

Course Standard 4

HS-EHS-4

Investigate the anatomy, physiology, and basic pathophysiology of the cardiovascular system, and evaluate and monitor blood pressure and pulse.

- 4.1 Analyze the basic structures and functions of the cardiovascular system.
- 4.2 Identify and explain medical terms related to the cardiovascular system, and utilize when documenting in electronic medical record.
- 4.3 Research common diseases, disorders, and emerging diseases of the cardiovascular system including the pathophysiology, prevention, diagnosis and treatment (including biomedical therapies) that might be utilized in each.
- 4.4 Describe the components of blood, and the functions of each. Research when blood components are prescribed for a patient and why.
- 4.5 Identify and describe the functions of the chambers, valves and associated vessels of the heart.
- 4.6 Distinguish differences in anatomy and pathology of blood vessels to include arteries, arterioles, capillaries, venules, and veins.
- 4.7 Identify and trace the flow of blood through the heart, and provide distinction between the pulmonary and systemic circulation.
- 4.8 Name the parts of the conduction system of the heart, and trace the impulses during initiation and conduction.
- 4.9 Demonstrate measuring and recording blood pressure and pulse, and identify abnormal results.