

# NUR 2063 ESSENTIALS OF PATHOPHYSIOLOGY

## EXAM 1 STUDY GUIDE REVIEW;

### *Chapter 2*

**What is Pathology?** The study and diagnosis of the disease through examination of organs, tissues, cells and body fluids

**What is Physiology?** The study of the mechanical physical and biochemical functions of living organisms

**What is Pathophysiology?** THE STUDY OF ABNORMALITIES IN PHYSIOLOGIC FUNCTIONING OF LIVING BEINGS

What is the framework for Pathophysiology?

**Etiology** – The study of the causes or reasons for phenomena, identification of the cause factors disease

**Pathogenesis**- The development or the evolution. How did the disease actually evolve? Begin? Manifestations?

**Clinical Manifestations**- They are observed signs of the disease EX: increase in WBC

**Implications/Treatments**- An understanding of the etiology, pathophysiology and pathogenesis, determine what will help. What treatment?

### **Homeostasis & Allostasis**

**What is Homeostasis?** Remaining stable, set point, equilibrium, systems are in balance

**What is Allostasis?** Ability to successfully adapt to challenges. A dynamic process that maintains or reestablishes homeostasis

**Stress and Disease - Hans Selye**- the pioneer in the study of stress and disease, described stages of adaptation to a stressful event:

**Alarm** :Hypothalamus Activates corticotropin, fight or flight response as the result of stressful stimulus. Internal/external HPA- Hypothalamus Pituitary Adrenal Axis

**Resistance:** Activity of the nervous and endocrine system in returning the body to homeostasis.

Hypothalamus secretes corticotropin releasing hormone CRH. Activates Anterior Pituitary

Secretes ACTH Adrenocorticotropic Hormone

**Recovery OR Exhaustion:** Where the body can no longer return to homeostasis, Allostatic Overload “wear and tear on the body”

# Essentials Of Pathophysiology Study Guide

**Brian Kipp**



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