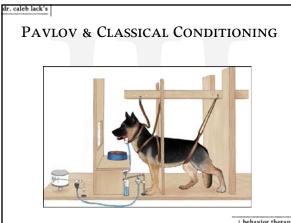




ir. caleb lack's S-R LEARNING Classical conditioning The most basic form of learning; one stimulus comes to serve as a signal for the occurrence of a second stimulus (the response) Stimulus – a physical event capable of affecting behavior

Very common type of learning, may play a role in everything from fears to racial prejudice

| behavior therapy

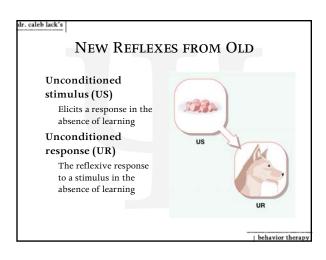


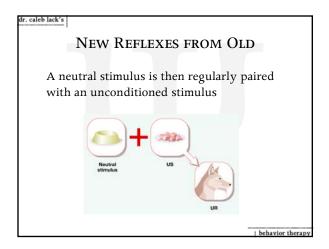
THE EXPERIMENT

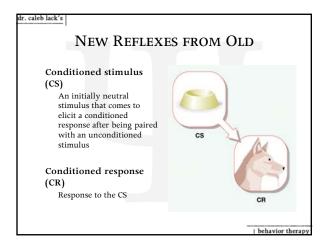
Pavlov was researching the digestive process in dogs, when he came upon an interesting phenomenon

He would ring a bell at the same time as he was serving the dogs food; eventually, the dogs began to drool at just the sound of the bell

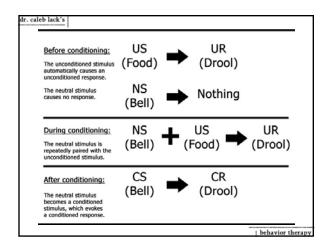
One stimulus became paired with another, one signaling the coming of the other







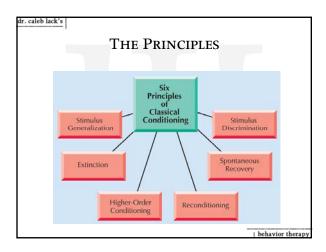




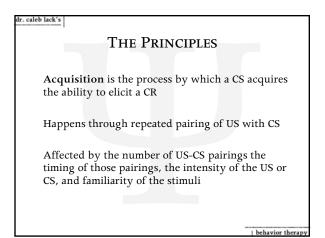










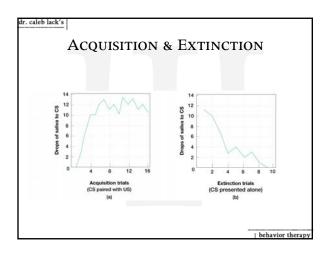


THE PRINCIPLES

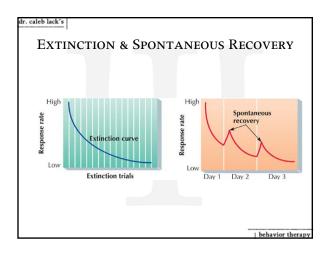
Extinction

Process by which a CS loses the ability to elicit CR because it is no longer followed by the US

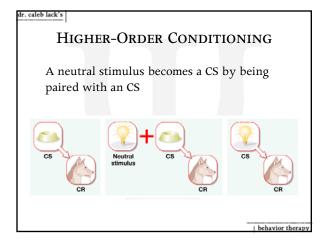
Not a perfect process, events such as reconditioning and spontaneous recovery hinder the extinction of CR

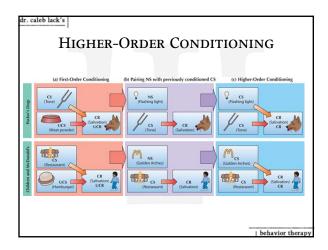




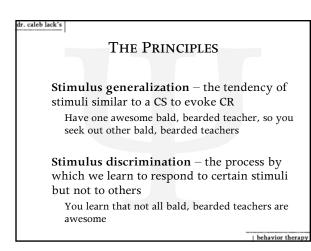


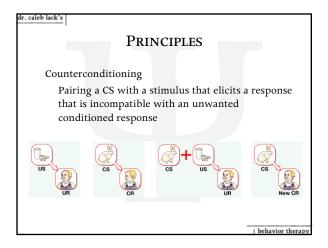












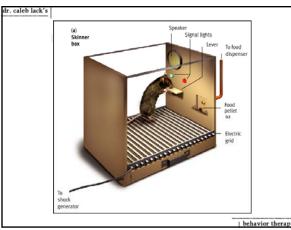
OPERATIONAL DEFINITION

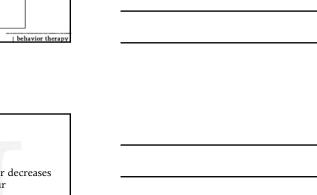
Operant conditioning – process where you learn to repeat behaviors that yield positive outcomes or permit them to avoid or escape negative outcomes

In other words, the chance that a behavior will occur depends on the consequences that follow

These chances can be increased by reinforcement or decreased by punishment

| behavior therapy





dr. caleb lack's CONSEQUENCES A neutral consequence neither increases or decreases the probability that the response will recur Reinforcement strengthens the response or makes it more likely to recur Punishment weakens a response or makes it less likely to recur

INCREASING BEHAVIOR

Reinforcement

Applying or removing a stimulus to increase the strength of a specific behavior

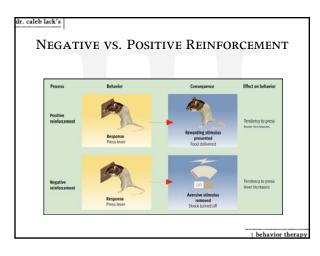
Positive reinforcers

Stimuli that strengthen responses that precede them There are primary (food, water) and secondary reinforcers (money, praise)

Negative reinforcers

Stimuli that strengthen responses that cause avoidance of those stimuli

| behavior therapy



dr. caleb lack's

DECREASING BEHAVIOR

Punishment

Applying or removing a stimulus decreases the strength of a behavior

Positive punishment

Occurs when behaviors are followed by aversive stimuli called punishers

Negative punishment

Occurs when behaviors are linked to loss of potential reinforcers

THE PRINCIPLES

Shaping

Closer and closer approximations to desired behavior are required for positive reinforcement to be given

Chaining

A sequence of responses must be followed to gain a reward

| behavior therapy

dr. caleb lack's

THE PRINCIPLES

Stimulus generalization Stimuli that are similar to the original stimulus are more likely to trigger a response.

Stimulus discrimination

The tendency of a response to occur in the presence of one stimulus but not another

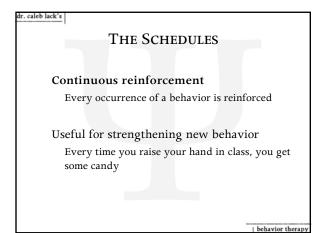
| behavior therapy

dr. caleb lack's

THE SCHEDULES

There are different schedules of reinforcement used in operant conditioning

These schedules are rules determining when and how reinforcements will be delivered



THE SCHEDULES

Fixed-interval – a specific interval of time must elapse before a response will yield reinforcement

Such as a studying schedule

Variable-interval – a variable amount of time must elapse before a response will be reinforced

Surprise inspections at workplace

| behavior therapy

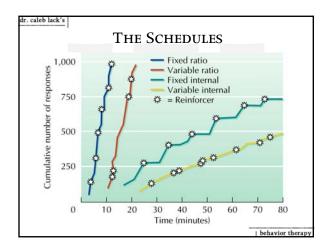
Ir. caleb lack's

THE SCHEDULES

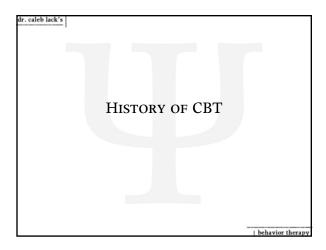
Fixed-ratio – reinforcement occurs only after a fixed number of responses have occurred Being paid for every ten license plates you stamp

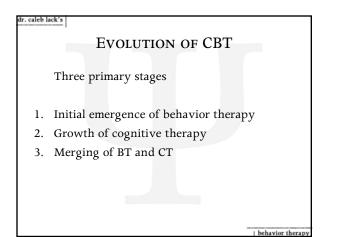
Variable-ratio - reinforcement occurs only after a variable number of responses have been performed

Slot machines and other games of chance









11

STAGE ONE

Behavior therapy emerged independently in the US and UK in the 1950s

Brits focused on outpatient anxiety/fear and based more on classical conditioning

Americans focused on institutionalized patients and were based more on Skinnerian conditioning and techniques

| behavior therapy

ir. caleb lack's

US BEHAVIOR THERAPISTS

Radically behavioral in their outlook

Lindsley – verbal responses in psychiatric patients

Krasner - further verbal conditioning

Lovaas – autism treatment

Ayllon & Azrin – token economy systems

| behavior therapy

dr. caleb lack's

UK BEHAVIOR THERAPISTS

Both psychiatrists and psychologists were integral in the development

Critical of Skinner's theories, more Pavlovian or Hullian, and accepting of genetic factors

Hans Eysenck's critiques of psychoanalysis

Joseph Wolpe's systematic desensitization

COMMON GROUND

Despite the differences, US & UK BT had much in common

Concentrated on "behavioral problems" Change in behavior was both necessary and sufficient to cure problems

Psych problems were result of faulty learning Strict empirical approach to treatment

| behavior therapy

dr. caleb lack's

COMMON GROUND

Led to merging of two approaches in the 1970s, with a subsequent emphasis on effectiveness research

Many successes in Stage One, but notable failures as well Depression

Addictive problems

| behavior therapy

dr. caleb lack's

Stage Two

Beck's cognitive therapy for depression made huge impact on the field, as the aversion to cognitive concepts waned in the 1980s

Emphasis and empiricism and the inclusion of behavioral concepts helped speed acceptance

Beck & Ellis' work seen more as supplements than competitors to BT

BECK VS. ELLIS

Ellis' work

Was more directly linked to BT Had an earlier recognition of link between thoughts and emotions Were more loosely formulated and anecdotal

Beck's work

Highly testable Focused on treatment of depression Became more popular, both for clinical use and outcome research

| behavior therapy

Ir. caleb lack's

COGNITIVE THERAPY

There is a strong disconnect between cognitive *therapy* and cognitive *science* Emphasis on conscious processes Lack of emphasis on subjectivity of experiences Lack of emphasis on how mood impacts attention

This is being closed however, as more psychologists become involved in crossdisciplinary research

| behavior therapy

dr. caleb lack's

STAGE THREE

With the merging of cognitive and behavioral therapies, interesting exchanges occur

- Emphasis on empiricism and conducting outcome research (from BT) has been kept
- CT is supplying more *content* to BT, in the form of client explanations, wishes, fears, and understanding
- CT allows for expanded explanatory power for psychological problems (e.g., OCD, panic)

STAGE THREE

Merging also raises new theoretical questions

- Causality links between thoughts, emotions, and behaviors
- What are the key mechanisms of change, both in BT and CT?
- How best to track cognitive changes and when they produce improvement?

| behavior therapy

Ir. caleb lack's

BEHAVIORIZING PSYCHOLOGY

As with the gap between cognitive therapy and cognitive science, many feel there is a gap between behavior therapy and behavioral science

This can lead to a number of issues for behavior therapists, both in practice and theory

| behavior therapy

dr. caleb lack's

Not Just One

Many different kinds of behaviorism Radical behaviorism (RB) / Skinner Cognitive-social behaviorism / Bandura Psychological behaviorism / Staats

Each is similar, but also have fundamental differences

Which one a therapy or theory is based on will impact it greatly