

Module 3.0

Cardiovascular System

Structure of the Heart
Chambers and Circulation
Cardiac Cell Action Potentials
Action Potentials in Cardiac Muscle Cells
Action Potentials in Cardiac Autorhythmic cells
Cellular Mechanisms of Inotropy and Chronotropy
Electrophysiology of Heart Muscle
Heart Conduction System
Electrocardiogram (ECG)
Abnormal ECG - Current of Injury
The Cardiac Cycle
Cardiac cycle
Cardiac Measurements and Pressure Volume Loops
Blood vessels and Blood Pressure
Arteries and Veins
Capillaries
Blood Pressure Regulation and Shock
Capillary Exchange
Myogenic and Paracrine Regulation of Vasoconstriction and Vasodilation
Blood
Composition of Blood

Hematopoiesis
Breaking Down Red Blood Cells
Hemostasis



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