

# Advanced Pathophysiology Study Guide

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## 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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**SB Merriam**

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