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Dissection of the Cardiovascular System: Cat

► PROCEDURAL INQUIRIES ◀

Preparation

1. How should you prepare your cat for cardiovascular dissection?
2. Which instruments should be used for dissection?


Dissection

3. What are the major vessels of the heart?
4. What are the major arteries associated with the aortic arch?
5. What are the major arteries of the head and neck?
6. What are the major arteries of the forelimb?
7. What are the major arteries of the thorax?
8. What are the major arteries of the abdomen?

9. What are the major arteries of the hind limb?
10. What are the major veins associated with the superior vena cava?
11. What are the major veins of the head and neck?
12. What are the major veins of the forelimb?
13. What are the major veins of the thorax?
14. What are the major veins of the abdomen?
15. What are the major veins of the hind limb?

Additional Inquiries

16. How are blood vessels named?
17. How do the blood vessels of the cat compare with the blood vessels of the human?

HUMAN CORRELATION:  Cadaver Atlas in Applications Manual.

Key Terms

No specific key terms are given for this exercise. The key terms are the major blood vessels. Your instructor will indicate which vessels you are responsible for.

Materials Needed

Gloves

Preserved Cat (Double-Injected)

Dissecting Tray

Dissecting Kit

The cardiovascular system, which includes the heart, the blood vessels, and certain accessory structures, is essentially the same in all mammals.

Oxygenated blood leaves the heart by the aorta and travels through specific parts of the arterial system to each of the organs and tissues of the body. At the tissue level, the arteries break down to form a capillary bed. Gas and nutrient exchange takes place at the capillary level. The capillaries converge to form the venous system, which carries the blood back to the heart.

In this laboratory exercise we will further our understanding of cardiovascular anatomy by dissecting the arterial and venous systems of the cat.

