

BIO S255 Week 3: Virtual Lab | Cardiovascular System

Learning objectives:

- 🎬 Identify the structural layers of arteries and veins.
- 🎬 Distinguish between the structure of arteries and veins.
- 🎬 Explain the factors that affect arterial blood flow and blood pressure.
- 🎬 Define shock, and identify the signs of shock.
- 🎬 Identify key blood vessels of the cardiac, systemic, and pulmonary circulations.

Introduction:

Blood is transported around the body in 3 different types of blood vessels: arteries, capillaries, and veins. Arteries and veins are each composed of 3 distinct layers of tissue while capillaries only have one layer. Blood pressure and flow depend on multiple factors. There are a number of mechanisms by which shock can occur.

We will track blood through the pulmonary and systemic circulations noting the major arteries and veins along the path. Enjoy the interactive 3D models for exploring the blood vessels!

Assignment:

Part 1 Complete the activities in the following sections of **Anatomy.TV Cardiovascular system**: Blood vessels, Blood flow and Pressure, Circulatory Pathways, Vessels of the Trunk, Vessels of the Head and Neck, Vessels of the Limbs

To access Anatomy.TV: Resources tab>Library>Library Resources-Database A-Z>Anatomy.TV>Titles(default tab): Choose Cardiovascular system>choose assigned sections

You will then work through the material and activities by scrolling down on the right. This will allow you to see and work through all activities for that section.

As you complete the lab activities, have the lab report ready to record data.

Part 2 Complete the lab report.