

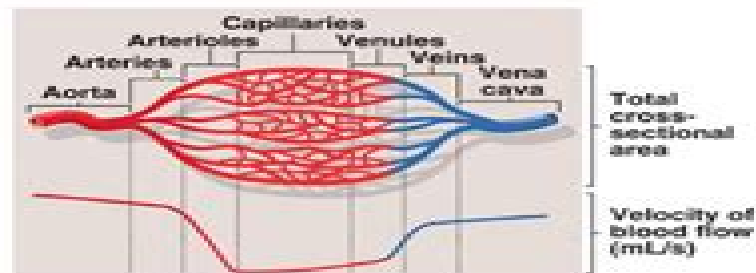
## Ch 19- Blood Vessels

### Arteries

- Transports **AWAY** from heart
- 3 layers
  - **Tunica Intima:** endothelium
  - **Tunica Media:** Smooth muscle and elastic tissue (vasomotor nerve fibers of SNS)
  - **Tunica Externa (adventitia):** Collagen fibers (large vessels have vasa vasorum)
- **Elastic arteries (conducting):** large, close to heart
- **Muscular arteries (distributing):** to organs
- **Arterioles:** small, to capillaries (major control of blood flow)
- **Arterial Pulse:** expansion and recoil with heartbeat

### Capillaries

- Connects arterioles with venules
- Exchange blood and interstitial fluid
- 1 layer, tunica intima
- Microscopic
- **Slowest flow,** largest total cross section area
- Precapillary sphincter at some capillaries (contract)



### Veins

- **Return** to heart
- 3 tunics (same), larger lumen, less smooth muscle
- Venules = smallest
- Contain valves
- Respiratory and skeletal muscles help move blood
- **Varicose veins = hemorrhoids**

# Blood Vessels Packet Key Ch 4

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