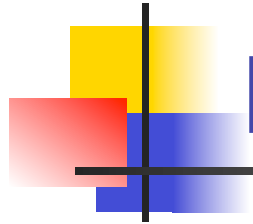


# **Cognitive-Behavioral Treatment of Children and Adolescents: Overview Of Theory and Techniques**

---

**MICHAEL BUTKUS, PHD**  
**Executive Director WSU Project CARE**  
**Assistant Professor**  
**Children's Hospital of Michigan**  
**Department of Psychiatry and Psychology**  
**June 19, 2008**



# Evidence based practices & CBT

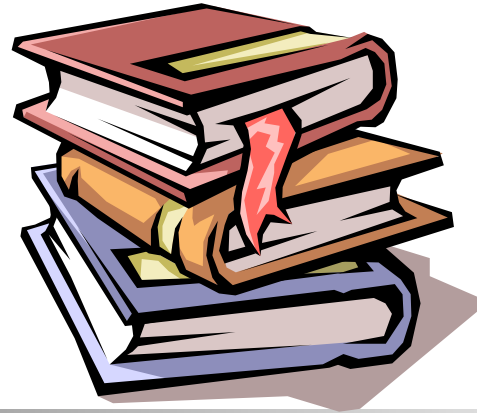
---

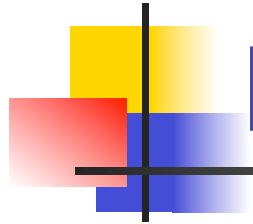
- Few of the hundreds of therapies for children and adolescents meet the tests of evidence, e.g., APA's efficacy criteria:
  - Well supported and possibly efficacious to unsupported and possibly harmful
- CBT has met the criteria for well supported and possibly efficacious for a number of disorders, perhaps more so than any other type of therapy
- However, not all therapies have been empirically investigated yet.



# I. Theory

---

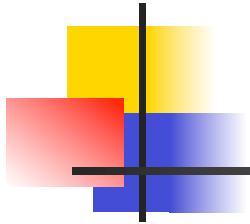




# Foundations of CBT

---

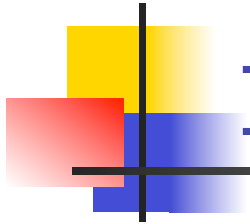
- Development of CBT influenced by the works of early behaviorists: Pavlov, Skinner; later by Bandura and Wolpe and cognitive therapists: Aaron Beck and Albert Ellis



# CBT Definition

---

**Enactive, performance-based procedures as well as cognitive interventions to produce changes in thinking, feeling, and behavior (Kendall, 2000).**



## Interrelationship

---

- **Behavior, thoughts, and feelings are seen as causally related in CBT and are all treatment targets.**





# Role of Learning

---

- **Learning is pivotal in the acquisition and maintenance of behavior—adaptive or dysfunctional**
- **Just as adaptive behavior is learned, so is maladaptive behavior**





# Learning Methods

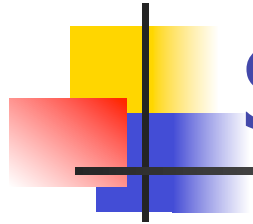
## Operant conditioning

**S** (stimulus)                      **R** (response) + **CQ** (consequence)  
= **learning**  
(Consequence: reward or punishment)

## Classical Conditioning

<b>CS</b> (bell)	=====	<b>CR</b> (salivation)
<b>US</b> (food)	→	<b>UR</b> (salivation)

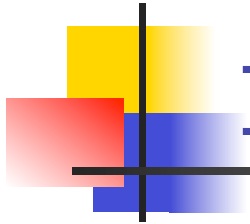




# Social Learning and CBT

---

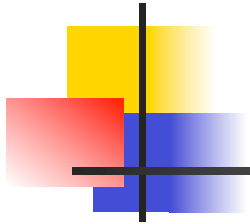
- **The principles of social learning theory (based on the work of A. Bandura):**
  - **Observational learning**
  - **Imitation**
  - **Modeling**



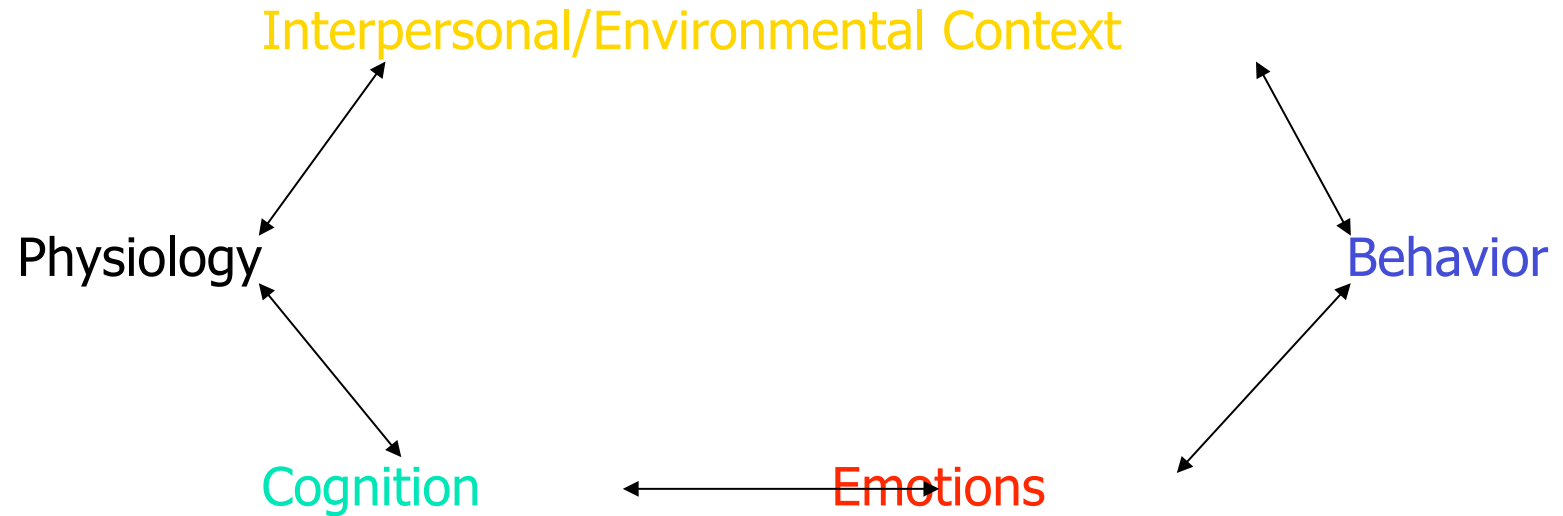
## Influence and Context

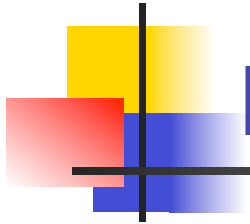
---

- **A child's behavior is influenced by its environment and the environment is influenced by the child's behavior.**
- **Behavior is the product of an ever changing interaction between person and environment (reciprocal determinism) (Bandura, 1977).**



# CBT Domains Of Importance

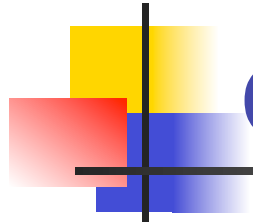




## Nature of CBT

---

- **In CBT learning is more than rewards and punishments.**
- **Learning also depends on the manner in which children and adolescents process information cognitively.**



## Cognitive Processing

---

- **Children (and adults) evaluate, judge, and categorize behavior.**
- **They actively construct information by selecting, encoding, and explaining what happens to them and others (Friedberg & McClure, 2002).**



# Cognitive Processing

---

- **How children interpret what happens to them is critical to their emotional functioning.**
- **Everyone, including children and adolescents, actively processes experience and information.**
- **Behavior is not just generated as is assumed in more classical learning theory.**

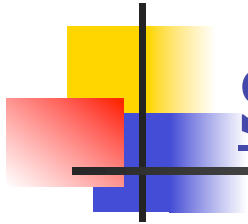


# Information Processing

---

## **Kinds of thinking:**

- **Conscious thoughts**
- **Automatic thoughts: assumptions, expectations, attributions**
- **Deep seated attitudes and beliefs**
  - products of:
    - Core beliefs or Schemas

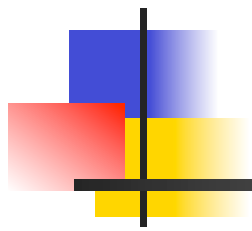


## **Schemas:**

---

- **Core meaning structures that direct attention, encoding, and recall (Fiske & Taylor, 1991).**
- **Can be thought of as templates that actively filter information.**
- **Are actively constructed from a very early age and reinforced over time.**
- **Are protected from an early age.**
- **Information discrepant from the core beliefs is often nullified or transformed via cognitive distortions.**





## II. Treatment

---

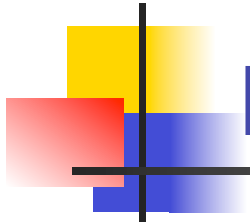




# Aim of Treatment

---

**Alter core beliefs to ensure  
sustained change in  
emotions and behaviors**



## Nature of CBT

---

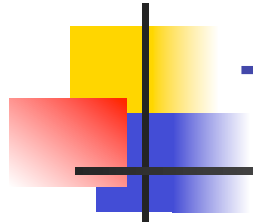
- **CBT attempts to understand the relationship between a child's behavior and accompanying cognitive processes (automatic thoughts, distortions, schemas).**



# CBT Treatment

---

- **Goal: help child manage their psychopathology and move closer to the normal developmental trajectory**
- **How: Help child learn more adaptive problem-solving skills;**
- **By providing meaningful and real experiences that alter cognitive processes and content and ultimately cognitive structures that can be then used with future experiences (Kendall, 2006)**



## The Role of the Past in CBT

---

- **In CBT the past is de-emphasized.**
- **The past is viewed as offering clues re: behavior patterns, reinforcements, cognitive processes, and how the core beliefs began.**
- **But CBT is very “here and now” focused.**

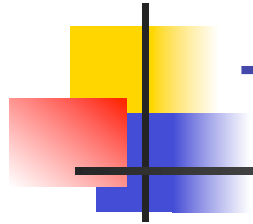


## Relationship Importance

---

- **In CBT (and just about all other therapies) the nature of the therapeutic relationship is important.**





## Thoughts and Feelings

---

- **Beck and others have shown that distinct cognitions are reliably associated with distinct emotional states (*content-specificity hypothesis*).**

# Depression Schema

- **Classic negative triad: depressed individuals have negative view of the self, others, and the future—"I'm not worth anything." "No one will like me." "It will be this way forever."**







## Anxiety Schema

---

- **Anxious individuals have different cognitions that are based on the cognitive distortion of catastrophizing—“the world is always dangerous.” “I must always look for danger.” “I’m not able to handle danger.”**

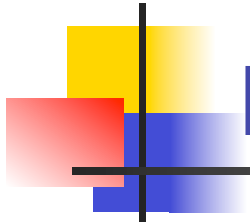




# **Causes of Emotional And Behavioral Problems In Children**

---

- **Cognitive distortions (i.e., Dysfunctional or biased information processing)**
- **Cognitive deficiencies (i.e., Absence of thinking)**
- **Disturbed beliefs**
  - **2+2=5**
- **Lack of appropriate behavioral skills**
- **Inadequate problem-solving skills**



## Nature of CBT

---

- **Exposure to many behavioral experiences or events**
- **These are concurrently processed cognitively**
- **Over time new schemata are developed**
- **New thoughts, behavior and feelings emerge**



# **General CBT Format**

---



# What to Assess?

---

- **A, B, Cs**
  - **Antecedents or Activating Events:**  
cause of strong feelings and/or negative cognitions or thoughts
  - **Beliefs: caused by A**
  - **Consequences: negative emotions or behaviors**
- **Temporal course of symptoms**



## How to Assess?

---

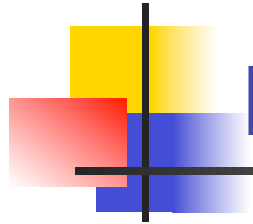
- **Interview (Multisource/Multimethod)**
  - Child, parent, teacher, significant others
- **Observations**
- **Testing**
  - Rating scales
  - Intelligence
  - Personality testing



# What to Target?

---

- **Identification of:**
  - **Underlying beliefs**
  - **Assumptions**
  - **Expectations**
  - **Goals**
  - **Attributions**
  - **Automatic thoughts**



## More Targets

---

- **Medical factors**
- **Environmental factors:**
  - **Stressful life events**
  - **Modeling**
  - **Reinforcement history**
- **Behavioral and interpersonal skill deficits**





## **Case Conceptualization:** (“You need a recipe for all the ingredients”)

---

- **Precedes goal determination, agenda setting, and use of techniques**
- **Requires hypothesis generation and testing**
- **Specifies the five elements noted above (behavioral, emotional, interpersonal, physiological and cognitive components)**
- **Functional Analysis of Behavior**



# Treatment Processes in CBT

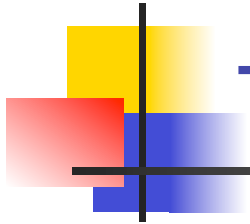
---

- **Collaborative empiricism**



- **Guided discovery**





## Tasks of a CBT Therapist

---

- **Because emotional events tend to have more impact, CBT attempts to engage the child emotionally**
- **Treatment sessions should be fun**
- **Treatment sessions should be real**
- **Transfer of skills from therapist to child**



## What Is Done in CBT?

---

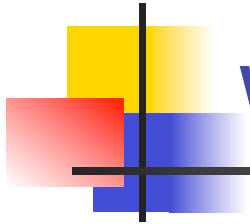
- **Child and parents are taught cognitive and behavioral interventions and the rationale for them**



## What Is Done in CBT?

---

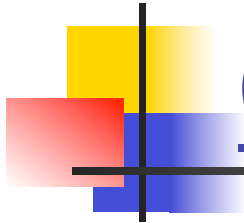
- **In-session practice**
- **Continual assessment of motivation and expectations**
- **Homework**



## What Is Done in CBT?

---

- **Identification of factors interfering with completion of homework or other techniques**
- **Evaluation of effectiveness (outcome assessment)**
- **Modification of intervention strategies as needed**



# Quiz

---

**Which of the following is characteristic of a CBT therapist?**

- 1. Diagnostician**
- 2. Consultant**
- 3. Educator**
- 4. Team member**
- 5. All of the above**

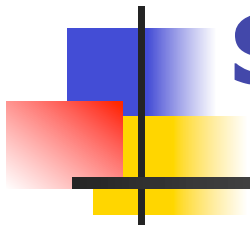


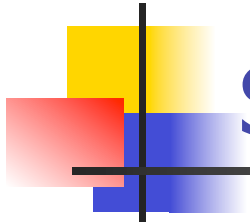
**Which of the following is *not* a characteristic of a CBT therapist?**

- 1. Active**
- 2. Problem-oriented**
- 3. Structured**
- 4. Flexible**
- 5. Creative**
- 6. None of the above**



# Structure Of A Typical CBT Session





# Session Structure

---

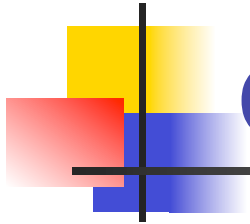
- **Assess:**
  - **Current mood**
  - **Symptom level**
  - **Symptom frequency and intensity**
- **Review recent issues and incidents**
- **Review homework**
- **Set agenda**



## Session Structure

---

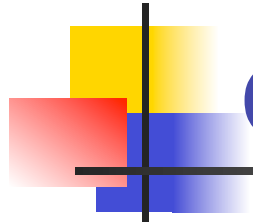
- **Implement techniques and strategies to accomplish goals from agenda**
- **Evaluate/assess understanding of techniques taught and motivation to implement them**
- **Assign homework task(s)**



## CBT Methods

---

- **Self-monitoring/recording**
- **Role play**
- **In session practice of new behaviors**
- **Modeling**



## CBT Methods

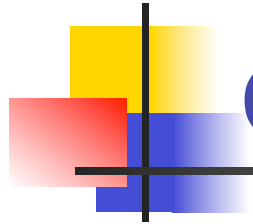
---

- **Self-evaluation**
- **Reinforcement by therapist and self**
- **Homework**



# **Cognitive Restructuring Methods**

- **What's the evidence? (Being a thought detective)**
- **Identify thinking errors**
  - **Over-generalization**
  - **Personalization**
  - **Magic thinking**
  - **Mind-reading**
  - **Magnification**
  - **Discounting the positive**



# Cognitive Restructuring

---

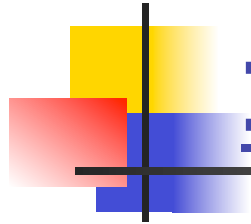
- **Challenge dysfunctional beliefs:**
  - What if....?
  - What would you tell a friend?
  - Playing attorney and judge
- **Generating healthier alternatives**
  - Belief Strength



## **Irrational Beliefs Of Adolescents**

- **It's my parent's fault I'm so miserable.**
- **The world should be fair and just.**
- **I must conform to my friends.**
- **I can't stand to be criticized.**
- **I'll always be the way I am.**
- **I can't help it.**





## **Irrational Beliefs Of Children**

- **Others must always like me.**
- **I'm bad if I make a mistake.**
- **I should always get what I want.**
- **Things should come easy to me.**
- **Adults should be perfect.**



# CBT and Clinical Conditions

---



# Depression

---

- Goal Setting
- Affective Education
- Mood Monitoring
- Cognitive Restructuring
- Problem-Solving
- Activity Scheduling (Behavioral Activation)
- Self-esteem building



# Bipolar Disorder

---

- Use all methods mentioned so far but include recognition warning signs and cycles
- Plan for handling behavioral excesses
- Plan for how family, child and others will respond to the illness when it erupts
- Expect long course of treatment with many positive changes and regressions



# Anxiety

---

- Exposure and Response Prevention
- Systematic Desensitization
- Relaxation
- Breathing
- Probability Estimation



# CBT Resources for Anxiety Problems

---

- Good program: Kendall's *Coping Cat*
- Good resource: Chorpita's Modular CBT for Child Anxiety Disorders, 2007
- For OCD: March and Mulle, OCD in Children and Adolescents and March and Benton, Talking Back to OCD, 2007



# Conduct Problems

---

## **Effective strategies:**

- **Attribution Re-training**
- **Anger management**
- **Structured Problem-Solving**
- **Cognitive Restructuring**
- **Response Cost/Contingency Management**
- **Behavioral Parent Training**



# Conduct Problems

---

## **Effective Programs:**

- **MST; effective for African-American youth**
- **Brief Strategic Family Therapy**  
(see Szapocznik, et.al., 2003)
- **Problem-Solving Skills Training**  
(see Kazdin, 2003)





# Oppositional Behavior

---

- **Effective Strategies:** *contingency management; DROB* (differential response for other behavior)
- **Effective Programs:** *Parent Management Training (PMT)* for pre-teens; *Problem-Solving Communication Skills Training* (see Robin) for adolescents



# Substance Use

---

- **Difficult to recommend one particular tx because of the diversity of substance abusing youth; broad-based, multi-component tx programs seem to work well, e.g., Multidimensional Family Therapy, MST**
- **Essential to include CBT with Motivational Enhancement and Staging**



# CBT & Ethnic Minorities

---

- Research still sparse but building
- Key points:
  - **CBT works (insight-oriented txs don't work as well)**
  - **Better response if tx is highly structured, time-limited, pragmatic and goal-oriented;**
  - **Using culturally-responsive strategies doesn't always lead to better results; ambiguity in research results**
  - **Adding too many intuitively appealing culturally responsive strategies, may alter characteristics of CBT to point it is no longer model adherent**
  - **Recommendation: Implement CBT as designed and add more culturally-sensitive strategies as suitable**



## CBT Works Best If:

---

- **Fidelity and outcome measurement are used**
- **Clinical judgment is used (not just blind adherence to a manual)**
- **Cultural factors are considered**
- **Limitations of the techniques are appreciated**
- **New therapists are supervised**
- **A working alliance based on trust is developed early**