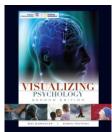


CHAPTER 3

Stress & Health Psychology



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Lecture Overview

- Understanding Stress
- Stress & Illness
- Health Psychology in Action
- Health & Stress Management



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Understanding Stress

- What is stress?
- Nonspecific response of the body to any demand made on it;
- physical & mental arousal to situations or events that we perceive as threatening or challenging

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Understanding Stress

- Pleasant or beneficial (exercise) eustress
- Unpleasant or objectional distress
- "Stress" will refer to harmful or unpleasant



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Stress



- Correlation between stress & illness
- Doesn't prove stress causes illness
- Noise causes hormonal & cardiac changes

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Understanding Stress:



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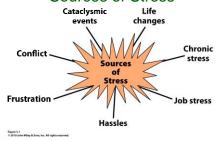
Social Readjustment Rating Scale "Bi score yourself on this scale, add up the "life change units" for all life events you have experienced during the last year. Now compare your totals score with the following standards 10-149 * No significant problems, 130-149 * Mild life crisis (3) percent chance of limes); 2002-59 * Abdorates life crisis (3) percent chances life crisis (3) percent				
Death of spouse	100	Son or daughter leaving home	29	
Divorce	73	Trouble with in-laws	29	
Marital separation	65	Outstanding personal achievement	28	
Jail term	63	Spouse begins or stops work	26	
Death of a close family member	63	Begin or end school	26	
Personal injury or illness	53	Change in living conditions	2.5	
Marriage	50	Revision of personal habits	24	
Fired at work	47	Trouble with boss	23	
Marital reconciliation	45	Change in work hours or conditions	20	
Retirement	45	Change in residence	20	
Change in health of family member	44	Change in schools	20	
Pregnancy	40	Change in recreation	19	
Sex difficulties	39	Change in church activities	19	
Gain of a new family member	39	Change in social activities	18	
Business readjustment	39	Mortgage or loan for lesser purchase (car,	17	
Change in financial state	38	major appliance)		
Death of a close friend	37	Change in sleeping habits	16	
Change to different line of work	36	Change in number of family get-togethers	15	
Change in number of arguments with spouse	35	Change in eating habits	15	
Mortgage or loan for major purchase	31	Vacation	13	
Foreclosure on mortgage or loan	30	Christmas	12	
Change in responsibilities at work	29	Minor violations of the law	11	

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Understanding Stress: Sources of Stress



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Understanding Stress: Sources of Stress (Continued)



Frustration:

unpleasant tension resulting from a blocked goal

Conflict:

forced choice between two or more incompatible alternatives



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Understanding Stress: Sources of Stress (Continued)

- Three Types of Conflict
 - Approach-Approach: forced choice between two or more desirable alternatives
 - Avoidance-Avoidance: forced choice between two or more undesirable alternatives
 - Approach-Avoidance: forced choice between two or more alternatives both having desirable & undesirable results

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Study Organizer 3.1 Types of Conflict		
Туре	Example	
Approach-approach Conflict	You must choose between two that will be inherently interest one that will look impressive o résumé.	ingand
Avoidance-avoidance Conflict	You must choose between miss and missing an important job	
Approach-avoidance Conflict	You want to spend more time i relationship, but that means yo be able to see your old friends	ou won't

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Pause & Reflect: Assessment

Assuming this man is attracted to one of these women, is he experiencing an approach-approach, approach-avoidance, or avoidance-avoidance conflict?



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Understanding Stress: Sources of Stress



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Pause & Reflect: Psychology & Life

What Are Your Major Hassles?

Write down the top 10 hassles you commonly experience. Then compare your answers to the following list:



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Understanding Stress:



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Understanding Stress: Effects of Stress

- SAM System (Sympatho-Adreno-Medullary): initial, fastacting stress response
- HPA Axis (Hypothalamic-Pituitary-Adrenocortical): Body's delayed stress response, which helps restore body's homeostasis. If extended may lead to impairment of the immune system & increased vulnerability to disease



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Understanding Stress: How Stress Affects The Body

- · When mentally or physically stressed
 - Body undergoes physiological changes
 - Cortisol plays critical role in the long term effects of stress
 - Prolonged elevation of cortisol is linked to increased levels of depression, PTSD, memory problems, unemployment, drug & alcohol abuse, and directly related to impairment of immune system

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Understanding Stress: How Stress Affects The Body

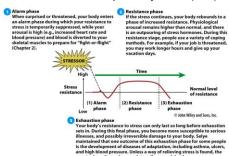
- Impaired immune system = greater risk of:
 - Bursitis
 - Colitis
 - Alzheimer's
 - Rheumatoid arthritis
 - Periodontal disease
 - Common cold



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The General Adaptation Syndrome (GAS)



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Understanding Stress: Effects of Stress (Continued)



 Psychoneuroimmunology: interdisciplinary field that studies the effects of psychological & other factors on the immune system



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Stress & Illness



- Cancer:
- · Rapid cell division tumor
- · Immune system checks growth
- •Stress immune system
- •Interrupted sleep "killer cells"
- Normal sleep



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Stress & Illness

· Cardiovascular Disorders:

Heart Disease: walls of coronary arteries thicken, reducing blood supply to heart.



Controllable factors:

- Stress
- Smoking
- Obesity
 High-fat diet
- •Certain personality
- characteristics
- ·Lack of exercise

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How Stress Affects The Body

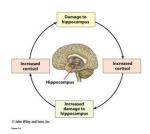
- · When body is stressed
 - Autonomic nervous system releases epinephrine and cortisol into the blood stream
 - Heart rate increases
 - Release of fat & glucose from body's stores to give muscles a source of energy

Fight or Flight

• If no action taken, fat is not burned; may adhere to blood vessel walls



How Stress Affects The Mind



SHORT TERM: Cortisol also can prevent the retrieval of existing memories, as well as the laying down of new memories

LONG TERM: Prolonged stress can permanently damage the hippocampus, a key part of the brain involved in memory. Once damaged, it cannot provide proper feedback to the hypothalamus, so cortisol continues to be secreted and a vicious cycle can develop

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How Stress Affects The Mind

- · Cortisol can prevent:
 - retrieval of existing memories;
 - laying down of new memories;
 - $\ \hbox{efficiency in general information processing}.$
- Explains why:
 - you forget information during an exam;
 - people become dangerously confused during an emergency.

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- Type A Personality: behavior characteristics that include intense ambition, competition, exaggerated time urgency, & a cynical, hostile outlook
- Type B Personality: behavior characteristics consistent with a calm, patient, relaxed attitude







Hardiness:
 resilient type of
 optimism that
 comes from three
 distinctive
 attitudes—
 commitment,
 control, &
 challenge

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Hardiness

· Commitment: to work & personal life

Control: see themselves in control

of their lives rather than victims of circumstance

Challenge: Look at change as a

challenge – opportunity for growth & improvement –

Learned: not a threat You can develop

traits

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 Posttraumatic Stress Disorder (PTSD): anxiety disorder following exposure to a life-threatening or other extreme event that evoked great horror or helplessness; characterized by flashbacks, nightmares, & impaired functioning.







Stress & Illness: PTSD (Continued)

Primary Symptoms of Posttraumatic Stress Disorder (PTSD)

- · Reexperiencing the event through vivid memories or flashbacks
- · Feeling "emotionally numb"
- Feeling overwhelmed by what would normally be considered everyday situations
- Showing diminished interest in performing normal tasks or pursuing usual interests

 Crying uncontrollably
- · Isolating oneself from family and friends and avoiding social situations
- Relying increasingly on alcohol or drugs to get
- Feeling extremely moody, irritable, angry, suspicious, or frightened



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Stress & Illness: PTSD (Continued)

- · Having difficulty falling or staying asleep, sleeping too much, and experiencing nightmares
- Feeling guilty about surviving the event or being unable to solve the problem, change the event, or prevent the disaster
 Feeling fear and sense of doom about the future

Five Important Tips for Coping with Crisis

- 1. Recognize your feelings about the situation and talk to others about your fears. Know that these feelings are a normal response to an abnormal situation.
- Be willing to listen to family and friends who have been affected and encourage them to seek counseling if necessary.
- Be patient with people. Tempers are short in times of crisis, and others may be feeling as much stress as you.
- Recognize normal crisis reactions, such as sleep disturbances and nightmares, with-drawal, reverting to childhood behaviors, and trouble focusing on work or school.
- Take time with your children, spouse, life partner, friends, and coworkers to do something you enjoy.
- Source: American Counseling Association and adapted from Pomponio, 2002.

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- Ulcers
- · Caused by bacteria
- · Stress leaves stomach more vulnerable to bacteria



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Pause & Reflect: Assessment Ala

Alarm Reaction Resistance Exhaustion

- Briefly describe Selye's three stage General Adaptation Syndrome (GAS).
- 2. <u>PTSD</u> is an anxiety disorder following extraordinary stress.



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Health Psychology in Action

Health
 Psychology:
 studies how
 biological,
 psychological, &
 social factors
 affect health &
 illness (the
 biopsychosocial
 model)



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Health Psychology in Action

- Major Health Risks:
 - 1. Tobacco
 - 2. Alcohol & Binge Drinking
 - 3. Chronic Pain (lasting over 6 months)



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Health Psychology in Action:

Tobacco



- · Why do people start smoking?
- 1. Peer pressure & imitation of role models (particularly important for young people)
- 2. Nicotine is addictive
- Smokers learn to associate smoking with pleasant things (e.g., good food, friends, etc.), as well as with the "high" that nicotine gives them

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Health Psychology in Action: Alcohol

- Why does the American Medical Association consider alcohol to be the most dangerous & physically damaging of all drugs?
- After tobacco, it's the leading cause of premature death in America & most European countries.
- 2. It may cause serious brain damage.
- It appears to increase aggression.

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Binge Drinking:
 occurs when a
 man consumes
 five or more
 drinks, or a
 woman
 consumes four
 or more drinks in
 about two hours.



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VISUALIZING



College-age Students and Drinking

Per Year:

- •1,400 die from alcohol related causes
- •500,000 suffer injuries
- •1.2-1.5% attempt suicide
- •400,000 have unprotected sex
- •100,000 are too intoxicated to know whether they consented to sexual intercourse

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Health Psychology in Action: Chronic Pain

- How do health psychologists treat chronic pain?
- Behavior modification
- 2. Biofeedback
- Relaxation techniques





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Health & Stress Management

- Can't escape stress, so must cope with it
- Level of stress depends on our interpretation and our reaction to stressors



- 1. Emotion-Focused (managing one's emotional reaction to a stressful situation)
- 2. Problem-Focused (dealing directly with a stressor to decrease or eliminate it)

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•			
,			
•			



Coping With Stress

- Emotion focused forms of coping: emotional or cognitive strategies that help us mange stressful situations
- Defense mechanisms (will see some later): unconsciously distort reality to protect their egos and avoid anxiety

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Coping With Stress

- Problem Focused forms of coping: deal directly with the stressor to decrease or eliminate it
 - Find a solution to the problem
- External Locus of Control: Belief that chance or outside forces beyond one's control determine one's fate
- Internal Locus of Control: Belief that one controls one's own fate

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Pause & Reflect: Critical Thinking

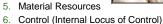
 Is this an example of emotion- or problemfocused coping?





Health & Stress Management

- Resources for Healthy Living
- 1. Health & Exercise
- 2. Positive Beliefs
- 3. Social Skills
- 4. Social Support



- 7. Relaxation
- 8. Sense of Humor



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Pause & Reflect: **Critical Thinking**

· Considering these eight resources for health & stress management, which resource do you most often use? Which one do you use least often? Why?

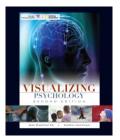


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End of CHAPTER 3

Stress & Health **Psychology**



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