

Part 2: Structure and Function of Blood Vessels Concept Map and Venn Diagram Guiding Questions

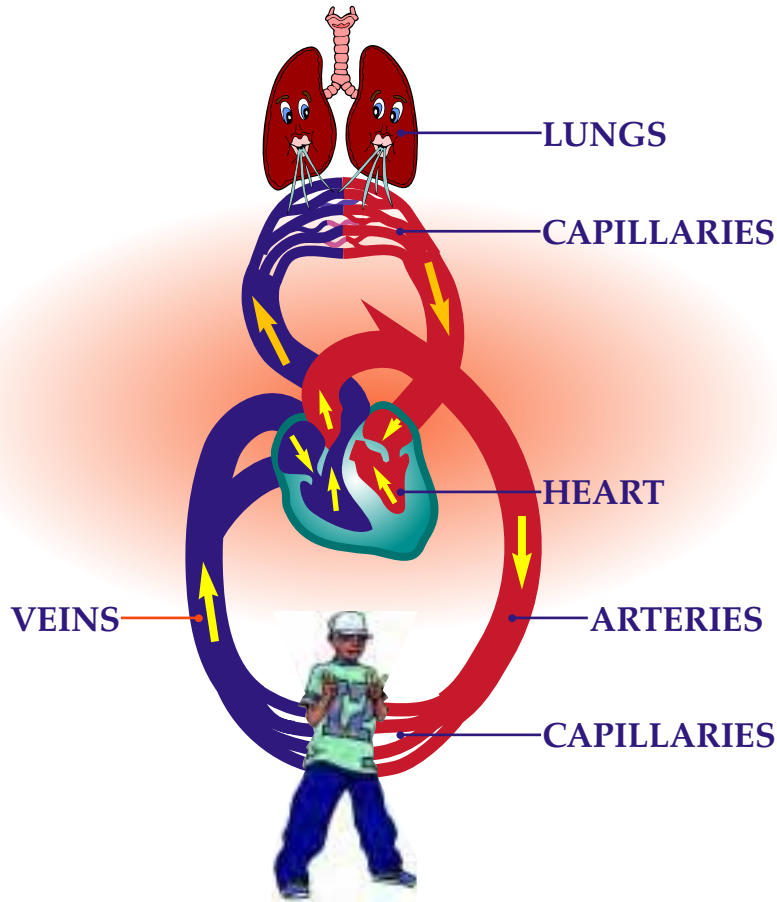
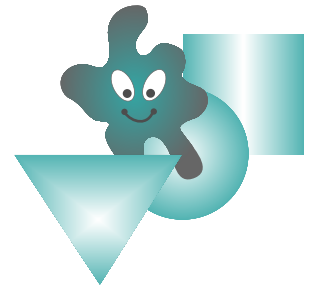


Figure 1 Blood Vessels

Figure 1 Guiding Question:

What do you notice about the differences in the blood vessels?

Figure 1 Guiding Question:

What do you think the arrows indicate?

Figure 1 Guiding Question:

What do you notice about the location of the capillaries?

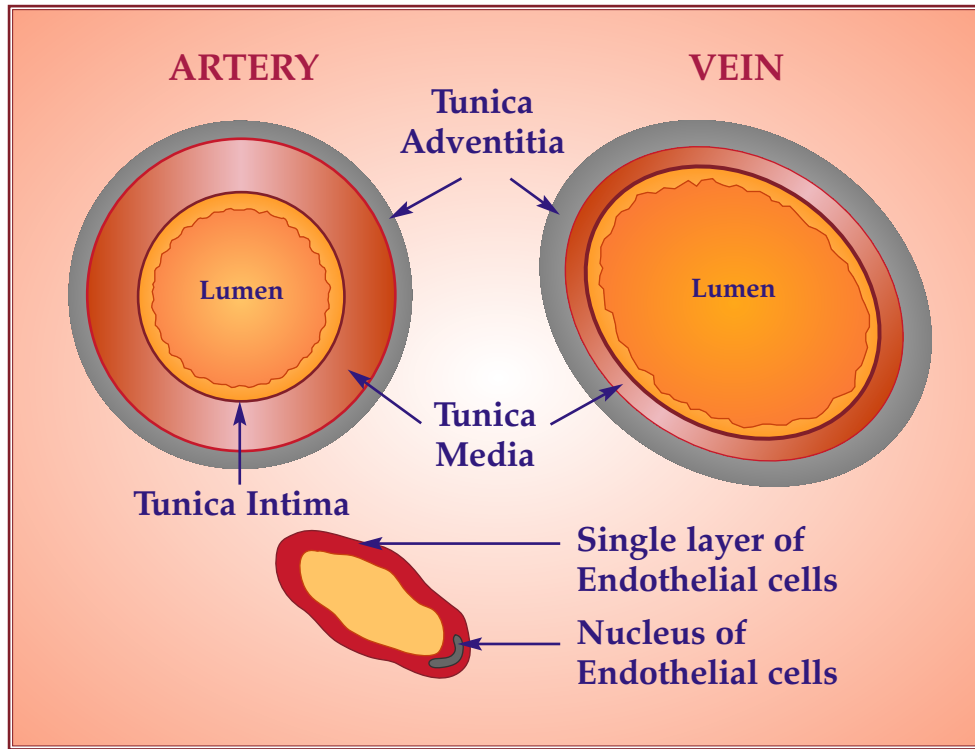


Figure 2 Blood Vessel Cross Sections

http://www.nurse-prescriber.co.uk/education/visual_lib/vl_elastichosiery.htm

Figure 2 Guiding Question:

Look at the artery cross section. How does each layer compare to the other layers within the artery?

Figure 2 Guiding Question:

Look at the vein cross section. How does each layer compare to the other layers within the vein?

Figure 2 Guiding Question:

Look at the capillary cross section. How does each layer compare to the other layers within the capillary?

Figure 2: Guiding Question:

Blood vessels in our body are exposed to different types of pressure based on how far away from the heart they are. Which type of blood vessel would have to be able to withstand high pressures?

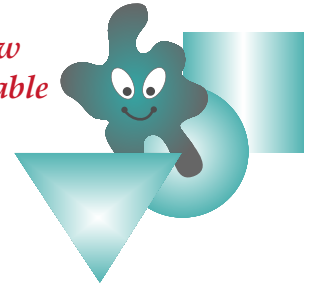


Figure 2 Guiding Question:

How does the structure help an artery to withstand high pressure?

Figure 2 Guiding Question:

Compare the structure of each type of blood vessel to the others. What differences do you observe?

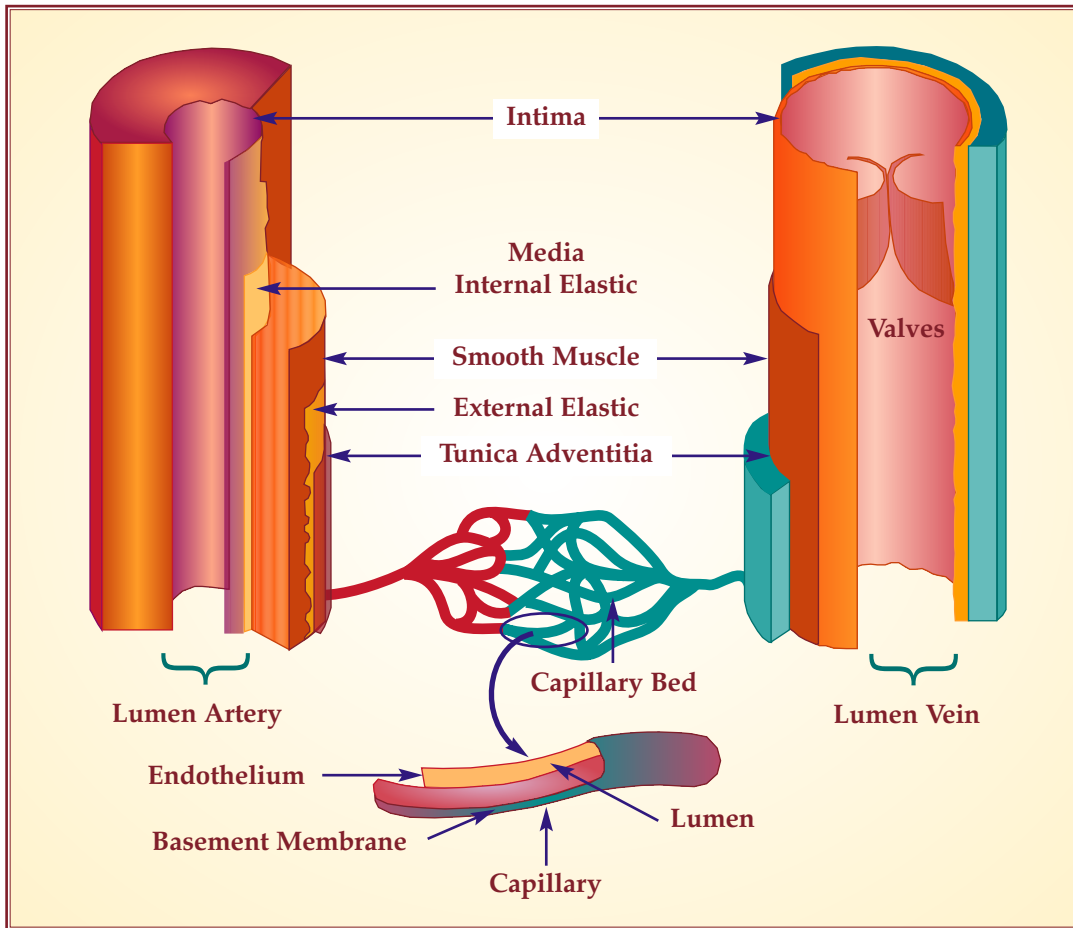


Figure 3 Blood Vessel Layers

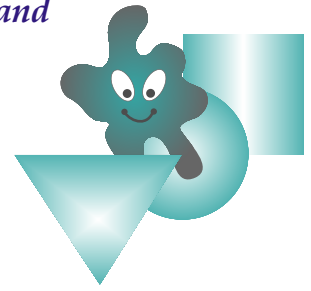
Drawing modified from:
[http://academic.kellogg.edu/herbrandsonc/bio201_McKinley/
 Cardiovascular%20System.htm](http://academic.kellogg.edu/herbrandsonc/bio201_McKinley/Cardiovascular%20System.htm)

Figure 3 Guiding Question:

Observe the different blood vessel layers in Figure 3. Are there some layers that one type of vessel has but not the other?

Figure 3 Guiding Question:

Are there any other differences in their structure?



Structure and Function of the Blood Vessels

Arteries

Capillaries

Veins

