Announcements E-mail draft of paper to Nelson nugobor@uoregon.edu (10 am + A-L 12 n) or Courtney czesbau3@oregon.edu (M-Z 12 n + 2 pm) today if 021919 presentation. Also e-mails to group members for feedback. .doc or .docx file. Q?


Group Exchange Feedback on papers. Any major problems to discuss? If not, OK to be brief now, give state of paper or how far along, but follow-up with detailed e-mails to each other. Again, this is part of the participation score.

Heart Models Review anatomy in groups of 2-3. Heart Dissections! More fun!! :)

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Study & then test each other on the structures listed on p. 6-2 in your Lab-Lecture Manual!

Careful w/pointers, fingernails & jewelry, as models are hand-painted & expensive!
After reinserting the paper and closing your model, bring it up to the front desk prior to dissection.

Take a look at the instructor’s model to get an idea of where 4 major incisions will be made!
Dissection
Steps

1. Identify the pericardial sac and the heart in situ.

2. Make an incision through the parietal pericardium to observe the heart within the pericardial sac.
3. Remove the heart from the pericardial sac.

Best to use scissors to separate from great vessels from the back or posterior!
See how many of the 20 structures in the model listed on p. 6-2 you can ID on the specimen!

4. Study the external surface of the heart.
Likely tough due to fat, H₂O loss, preservatives + settling!

5. Identify coronary arteries and cardiac veins.
Can you find any openings or valves? May be tough due to compression!

6. Dissect the right atrium of the heart.
Requires deep cuts through thick heart muscle!

7. Dissect the right ventricle of the heart.
Requires deep cuts, again! Note the thick L ventricle wall!

8. Dissect the left atrium and left ventricle of the heart.
1st use pins to fix your specimen in the tray, then apply gentle traction & cut the pericardial sac.
Expose the heart!
Initial atrial incision
Thick walls!
Papillary muscles and chordae tendineae!

Huge wall thickness!
Transect Great Vessels

Great Vessels from Above!

Pulmonary Trunk  Aorta  Superior Vena Cava

SOURCE: H Soukup & K Schultz, Specimen Dissection & Photography Extraordinaire! 2018. All later figures unless noted otherwise.
Review of 4 basic incisions!
Additional Resource Slides
Pericardial Sac In Situ

Pericardial Sac Incision

![Diagram of Pericardial Sac Incision]

- **Visceral pericardium**
- **Parietal pericardium (fibrous layer)**
- **Parietal pericardium (serous layer)**
- **Incision line**
- **Parietal pericardium:** Fibrous layer, Serous layer
- **Pericardial cavity**
  - **Visceral pericardium**
  - **Myocardium**
  - **Endocardium**
Surface Anatomy Anterior

- Superior vena cava
- Ascending aorta
- Left atrium
- Left coronary artery
- Circumflex artery
- Left (obtuse) marginal artery
- Anterior interventricular artery
- Right coronary artery
- Right atrium
- Inferior vena cava
- Right (acute) marginal artery
- Posterior interventricular artery

A
Right Atrium Incision
Right Atrium Internal

- Site of the sinuatrial (SA) node
- Right auricle
- Superior vena cava
- Fossa ovalis
- Interatrial septum
- Tricuspid valve
- Crista terminalis
- Pectinate muscles
- Inferior vena cava
- Coronary sinus opening
- Site of the atrioventricular (AV) node
Left Ventricle Incision

- Aorta
- Left coronary artery
- Circumflex branch
- Great cardiac vein
- Pulmonary trunk
- Anterior interventricular artery