

Sheep Heart Dissection

External Anatomy

1. Identify the right and left sides of the heart. Look closely and on one side you will see a diagonal line of blood vessels that divide the heart, this line is called the interventricular sulcus. The half that includes all of the apex (pointed end) of the heart is the left side. ☐

2. Locate the coronary arteries and veins that are on the surface of the heart. ☐

3. Find the flaps of dark tissue on the top of the heart. These ear-like flaps are called auricles. ☐

4. The front-most vessel is the pulmonary trunk. Place a probe or pencil in this vessel to mark its place. ☐

5. Just behind the pulmonary trunk is the aorta. Depending on how the heart was removed, you might also see a branch of the aorta called the brachiocephalic artery. Place a pencil or probe in the aorta to mark its place. ☐



6. Turn the heart so that you are looking at its dorsal side (the back of the heart.) Find the large opening at the top of the heart next to the right auricle. This is the superior vena cava. Place a pencil in this vessel, you may also use your finger to feel the inside of the right atrium. ☐

7. Locate another opening on the backside of the heart on the left side. This is the pulmonary vein. You can feel the inside of the right atrium by probing this opening with your finger. Place a pencil in the pulmonary vein opening. ☐

Checkpoint: Make sure you know the location of each of the following before continuing to the internal anatomy of the heart:

superior vena cava ☐ inferior vena cava ☐ aorta ☐

pulmonary artery ☐ pulmonary vein ☐

left atrium and ventricle ☐ right atrium and ventricle ☐

auricle ☐ apex ☐ coronary arteries & veins ☐ interventricular sulcus ☐

8. Visually (or use diagrams) to indicate which vessels connect to which chambers:

Pulmonary artery to the _____

Pulmonary vein to the _____

Aorta to the _____

Superior vena cava to the _____



Anatomy Lab Cow Heart Dissection Answer Key

Elaine Nicpon Marieb



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