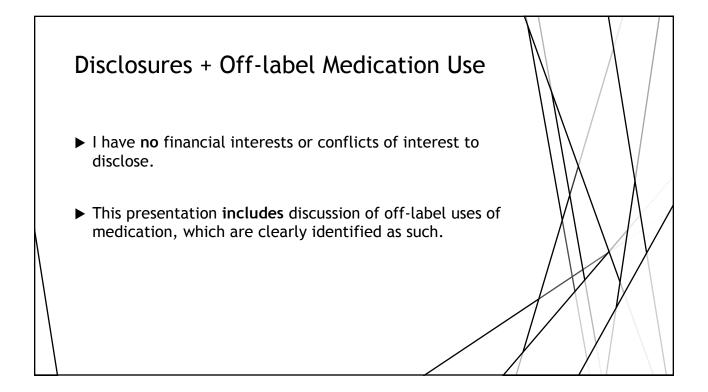
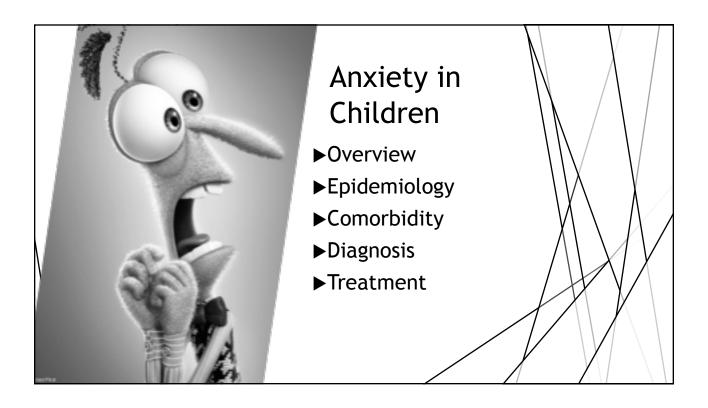
EVALUATION AND MANAGEMENT OF ANXIETY IN CHILDREN Amanda Schroepfer O'Kelly, MD September 2018





Anxiety: Overview Common (and commonly missed!) in children Often with inhibited temperament Withdrawal from novelty, Slow to warm up, Close to attachment figure, Limited eye contact Internalizing disorders Overcontrolled, Overinhibited Usually not causing problems for anyone else

▶ Vs. ADHD, Disruptive Behavior Disorders

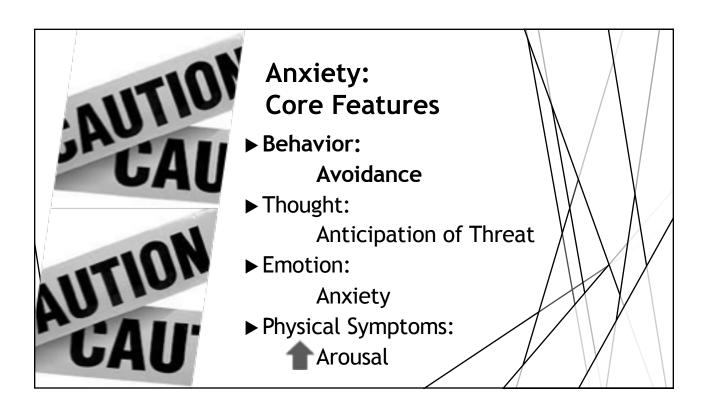
Anxiety: Overview

DSM-5 Anxiety Disorders

- ► Separation Anxiety disorder
- ► Selective Mutism
- ► Generalized Anxiety disorder
- ► Social Phobia
- ► Specific Phobias
- ► Panic disorder
- ► Agoraphobia

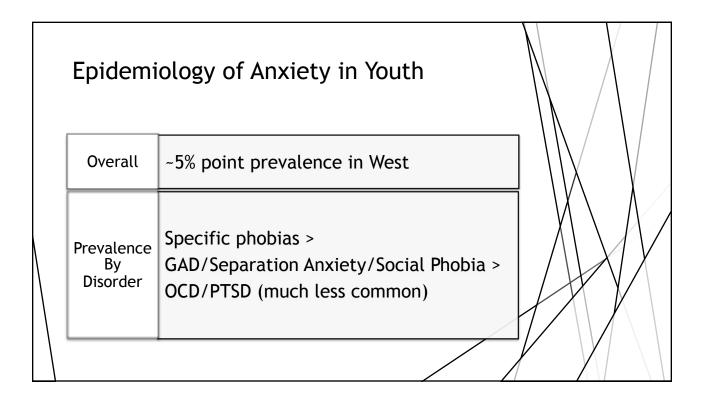
Related Issues

- ► School Refusal
 - ► Anxiety may be underlying cause
- ► Obsessive-Compulsive disorders (OCD)
- ► Traumatic and Stress-Related disorders (PTSD)



Anxiety: Core Features

- ▶ Behavior: Avoidance
 - ▶ Hesitancy, Uncertainty, Withdrawal, Rituals
- ▶ Thought: Anticipation of Threat
 - ► Worry, Rumination, Negative Thoughts, Anxious Anticipation
- ► Emotion: Anxiety, Fear, Distress, Shyness
- ► Physical Sxs: Headache, Stomachache, N/V, Muscle Tension, Difficulty Sleeping

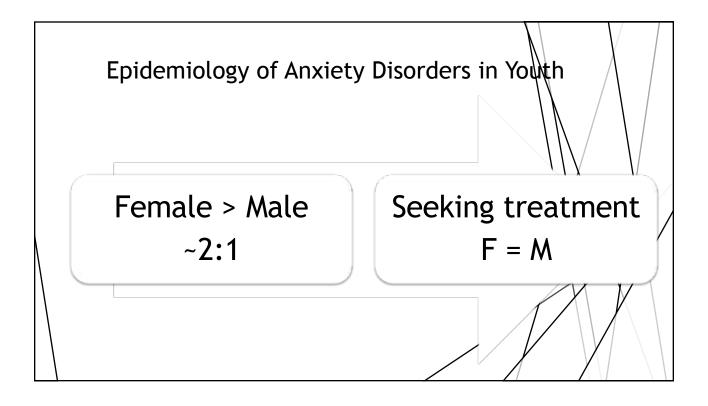


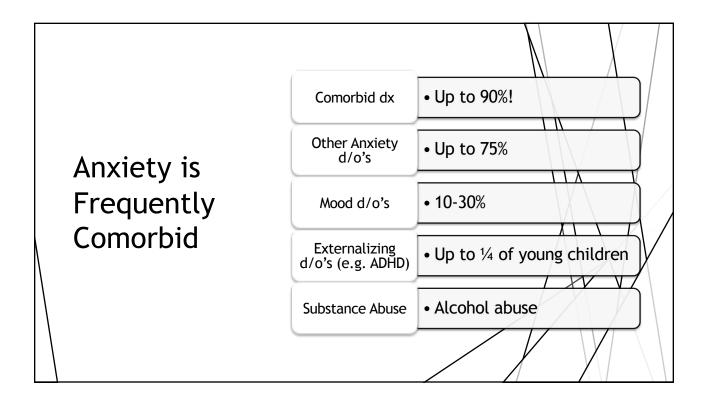
Epidemiology of Anxiety in Youth

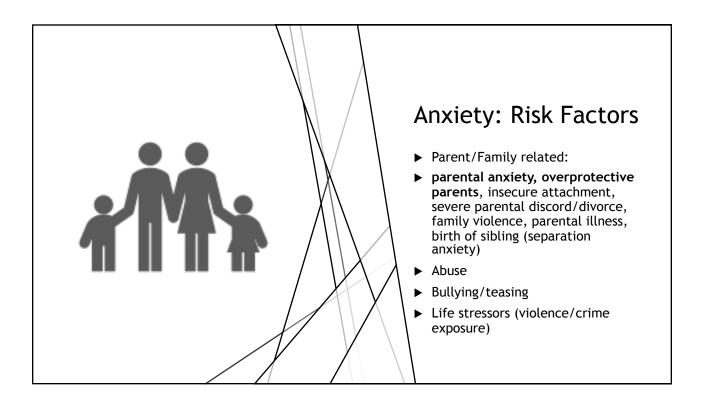
- ► Age of Onset (average)
 - ► Specific Phobias: 6-7y
 - ► Separation Anxiety disorder: 7-8y
 - ► Social Anxiety disorder: Preteen/Early Adolescence
 - ► GAD: Mid-adolescence
 - ▶ Panic/Agoraphobia: Early Adulthood

Epidemiology

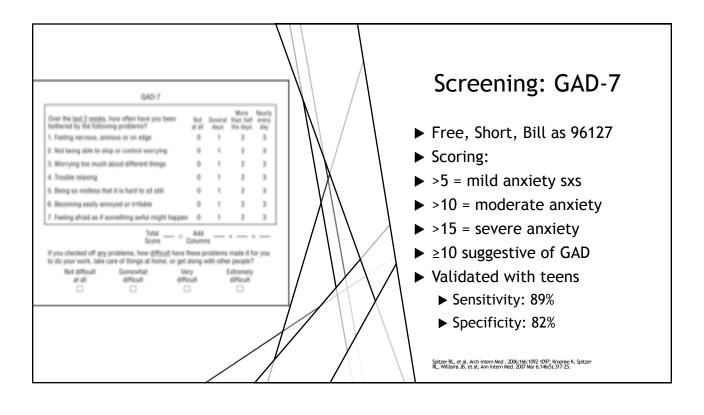
- ▶ Course
 - **▶** Persistent
 - At risk for additional comorbid anxiety, mood, externalizing (in youth)
 - ► Increased risk of anxiety, mood, substance use disorders, suicide (in adulthood)
- ▶ Heritability
 - ▶ ~40% genetic

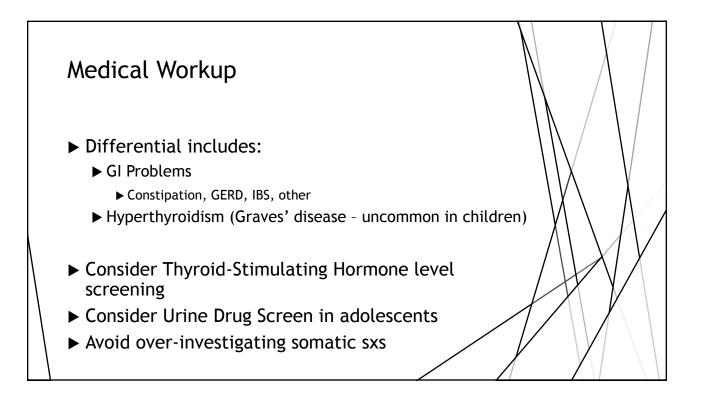


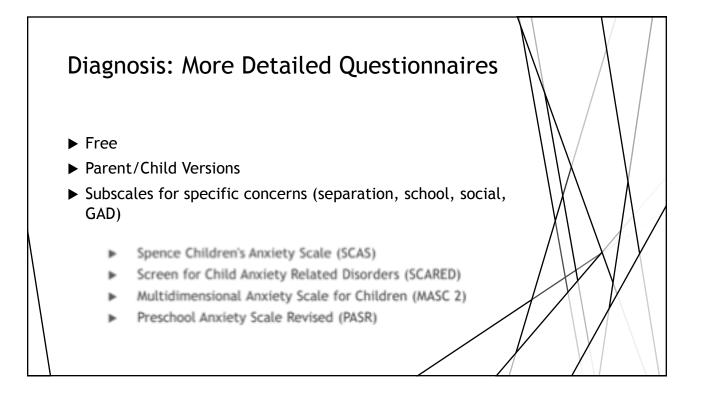


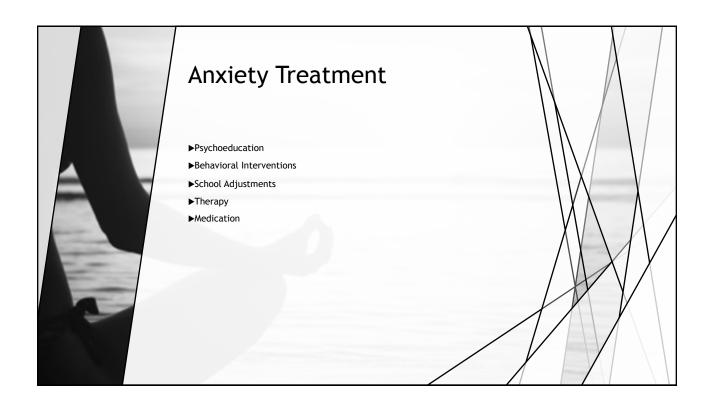


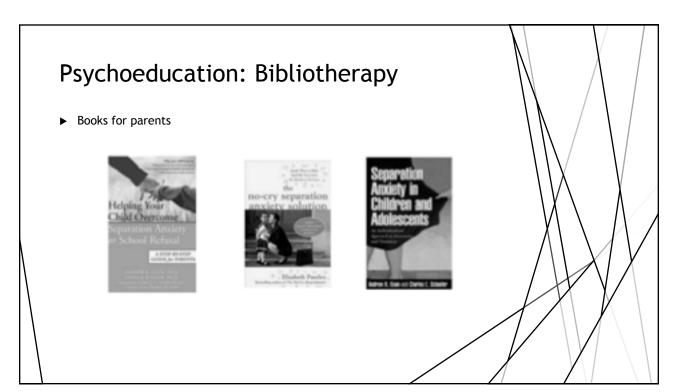
















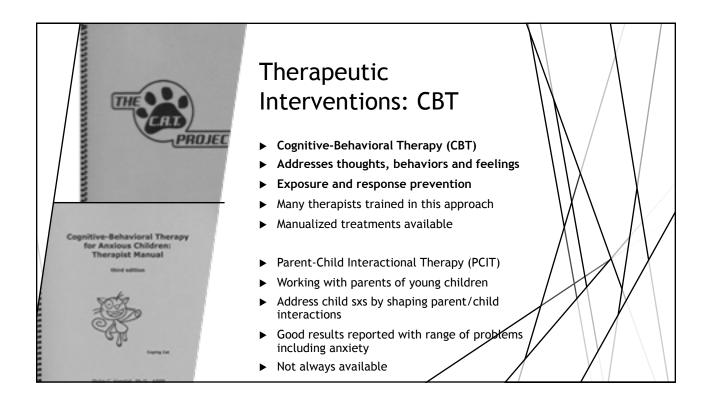
Behavioral Interventions for Anxiety

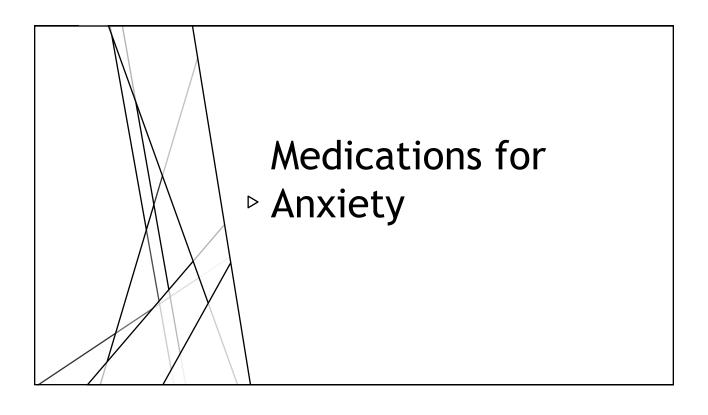
- ► Ensuring adequate sleep
 - ► Sleep Hygiene, CBT for insomnia (CBT-i), Melatonin, Magnesium, other sleep aides
- ▶ Balanced Diet
 - ► Avoiding Caffeine
- Address self-medication and herbal supplement use
 - ► Alcohol, Marijuana
 - ► Kava*, St John's Wort
 - Valerian, Passionflower, Chamomile, Lavender, Lemon Balm
- ► Mindfulness and Meditation
- ▶ Exercise

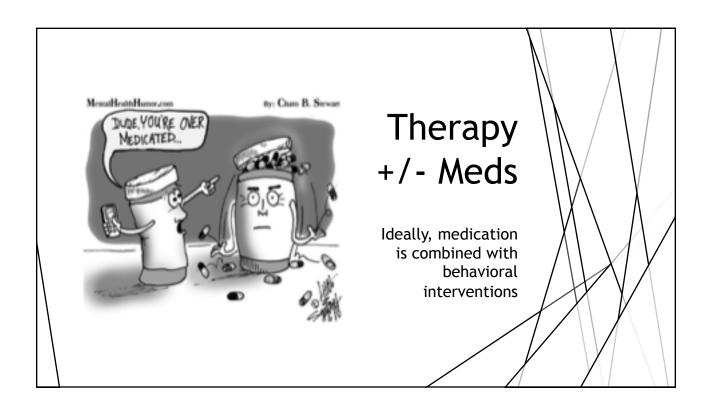
Therapeutic Interventions

- ► Skill-Building:
 - **▶** Psychoeducation
 - ► Relaxation
 - ▶ Exposure
 - ► Contingency management
 - ▶ Parent training
 - ► Cognitive restructuring
 - ► Social skills and assertiveness training

able F.1.2	e F.1.2 Sessions and components of the Cool Kids program.		
Session	Coverage - Child	Coverage - Parents	
1	Psychoeducation	Psychoeducation and treatment rationale	
2	Cognitive restructuring	Cognitive restructuring for both parent and child	
3	Cognitive restructuring practice	Cognitive restructuring practice Child management skills	
4	In vivo exposure and development of hierarchies	In vivo exposure and development of hierarchies	
5	Dealing with difficulties in exposure	Dealing with difficulties in exposure	
6	Practice exposure and cognitive restructuring	Practice exposure, cognitive restructuring and chili management	
7	Introduce assertiveness and social skills	Ways to increase assertiveness and social skills	
8	Teasing and bullying	Teasing and bullying	
9	Practice and review	Practice and review	
10	Practice, review and relapse prevention	Practice, review and relapse prevention	







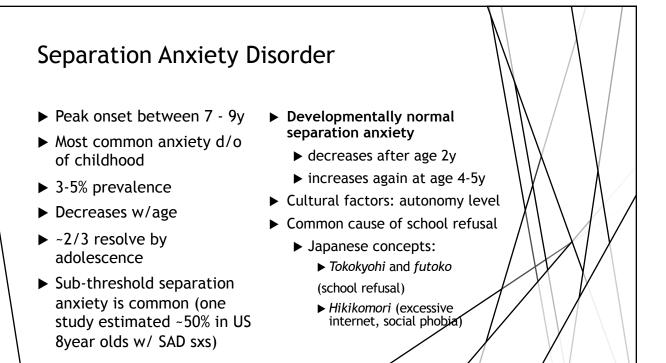
Medication Considerations

- ▶ Medications for Anxiety in Children are Mostly Off-Label
 - ▶ FDA approval only for OCD, depression in youth
 - ▶ Many approved for adult anxiety and depression
- ► There is good evidence for efficacy of some SSRIs for other anxiety disorders in children
- ► Recommend monitoring closely (weekly/biweekly initially)
- Boxed warning for suicidality applies to all antidepressant medications used in young people
- ▶ Monitor response using an appropriate rating scale
- Switch to another SSRI if no improvement

Bridge et al (2007) JAMA

First-line Medications: SSRIs Table F.2.2 US Food and Drug Administration approved SSRIs for children and adolescents SSRI Indication Patient's age Escitalopram Depression 12-17 Fluoxetine Depression 8-17 Fluoxetine OCD 7-17 OCD Fluvoxamine 8-17 OCD Sertraline 6-17

Medication	Possible indication	Comments
SNRis: (e.g., veniafaxine duloxetine)	 Refractory to SSRIs and CBT 	No compelling evidence of effectiveness in anxiety disorders More side effects than SSRIs
TCAs: (e.g., imipramine, clomipramine)	 Refractory to SSRIs and CBT 	 More side effects than SSRIs Requires baseline and periodic ECG monitoring Potentially lethal in overdose
Benzodiazepines: (e.g., clonazempam, clorazepate)	 Short term treatment of acute anxiety (rapid solution needed) 	Potential abuse and dependence Risk of paradoxical reaction in children
Buspirone	 Refractory to SSRIs and CBT 	 Effectiveness not demonstrated in children
Propranolol	 Intense autonomic response 	 Should not be used by asthmatics or with antihypertensive agents
Clonidine	 Intense autonomic response Comorbid PTSD or acute stress reactions 	More side effects than SSRIs Potentially lethal in overdose Requires baseline and periodic ECG and blood pressure monitoring
Antihistamines	Insomnia	 Can provoke somnolence, increased appetite
Melatonin	 Insomnia 	 Unknown long term side effects



Separation Anxiety Disorder

- ► Excessive distress or fear before or during separation from attachment figures
 - **▶** FEARS or WORRIES
 - ▶About something happening to parent or child
 - ▶ AVOIDANCE or attempts to prevent separation
 - **▶ BEHAVIORS or SOMATIC SXS**
 - ▶Crying, Clinging, Calling, Complaining
 - ►HA, Stomachache, N/V, Dizziness, Sleep problems Muscle aches

Persistent, recurrent and excessive anxiety in a child lasting > one month, with 3 of 8: Separation ▶ Distress w/separation Worry about losing/harm to attachment Anxiety: figures ▶ Worry about getting lost/kidnapped DSM-5 School/work refusal Criteria ► Anxiety alone or away from caregivers ► Anxiety sleeping away from caregivers Nightmares about separation Physical complaints

Separation Anxiety: Common Triggers



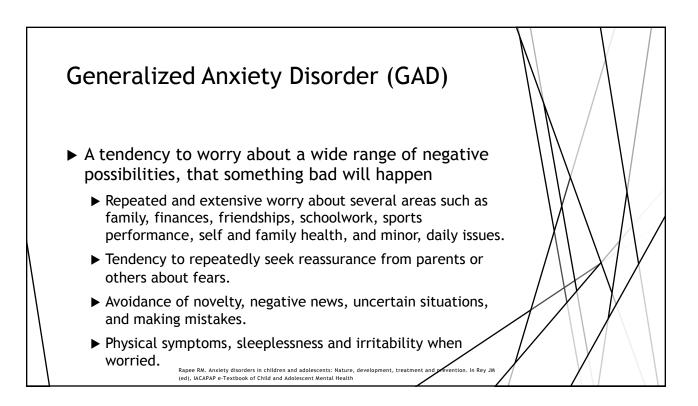
- ▶ Day care/school
- ▶ Bus to school
- ▶ Bedtime
- ▶ Babysitter
- ▶ Camp
- Moving
- ▶ Sleepovers
- ▶ Parents divorce
- Bullying
- ▶ Illness

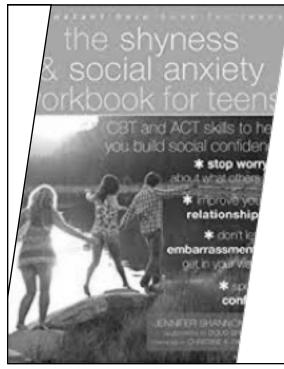
Behavior Interventions for Separation Anxiety

- ► Listen empathically
- ► Model calm
- ► Teach relaxation
- ▶ Plan transitions
- ▶ List strategies
- ► Remind of past success
- Encourage activities without parent
- ► Reframe somatic symptoms

- ▶ Praise effort
- ▶ Discourage avoidance
- ► Return to school ASAP!
- ► Frequent meetings
- ► Supervised daily arrival
- ► Attachment figure allowed at school (initially)
- Slowly increase time at school
- ▶ Identify safe place







Social Phobia

- Fear and avoidance of social interactions or social performance due to a belief that others will negatively evaluate the child
- Avoidance of a range of social activities of situations including, speaking or performing in front of others, meeting new children, talking to authority figures such as teachers, being the center of attention, and fears of dating
- Worries about negative evaluation from others including that others will think they are unattractive, stupid, unpleasant, overly confident, or odd
- A limited number of friends and difficulty making new friends
- ► High levels of self-consciousness or selffocused attention

apee RM. Arxiety disorders in children and adolescents: Nature, evelopment, treatment and pre-ention. In Rey JM (ed), IACAPAP e

Specific Phobias

- ► Fear and avoidance in response to a range of specific cues, situations, or objects. Belief that the object or situation will lead to personal harm.
- ► Common fears in children include
 - ▶ Animals (e.g. dogs or birds), Insects or spiders
 - ► The dark
 - ► Loud noises, especially storms
 - ▶ Clowns, masks, or unusual-looking people
 - ▶ Blood, illness, injections

Rapee RM. Anxiety disorders in children and adolescents: Nature, development, treatment and prevention. In Rey JM (ed), IACAPAP e-Textbook of Child and Adolescent Mental Health.

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