

CH.18 anatomy of the Blood Vessels

The circulatory system consists of the heart and blood vessels.

- ▶ connected hollow tubes that begin and end in the heart.
- ▶ the blood vessels form a path through the body.

- 1 Act as a delivery system
- 2 Regulate blood pressure
- 3 engage in the exchange of nutrients & waste between capillaries & cells.
- 4 Redistribute blood in response to changing body needs.
- 5 Help regulate body temperature.

Purpose

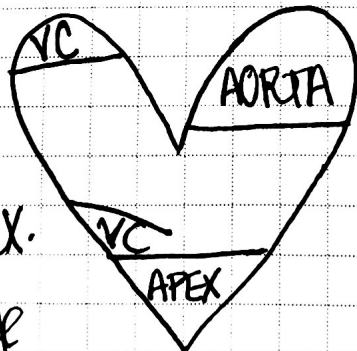
THE PRIMARY PURPOSE OF THE CARDIOVASCULAR SYSTEM IS TO DELIVER BLOOD THAT IS RICH IN OXYGEN, HORMONES, NUTRIENTS & WATER TO THE CELLS.

Key terms

ischemia
blood pressure
systolic
diastolic
pulse pressure
hypotension
hypertension
Korotkoff sounds
systemic vascular resistance.
vasodilation
vasoconstriction
baroreceptor reflex.
vasopressor
capillary exchange

Blood Pressure
expressed in millimeters of mercury. (mm Hg)
• Highest in the aorta (closest to left ventricle)

arterial to venous



Hypertension

Systolic #
Hypotension
Diastolic #

Vagus nerve is 10th Cranial
Sensory out / motor in