Chapter 8: Motivation and Emotion

Motivation Concepts and Theories

- •Motivation—factors within and outside an organism that cause it to behave a certain way at a certain time
- •Drive—an internal condition or impulse that activates behavior to reduce a need and restore homeostasis
- •Incentive—external goal that "pulls" or "pushes" behavior

Theories of Motivation

- Instinct—motives are innate
- •Drive—biological needs as motivation
- •Incentive—extrinsic things push or pull behavior
- •Arousal—people are motivated to maintain optimum level of arousal (A person high in sensation seeking tends to look for exciting, perhaps risky activities)
- •Humanistic—hierarchy of needs; psychological and cognitive factors

Characteristics of Motivation

- •Activation is demonstrated by the initiation or production of behavior.
- •Persistence is demonstrated by continued efforts or the determination to achieve a particular goal, often in the face of obstacles.
- •Intensity is seen in the greater vigor of responding that usually accompanies motivated behavior.
- •Many forms of motivation have an emotional component, which is involved in the initiation and persistence of behavior.

Drives as Tissue Needs

- •Homeostasis—the constancy of internal conditions that the body must actively maintain.
- •Drives may be due to an upset in homeostasis, inducing behavior to correct the imbalance.
- •Animals do behave in accordance with their tissue needs (e.g., increasing or decreasing caloric intake, drive for salt).
- ·However, homeostasis cannot explain all drives.

Eating Behavior

- •What are considered "normal" food choices depend on culture.
- •Can be related to one's mood

Hunger Drive

Energy Homeostasis

- •Calories consumed=Calories expended
- •Food is broken down by enzymes, absorbed by intestines
- ·Glucose, or blood sugar, is converted as a source of energy
- •Insulin helps control glucose and regulate eating and weight
- ·Basal metabolic rate is resting rate
- •Adipose tissue (body fat) is main source of stored calories
- •Baseline body weight—cluster of genetic and environmental factors that cause a person's weight to settle within a given range

Hunger Drive: Regulating Eating

Physiological changes:

- -slight drop in blood glucose
- -Ghrelin: internal "signal" stimulates secretion of growth hormone by pituitary gland in brain
- -increase in body temperature
- -decrease in metabolism

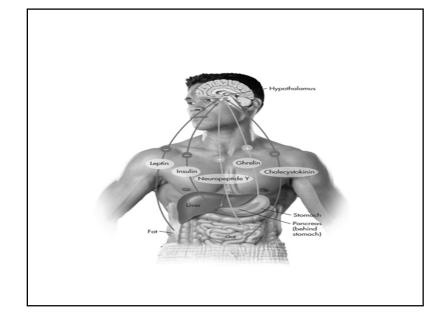
Psychological changes:

- -stimuli can be associated with anticipation of eating (operant conditioning)
- -preference for certain tastes (positive incentive value)

Hunger Drive: Regulating Eating

- •Satiation signals:
 - -stretch receptors communicating sensory information
 - -signals from the stomach (CCK)
 - -sensory-specific satiety-appeal diminishes
- •Long-term signals:
 - -leptin, a hormone indicating the amount of fat in the body

 - -signals indicating the amount of food molecules in the blood (insulin)
 - -Neuropeptide Y (NPY), neurotransmitter regulated by leptin and insulin



Changes over Lifespan

- •Set-point theory: body has optimal body weight
- •Settling-point models: body weight settles balance between energy intake and expenditure

Excess Weight and Obesity

- •Body mass index (BMI) —numerical scale indicating height in relation to weight
- •Obesity—condition characterized by excessive body fat and a BMI equal to or greater than 30.0
- •Overweight—condition characterized by BMI between 25.0 and 29.9
- •More than 1/3 of adult U.S. population considered to be overweight.

Basal Metabolic Rate

- •The rate at which the body uses energy for vital functions while at rest
- •Factors that influence BMR:
 - Age
 - •Sex
 - Size
 - Genetics
 - Food intake

Factors in Weight Gain

- Lack of sleep
- Highly palatable foods
- Overeating
- •More variety=more consumed ("Cafeteria diet")
- Sedentary lifestyle
- •Variation in Basal Metabolic Rate (BMR)
- •Weight cycling ("yo-yo dieting")—repeated dieting, weight loss and weight gain tends to result in higher weight and reduced BMR

Factors Involved in Obesity

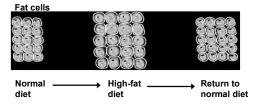
- Genetic susceptibility
- Environmental conditions
- Leptin resistance
- •BMR resistance to maintaining weight loss
- •Role of Dopamine receptors (cause or consequence unknown)

Obesity Rates

- •Beyond the United States, rapidly increasing rates of obesity have become a global health problem.
- •More than one billion adults are overweight.
- •Atleast 300 million of these are clinically obese (World Health Organization, 2009).

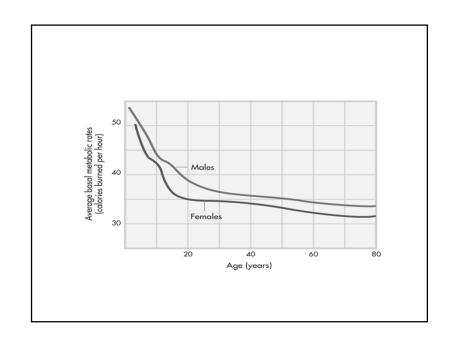
Research on Weight Regulation and Dieting

- •Body better at defending against weight loss than weight gain.
- •Fat cells are determined by genetics and food intake.
- •They increase with weight gain, but merely shrink with weight loss; may stimulate hunger
- •Weight loss causes a decline in basal metabolism.



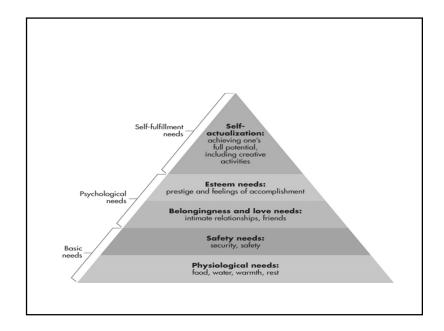
Effects of Culture and Habits on Body Weight

- •In America, focus is on the "thin ideal."
- •Reality: the "expanding waistline"
- •2/3 of Americans are not at the weight they should be.



Humanistic Theories

Abraham Maslow suggested that motives are divided into several levels from basic survival needs to psychological and self-fulfillment needs.



O Table 8.3 -Maslow's Characteristics of Self-Actualized People Realism and Self-actualized people have accurate perceptions of themselves, acceptance others, and external reality. Spontaneity Self-actualized people are spontaneous, natural, and open in their behavior and thoughts. However, they can easily conform to conventional rules and expectations when necessary. Problem centering Self-actualized people focus on problems outside themselves. They often dedicate themselves to a larger purpose in life. Autonomy Although they accept and enjoy other people, self-actualized individuals have a strong need for privacy and independence. **Continued freshness** Self-actualized people continue to appreciate the simple pleasures of appreciation of life with awe and wonder. Self-actualized people commonly have peak experiences, or Peak experiences moments of intense ecstasy, wonder, and awe during which their sense of self is lost or transcended. Source: Based on Maslow (1970).

Self-Determination Theory

- •Optimal human functioning can occur only if the psychological needs of autonomy, competence and relatedness are met.
- •Proposed by E. L. Deci and R. M. Ryan

Self-Determination Theory

- •Autonomy—need to determine, control, and organize one's own behavior and goals
- •Competence—need to effectively learn and master challenging tasks
- •Relatedness—need to feel attached to others

Self-Determination Theory

- •To satisfy one's needs for autonomy, competence, and relatedness.
- •Intrinsic Motivation: engaging in tasks inherently satisfying, novel, or challenging to the person
- •Extrinsic Motivation: Internalizing and integrating outside reinforcers (rewards, social evaluations)

Competence and Achievement

- •Competence motivation—behavior aimed at demonstrating competence and exerting control in a situation
- •Achievement motivation—behavior aimed at excelling, succeeding, or outperforming others at some activity
- •Henry Murray (1935) developed Thematic Apperception Test (TAT) to test human motives

Culture and Achievement Motivation

- •Individualistic cultures more focused on personal, individual success rather than success of group; closely linked to success in competitive tasks
- •Collectivistic cultures' orientation is toward the social, promoting one's group and/or family.

Concept of Emotion

- •A complex psychological state that involves subjective experience, a physiological response, and a behavioral or expressive response.
- •Emotion moves us to act, to set goals, make rational decisions
- Emotional intelligence involves the ability to manage and understand one's own emotional experiences as well as be attuned to that of others.

Basic Emotions

- •Fear, surprise, anger, disgust, happiness, sadness
- •Basic emotions are innate and "hardwired."
- •Complex emotions are a blend of many aspects of emotions.

The Evolution of Emotion

- •Darwin argued that emotions reflect evolutionary adaptations to the problems of survival and reproduction.
- •Emotions help us to solve adaptive problems.
- •Move us toward resources and away from danger.
- •Emotions are crucial to human relationships.

Gender differences

- •Both men and women tend to view women as more emotional.
- •Men and women do not differ in their self ratings of *experience* of emotions, but they do differ in their *expression* of emotions.

Culture and Emotion

- •General agreement across culture about basic emotions.
- •Classified along two dimensions:
 - -Pleasant or unpleasant
 - -Level of activation or arousal associated with the emotion
- •But cultural variations do exist in the presence of a third dimension: *interpersonal engagement*

Physical Arousal and Emotions

- •Sympathetic nervous system is aroused with emotions (fight-or-flight response)
- •Different emotions stimulate different responses
 - Fear—decrease in skin temperature (cold-feet)
 - Anger—increase in skin temperature (hot under the collar)

Brain and Emotions

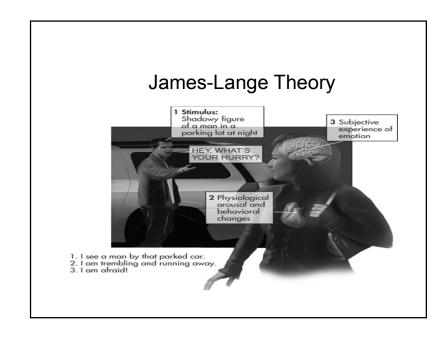
The Amygdala:

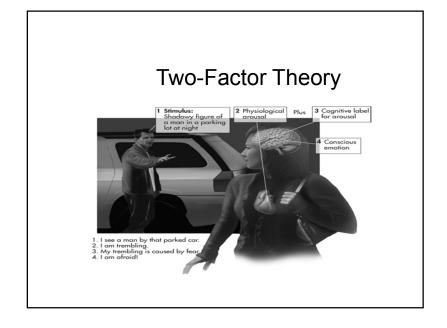
- •evaluates the significance of stimuli and generates emotional responses
- •generates hormonal secretions and autonomic reactions that accompany strong emotions
- damage causes "psychic blindness" and the inability to recognize fear in facial expressions and voice

Emotion and Facial Expressions

- •Each basic emotion is associated with a unique facial expression.
- •Facial expressions are innate and "hard-wired."
- •Innate facial expressions the same across many cultures.
- •Display rules—social and cultural rules that regulate emotional expression, especially facial expressions.

Theories of Emotion Common-Sense Theory Common sense might suggest that the Stimulus (Tiger) Perception (Interpretation of stimulus—danger) Odi Theories of Emotion Emotion (Fear) Odi Perception (Fear) Odi Arousal (Pounding heart)





Cognitive-Appraisal Theory

- •Emotions result from the cognitive appraisal of a situation's effect on personal well-being.
- •Similar to two-factor, but cognitive mediational theory's emphasis is on the cognitive appraisal as the essential trigger for the emotional response.