

Advanced Pathophysiology Study Guide

Chapter 1: Cellular Function

Dehydration Causes

Vomiting, diarrhea, sweating, poor intake, fever, diuretics.

Effects of Dehydration

Decreased perfusion, hypotension, kidney issues, electrolyte imbalance.

Down Syndrome

Trisomy 21 caused by nondisjunction; leads to developmental delays.

Chapter 2: Immunity

Immune Response to Allergens

Histamine release from mast cells causes edema, bronchoconstriction.

Infection Prevention

Hand hygiene, vaccines, PPE, safe sex, antiretrovirals for HIV.

Chapter 3: Hematopoietic Function

Anemia Impact

Reduced oxygen to tissues, fatigue, pallor, dyspnea.

ESA Medication Effects

Increase RBCs, improve energy, risk of HTN and thrombosis.

Chapter 4: Cardiovascular Function

Heart Failure

Leads to pulmonary congestion, low oxygen, dyspnea, orthopnea.

HDL Role

Removes cholesterol from arteries to liver; protective against CVD.

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DP Hallahan



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