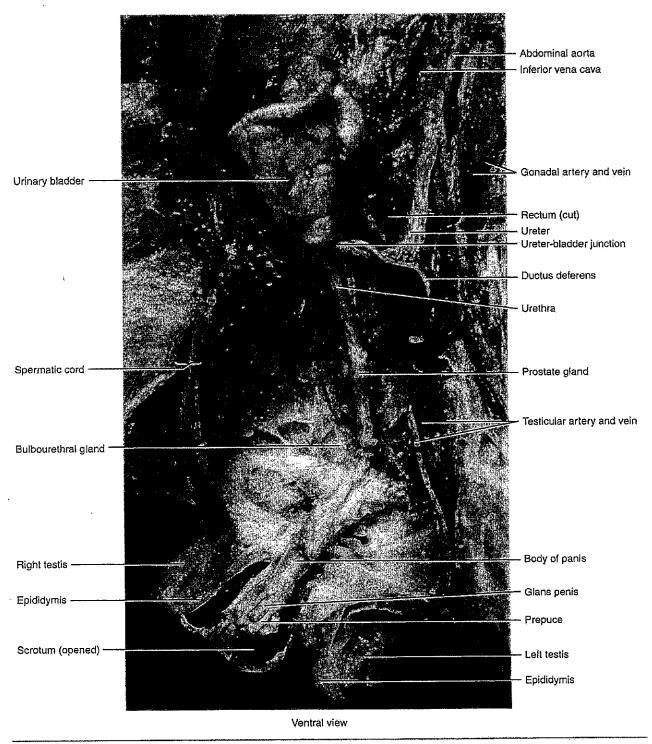
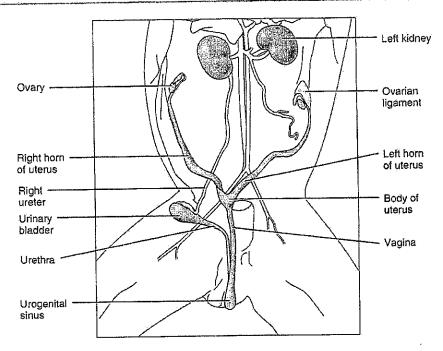


FIGURE C8.1b Male urogenital system, continued.

C. Female Reproductive System

- 1. Using Figure C8.1b as a reference, identify the bolded structures below.
- 2. The cat's uterus is quite different from a human. The uterus in a cat is Y-shaped and is called a bipartate uterus. The base of the Y is the body of the uterus and the upper two branches are the uterine horns where multiple fetuses may be located if your cat is pregnant.
- 3. In the pelvic cavity, locate the small, oval ovaries caudal and lateral to the kidneys and the small uterine tubes that have tiny fimbriae curved over the ovaries. The ovarian ligament attaches the ovaries to the body wall.
- 4. To follow the uterus to the vagina, you will need to cut the cat's pelvis. With a sharp scalpel, make a midline incision through the muscles covering the pubic symphysis and then cut through the center of the cartilage of the pubic symphysis.
- 5. Spread the thighs and bend the pelvic bones back to expose the **urethra** (anterior) and **vagina** (posterior).

- 6. The urinary bladder and urethra will be ventral to the body of the uterus and the vagina. Using a blunt probe, separate the connective tissue that holds the urethra to the vagina and move the urethra to the side. Locate the posterior union of the urethra with the vagina.
- 7. Just caudal to the union of the urethra and the vagina is the **urogenital sinus** that opens to the exterior in the **urogenital oriface**. The female cat has the urogenital orifice as one opening for both the urinary and reproductive systems similar to the male cat and human male.
- 8. Observe the dissection of a male cat from another lab group.
- Place the skin back over your cat and follow your instructor's directions to prepare your cat for storage in the plastic bag. Be sure to attach your group's identification tag to the cat or bag.
- 10. Clean your tabletop with disinfectant.
- 11. Wash your dissection tools, dissection tray, and hands before leaving the lab.



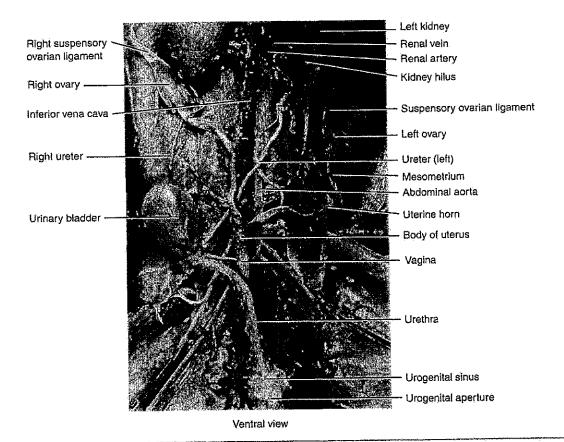


FIGURE C8.1c Female urogenital system.