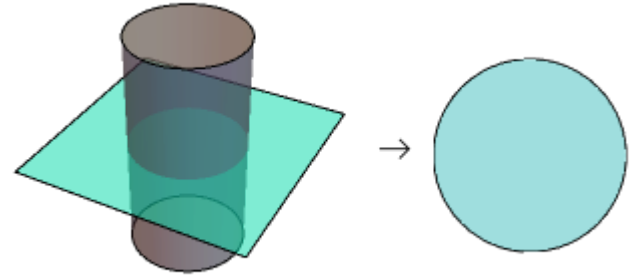


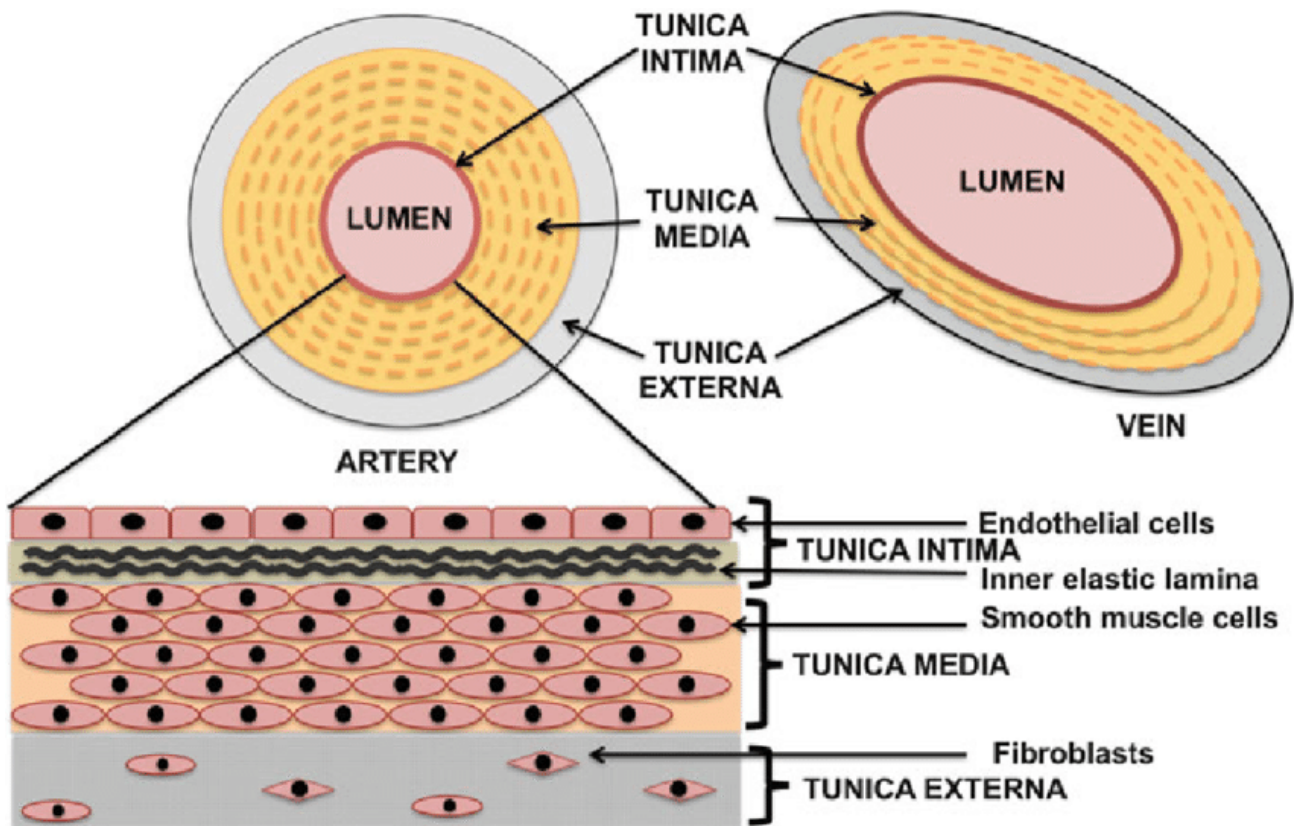
Mammal Blood Vessels in Cross Section

At the lab station is a slide of two blood vessels prepared in a transverse cross section. You will be looking at two tubes, one artery and one vein.



DIRECTIONS:

1. Focus the sample at 100X.
2. Take a photo of the sample.
3. Using the diagram below as a guide, observe the **artery**, noting that the **lumen** has a more round shape, surrounded by a thin **tunica intima**, a thick **tunica media** and an outer layer of connective **tunica externa**. The **vein** has the same three tunica layers, but the lumen is less regular in shape and the tunica media is much more thin.



4. Create a slide in a presentation software (Slides, Powerpoint or Canva).
5. Paste your picture of the vessel cross section as viewed at 100X.
6. Crop the photo into a circle, with the circle edge roughly encircling the field of view diameter.

7. Add a thin black border to your image.
8. Scale the image so it is in the middle of the page; filling about half of the available space.
9. Above the image, add a text box for a title. The title should be centered and larger than other text. The title should state what the photo depicts and what magnification power it was viewed).
10. Insert a scale bar underneath your photo. The line should be the length of the field of view (the length of the diameter of the circle).
11. Add a text box underneath the scale bar to label the diameter of the 100X field of view, which is 1.8mm.
12. Add a text box with the *estimated* lumen diameter of the artery and the estimated lumen diameter of the vein. You'll estimate based on the diameter of the field of view.
13. Add lines and text boxes to create labels that form a vertical list. Label the following structures:
 - a. Vein
 - i. lumen
 - ii. tunica intima
 - iii. tunica media
 - iv. tunica externa
 - b. Artery
 - i. lumen
 - ii. tunica intima
 - iii. tunica media
 - iv. tunica externa
14. Add your name to the slide. If you are working with a partner, be sure to include both student names.
15. Submit your slide into Canvas.