*The Cardiovascular System Study Guide*

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Use PowerPoint slides

Study the following diagrams:

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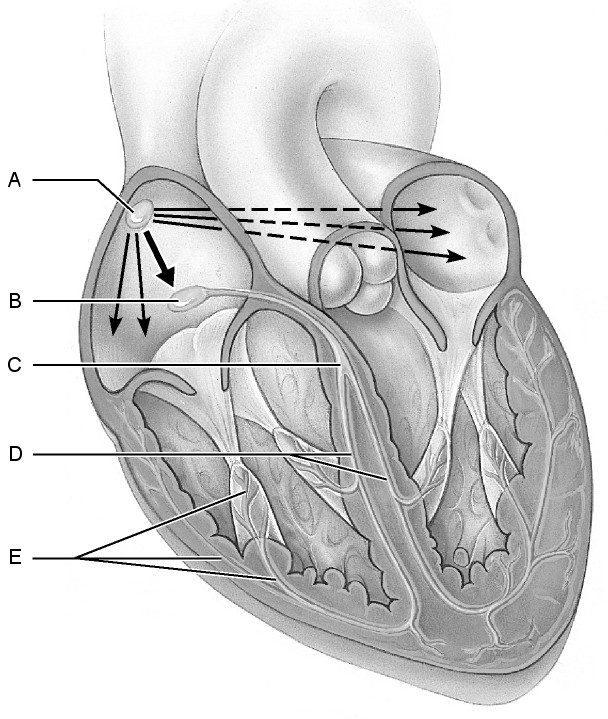


Diagram A

Know each part of the Intrinsic Conduction System.

A close up of a logo

Description automatically generated

Diagram B

Know what each wave and interval represent. (PQRST)

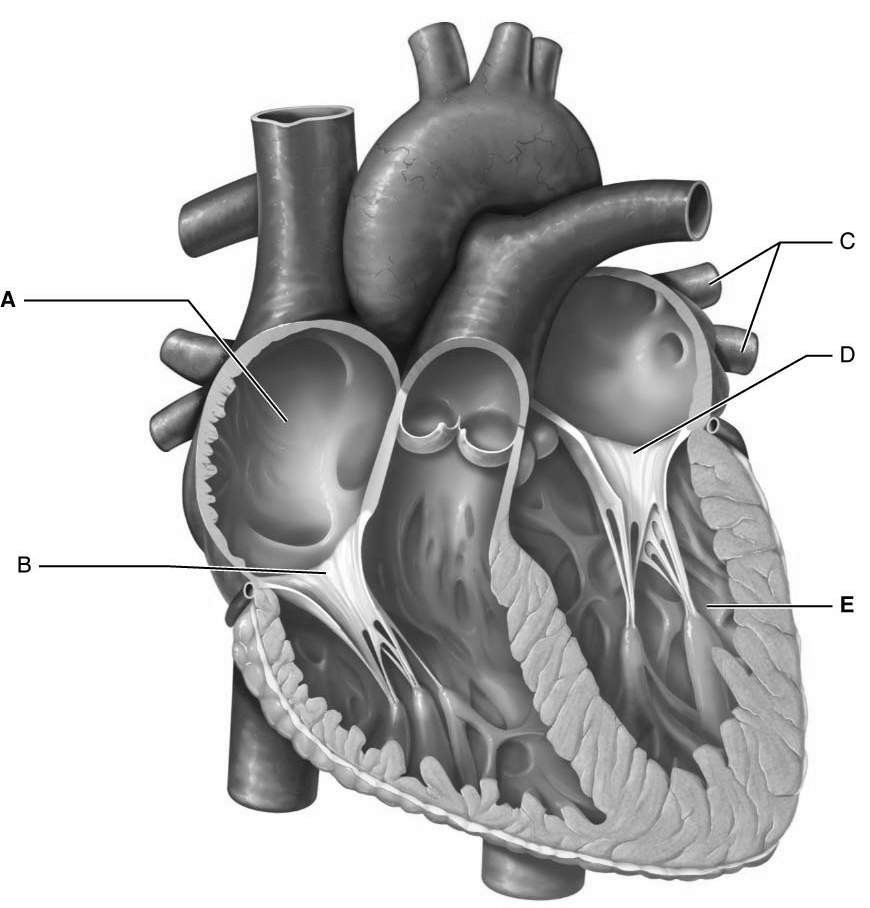


Diagram C

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)