

CHAPTER 17: HEALTH PSYCHOLOGY

I. Toward a Healthier Mind (and Body): Controlling Stress

A. Stress and Its Stages

1. Stress is the response to *stressors*, circumstances and events that threaten an individual's coping abilities.
2. *General adaptation syndrome (GAS)* is the common effect on the body when stressful demands are placed on it. There are three stages to general adaptation syndrome: the alarm stage, the resistance stage, and the exhaustion stage. In the alarm stage, there is a temporary state of shock where resistance to illness and stress falls below normal limits. In the resistance stage, glands throughout the body begin to develop hormones that protect the body. In the exhaustion stage, the wear and tear on the body takes its toll, sometimes leading to collapse from fatigue or physical illness.
3. The body system that plays the greatest role in *GAS* is the *hypothalamic–pituitary–adrenal axis (HPA axis)*, which is a complex set of interactions among the hypothalamus, pituitary gland, and the adrenal glands.
4. The hypothalamus produces corticotropin-releasing hormone (CRH) in response to threats in the environment. CRH stimulates the pituitary gland to release cortisol, which is known as the “stress hormone.” Cortisol directs cells to make sugar, fat, and protein available so the body can take action, and it also suppresses the immune system.

B. Stress and the Immune System

1. Chronic stress can have negative effects on the immune system.
 - a. *Psychoneuroimmunology* looks at the connections among psychological factors such as attitudes and emotions, the nervous system, and the immune system.
 - b. Acute stressors, which are sudden, stressful, one-time life events, can cause immunological changes. Chronic stress wears down the immune system, leaving a person open to illness.

C. Stress and Cardiovascular Disease

1. People who have experienced stressful life changes, like the death of a spouse, the loss of a job, or a natural disaster, are at an increased risk of a heart attack.
2. While this risk may be partially due to changes in health behaviors related to stress (overeating, smoking, avoiding exercise), chronic stress affects the cardiovascular system itself.

D. Stress and Cancer

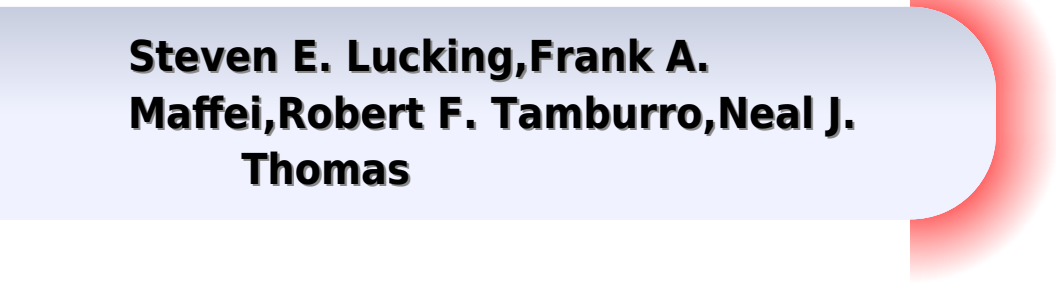
1. Stress has been related to cancer risk. Stress sets in motion the biological changes involving the autonomic, endocrine, and immune systems.

E. Stress and Prejudice

1. Prejudice and discrimination directed at members of sexual minority groups and transgender people predicts stress and physical illness. Stigma attached to various identities also leads to stress.
2. Racial prejudice affects the stress response and immune system function.

Psychology 17 Study Guide Answers

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Maffei, Robert F. Tamburro, Neal J.
Thomas**



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