Abnormal Psychology PSYCH 40111

Models of Psychopathology

Scientific Paradigms

- Paradigms are conceptual frameworks that scientists use to study the world
 - Paradigms include assumptions about science and methods
 - Paradigms dictate what will and will not be studied
 - Paradigms can dictate the methods used by a scientist

Abnormal Behavior in Ancient Times

- Demonology, gods, and magic
- Hippocrates' medical concepts
- Early philosophical conceptions of consciousness and mental discovery





Abnormality During the Dark Ages

- Marked by an increase of influence of churches
- Church authorities came to view witchcraft as an explanation of abnormality
 - Witches were in the league with the Devil
 - Torture was required to elicit "confessions"



Renaissance

- Resurgence of scientific questioning in Europe
- Establishment of early asylums and shrines
- Humanitarian Reformers



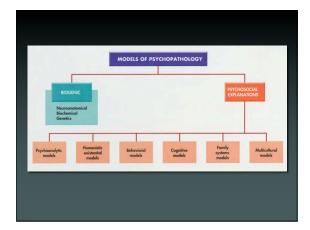
The Beginning of the Modern Era

- Establishing the link between the brain and mental disorder
- Early biological views
- The beginnings of a classification system



Early Views of Psychopathology

- Somatogenesis is the view that disturbed body function produces mental abnormality
- Psychogenesis is the belief that mental disturbance has psychological origins



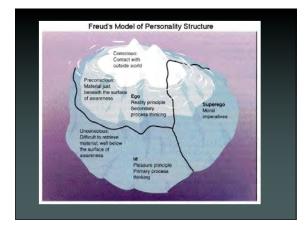


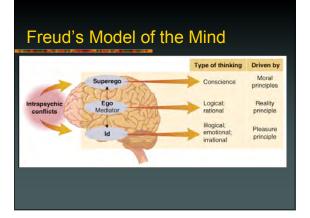
The Psychoanalytic Paradigm

- The core assumption of the psychoanalytic paradigm is that abnormal behavior reflects unconscious conflicts within the person
- The psychoanalytic paradigm is derived from the theories of personality developed by Sigmund Freud

Freud's Model of the Mind

- Freud suggested that the mind is composed of three parts:
 - **Id** is the raw energy that powers the mind
 - Id seeks gratification of basic urges for food, water, warmth, affection, and sex
 - Id processes are unconscious
 - Ego is a conscious part of the mind that deals with reality
 - Superego is the final part of the mind to emerge and is similar to the conscience







Psychosexual Development

 Freud argued that personality develops in stages: in each stage the id derives pleasure from a distinct part of the body

- Oral (Birth to 18 months): infant derives pleasure from eating and biting
- Anal (18 months to 3 years): the focus of pleasure is the anus
- Phallie (3 to 6 years): the genitals are the focus of pleasure
- Latent (6 to 12 years): id impulses are dormant
- Genital: heterosexual interests are dominant

Defense Mechanisms

 Anxiety results from blockade of id impulses or from fear of expression of an impulse

Defense mechanisms reduce anxiety:

- Repression
- Denial
- Projection
- Displacement
- Reaction formation
- Regression
- Rationalization
- Sublimation

Psychoanalysis

Goal: Insight

- Free association
- Interpretations
- Dream analysis
- Resistance
- Transference



Neo-Freudian and Modern Psychodynamic Theories

- Jung
- Adler
- Ego Psychology (Horney, Erikson)
- Object Relations (Klein, Kernberg)
- Interpersonal Therapy (Sullivan)
- Attachment Theory (Bowlby)

Critique of Psychoanalysis

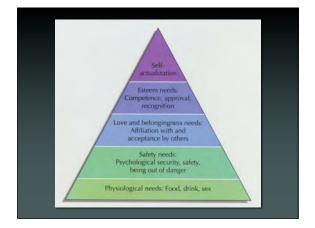
- Sexual instincts as basis for all behavior
- Id, Ego, Superego
- Based on limited sample of women in Vienna
- Little evidence for success with many disorders
- Lengthy/expensive treatment
- Not based on empirical research

Freud's Legacy

- Freud contributions include the views that:
 - Childhood experiences help shape adult personality
 - There are unconscious influences on personality
 - Defense mechanisms help to control anxiety
 - The causes and purposes of human behavior are not always obvious

Humanistic/Existential Paradigms

- Humanistic/existential paradigms focus on insight into the motivations/needs of the person
 - These paradigms place greater emphasis on the persons freedom of choice (free will)
 - The humanistic paradigm does not focus on diagnostic labeling



Assumptions of Roger's Client-Centered Therapy

- People can only be understood from the vantage point of their own feelings (phenomenology)
- Healthy people are:
 - aware of their own behavior
 - innately good and effective
 - purposive and directive

Existential Therapy

- The existential view emphasizes personal growth
- The existential view notes that making choices results in anxiety
- Existential therapy encourages clients to confront their anxieties and to make important decisions about how to relate to others

Gestalt Therapy/ Modern Experiential Therapy

- Gestalt therapists focus on the here and now and on the individual as an actor responsible for his or her role
- Modern experiential therapy combines humanistic, existential, and Gestalt approaches:
 - attending to nonverbal cues
 - empty-chair technique
 - 2-chair dialogue

Evaluation of Humanistic/ Existential Approach

Pros:

- Relies upon the client's strengths, goals
- Rogers should be credited for the origination of psychotherapy research

Cons:

- Premise that humans are inherently good has been challenged
- No effort is made to determine whether the patient has the necessary skills for effective change

Behavior Paradigm

- Focus on environmental influences and observable behavior: Behaviorism
- Learning
 - the process whereby behavior changes in response to the environment
- Key Figures
 - Pavlov
 - Watson
 - Thorndike
 - Skinner

Three Models of Learning

- Classical conditioning
 Pavlov
- Operant/instrumental conditioning
 Skinner
- Modeling/observational learning
 Bandura

Classical Conditioning

- Unconditioned Stimulus (UCS)
- Unconditioned Response (UCR)
- Conditioned Stimulus (CS)
- Conditioned Response (CR)

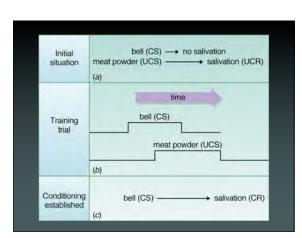


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Classical Conditioning

- Unconditioned Stimulus (UCS)
- Unconditioned Response (UCR)
- Conditioned Stimulus (CS)
- Conditioned Response (C):





Operant Conditioning

Operant conditioning

- The likelihood of a response is increased or decreased by virtues of its consequences
- Contingency (Thorndike's Law of Effect)
- the association between action and consequences Reinforcement

 - the process by which events in the environment increase the probability of the behavior that precede it

Operant Conditioning

- Positive reinforcement
- behaviors followed by pleasant stimuli are strengthened
- Negative reinforcement
- behaviors that terminate a negative stimulus are strengthened
- Punishment
- suppression of behavior by introduction of aversive consequences

Modeling

- Learning can occur in the absence of reinforcers
- Modeling involves learning by watching and imitating the behaviors of others
 - Models impart information to the observer Children learn about aggression watching aggressive models

Behavior Therapy

- Behavior therapists use classical and operant conditioning techniques as well as modeling
 - Exposure
 - Systematic desensitization
 - Contingency Management
 - Observational Learning

Evaluating Behaviorism

Cons:

- Oversimplification
- Determinism
- Denies Intrapersonal factors <u>Pros:</u>
- Scientific
- Sensitive to Environmental Factors

The Cognitive Paradigm

- Based in Information processing viewpoint
- Cognition involves the mental processes of perceiving, recognizing, judging and reasoning
- Schemas
 - Beliefs
 - Attributions
 - Expectancies

Cognitive Therapy

Ellis

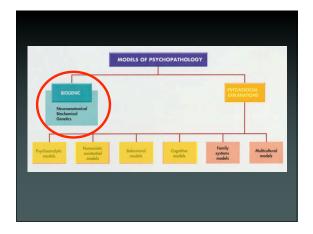
Rational-Emotive Therapy

Beck

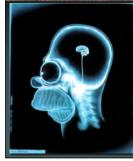
- Cognitive Distortions
- Negative Cognitive Triad
- Automatic Thoughts

Cognitive Behavior Therapy

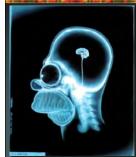
- Cognitive and Behavioral Paradigms have largely merged
- Thoughts, feelings, behaviors are all causally interrelated
- Combination of performance-based and thinking-based interventions
- Collaborative Empiricism
 - Interactive effort between therapist and client



The Biological Paradigm



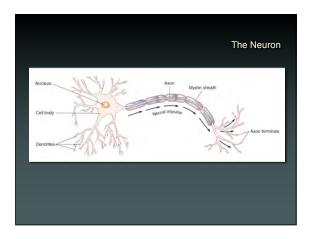
The Biological Paradigm

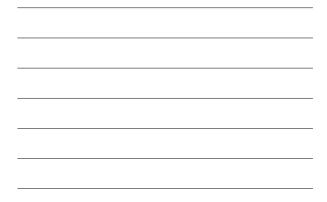


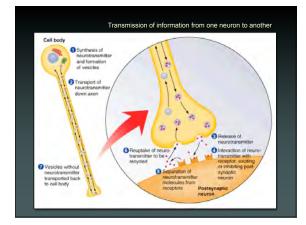
- The biological paradigm (medical model) suggests that alterations of biological processes result in abnormal behavior
- Biological processes may include:
 Imbalances of brain chemistry
 - (functional deficits)
 Disordered development of brain structures
 - Disordered genes lead to disorder (heredity)

Neuroscience and the Nervous System

- The Field of Neuroscience
 The role of the nervous system in disease and behavior
- The Central Nervous System (CNS)
 Brain and spinal cord
- The Peripheral Nervous System (PNS)
 Somatic and autonomic branches



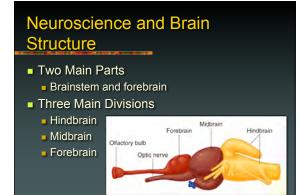




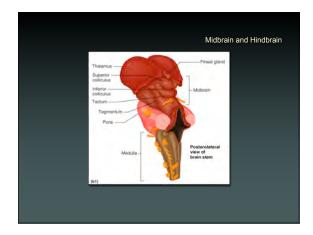
Neuroscience: Neurotransmitters and Psychopharmacology

Functions of Neurotransmitters

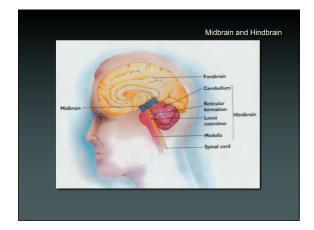
- Agonists, antagonists, and inverse agonists
- Most drugs are either agnostic or antagonistic
- Main Types and Functions of Neurotransmitters
 - Serotonin (5HT)
 - Gamma aminobutyric acid (GABA) and benzodiazepines
 - Norepinephrine and beta blockers
 - Dopamine and L-Dopa



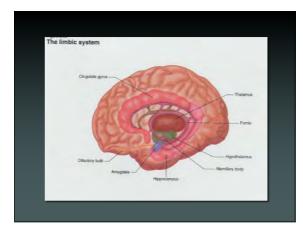




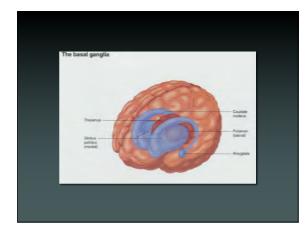




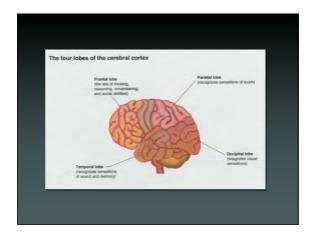








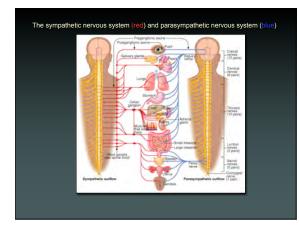






The Peripheral Nervous System

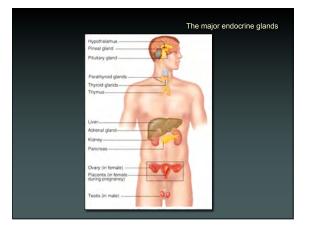
- Peripheral nervous system (PNS)
 - A network of nerve fibers leading from the CNS to all parts of the body
- Somatic Branch of PNS
 - Controls voluntary muscles and movement
- Autonomic Branch of the PNS
 Sympathetic division
 - mobilizes the body to meet emergencies
 - Parasympathetic division
 slows down metabolism and regulates the organs in such a way that they can do the work of rebuilding their energy supply



The Endocrine System

Hormones

- chemical messengers that are released into the bloodstream by the endocrine glands
- affect sexual functioning, appetite, sleep, physical growth and development, the availability of energy, and emotional responses
- Hypothalamic-Pituitary-Adrenalcortical Axis
 - HPA axis
 - Integration of endocrine and nervous system function





Biological Approaches to Treatment

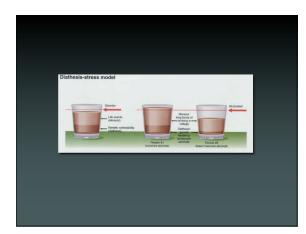
- The approach to treatment is usually to alter the physiology of the brain
 - Drugs alter synaptic levels of neurotransmitters
 Surgery to remove brain tissue
 - Induction of seizures to alter brain function
- Experience Can Change Brain Structure and Function
- Therapy Can Change Brain Structure and Function
 Medications and psychotherapy

Behavior Genetics

- Behavior genetics is the study of how individual differences in genetic makeup contribute to differences in behavior
 - Genotype is the total genetic makeup, composed of genes
 - Phenotype is the observable behavioral profile
 - The phenotype can change over time as a function of the interaction of genes and environment

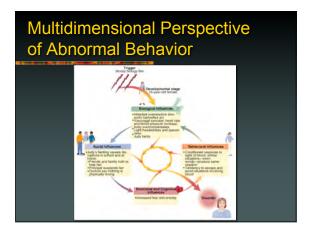
Methods of Behavioral Genetics

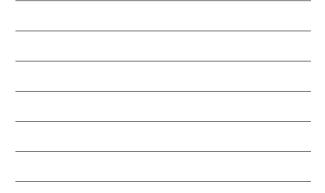
- Family studies
- Twin studies
- Adoption studies
- Molecular genetic studies



Models: An Integrative Approach

- Psychopathology is multiply determined
- One-dimensional accounts of psychopathology are incomplete
- On the horizon: innovative approaches to psychopathology (e.g., emotion frameworks)
- Must consider reciprocal relations between
 - Biological, psychological, social, experiential, cultural, and developmental factors





Multidimensional Perspective of Abnormal Behavior

Comparing	g the Model	6					
	BIOLOGICAL	PSYCHODYNAMIC	BEHAVIORAL	COGNITIVE	HUMANISTIC	EXISTENTIAL	SOCIO- CULTURAL
Cause of Bysfsinction	Elological malfunction	Underlying conflicts	Maladaptive learning	Maladaptive Minking	Sell deceit	Avaidance of researchibility	Family or social stress
Research support	Strong	Modest	Strong	Strong	Weak	Weat	Moderate
Consumer designation	Patient	Patient.	Client	Client .	Patient or client	Patient or cilent	Dilent
Therapist	Dectair	listerpreter	Teacher	Persuader	Observer	Eollaborator	Social facilitator
Key therapist technique	Biological Intervention	Free association and interpretation	Conditiuning	Reasoning	Rellection	Varied	Social inter- vention
Thevally goal	Biological repair	Bread psychological charge	Functionial behaviors	Adaptive	Self- actualization	Authentic. Né-	Effective family or social

