*The Cardiovascular System Study Guide*

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Use PowerPoint slides

Study the following diagrams:

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Diagram A

Know each part of the Intrinsic Conduction System.



Diagram B

Know what each wave and interval represent. (PQRST)



Diagram C

In addition to the lettered structures, know all parts of the diagram.

Study to know the function, structure and/or location of following:

* Valves (inside the heart)

 Atrioventricular valves (AV), aka: mitral, bicuspid, tricuspid

 Semilunar valves (aortic and pulmonary)

* Valves (outside the heart)

 Veins (preventing backflow)

* Heart muscle

 Myocardium

 Epicardium

 Endocardium

 Pericardium (visceral v. parietal)

* Intrinsic Conduction System

 AV node (pacemaker)

 SA node

 AV bundle (Bundle of HIS)

 Purkinje fibers

* Arteries branching from the aorta

 Brachiocephalic

 Left common carotid

 Left subclavian

* Pulse
* Location of arteries (pulse points)

 Femoral

 Temporal

 Facial

 Carotid

 Brachial

 Radial

 Femoral

 Popliteal

 Posterior tibial

 Dorsalis pedis

* Fenestrations (pores)
* Cause of heart sounds (lub and dub)
* Parts of the aorta

 Ascending

 Descending

* Coronary blood vessels
* Heart chambers (receiving and discharging)
* Vena Cava (superior and inferior)
* Blood pressure

 Systolic v diastolic

 Normal readings v hypertensive readings

 Factors causing high and low blood pressure

* Starling’s Law
* Factors that increase/decrease heart rate
* Direction of blood flow through the heart, lungs and entire body beginning with right atrium.
* Structure and function of arteries vs. veins
* Organs supplied by carotid, hepatic and renal blood vessels
* Circle of Willis
* Location of strongest blood pressure

 Arteries

 Arterioles

 Capillaries

 Veins

 Venules

* Location of oxygenated blood and deoxygenated blood (in heart).
* Number of pulmonary arteries
* Number of pulmonary veins
* Pulmonary arteries v. pulmonary veins (type of blood flowing through)
* Sympathetic Nervous System’s (fight or flight) effect on heart rate
* Parasympathetic Nervous System’s effect on heart rate.
* Heart formation (“tube heart”) vs complete heart in developing fetus (timeline)
* Factors affecting heart rate (increase and decrease)