

WEEK 4

CARDIOVASCULAR SYSTEM

Objectives:

1. Explain how lipids are processed and transported in the body.
2. Discuss how lipid metabolism, processing, and transportation can be dysfunctional and contribute to vascular disease.
3. Describe primary and secondary hypertension.
4. Recall how adrenocortical hormones can contribute to blood pressure regulation.
5. Discuss high blood pressure in pregnancy.
6. Describe venous circulation issues including varicose veins, venous insufficiency, venous ulcers, and DVTs.
7. Explain the pathophysiology of infective endocarditis and rheumatic heart disease.
8. Describe the cardiomyopathies and their characteristics.
9. Explain heart failure and the symptoms of failure on the right and left side of the heart.
10. Explain the different types of shock and how they occur.

Vocabulary:

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| <ul style="list-style-type: none">• Arteriosclerosis• Atherosclerosis• Chronic venous insufficiency• Chylomicron• Claudication• Cor pulmonale• Cushing's syndrome• Deep vein thrombosis (DVT)• Diastolic heart failure• Dilated cardiomyopathy (DCM)• Ejection fraction (EF)• Embolus• Group A Streptococcus pyogenes (GAS) | <ul style="list-style-type: none">• Hypercholesterolemia• Hypertrophic cardiomyopathy (HCM)• Hypertension (primary, essential)• Hypotension (orthostatic)• Lipoprotein• Infective endocarditis (IE)• Janeway lesions• Jones criteria• Left ventricular dysfunction• Micelle• Molecular mimicry• Osler's nodes• Pulmonary edema | <ul style="list-style-type: none">• Peripheral arterial disease (PAD)• Preeclampsia and eclampsia• Renin-angiotensin-aldosterone system (RAAS)• Rheumatic fever (RF)• Rheumatic heart disease (RHD)• Right and left ventricular dysfunction• Systolic heart failure• Thromboangiitis obliterans• Thrombus• Varicose veins• VLDL, IDL, LDL, HDL |
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Disorders of Blood Vessels

Lipid and Lipoprotein Processing
Atherosclerosis
Hypertension
Hypotension
Disorders of Venous Circulation
Disorders of Arterial Circulation
Disorders of the Heart
Infective Endocarditis
Rheumatic Heart Disease
Cardiomyopathies
Heart Failure
Shock



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