Anxiety

Fear Lives in the Hearts of Men and Women and Danger is a Universal Human Experience



Anxiety: A Universal Concern



Why So Little Interest from Behavior Analysts?

Imprecise term
Metaphorical
Categorical error



Imprecise Term

- Difficult to Define
 - Freud (1917)
 - Sidman (1964)
 - Levitt (1967)
 - McNaughton (1989)
 - Barlow (2002)
 - Friman (2007)



A Behavior Analytic Definition

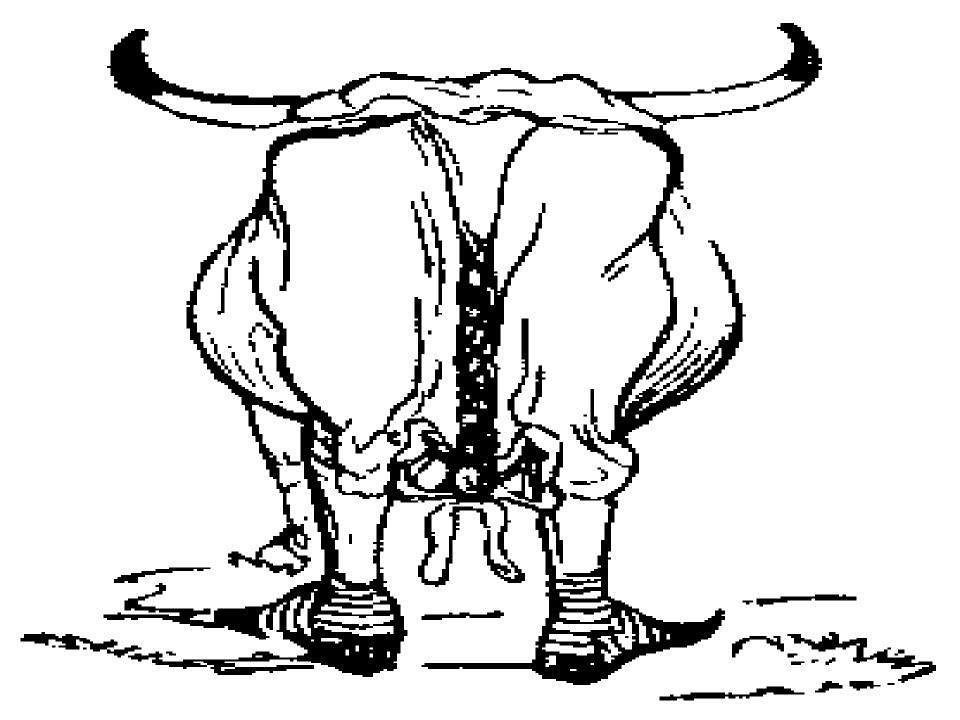
 Negatively reinforced behavior emitted in the presence of events that evoke or elicit the biology of stress or fear but that pose minimal risk of harm.



My definition

Fear of stuff that is really unlikely to hurt you.





Metaphorical Basis







Categorical Errors



Anxiety as "Category"

- Specific
 - Conditioned suppression
 - Conditioned activation
- General
 - Mental
 - Physiological
 - motoric

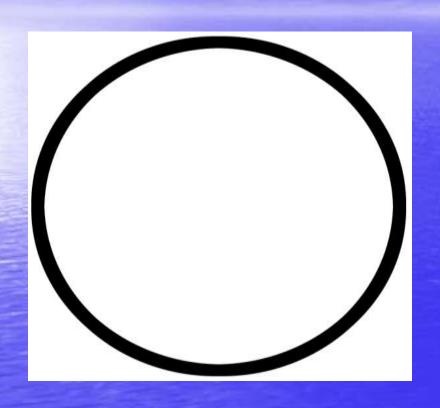


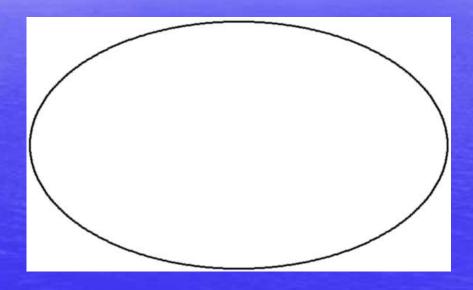
Some Common Occasions for Anxiety

- 1. Impossibility of escape
- 2. Anticipation of punishment
- 3. Separation from support



Pavlov's Contribution





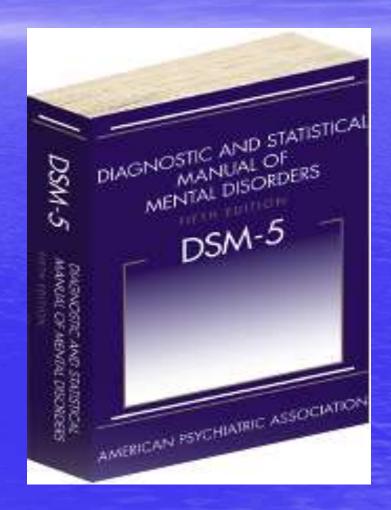
Signs of Clinical Anxiety

- Impairment
 - Excessive:
 - Avoidance
 - Emotion
 - Catastrophizing
 - Need for control
- Unresponsive to reason
- High frequency



Select Anxiety Disorders

- Separation-Anxiety Disorder
- Specific Phobia
- Social Phobia
- Panic Disorder
- Agoraphobia
- Generalized Anxiety Disorder
- Obsessive-Compulsive Disorder
- Post-Traumatic Stress
 Disorder



Downside of Avoidance

- 1. Reinforces notions of danger
- 2. Generalizes
- 3. Shrinks life



Fear and Non-fear Based Avoidance

- Avoidance is the cardinal behavioral component of anxiety
- Avoidance is a cardinal behavioral component of ASD
- Not all avoidance is fear based



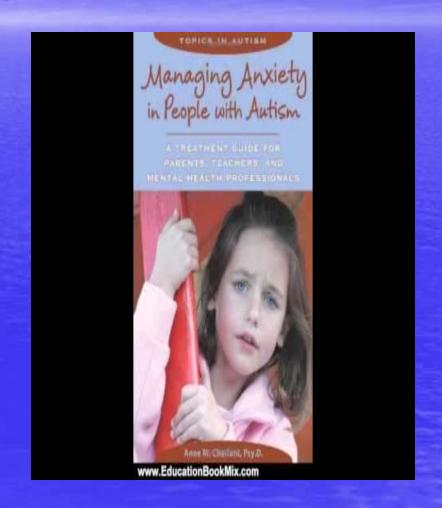
The Threat-based Stress Response

- Prepares body for action
- Bodily
 - Release stress hormones
 - Obtain fuel
 - Metabolize
 - Distribute



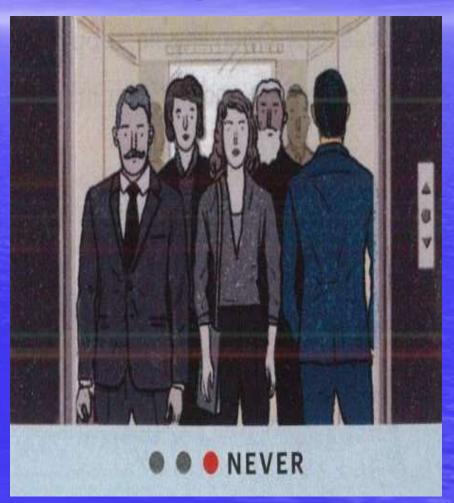
Prevalence of Anxiety in the ASD Population

- Prevalence 40%
- Overlap Between ASD and Anxiety



Developmental Implications of ASD and Anxiety

- Secure attachment
- Interactive play
- Learning interpersonal boundaries
- Learning formal social roles and rules



Signs of Anxiety in Social Interactions

- Bossiness
- Scripting
- Frustration at shifts in play
- Interrupting the play of others
- Avoiding play altogether



Signs of Anxiety in the Play of Young ASD Children

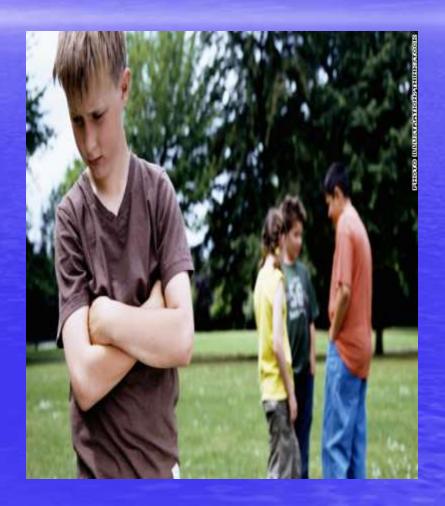
Excessive:

- ordering
- movement of objects
- body movements
- echolalia
- emotional reactions



Signs of Anxiety in Elementary School Aged ASD Children

- Excessive
 - Need for control
 - Correcting, bargaining, arguing, taking over play
 - Social avoidance
 - Emotional reactions



Signs of Anxiety in ASD Adolescents

- Social confusion
- Low distress tolerance
- Dependence on adults
- Excessive emotional reactions



Parent and Caretaker Anxiety

- Helicoptering
- Cocooning
- Low distress tolerance



Unintentional Danger/Anxiety Signals

- Questioning
- Checking
- Overprotection
- Reduced independence
- Enabling avoidance
- Attention to fear



Dilemmas for Parents and Caregivers

- Encourage
 participation,
 exposure, and
 bravery or...
- Allow avoidance or withdrawal



Dilemmas for Professionals

- Encourage
 participation,
 exposure, and
 bravery or...
- Allow avoidance or withdrawal



Strategies for Parents and Caregivers

- 1. Praise and attend to brave behavior; ignore more non brave behavior
- 2. Model brave behavior and use role reversal
- 3. Allocate responsibility; encourage independence; allow mistakes
- 4. Emotional coaching

- 5. Set reachable goals and use proportional rewards
- 6. Create opportunities for change
- 7. Schedule worry time
- 8. Incorporate intense or unusual interests
- 9. Exposure, extinction, desensitization

Strategies for Professionals

- Medication
- Behavioral treatment



Medication

- Three primary types
 - Benzodiazepines
 - Antidepressants
 - Beta blockers



Behavioral Treatment

Health education
Externalization
Relaxation
Irrational thinking
Escape extinction
Incentives



Health Education

What is anxiety?



Externalization

- To name it is to tame it
- Give it a name
 - Goofy
 - Disparaging
 - Insulting
 - Sarcastic



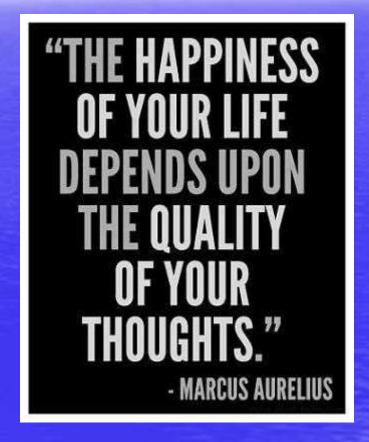
Relaxation

- 4 X 4 X 4 X4
- Progressive muscle relaxation
- Focused breathing
- Meditative practices
- Mindfulness



Target Irrational Thinking

- All or nothing
- Magical thinking
- Filtering
- Overgeneralization
- Magnification
- Emotional reasoning



Incentives

Grab bag Dot to dot **Points Privileges Praise** Etc.



Exposure Based Treatments

- Escape extinction
- Exposure and response prevention
- Systematic desensitization
- Behavioral and emotional inoculation





Exposure Treatment

Real Life Examples































Effective Treatment

Actual Examples

Obsessive Compulsive Disorder and Tourette's Syndrome

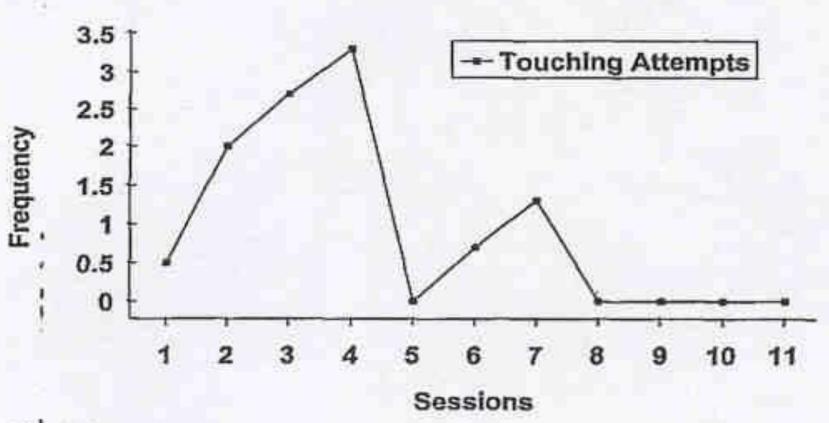


Fig. 1 Touching attempts across clinic sessions.

Ditto

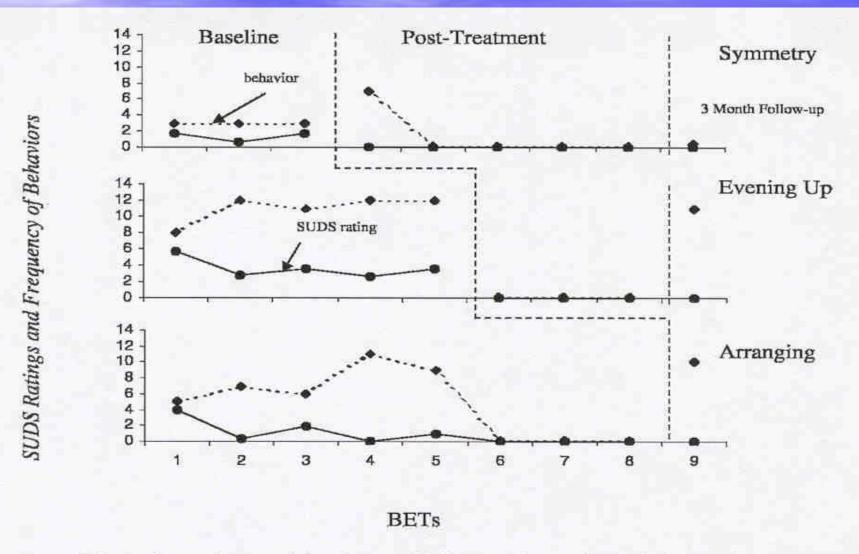


Figure 1. Discomfort ratings and frequency of behaviors during home behavioral exposure tests.



Clinical Description

- Above average IQ
- Suspicious of adults
- Socially anxious
- Pervasive fear of public failure
- Uncomfortable with attention
- Controlling; manipulative





Social Phobia and Conduct Disorder

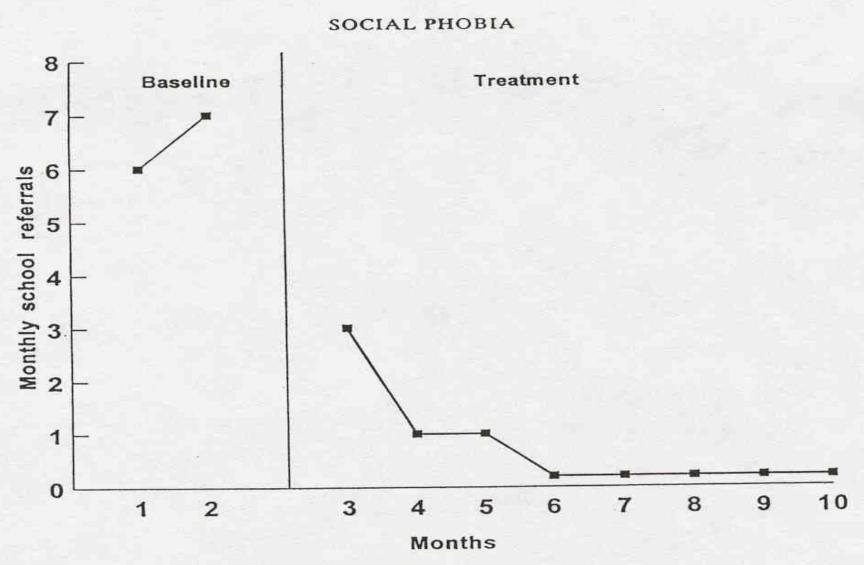
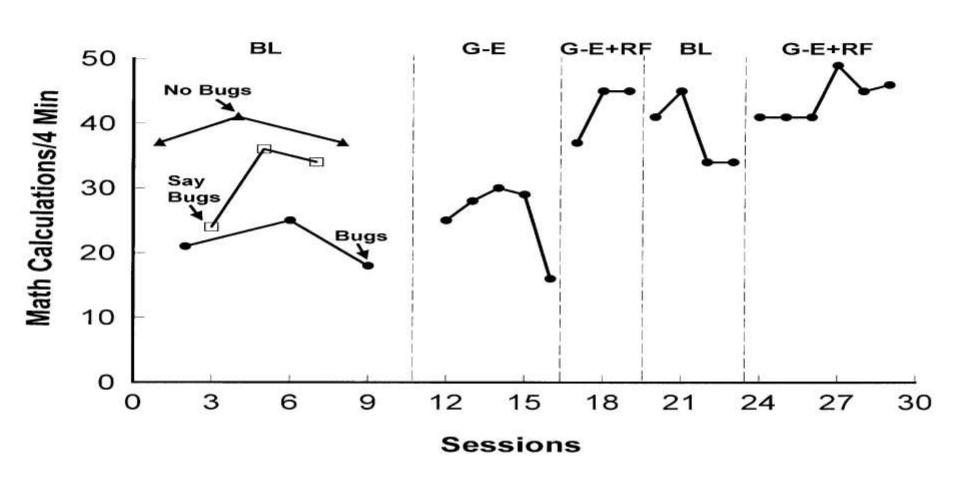


Figure 1. Monthly school referrals before and after treatment.

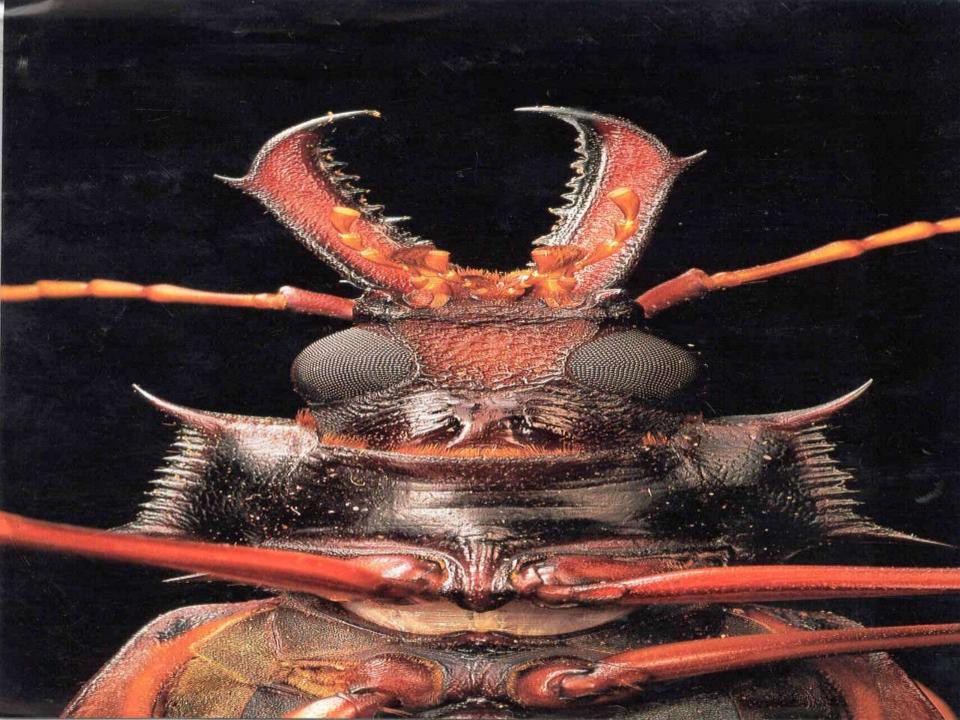
Insect Phobia









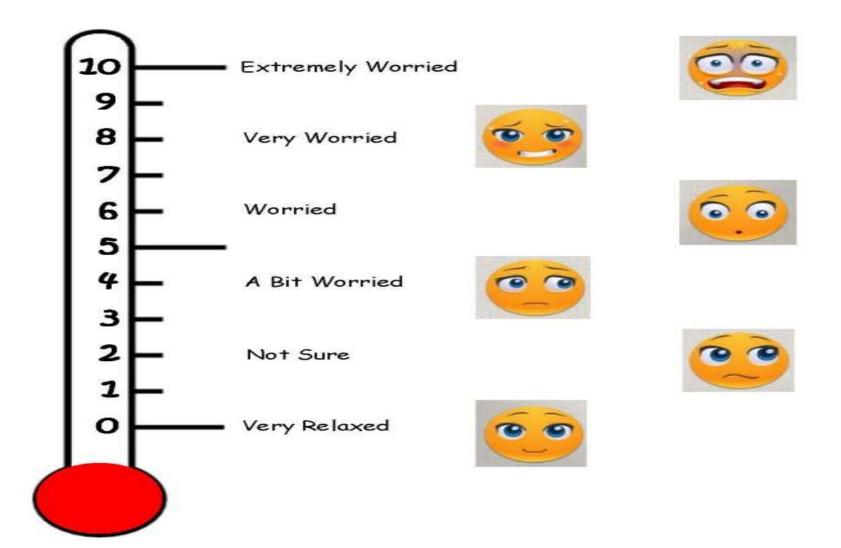


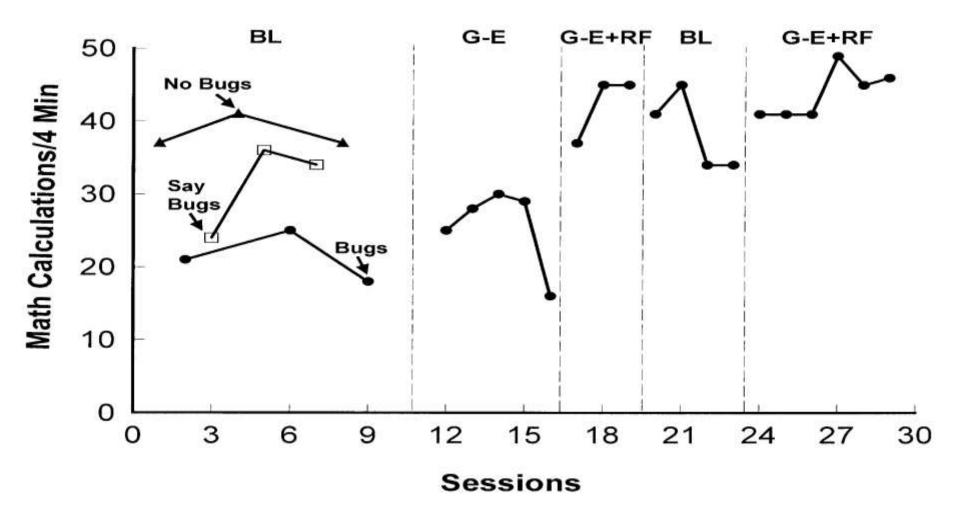
Initial Graduated Exposure Steps

- Holding jar with crickets
- Touching cricket with foot
- Close eyes for 60 sec
 in room with crickets
- Pick up cricket with tissue
- Pick up cricket with gloved hand

- Hold a cricket for 20 sec with bare hand
- Allow cricket to crawl on pants leg
- Allow cricket to crawl on bare arm
- Hold cricket in each hand for 20 sec

The Worry Scale





Typical Treatment

- Demystify
- Change parenting/caregiving
- Name it
- Exposure steps
- Incentives
- Relaxation
- Breathing skills
- Sell it

