

## Assessing Heart and Neck Vessels

### Structure and Function

#### Cardiovascular System

- highly complex, consisting of the heart and a closed system of blood vessels.

### Heart and Neck Vessels

#### Heart

- a hollow, muscular, four-chambered (left and right atria, and left and right ventricles) organ.
- located in the middle of the thoracic cavity between the lungs in the space called the **mediastinum**.
- size of a clenched fist
- weighs:
  - 255 g (9 oz) in women
  - 310 g (10.9 oz) in men
- extends:
  - vertically: left 2nd to the left 5th intercostal space (ICS)
  - horizontally: right edge of the sternum to the left midclavicular line (MCL).
- can be described as an inverted cone.
- upper portion – **base**
- lower portion – **apex**.
- the anterior chest area that overlies the heart and great vessels is called the **precordium**.
- right** side of the heart pumps blood to the lungs for gas exchange (**pulmonary circulation**) by removing CO<sub>2</sub> from blood and replenishing oxygen supply.
  - It occurs between alveoli and the blood of lungs.
- left** side of the heart pumps blood to all other parts of the body (**systemic circulation**).
- Perfusion** occurs when blood flows to tissues and organs promoting the diffusion of O<sub>2</sub> and CO<sub>2</sub>.

#### Great Vessels

- large veins and arteries leading directly to and away from the heart
- Superior and Inferior Vena Cava** – return blood to the right atrium from the upper and lower torsos.
- Pulmonary Artery** exits the right ventricle, bifurcates, and carries blood to the lungs.
- Pulmonary Veins** (two from each lung) return oxygenated blood to the left atrium.
- Aorta** – transports oxygenated blood from the left ventricle to the body

### Heart Chambers and Valves

#### Four Chambers, or Cavities:

- two upper chambers, the right and left atria,
- two lower chambers, the right and left ventricles.
- Septum** – a partition that separates the right and left sides of the heart.
- Atria** – thin-walled, receive blood returning to the heart and pump blood into the ventricles.
- Ventricles** – thicker-walled, pump blood out of the heart.

- left ventricle is thicker than the right ventricle because the left side of the heart has a greater workload.

#### Valves

- one-way valves that direct the flow of blood through the heart.
- protects the entrance and exit of each ventricles.
- Atrioventricular (AV) Valves** – located at the entrance to the ventricles.
  - Tricuspid Valve** – composed of three cusps, or flaps, and is located between the right atrium and the right ventricle;
  - Bicuspid (mitral) Valve** – composed of two cusps and is located between the left atrium and the left ventricle.
  - Chordae Tendineae**
    - collagen fibers, anchor the AV valve flaps to **papillary muscles** within the ventricles.
  - Open AV valves allow blood to flow from the atria into the ventricles.
  - As the ventricles begin to contract, AV valves shut, preventing the regurgitation of blood into the atria.
  - Valves are prevented from blowing open in the reverse direction (i.e., toward the atria) by their secure anchors to the papillary muscles of the ventricular wall.
- Semilunar Valves** – at the exit of each ventricle at the beginning of the great vessels.
  - all three cusps that look like half-moons, hence "semilunar."
  - Pulmonic Valve** – at the entrance of the pulmonary artery as it exits the right ventricle
  - Aortic Valve** – at the beginning of the ascending aorta as it exits the left ventricle.
  - Open during ventricular contraction and close from the pressure of blood when the ventricles relax. Blood is thus prevented from flowing backward into the relaxed ventricles.

### Heart Covering and Walls

**Epicardium** – serous membrane that covers the outer surface of the heart.

**Pericardium** – a tough, inextensible, loose-fitting, fibrous sac that attaches to the great vessels and surrounds the heart.

- A serous membrane lining, the parietal pericardium, secretes a small amount of **pericardial fluid** that allows for **smooth, friction-free movement of the heart**.

**Myocardium** – thickest layer of the heart, made up of contractile cardiac muscle cells.

**Endocardium** – thin layer of endothelial tissue that forms the innermost layer of the heart and is continuous with the endothelial lining of blood vessels.

#### Electrical Conduction of the Heart

- Cardiac muscle cells**
  - have a unique inherent ability.

- can spontaneously generate an electrical impulse and conduct it through the heart.
- the generation and conduction of electrical impulses by specialized sections of the myocardium regulate the events associated with cardiac cycle (the filling and emptying of the cardiac chambers).

### Pathways

#### Sinoatrial (SA) Node (or Sinus Node)

- located on the posterior wall of the right atrium near the junction of the superior and inferior vena cava.
- with inherent rhythmicity, generates impulses (at a rate of 60–100/min) that are conducted over both atria, causing them to contract simultaneously and send blood into the ventricles.
- the current, initiated by the SA node, is conducted across the atria to the **AV node**
  - located in the lower interatrial septum. Slightly delays incoming electrical impulses from the atria and then relays the impulse to the **AV bundle (bundle of His)** in the upper interventricular septum.
  - Electrical impulse then travels down the **right and left bundle branches** and the **Purkinje fibers** in the myocardium of both ventricles, causing them to contract almost simultaneously.

Although the **SA node** functions as the "**pacemaker of the heart**," this activity shifts to other areas of the conduction system, such as the **Bundle of His** (with an inherent discharge of **40–60/min**), if the SA node cannot function.

### Electrical Activity

#### Electrical impulses

- generated by the SA node
- travel throughout the cardiac conduction circuit.
- can be detected on the surface of the skin.

#### Electrocardiography a.k.a ECG or EKG

- measures and records electrical activity
- records the depolarization and repolarization of the cardiac muscle.
- the phases of the ECG are known as P, Q, R, S, and T.

### Cardiac Cycle

#### Cardiac Cycle

- refers to the filling and emptying of the heart's chambers.
- has two phases:
  - diastole** (relaxation of the ventricles, known as **filling**).
  - systole** (contraction of the ventricles, known as **emptying**).
- Diastole** endures for approximately 2/3 of the cardiac cycle and systole is the remaining 1/3.

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