

# Take Home Messages

Make your story easy for the reader to follow

For guidance, model a peer-reviewed publication when preparing reports

When in doubt, ASK US!





## Numbered lists are not appropriate.

#### Methods





Figure 4: Effect of Cold FRS on the heart. The decrease in contraction strength is visible in the curve, while a change in heart rate is not readily visible.

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# Fully explain the images.



Figure 1 – Cow heart exterior surface. A: Anterior face of the heart. B Top view of the heart giving an overview of many of the main cardiac vessels entering/leaving the heart.

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# Avoid stating the obvious.



Figure 2: View of the Right Ventricle: The tricuspid valve is directly above of the right ventricle

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# **Quality Caption Example**



**Figure 2: External Anatomy of the Bovine Heart.** A: The anterior surface shows the ventricles and the pulmonary artery. B: The posterior surface provides a view of the pulmonary veins entering the left atrium, and the inferior vena cava, which delivers deoxygenated blood to the heart. C: The superior face of the heart provides a view of the aortic arch and its relation to the atria and auricles.

# Tables

## Limit to a single page

## A single title, which comes at the top of the table

### Table 2: Measurements of vessels within the lungs

Pulmonary Structure	Outer Diameter	Wall Thickness
Trachea	5.1 cm	7 mm
Left Main Bronchus	2.5 cm	2 mm
Right Main Bronchus	3.0 cm	2 mm
2 <sup>nd</sup> Generation Bronchus	1.4 cm	2 mm

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"The tricuspid valve was located by looking for the distinct chordea tendinae that help them to function. The pulmonary valve was the final piece found within the right atrium, which were located by looking for an outflow from the ventricle that would lead to the lungs. After the right ventricle was fully inspected, incisions were made to investigate the left ventricle."

#### Rewrite:

The pulmonary and tricuspid valves were located and examined prior to dissecting the left ventricle.



## Use scientific language and metrics.

"The incision was about 6 inches in length and almost about an inch deep. The deepness of the cut and the effort it took was not surprising as the left ventricle is known to have thicker walls due to its functionality of pumping to every extreme of the body."



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# Avoid repetitive language.

#### 2.1. Preparation

After obtaining all materials needed for the dissection, we removed the heart and lungs from the plastic containing bag and placed them on the absorbing pad. We oriented the heart and lungs to keep track of which side was which when dissecting the lungs later in the experiment. We dentified the trachea first and then the left and right lungs. We were able to identify where the heart started in respect to the trachea and lungs. We removed the heart from the pericardial sac and surrounding fat, as well as from the trachea and lungs.

#### 2.2. Heart

We identified the aorta, vena cava, pulmonary vein, and pulmonary artery from a superior to inferior view to orient the heart. We identified the right ventricle based on the location of the coronary blood vessels separating left from right ventricle. We dissected it by cutting along the direction of the coronary blood vessels and opened up the right ventricle. We identified major structures of the right ventricle and opened up the right atrium. We chose to dissect the ventricles before the atria because it was much easier to identify the ventricles due to their larger size. We then proceeded to perform the same steps on the left ventricle. We followed the curvature of the coronary blood vessels as a guideline to dissect both ventricles.

#### 2.3. Lungs

We inflated the left lung using a tube connected to the air valve in the lab. We then cut the left lung down a second-generation bronchus all the way to where the branching was too small to see. We did this to further investigate the structure of the lungs.

