**Blood Vessels and Blood Pressure Outline**

EKG

Structure of Blood Vessels:

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

|  |  |
| --- | --- |
| **Arteries to Know:**AortaBrachiocephalicCommon CarotidLeft and Right SubclavianVertebralIntercostalBrachialPhrenicSuperior and Inferior MesentericRenalCommon Iliac | **Veins to Know:**Superior and Inferior Vena CavaBrachialMedian CubitalSubclavianExternal and Internal JugularVertebralBrachiocephalicGreat SaphenousFemoralCommon 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