

Blood Vessels

Chapter 12, pages 270 - 286

1. Circulatory Routes (Page 276)
 - A. Pulmonary Circulation
 - B. Systemic Circulation

2. Vessel Types and Definitions (Page 271 - 272)
 - A. Artery
 - B. Vein
 - C. Capillaries

3. Structure of the Vessels (Page 270 - 271)
 - A. Tunica Externa
 - i. Fibrous Connective Tissue
 - B. Tunica Media
 - i. Muscle
 - ii. Elastic Fibers
 - C. Tunica Interna
 - i. Endothelium

4. Vessel Differences (Pages 270 - 271)
 - A. Artery

 - B. Vein (See also Page 274, figure 12.16)

 - C. Capillaries (Pages 271 - 273)

5. Capillary Structure and Function (Pages 271 - 273)
 - A. Precapillary Sphincter

 - B. Fluid movements
 - i. Osmosis (Pull out handout on osmosis)

 - ii. Hydrostatic Pressure (Pull out handout on Fluid Return)
 - a. Viscosity

6. Blood Pressure (Pages 274 - 276)

A. Pressures

- i. Systolic Pressure
- ii. Diastolic Pressure

B. Factors that influence Blood Pressure (Pages 274 - 276)

- i. Blood Volume
- ii. Resistance
- iii. Viscosity

C. Blood Pressure Control (Pull out handout on Blood Pressure)

- i. Vasodilation
- ii. Vasoconstriction
- iii. Vasomotor Center
- iv. Cardioregulatory Center

7. Hepatic Portal System *Pull out handout on Hepatic Portal System*

(Also, Figure 12.24, page 285)

Do these on your own:

8. Blood Vessel Disorders (Pages 286 - 287)

A. Aneurysm

B. Atherosclerosis

C. Hypertension

D. Varicose Veins