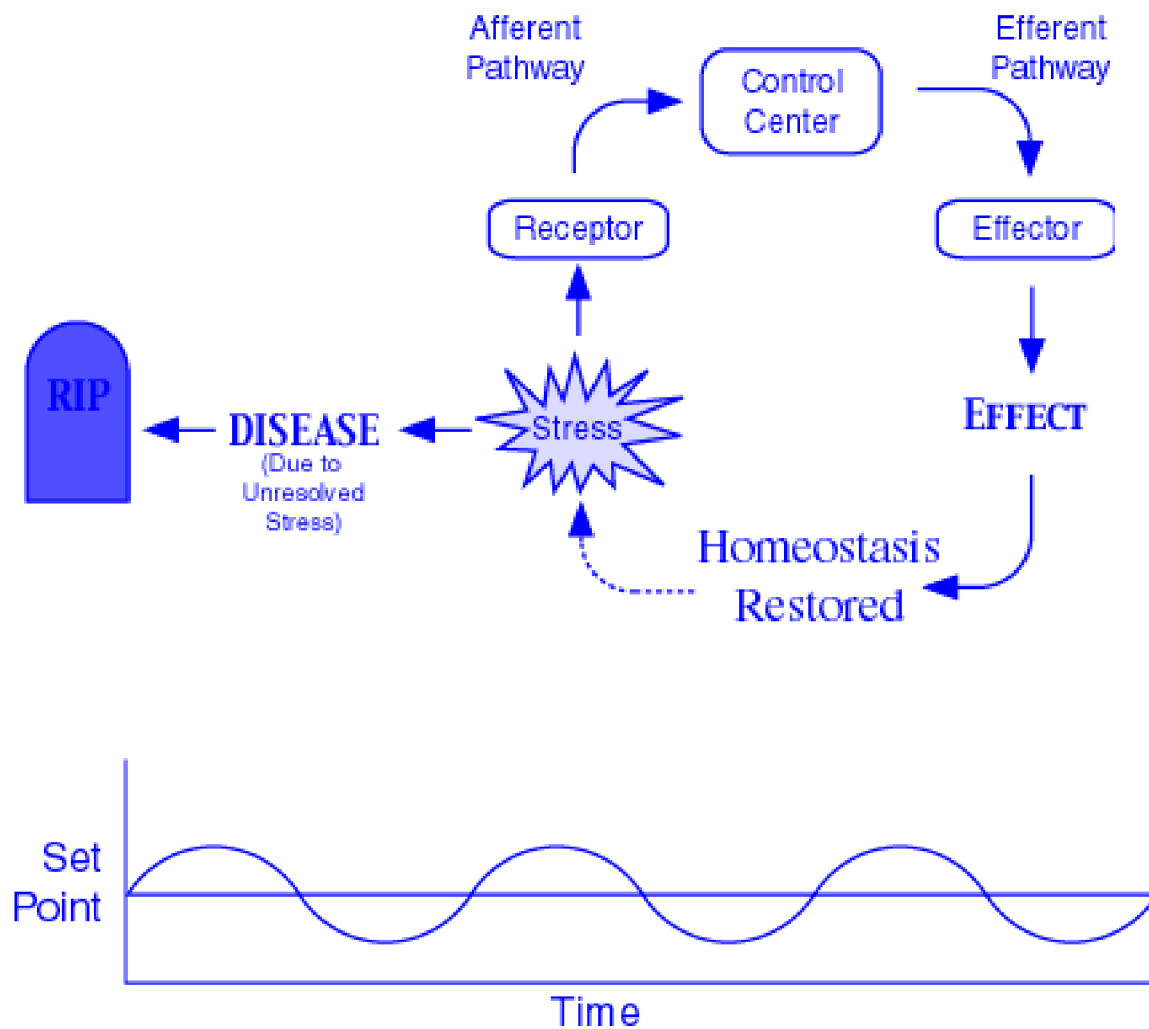


The Endocrine System: Glands and Hormones

Chapter 10 (Pages 219 ff)

1. Introduction and Homeostasis (Pages 222 - 224)

A. Negative Feedback Mechanism (Pages 222 - 224)



- Hormones (Page 252)

Human Body in Health and Disease Student Outline – Endocrine System

- Target Cells (Tissues)
 - Endocrine Glands
2. Pituitary Gland (Pages 258 ff)
- Tropic and Non-tropic Hormones
 - Hypothalamus (Page 258)
- A. Posterior Lobe (Page 258 - 260)
- i. Neurosecretory Cells
- B. Anterior Lobe
- i. Releasing Hormones
 - ii. Inhibiting Hormones
3. Tropic Hormones of the Posterior Pituitary Gland
- A. Antidiuretic Hormone (Page 256)
- B. Oxytocin (Page 256)
- i. Positive Feedback Mechanism

4. Tropic Hormones of the Anterior Pituitary Gland

A. Growth Hormone (Pages 226)

i. Growth Hormone Releasing Hormone

ii. Growth Hormone Inhibiting Hormone

iii. Effects

B. Prolactin

i. Prolactin Releasing Hormone

ii. Prolactin Inhibiting Hormone

iii. Effects

5. Thyroid Gland (Page 227; also see handout)
 - A. Basal Metabolic Rate

 - B. Thyroxin and T3
 - i. Functions

 - ii. Control
 - a. Tropic Hormone

6. Thyroid Gland and Parathyroid Gland (Pages 228 - 230) (See also handout)
 - A. Calcium Regulation
 - i. Thyroid Gland
 - a. Calcitonin

 - ii. Parathyroid Gland (Page 230)
 - b. Parathyroid Hormone

7. Adrenal Gland (Pages 230 - 233)

A. Adrenal Medulla

- i. Epinephrine (Adrenaline) and Norepinephrine

B. Adrenal Cortex

- i. Glucocorticoids

- a. Cortisol

C. Adrenal Gland and Stress (“Flight or Fight Response”)

8. Pancreas (Page 233 - 236) See also handout

A. Islets

- i. Alpha Cells

- a. Glucagon

- Glucose → Glycogen

- ii. Beta Cells

- a. Insulin

- Glycogen → Glucose