**Blood Vessels and Blood Pressure Outline**

EKG

Structure of Blood Vessels:

* Arteries, Capillaries, Veins
* Layers
  + Tunica Intima, Media, Externa

|  |  |
| --- | --- |
| **Arteries to Know:**  Aorta  Brachiocephalic  Common Carotid  Left and Right Subclavian  Vertebral  Intercostal  Brachial  Phrenic  Superior and Inferior Mesenteric  Renal  Common Iliac | **Veins to Know:**  Superior and Inferior Vena Cava  Brachial  Median Cubital  Subclavian  External and Internal Jugular  Vertebral  Brachiocephalic  Great Saphenous  Femoral  Common Iliac |

Circle of Willis

* Function
* Arteries
  + Common Carotid, Internal Carotid, Anterior and Middle Cerebral, Subclavian, Vertebral, Basilar, Post Cerebral

Fetal Circulation

* Function
* Umbilical Vein and Arteries
* Ductus Venosus and Ductus Arteriosus
* Foramen Ovale

Hepatic Portal

* Function
* Veins
  + Hepatic Portal, Inferior and Superior Mesenteric, Splenic, Left Gastric, Hepatic

Pulse

Blood Pressure

* Systolic vs. Diastolic
* Cardiac Output
* Peripheral Resistance
* Range
  + Normal, Hypertension, Hypotension
* Effects
  + Neural, Renal, Temp, Chemicals, Diet

Capillary Exchange

* Direct Diffusion
* Endo/Exocytosis
  + Intercellular Clefts
* Fenestrations
* Blood Pressure
* Osmotic Pressure