### BIOL 213 Blood Pathology

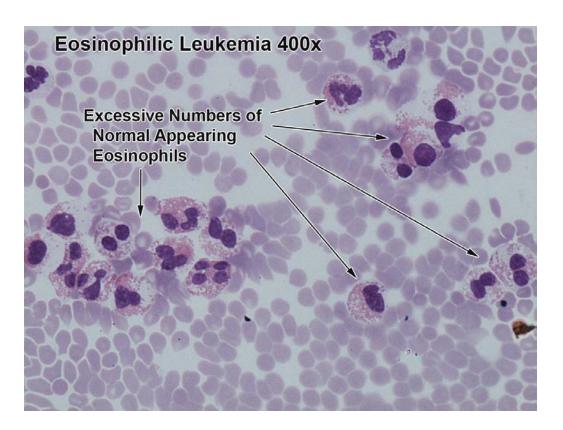
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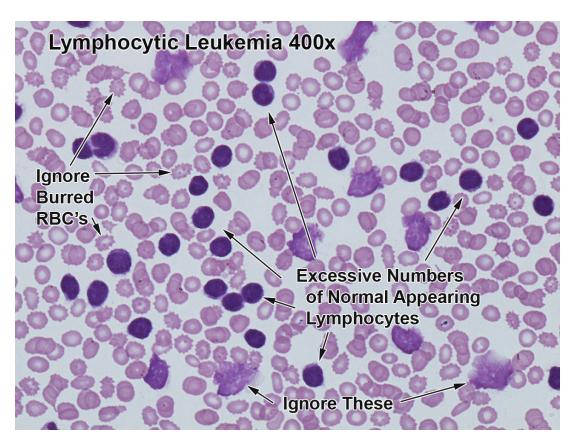
\*\*\*Learn about the different pathologies for BONUS on the midterm.

#### Eosinophilic Leukemia



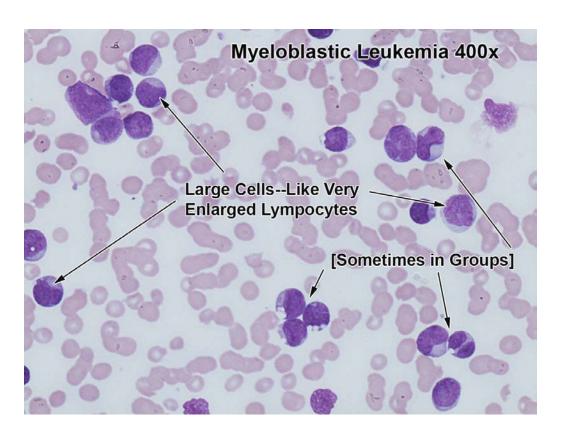
Prof. Olexik's Website

#### Lymphocytic Leukemia

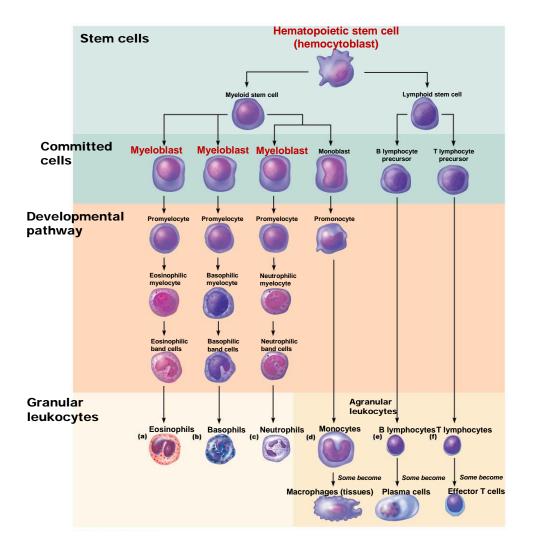


Prof. Olexik's Website

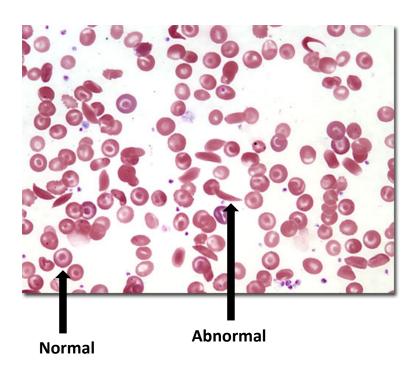
#### Myeloblastic Leukemia



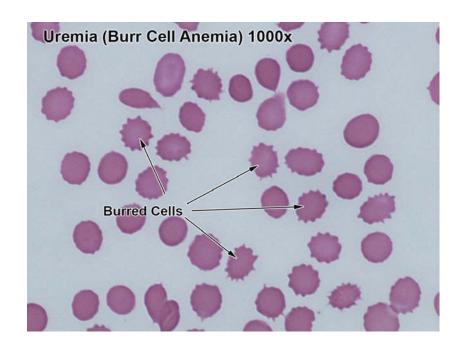
Prof. Olexik's Website



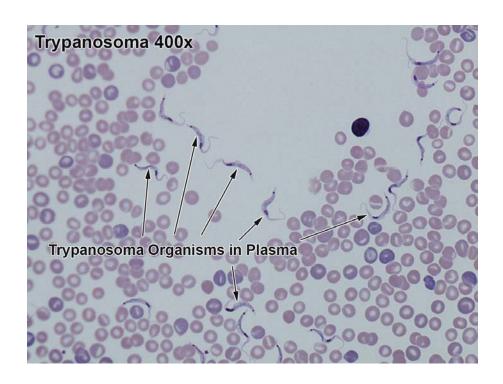
#### Sickle Cell Anemia



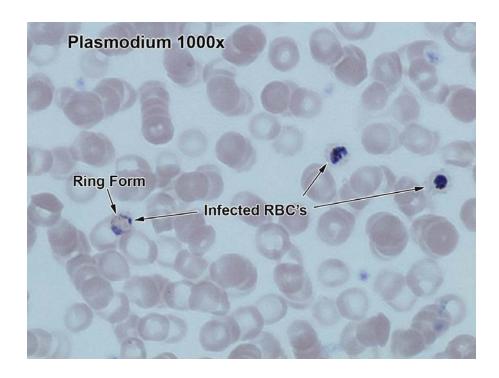
#### Uremia (Burr Cells)



#### Trypanosoma

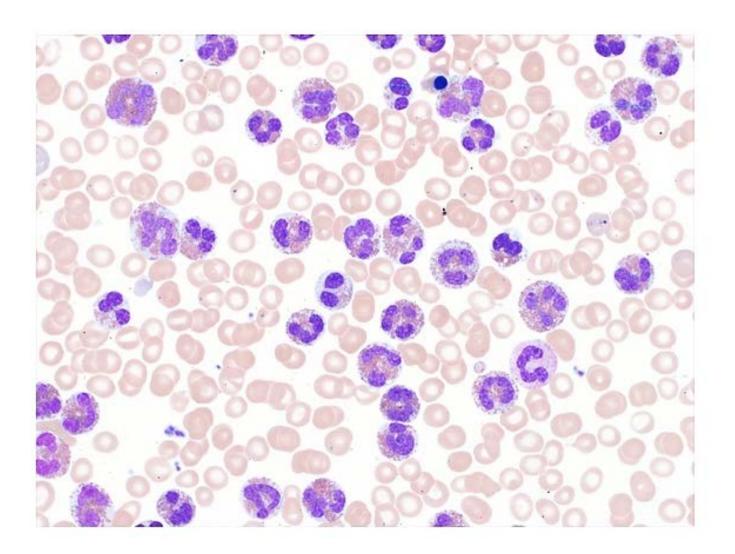


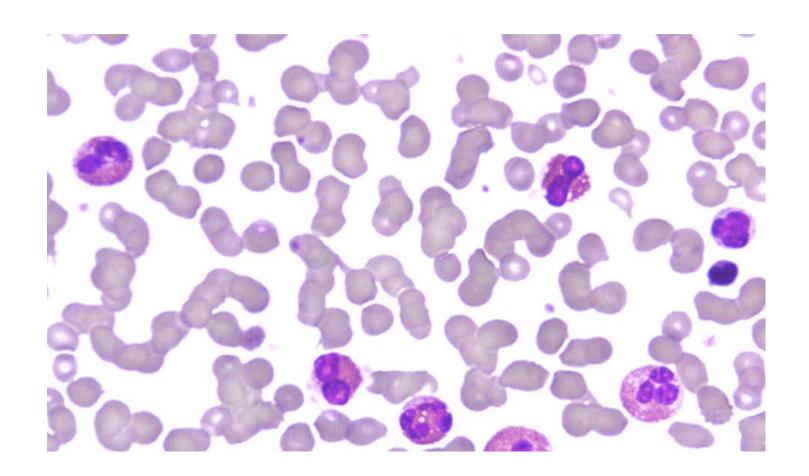
#### Plasmodium

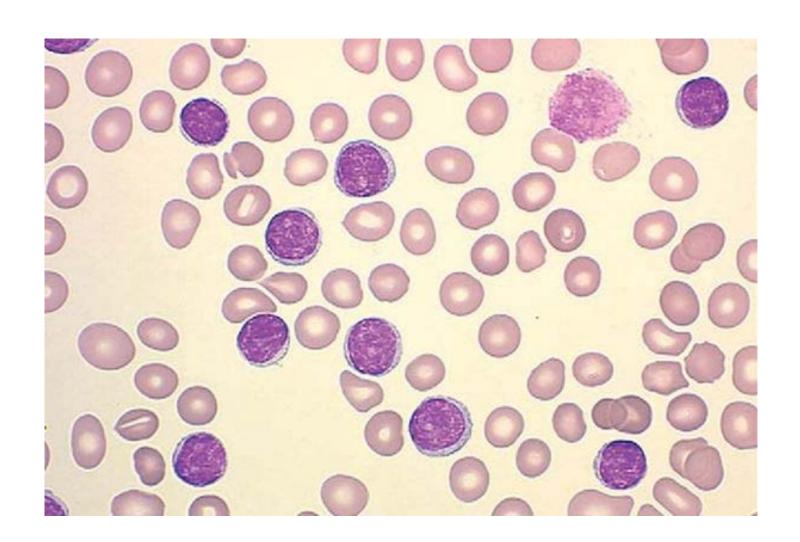


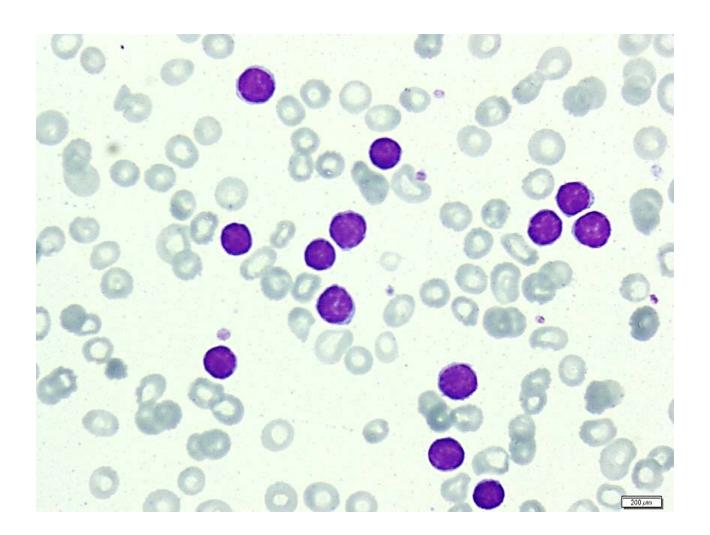
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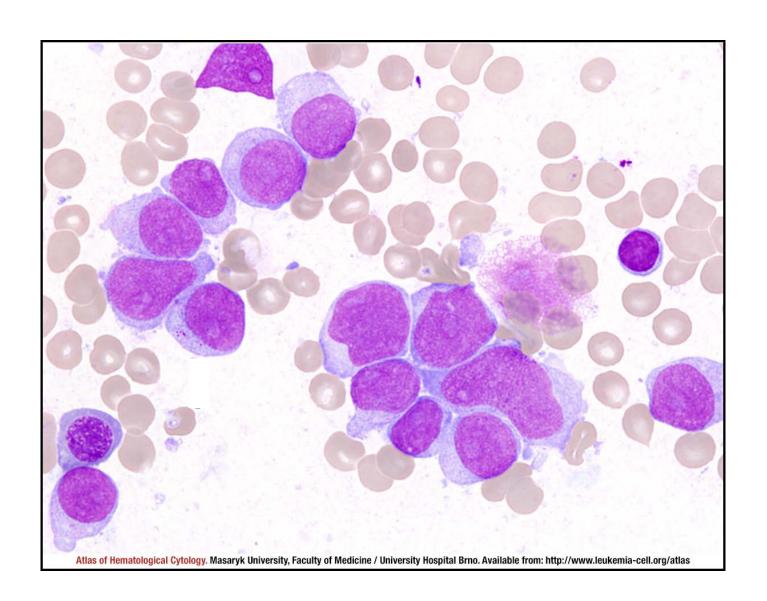
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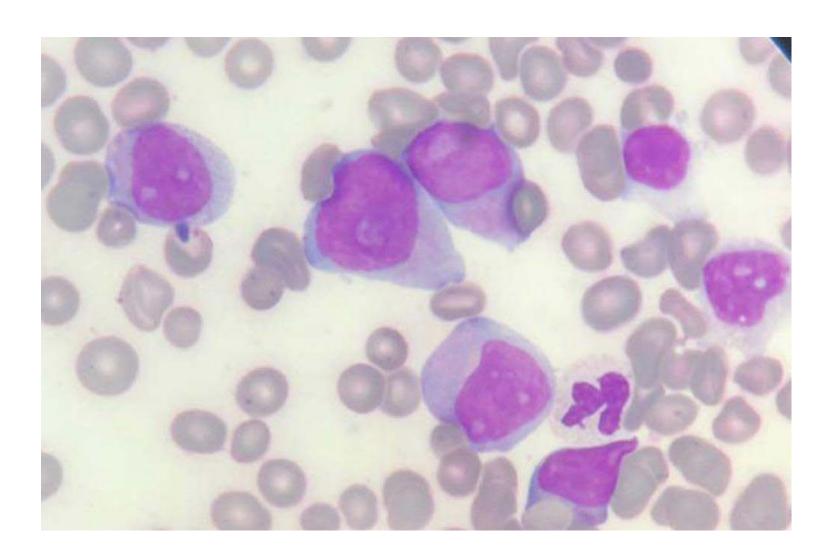


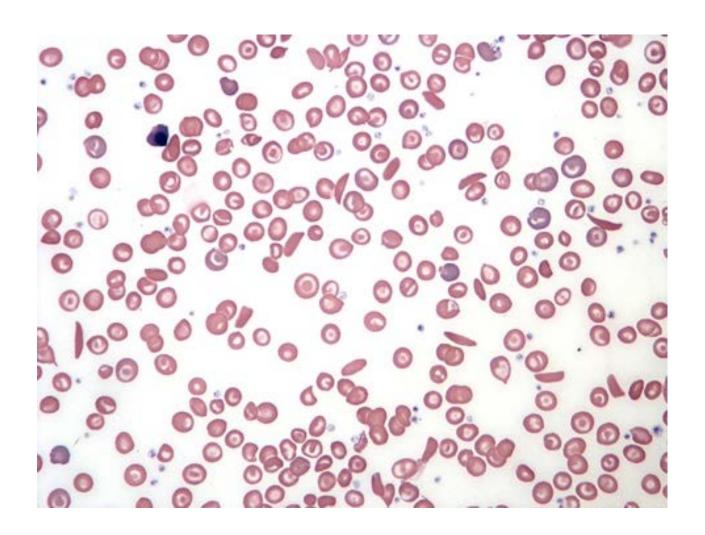


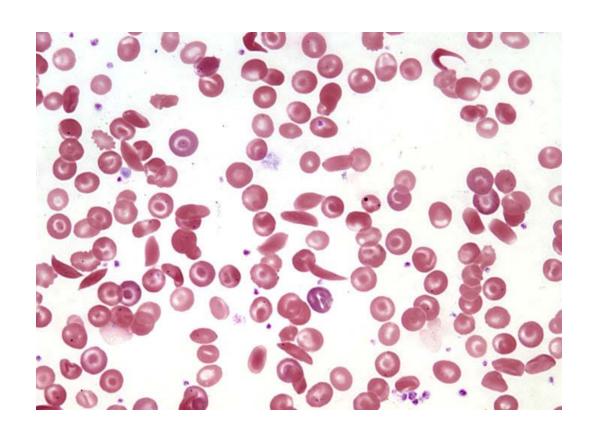


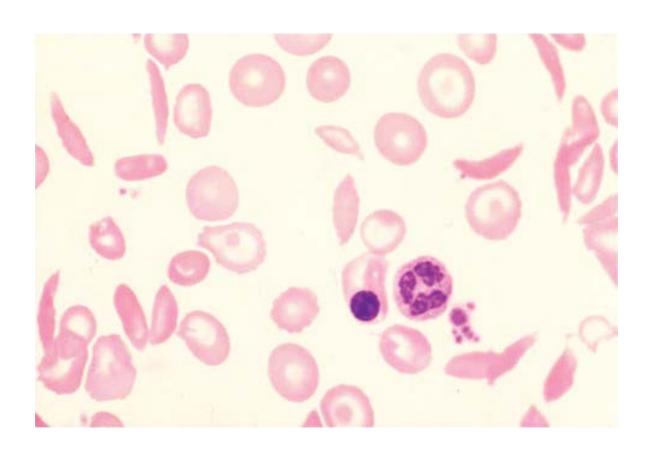


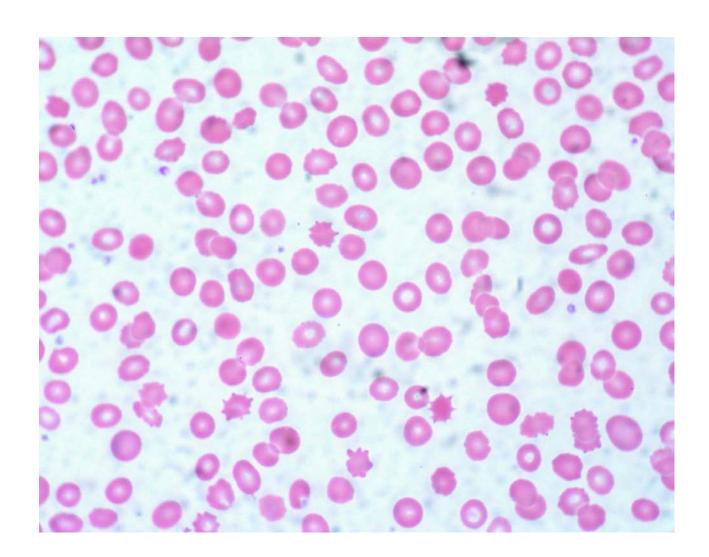


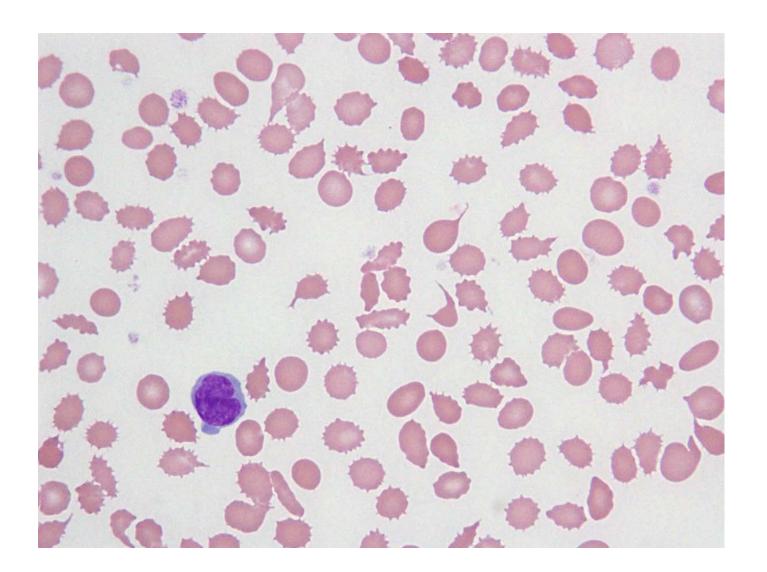


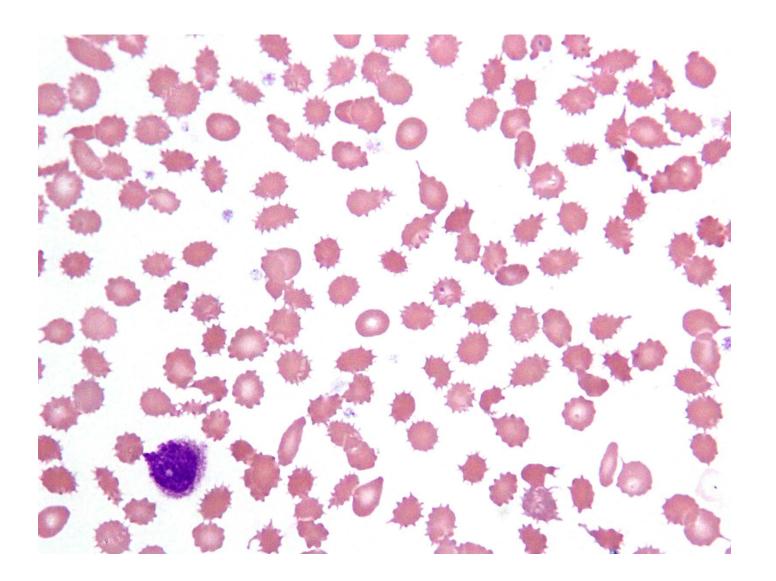


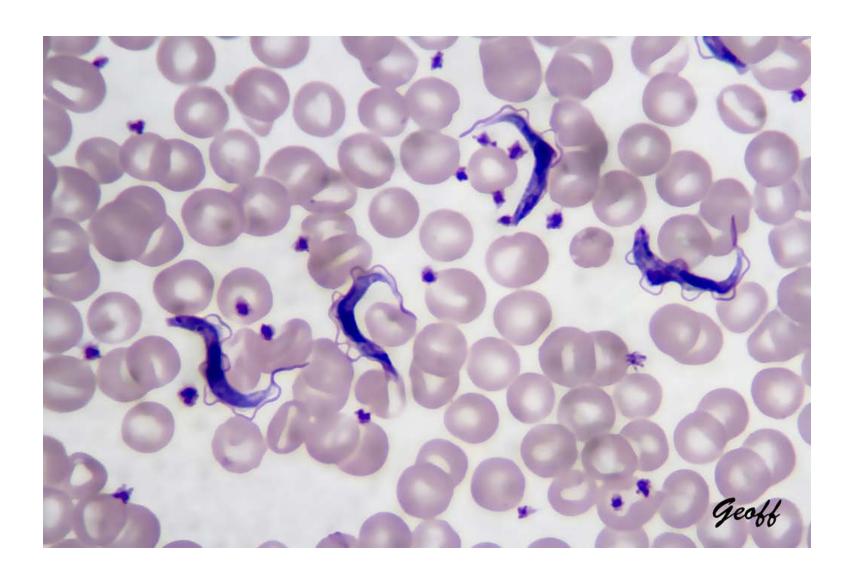


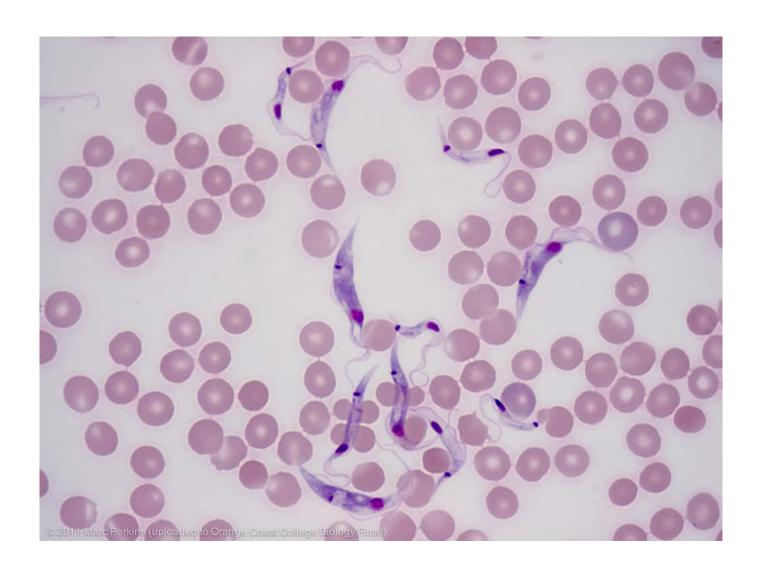


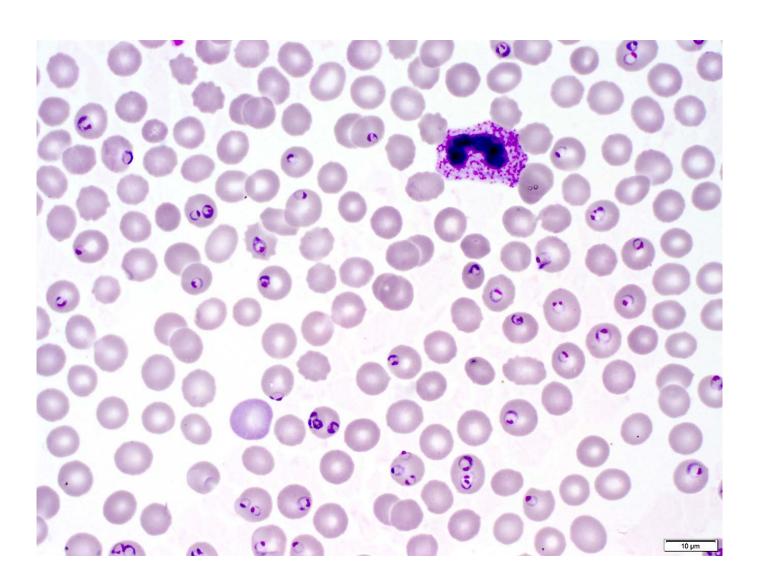


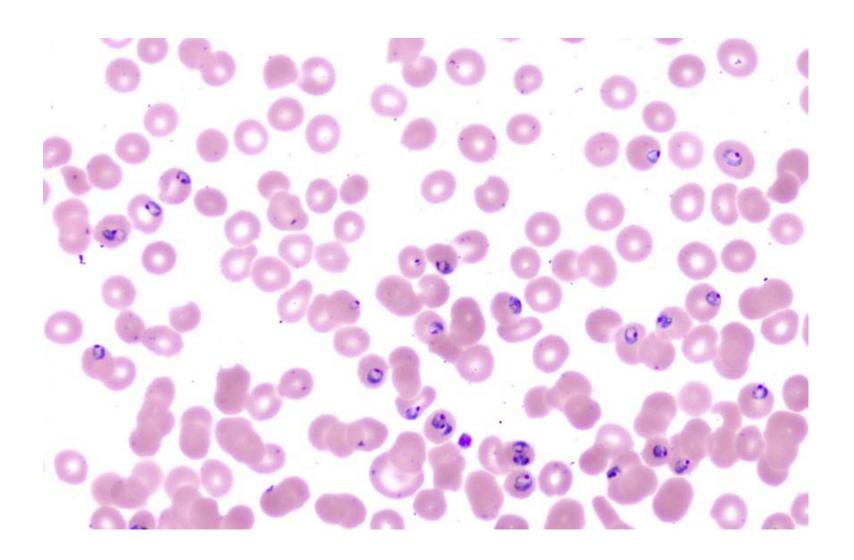












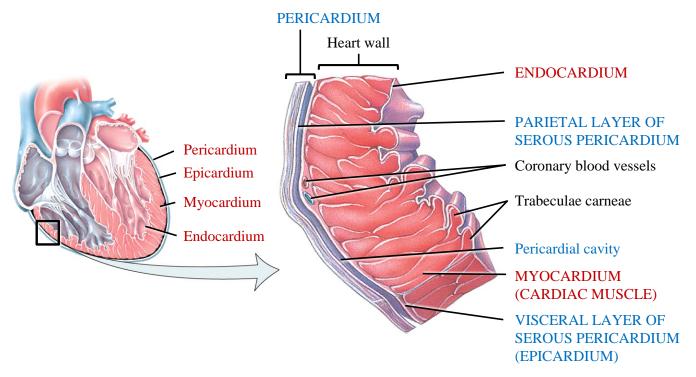
**Heart Anatomy** 

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(a) Portion of pericardium and right ventricular heart wall showing divisions of pericardium and layers of heart wall

Figure 18.4b Gross anatomy of the heart.

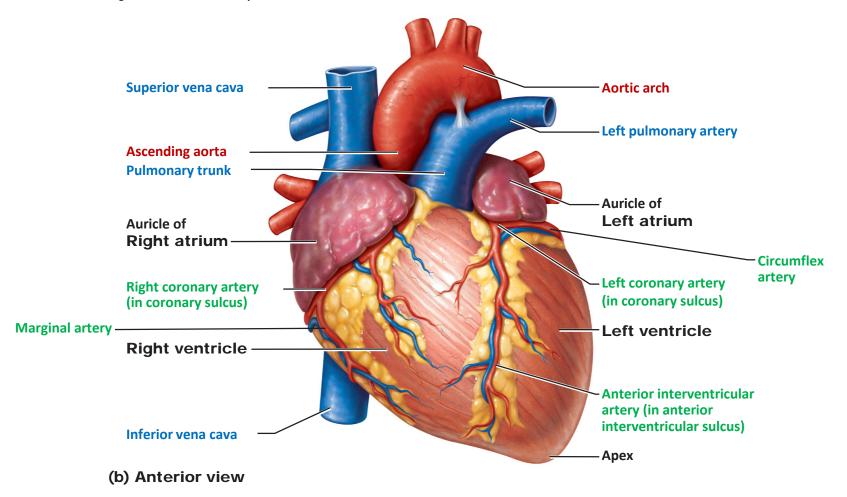


Figure 18.4d Gross anatomy of the heart.

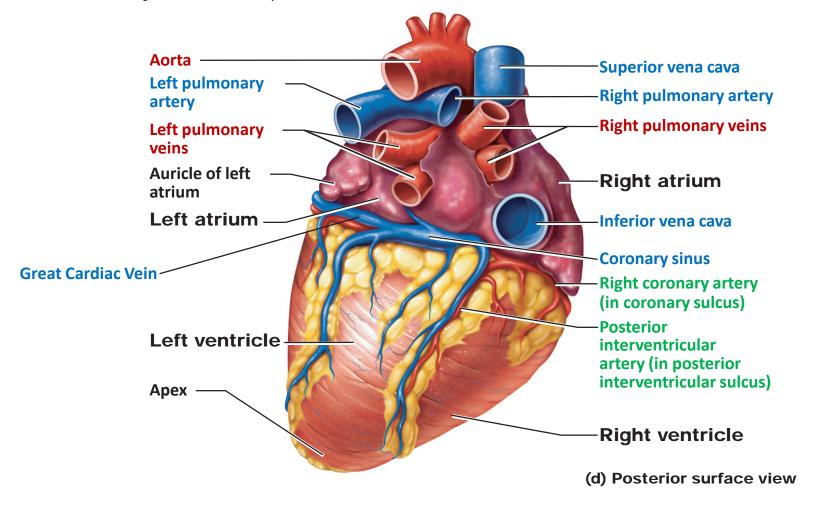
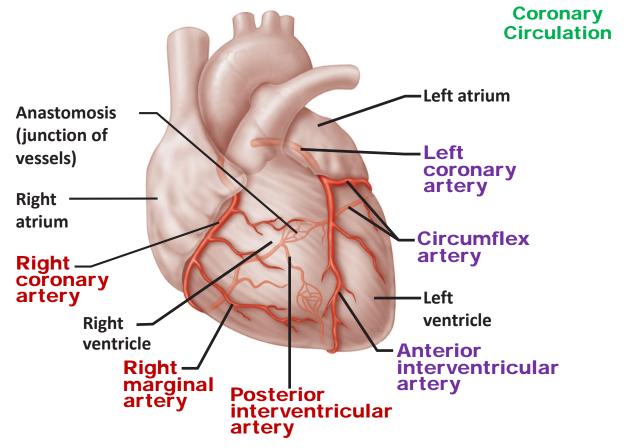
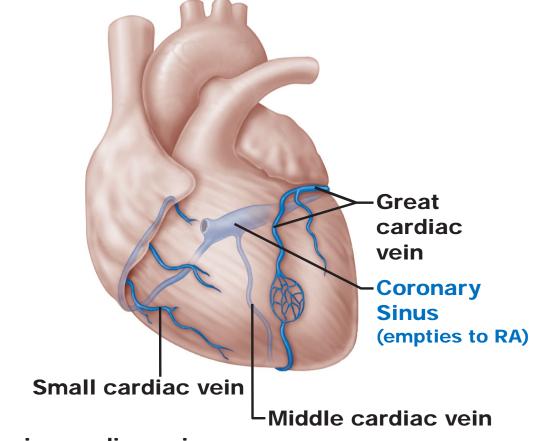


Figure 18.7a Coronary circulation.

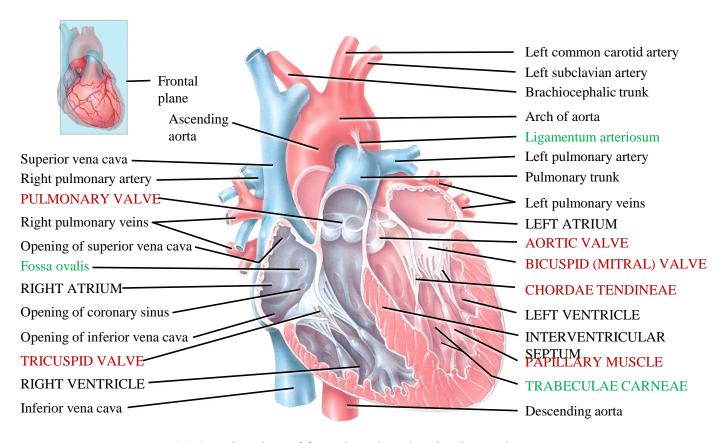


(a) The major coronary arteries

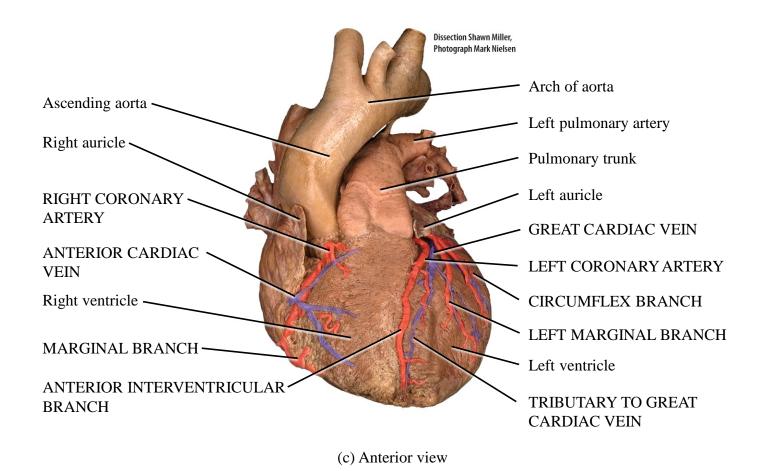
Figure 18.7b Coronary circulation.

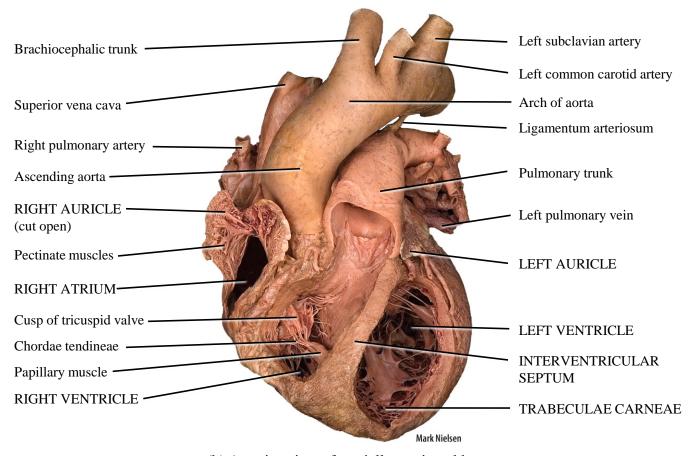


(b) The major cardiac veins



(a) Anterior view of frontal section showing internal anatomy





(b) Anterior view of partially sectioned heart

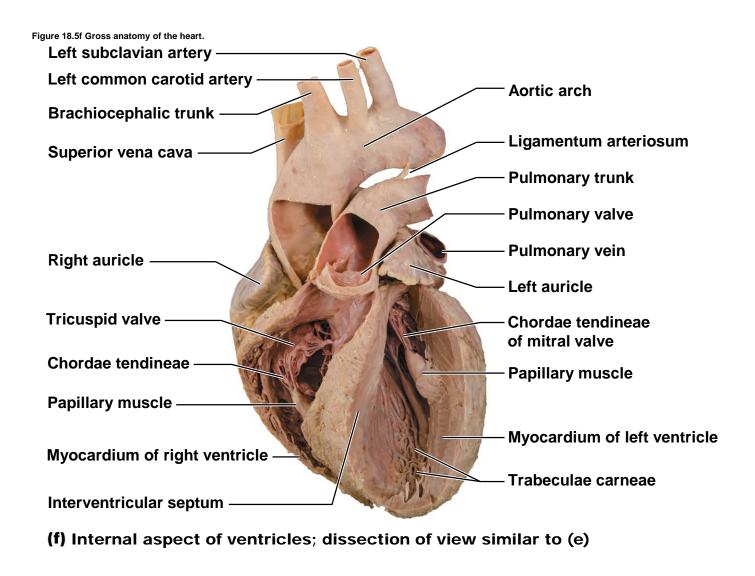
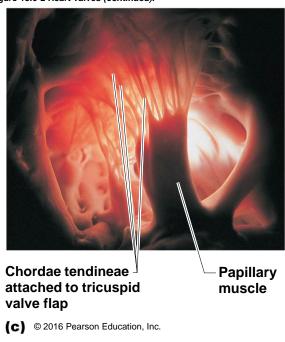
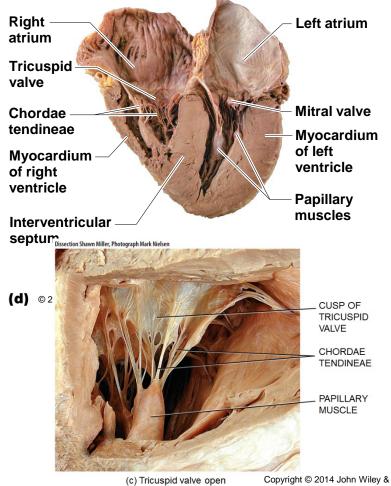


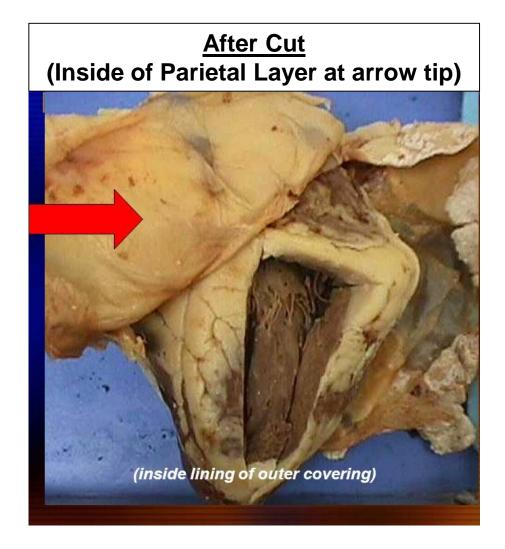
Figure 18.6-2 Heart valves (continued).





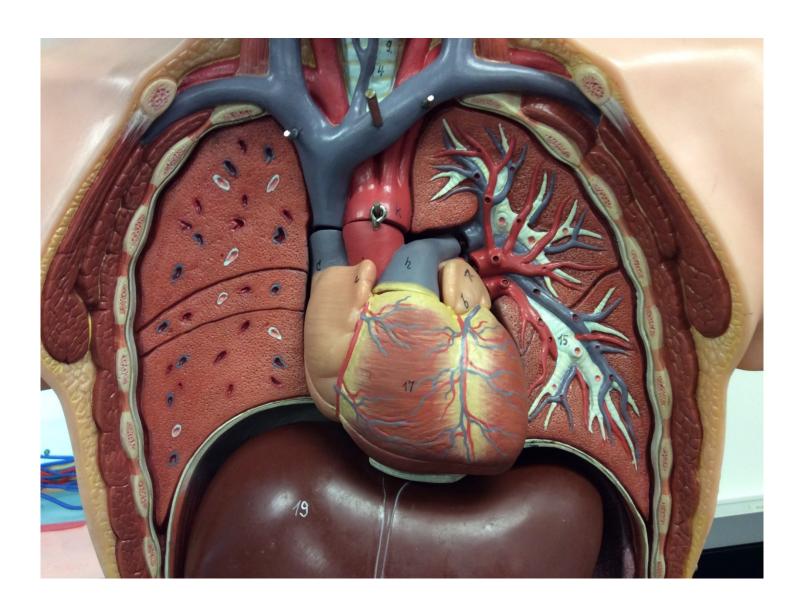
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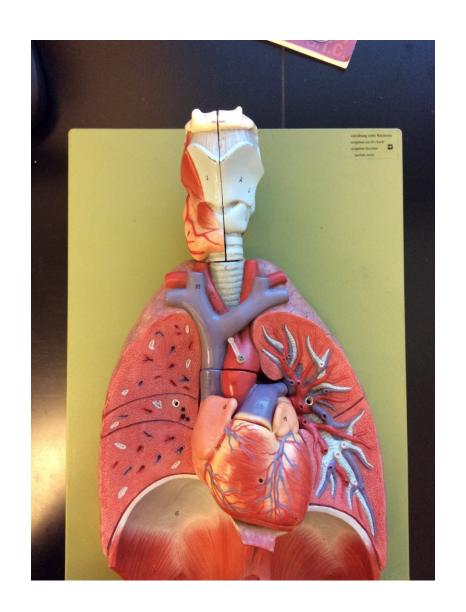


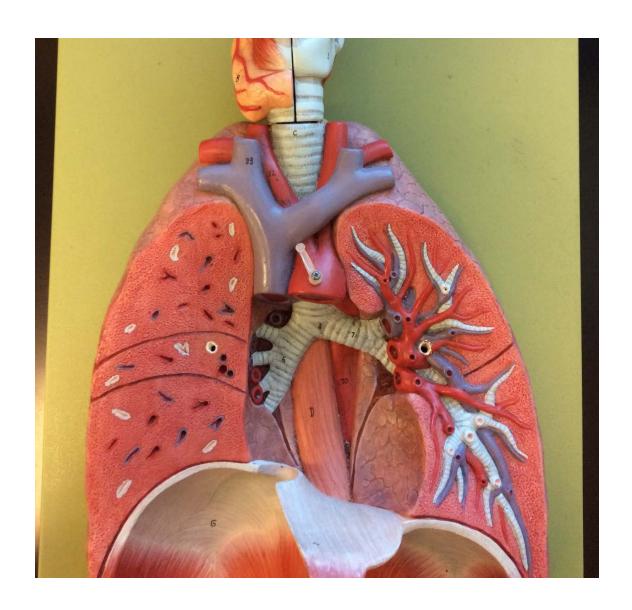


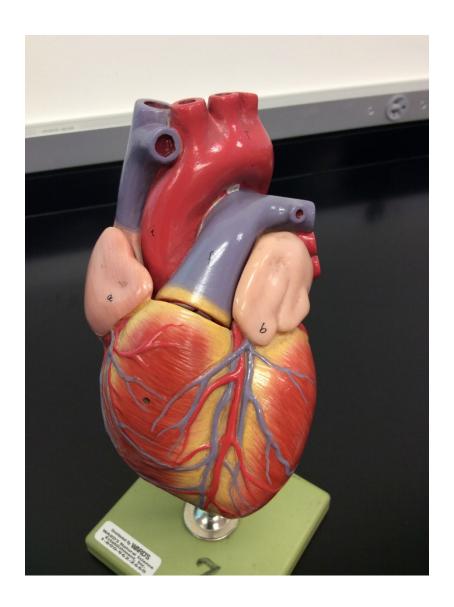
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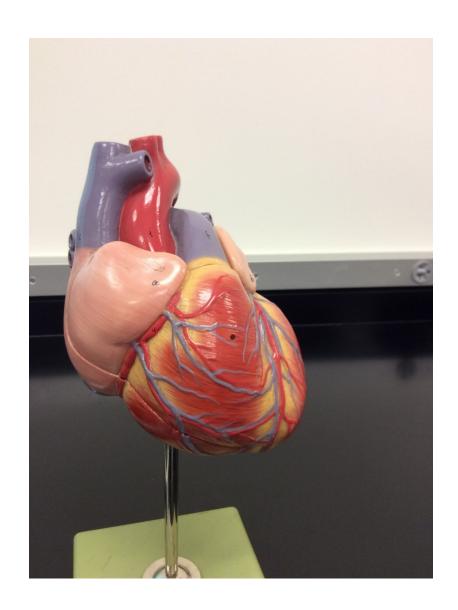


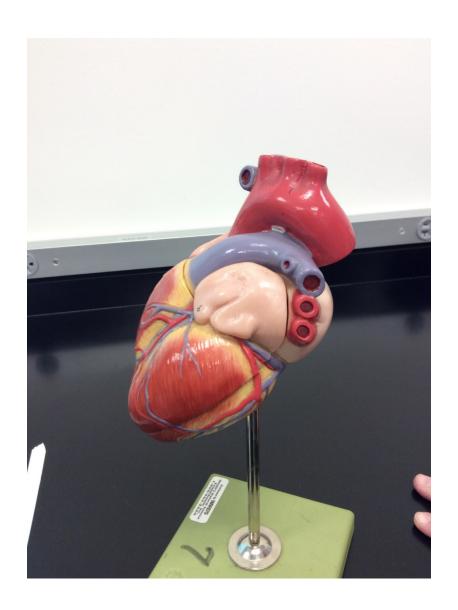




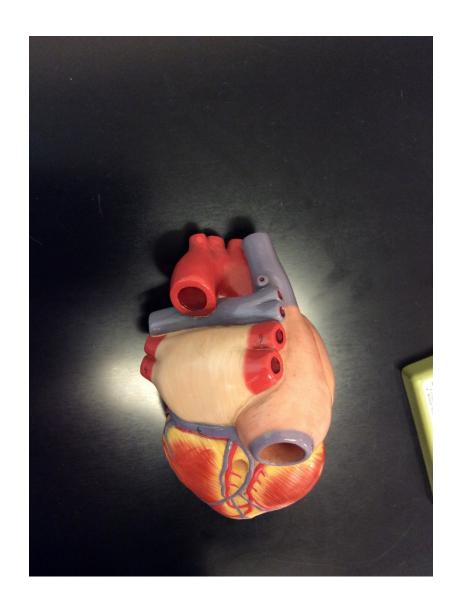


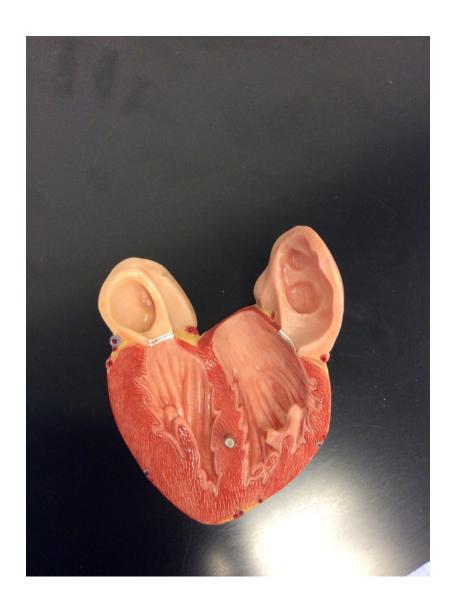
## Human Sized Heart (Intact)







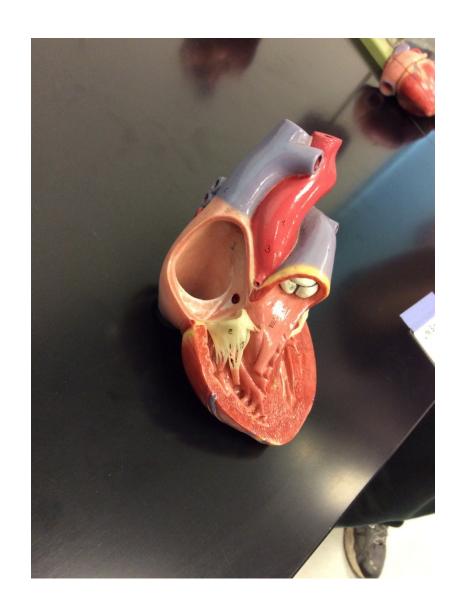


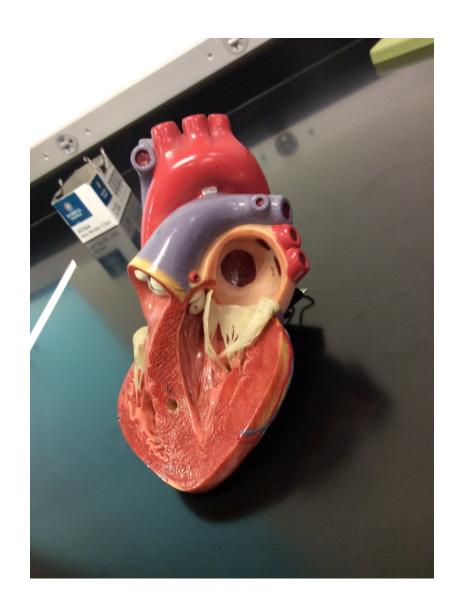


Human Sized Heart (Pulled off the front and looking into it)



Human Sized Heart (Pulled off the front and looking into the rest of it)



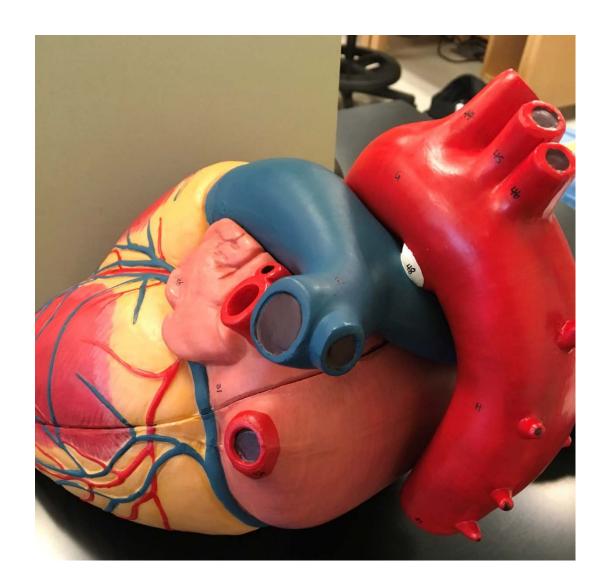




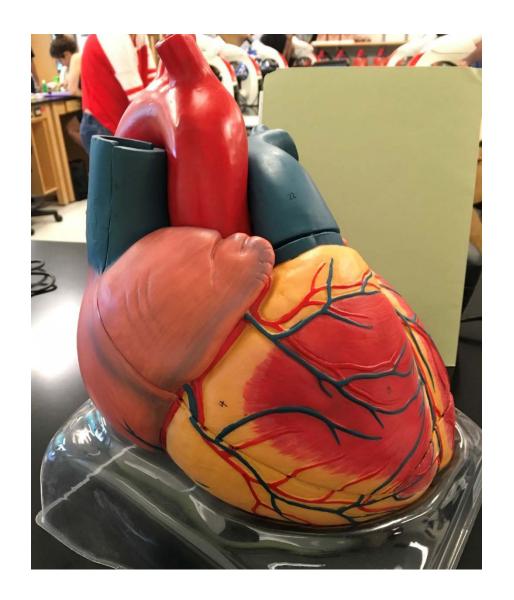
## Enlarged Human Heart (Intact)



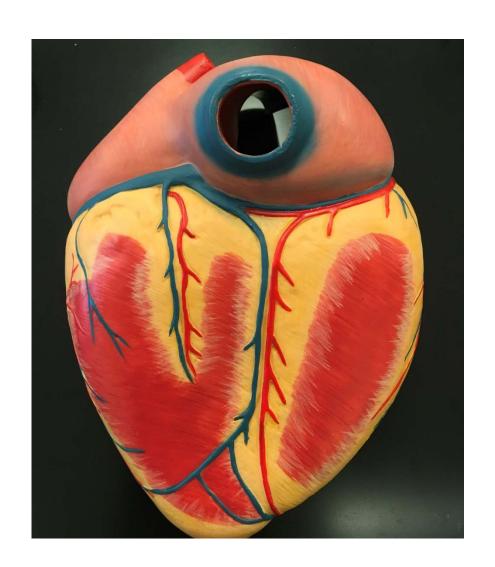






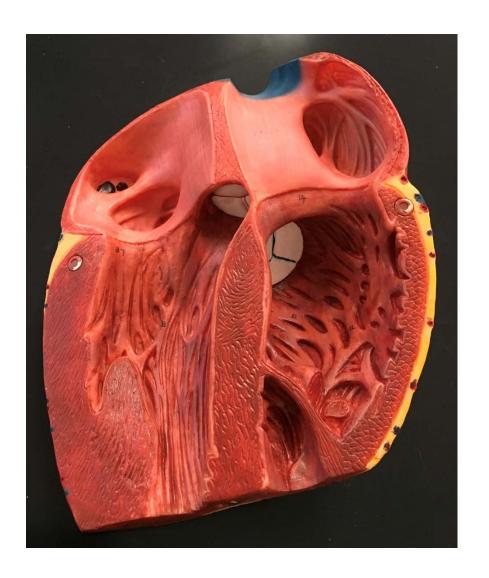




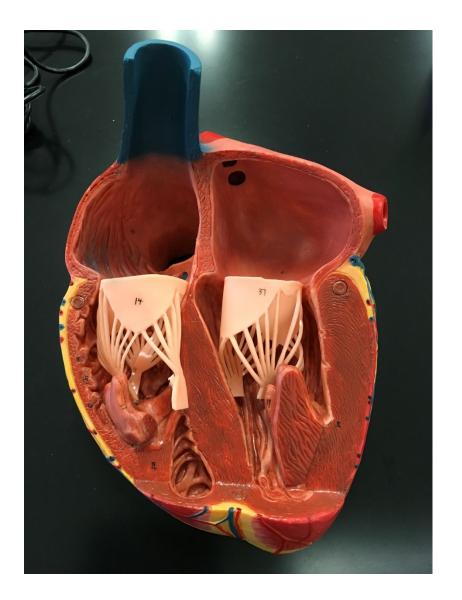




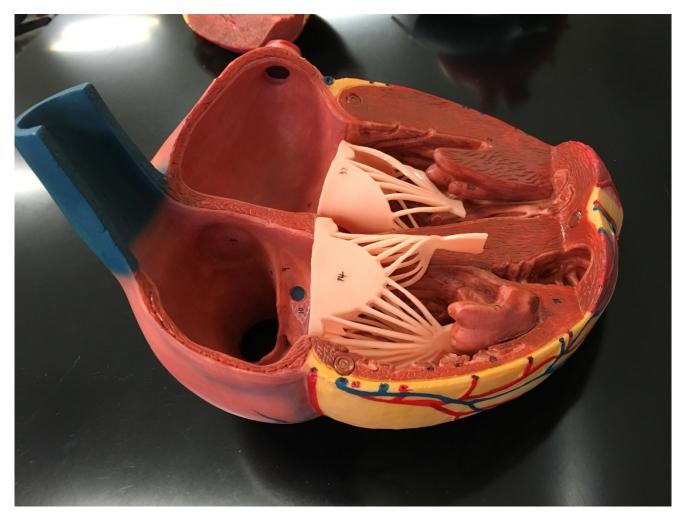
Enlarged Human Heart (Superior Blood Vessels Removed)



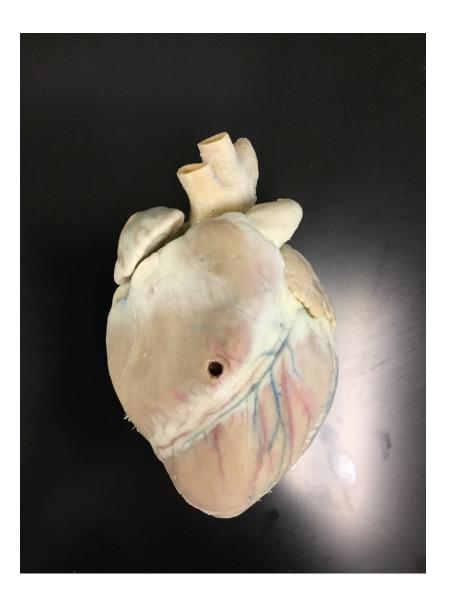
Enlarged Human Heart (Anterior Side Removed with view into anterior half)



Enlarged Human Heart (Anterior Side Removed with view into posterior half)



Enlarged Human Heart (Anterior Side Removed with view into posterior half)







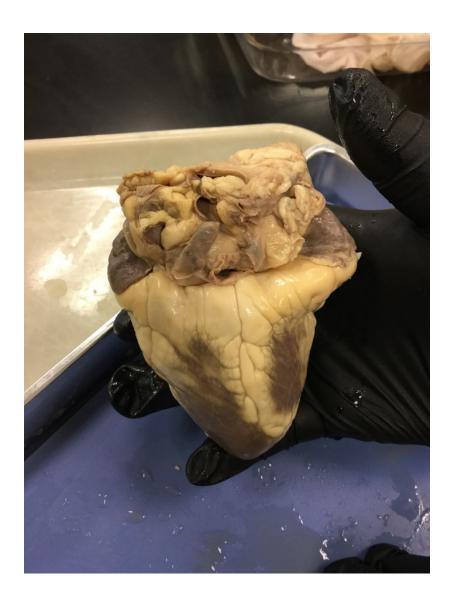




## Real Animal Heart (Dissected)



## Real Animal Heart (Dissected)



## Real Animal Heart (Dissected)



#### Real Animal Heart (Dissected)



#### Real Animal Heart (Dissected)



#### Real Animal Heart (Dissected)

### **EKG Lab:** No Images Needed...see separate handout for this lab

## Respiratory Anatomy (and Histology)

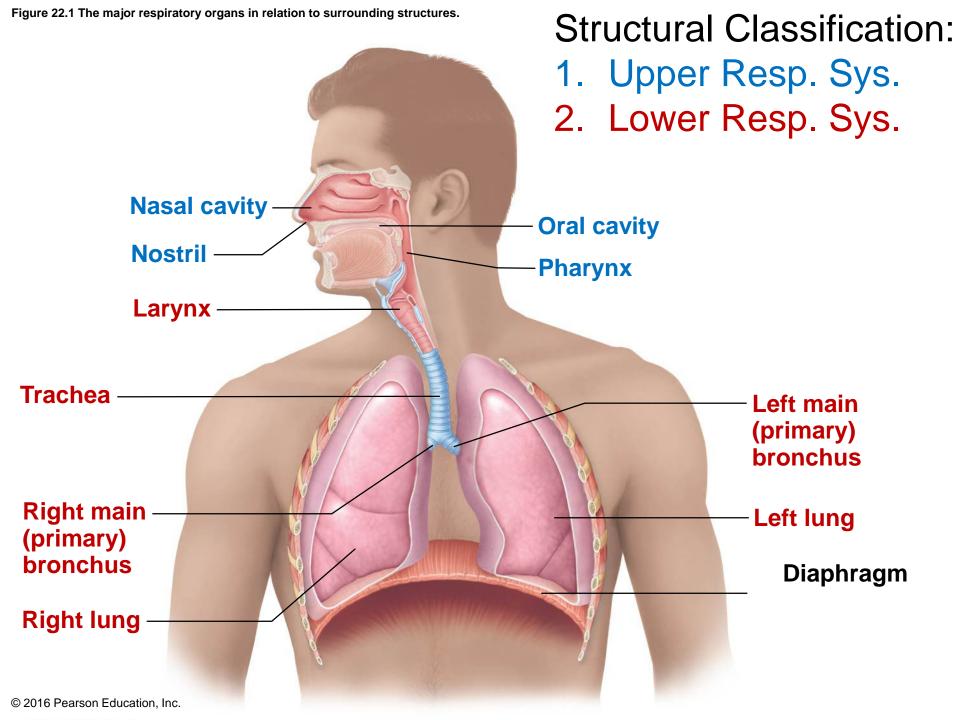
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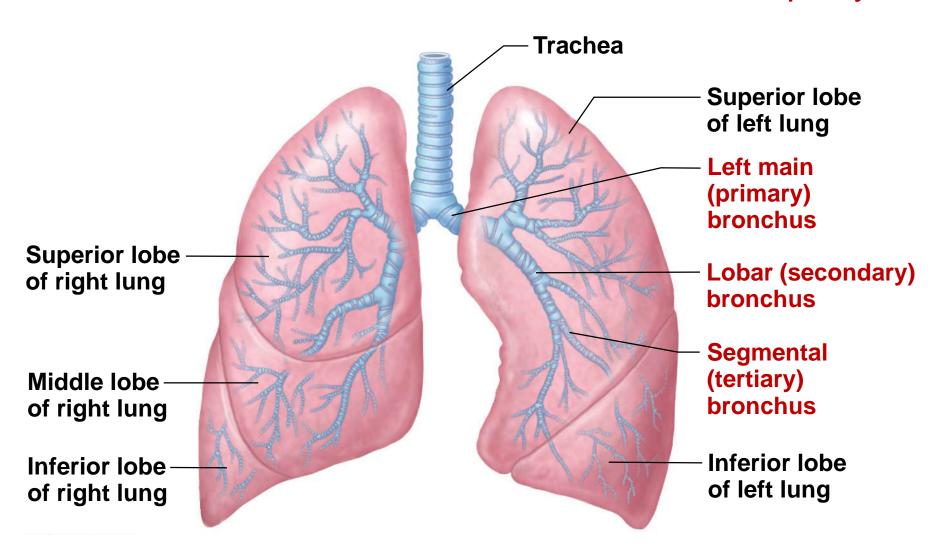
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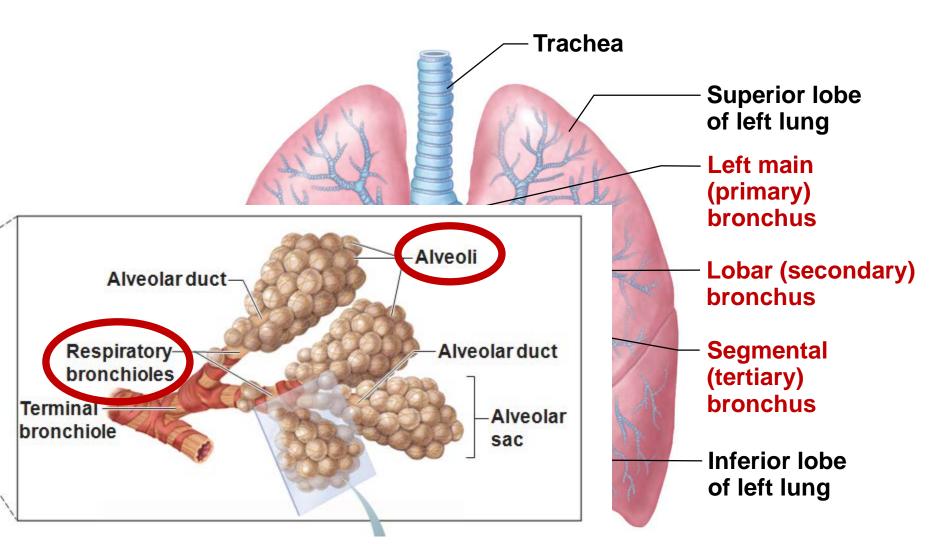
#### Structural Classification:

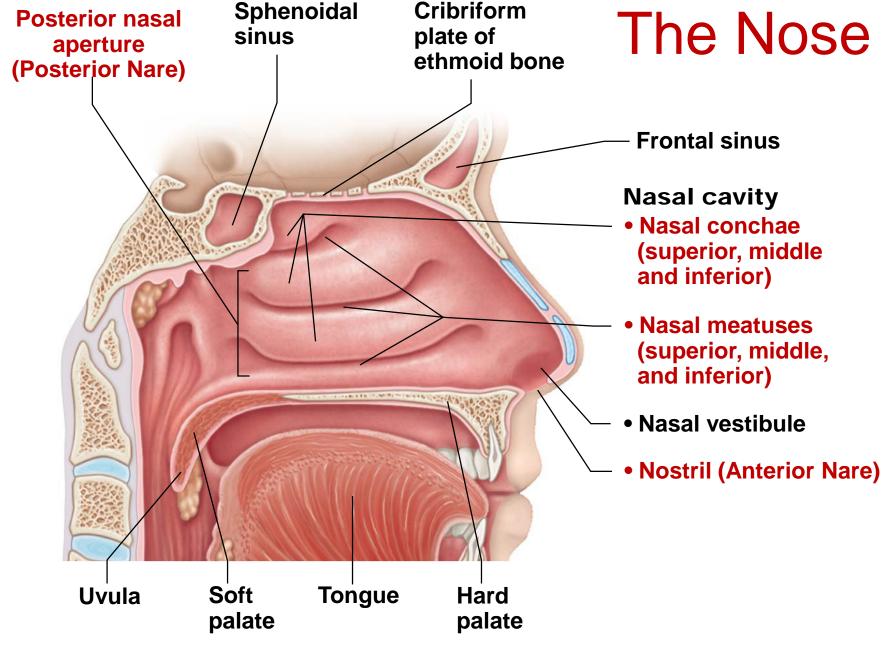
- 1. Upper Resp. Sys.
- 2. Lower Resp. Sys.

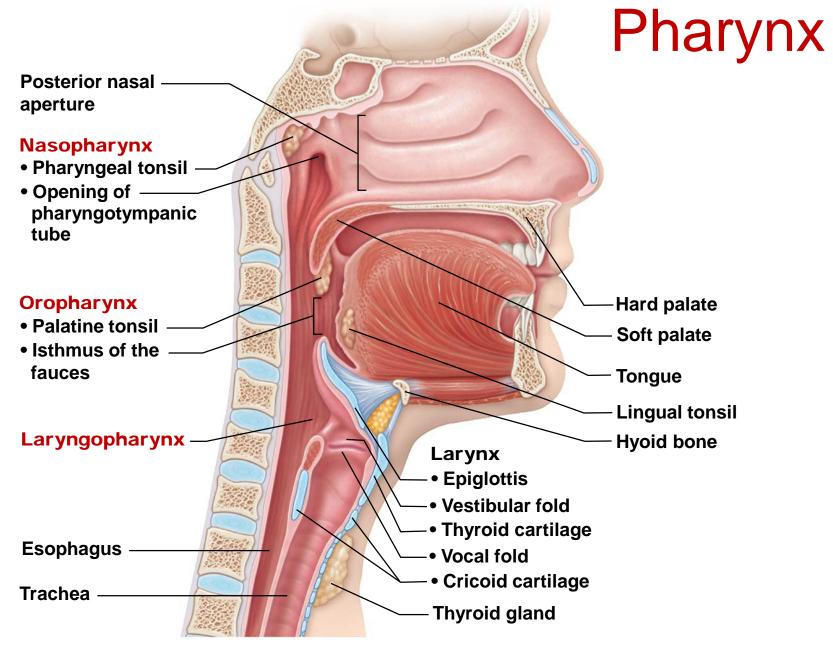


#### Structural Classification:

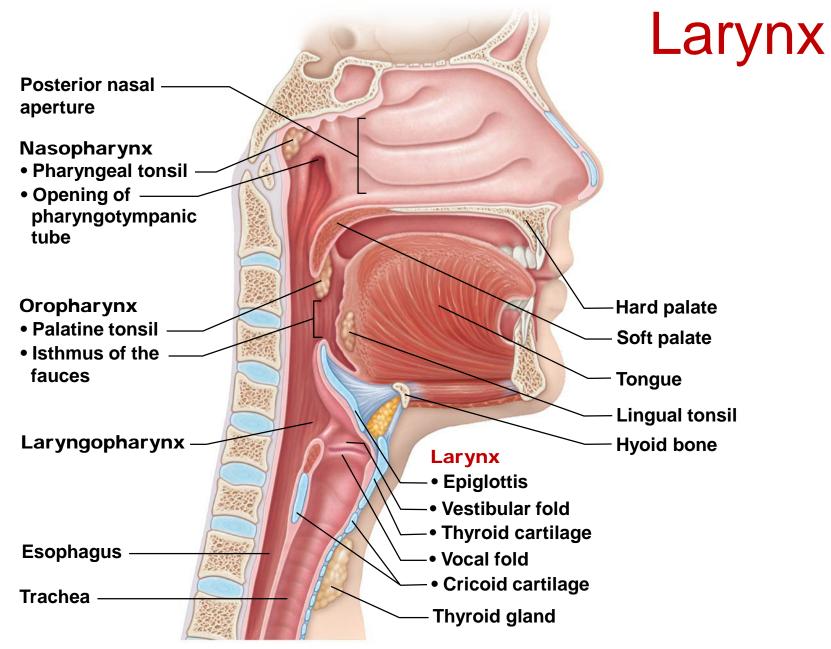
- 1. Upper Resp. Sys.
- 2. Lower Resp. Sys.



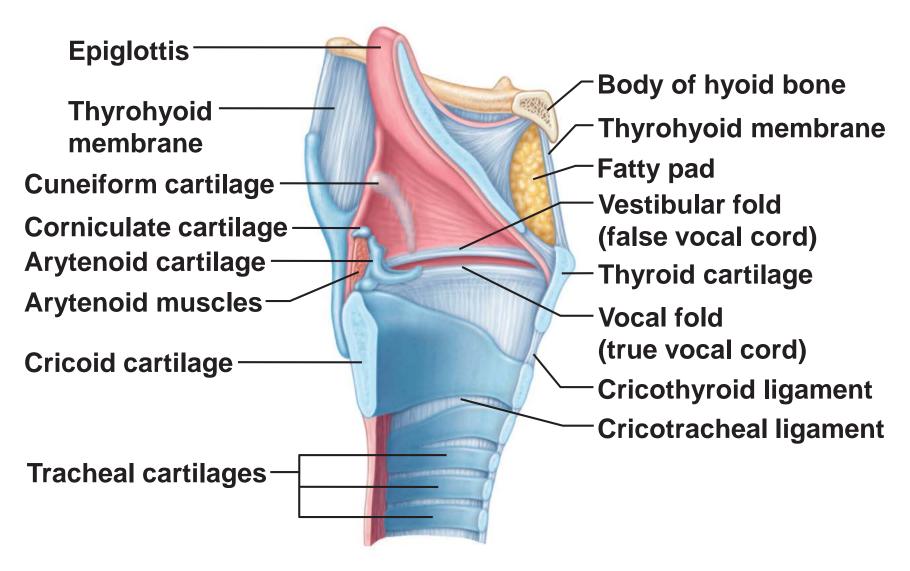




(b) Structures of the pharynx and larynx

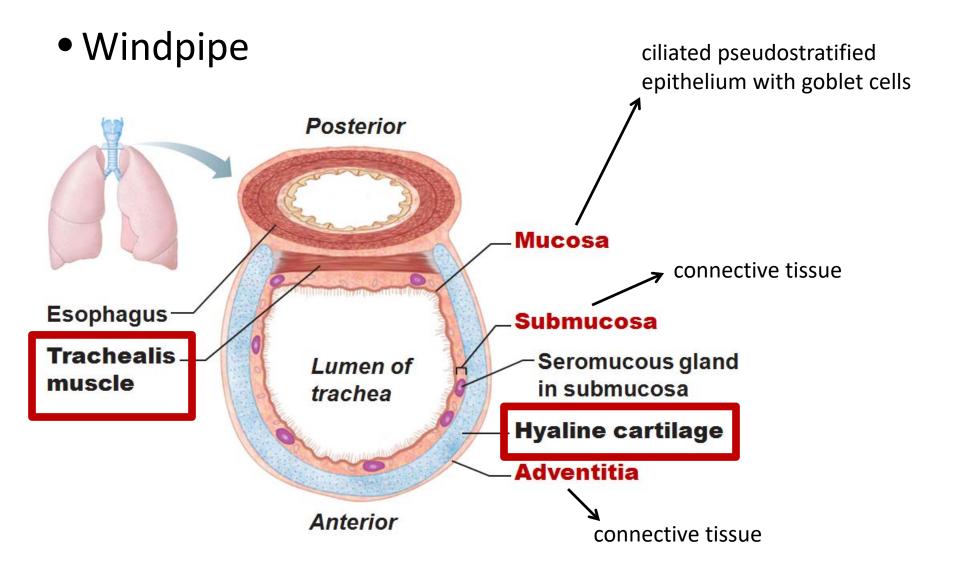


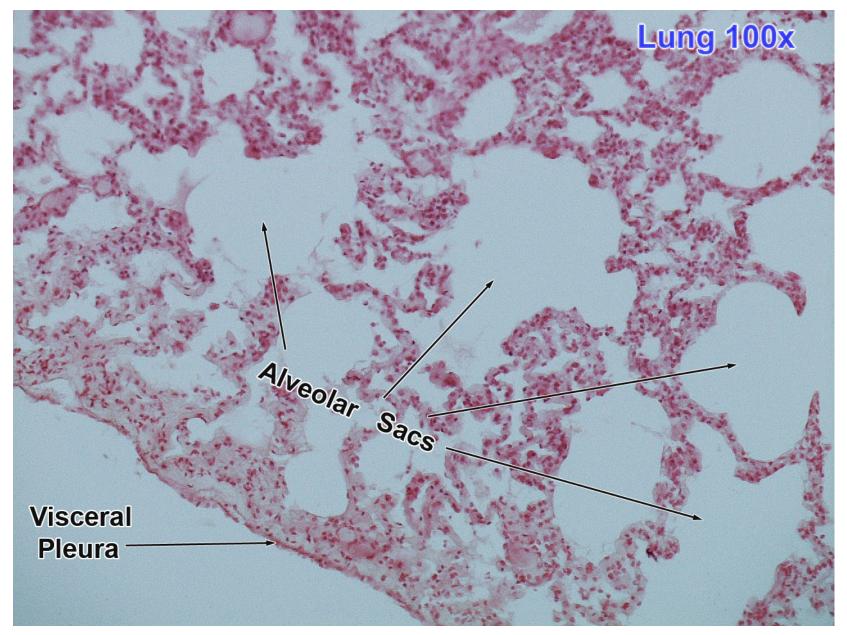
(b) Structures of the pharynx and larynx



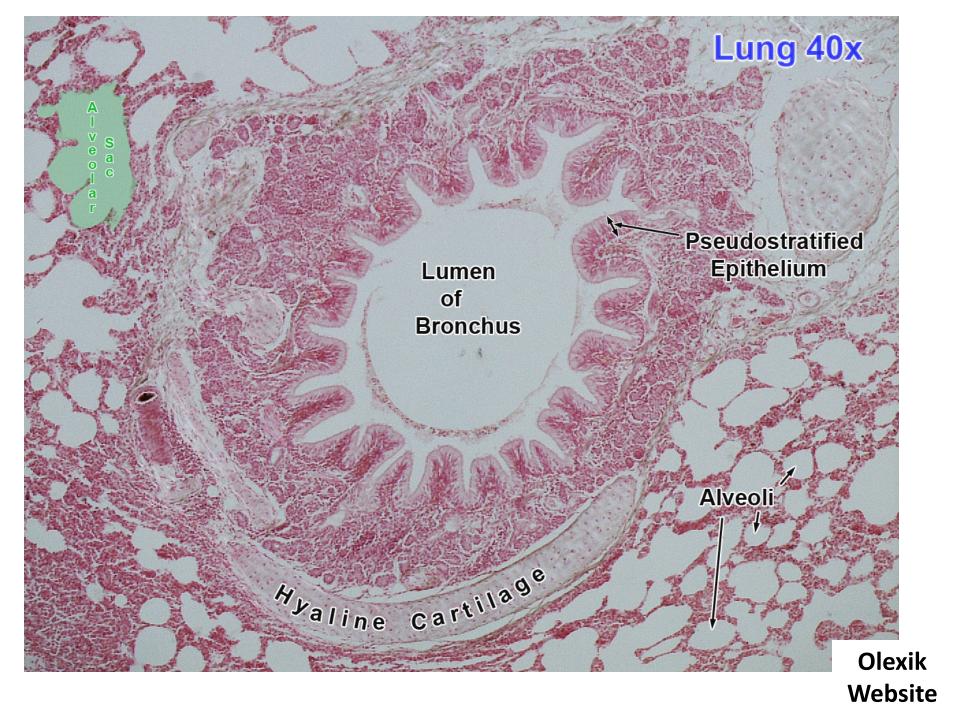
(b) Sagittal view; anterior surface to the right

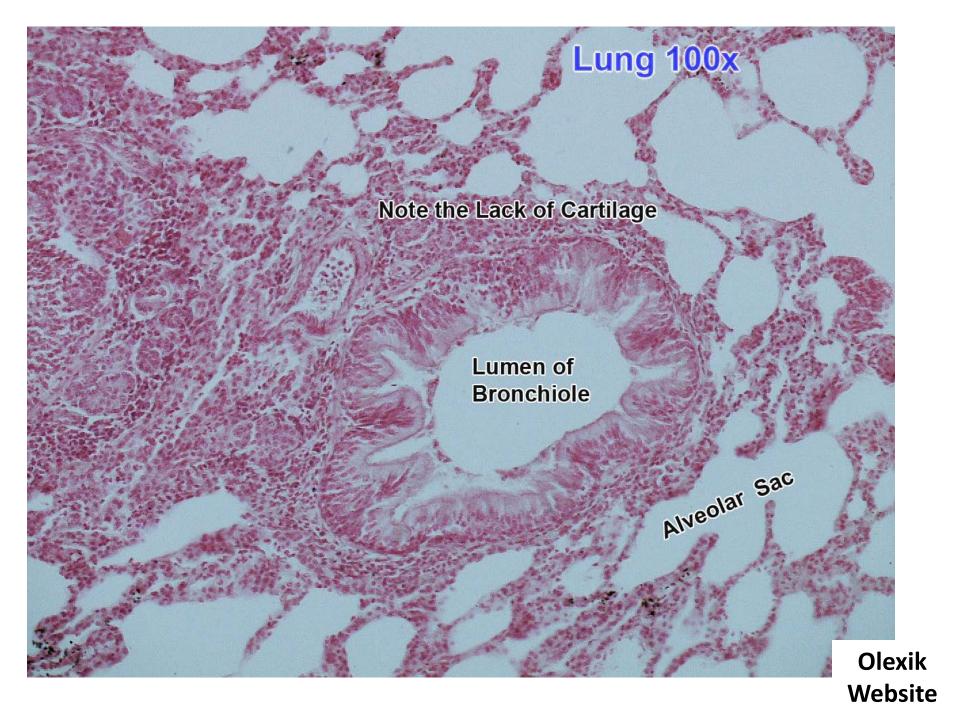
#### Trachea

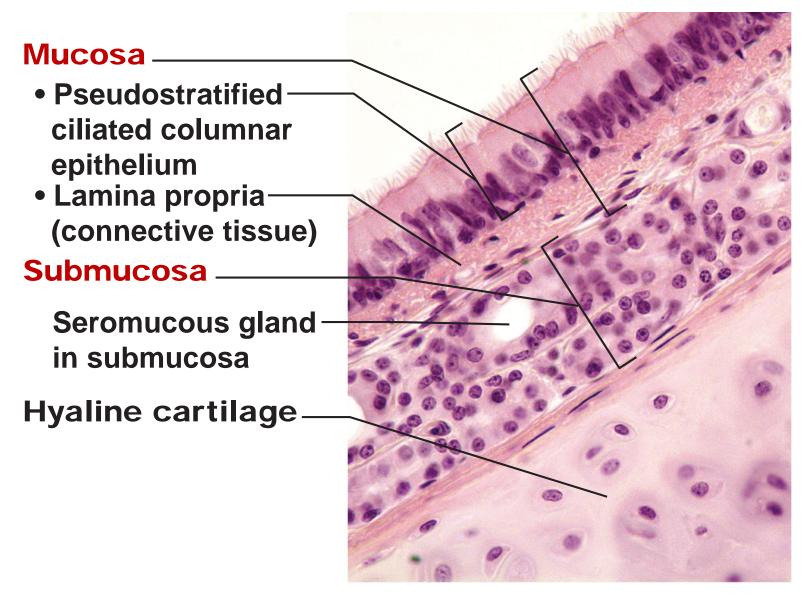




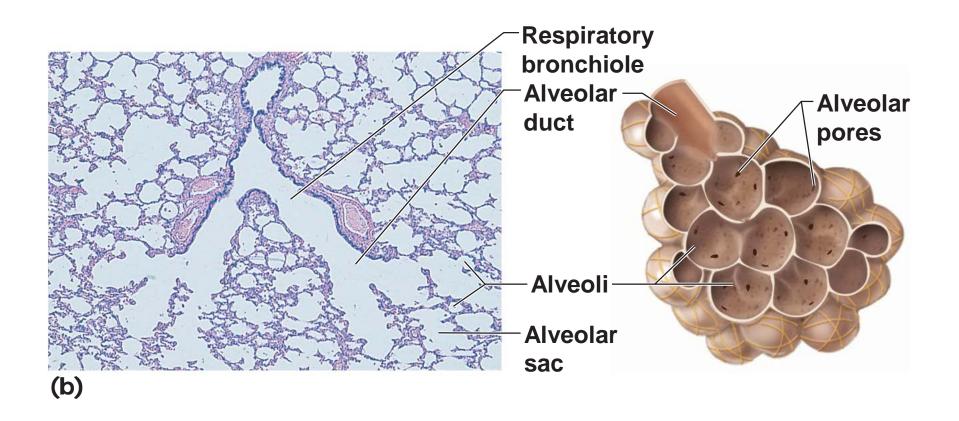
Olexik Website





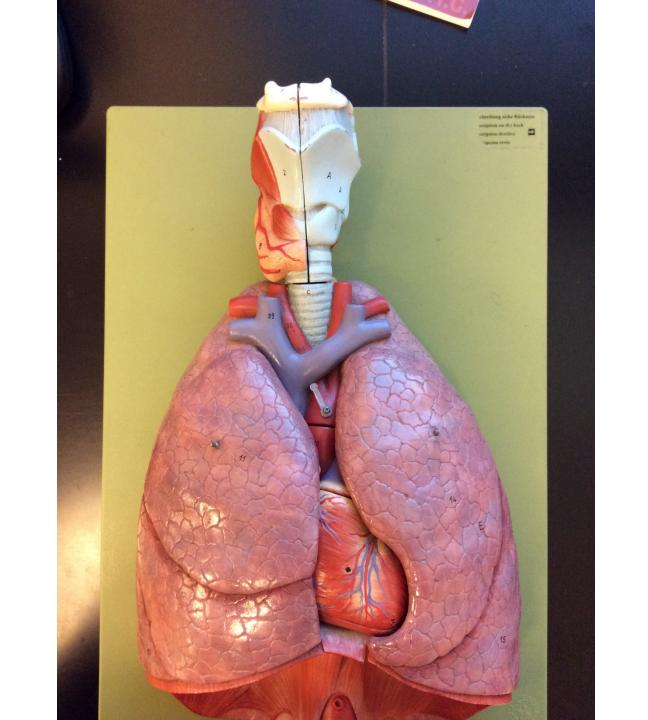


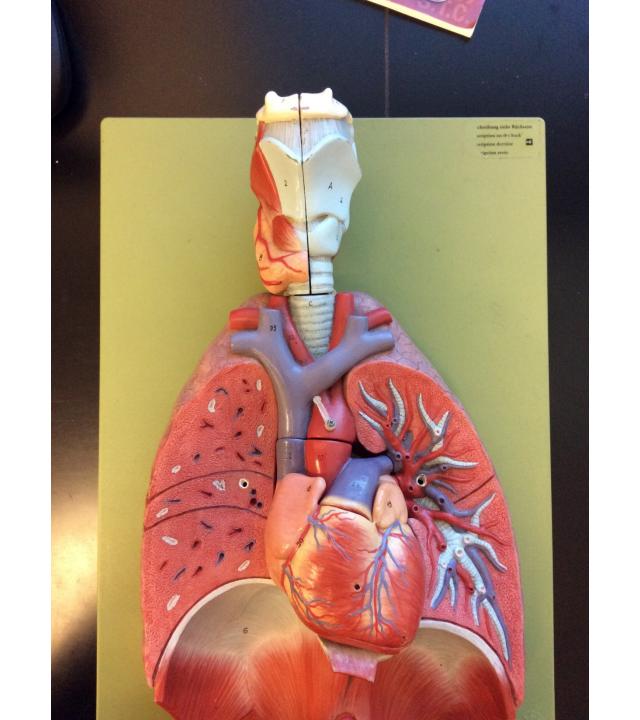
(b) Photomicrograph of the tracheal wall (320x)

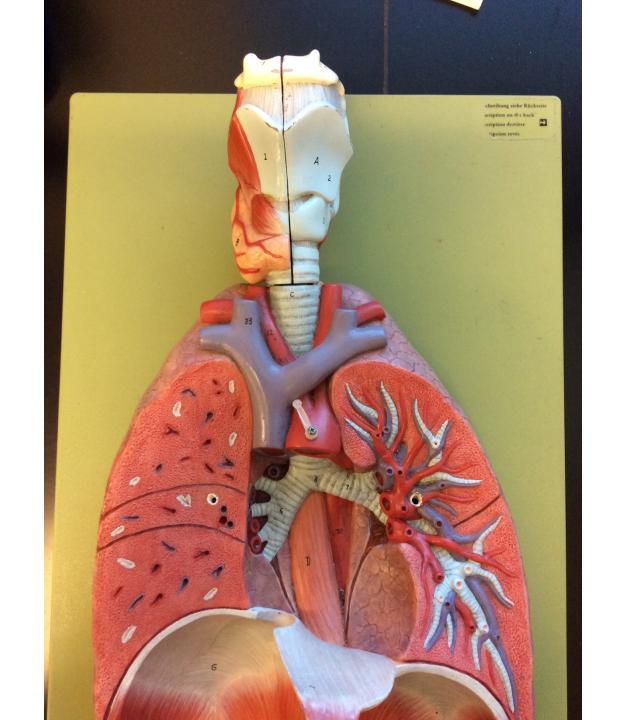


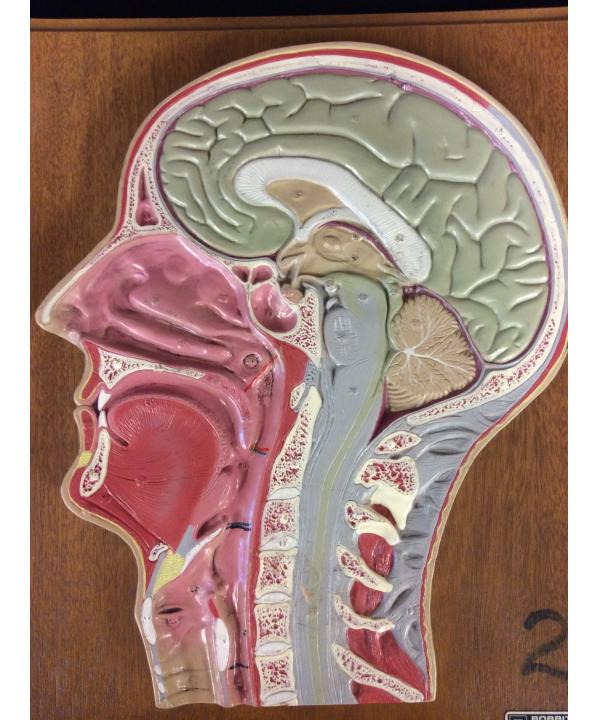
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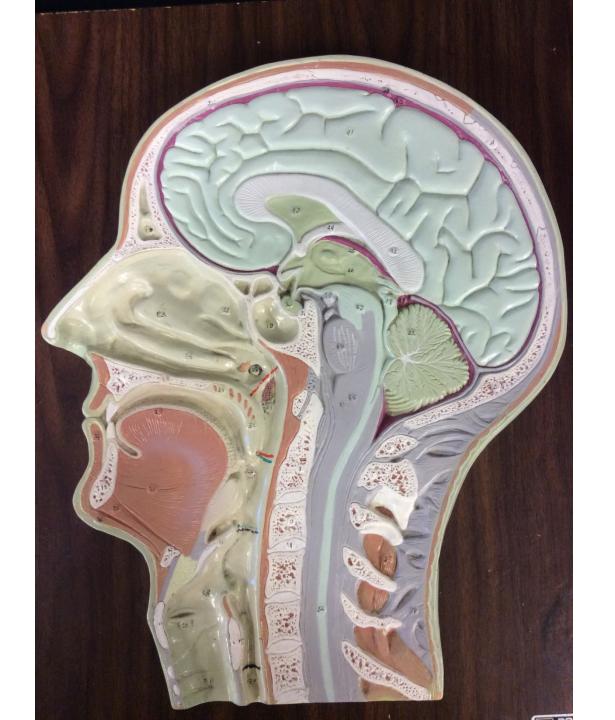
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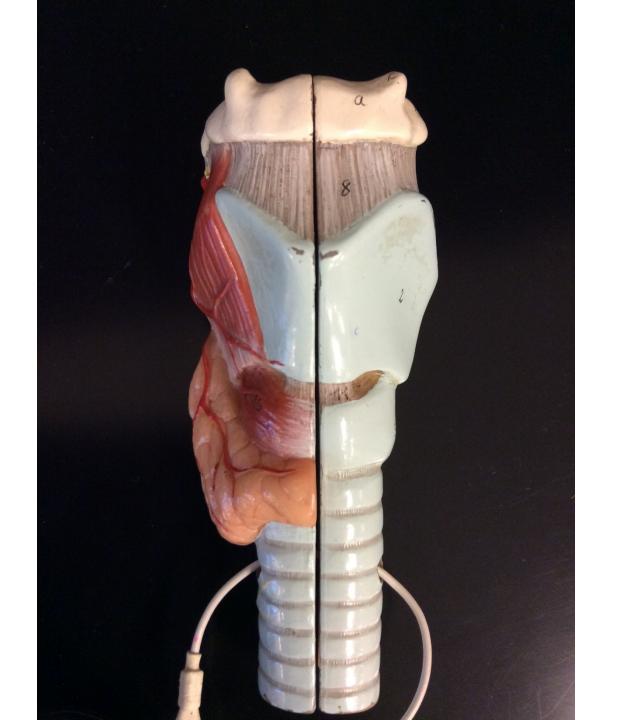


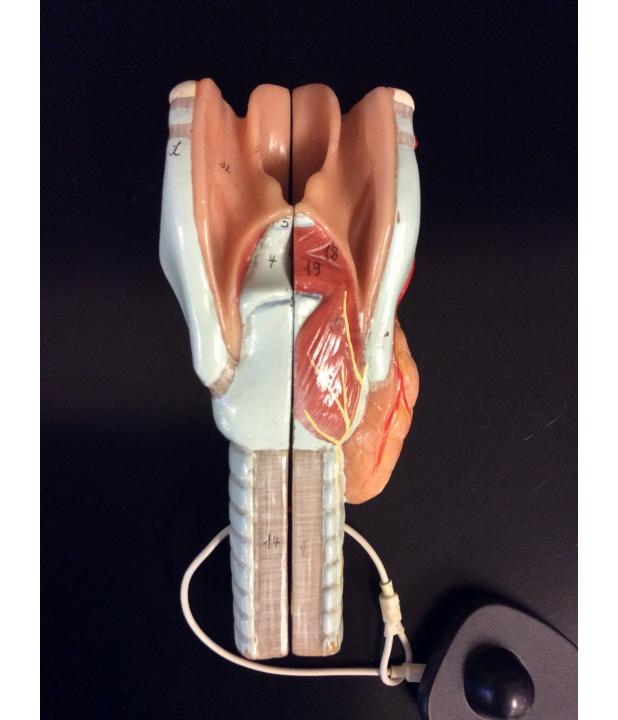




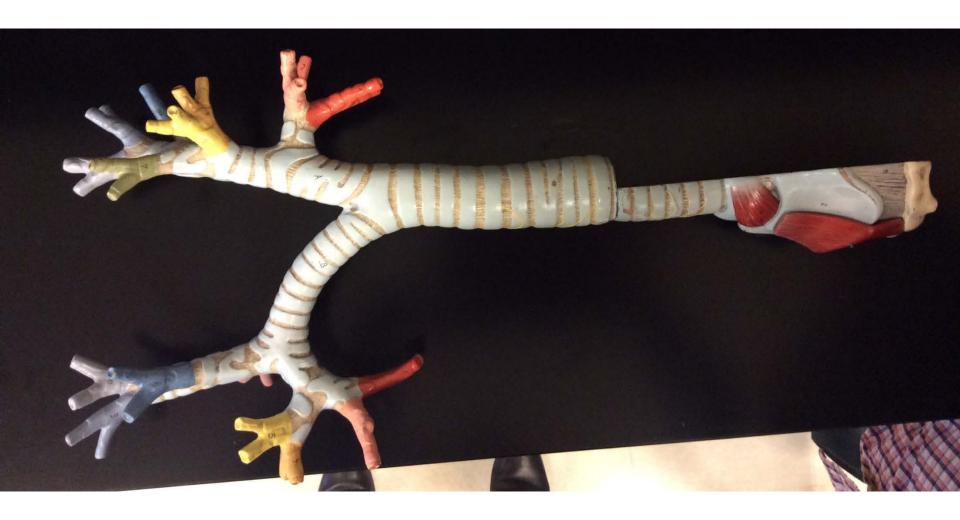


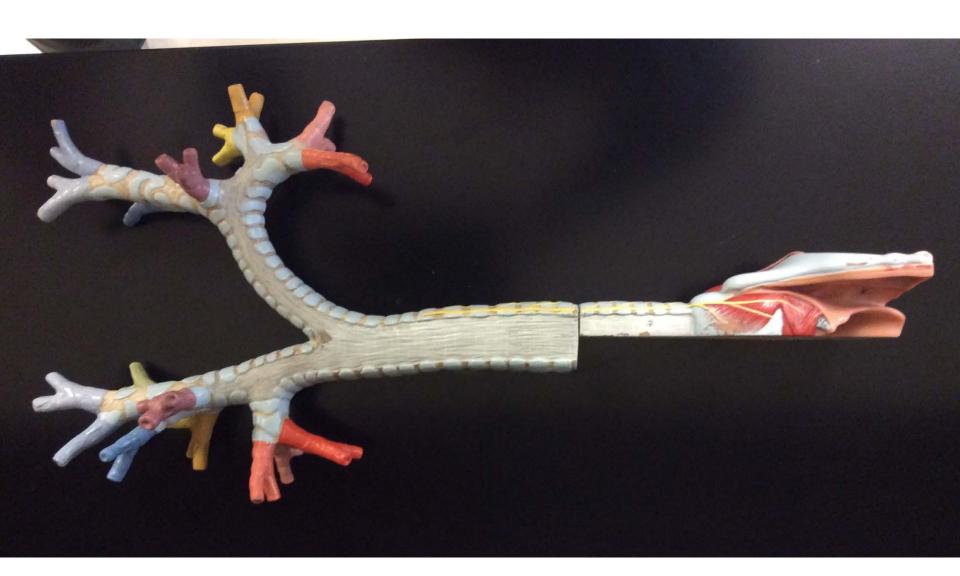


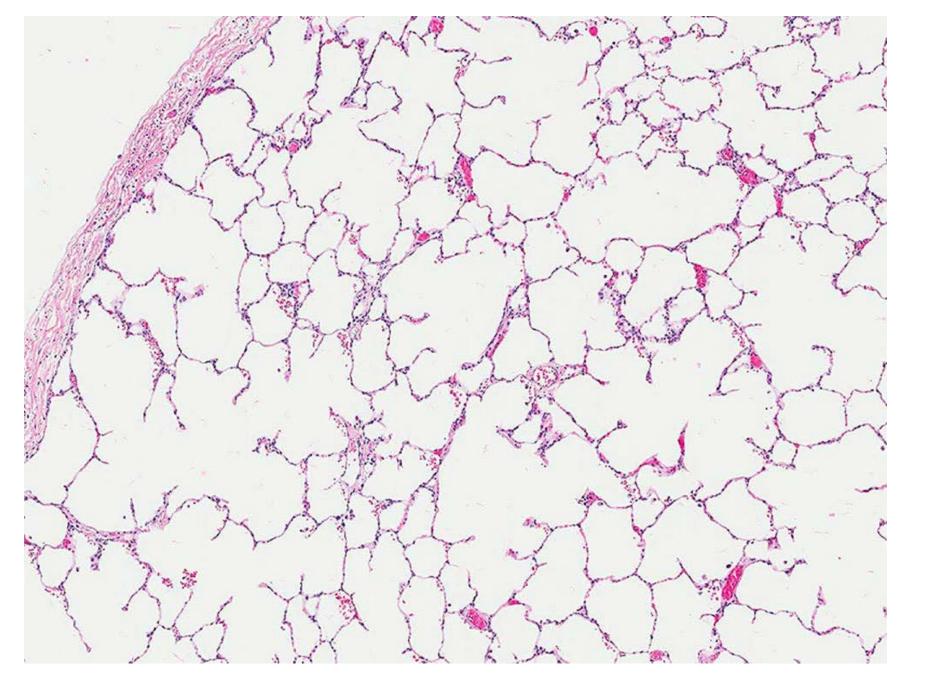


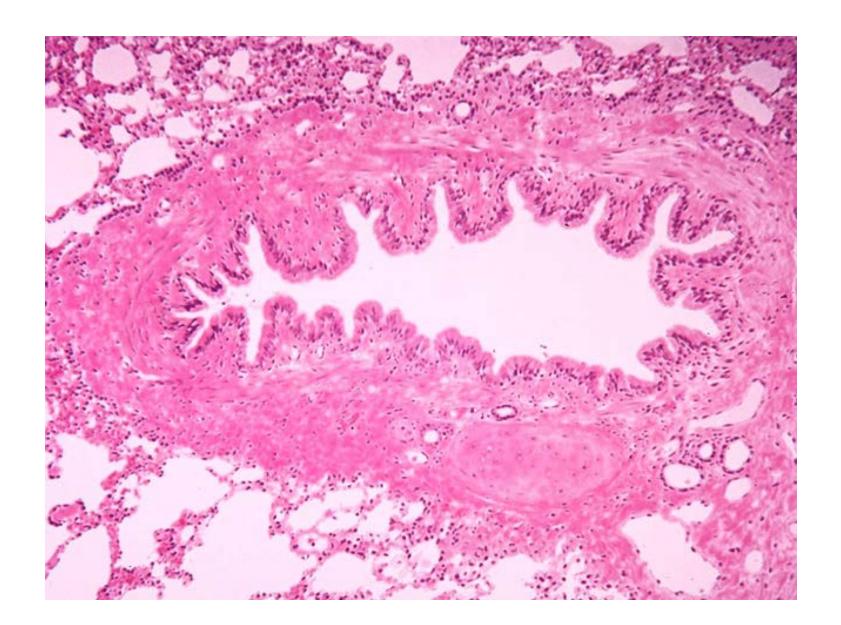


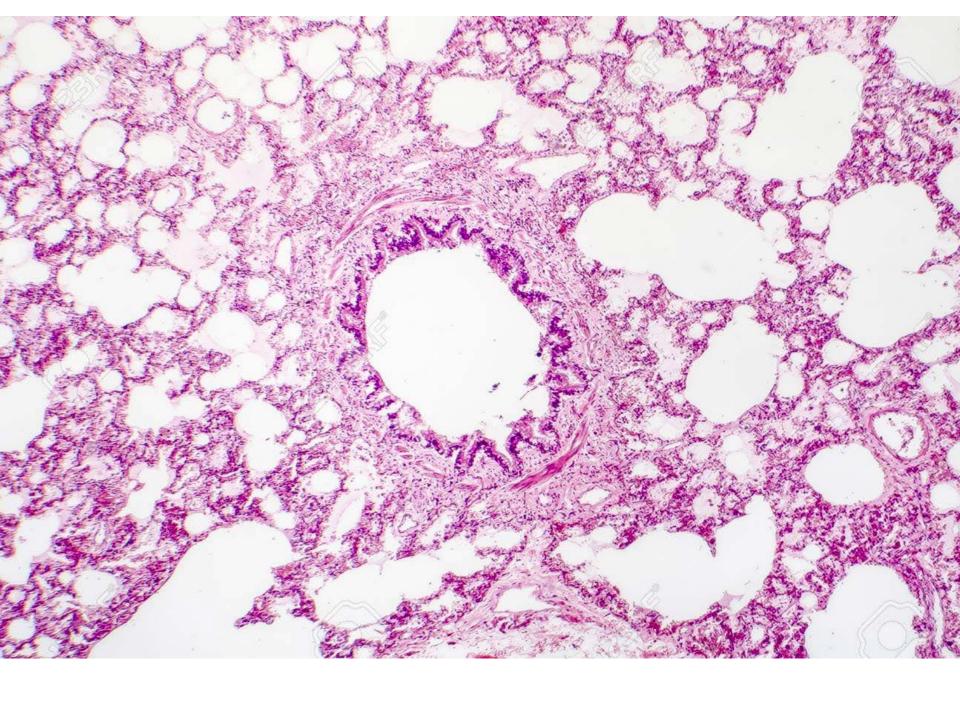


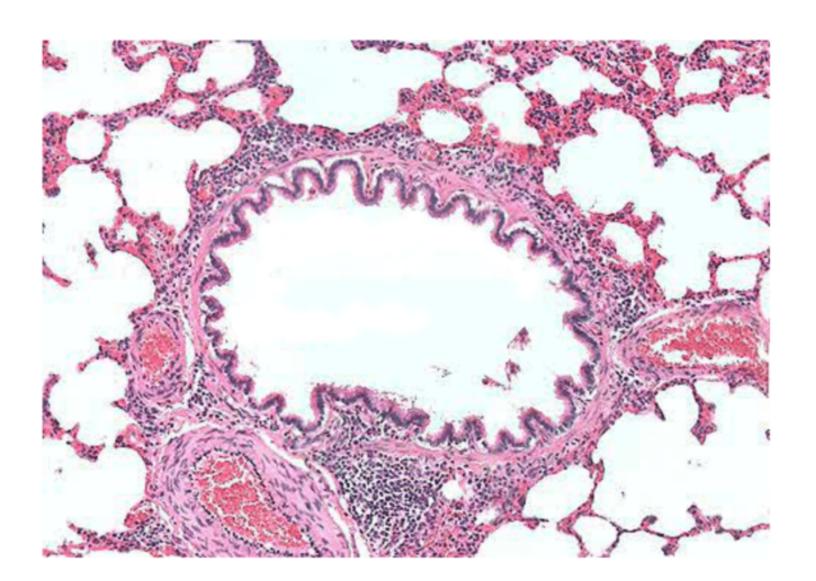


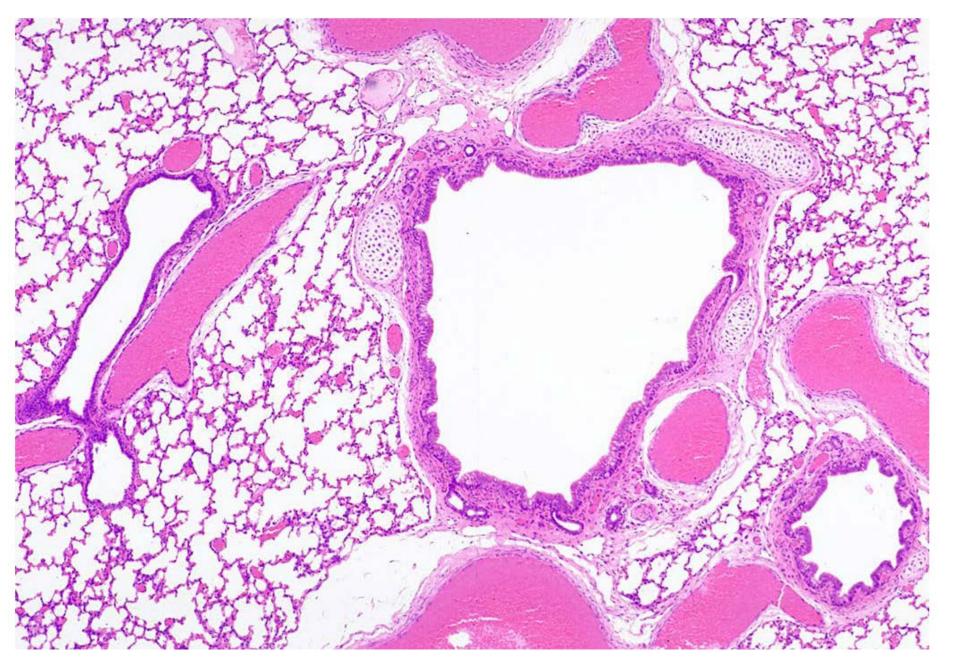




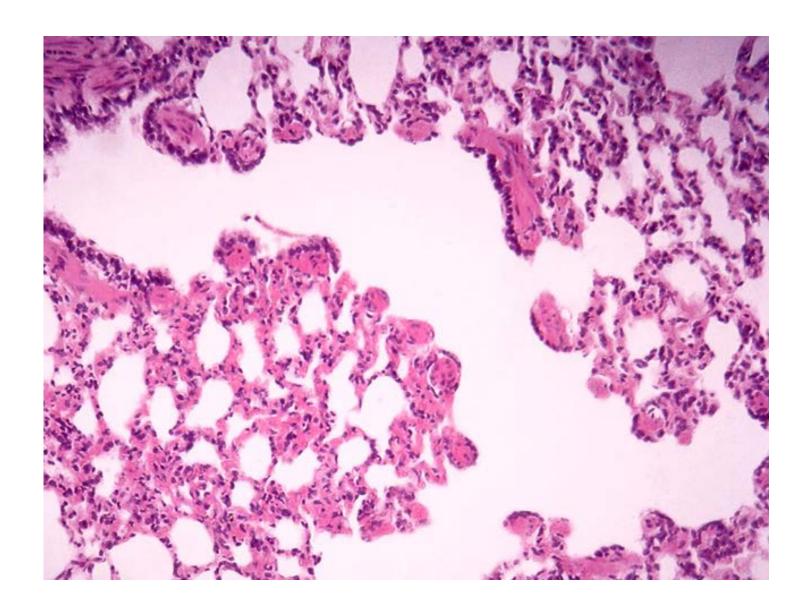


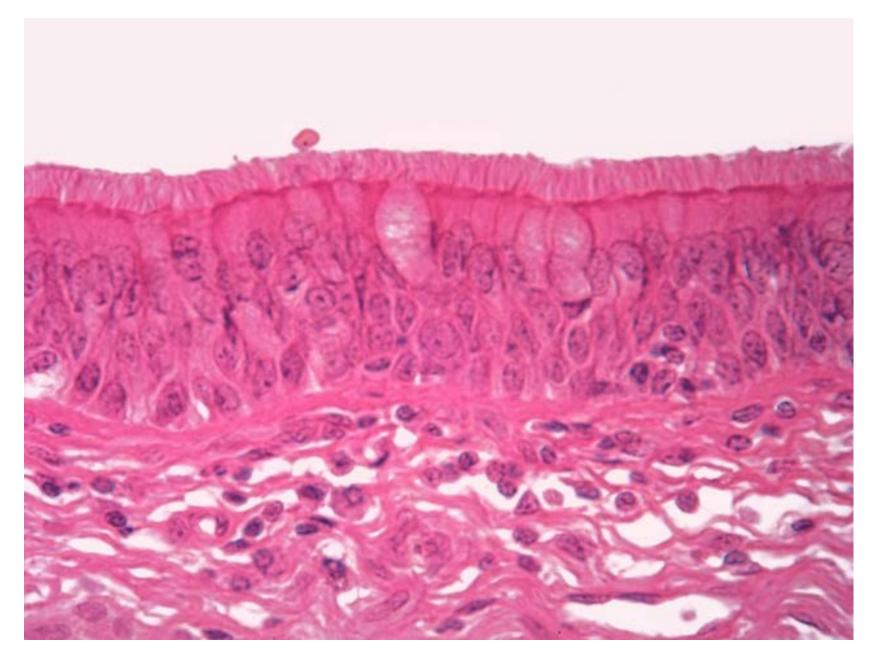






Website with interactive labels: <a href="http://medcell.med.yale.edu/histology/respiratory">http://medcell.med.yale.edu/histology/respiratory</a> system lab/intrapulmonary air conduits.php





Website with interactive labels: <a href="https://medpics.ucsd.edu/index.cfm?curpage=image&course=hist&mode=browse&lesson=45&img=863">https://medpics.ucsd.edu/index.cfm?curpage=image&course=hist&mode=browse&lesson=45&img=863</a>

#### Respiratory virtual microscope:

http://aperio.duhs.duke.edu/UMichHistology/Respiratory/130 HISTO 20X.svs/view.apml?

http://141.214.65.171/Histology/Respiratory%20System/132 HISTO 20X.svs/view.apml?

http://141.214.65.171/Histology/Respiratory%20System/132 HISTO 40X.svs/view.apml?

<sup>\*\*</sup>Make sure Adobe Flash Player is enabled for this website.