ADHD and Anxiety

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Disclosures

Nothing to disclose

Learning Objectives

- 1. Discuss the differential diagnosis of ADHD and anxiety disorders.
- 2. Discuss the overlapping features of ADHD and anxiety disorders.
- 3. Discuss the approaches to treatment when the disorders exist separately.
- A. Discuss the approaches to treatment when the disorders co-exist.

ADHD and ANXIETY

- Differential Diagnosis Either/Or
 - > What is ADHD?
 - What is Anxiety Disorder?
 - > Internalizing vs. Externalizing
 - > The importance of Differentiation
- Comorbidity Both/And
 - > Prevalence
 - Appearance
 - > Treatment Implications
 - > Treatment Strategies
 - When ADHD is Primary
 - When Anxiety is Primary or Undetermined

Either/Or

ADHD and Anxiety – Distinguishing Features

BACK TO BASICS ADHD

- ADHD is characterized by inattention and/or hyperactivity and impulsivity
 - to a degree that is inconsistent with typical developmental levels
 - that has a negative impact on social, occupational, or academic activities.
 - Onset prior to age 12 years
- ADHD occurs in about 5% of children and about 2.5% of adults worldwide
- > Children: Males>Females 2:1
- > Adults: Males>Females 1.6:1

BACK TO BASICS

Anxiety Disorders

- > Official list includes:
 - Separation Anxiety disorder
 - Selective Mutism
 - Specific Phobia
 - Social Anxiety Disorder
 - Panic Disorder
 - Agoraphobia
 - Generalized Anxiety disorder
- These are arranged according to typical age of onset
- Could also include OCD and PTSD

BACK TO BASICS

Anxiety Disorders

- Can have onset from childhood onwards
- Differ from developmentally typical fear or anxiety – excessive or persistent beyond developmental norms
- Anxiety disorders occur in about 25% of 13 18 year-olds, 5.9% rated "severe"
- Lifetime prevalence is 15%, females> males, 2:1 for many disorders

DIAGNOSTIC CONSIDERATIONS

- Hyperactivity, impulsivity, and inattention can all be symptoms of anxiety as well as ADHD, especially in children
- More difficult for children to identify and label anxiety
- Children may have the same disorders as adults but, in general, children need fewer symptoms and shorter duration of symptoms to meet diagnostic criteria

DISTINGUISHING FEATURES

Childhood

- Children with anxiety disorders may:
 - Report somatic complaints such as headaches, stomachaches
 - Tend to be perfectionistic
 - Be unusually clingy
 - Have irrational worries and fears, especially about parental safety, wellbeing
 - Have difficulty sleeping alone
 - Have avoidant behavior such as school refusal, can't sleepover
 - Have frequent nightmares

DISTINGUISHING FEATURES

Adults and Adolescents

- Adults and adolescents with anxiety disorders may be more likely to have
 - panic attacks
 - specific phobias
 - social phobia
 - Agoraphobia
- > Be better able to describe subjective sense of anxiety

THE GREAT DIVIDE

"Internalizing vs. Externalizing"

- > Traditionally, ADHD has been viewed as in "externalizing" disorder
 - Behavioral symptoms tend to be directed outward
 - Distractibility and lack of focus primarily due to outside distractions
- Anxiety disorders are usually viewed as "internalizing"
 - The behavioral symptoms of worry and fear are directed inward
 - Distractibility and lack of focus primarily due to internal preoccupations, not external stimuli

HELPFUL – BUT NOT INFALLIBLE

- Internalizing and externalizing symptoms are not always mutually exclusive
- Some disorders, such as OCD, may have both
 - Obsessive ruminations = internalizing
 - Compulsive behaviors can be externalizing
- Externalizing behaviors may be a manifestation of anxiety or depression, such as ODD

WHY IS THE DISTINCTION IMPORTANT?

> Causation differs

- Both may have a hereditary component
- ADHD probably neurodevelopmental
- Anxiety may be associated with maltreatment, stress, adverse life events that require specific intervention

> Treatments differ

- Stimulants can make anxiety worse
- SSRI's can make impulsivity worse
- EFS training may help ADHD but not anxiety
- Psychotherapy may help anxiety but not ADHD

Both/And

ADHD and Anxiety - Comorbidity

HOW OFTEN?

- There is a 33% prevalence of anxiety disorders in children with ADHD (Multimodal Treatment Study of ADHD, J. Biederman)
- The prevalence increases in adulthood to 40% (M) and 50%
 (F)
- People with ADHD are more likely to have an anxiety disorder than non-ADHD controls

MHAT DOES IT

- One very common presentation is the adult with ADHD who is constantly worried about how her ADHD is impacting her life.
 The worry then causes worsening ADHD symptoms, creating a vicious cycle.
- An 8 yo girl with an anxious mother and a father with ADHD has separation anxiety, perfectionism, and "meltdowns" when she loses a toy. She is verbally impulsive, easily distracted and easily bored.

MHAT DOES IT

- People with ADHD and anxiety may be more likely to suffer from Sluggish Cognitive Tempo.
- Children with ADHD and anxiety may be less impulsive
- But ADHD is also an emotional processing disorder;
 overwhelming affects can be more difficult to self-regulate "meltdowns."

MHAT DOES IT

- Children with ADHD may be more vulnerable to bullying, leading to anxiety
- Often difficult to determine which is primary.
- > Sometimes seem to be parallel

TREATMENT IMPLICATIONS

Primary ADHD

- > In some studies, people with lifelong comorbid anxiety and ADHD did not respond as well to stimulants as those with ADHD alone.
- > But those with secondary anxiety (like the adult example) respond just as well to stimulant medication and that can relieve the anxiety symptoms.
- > Study findings are inconsistent and experts agree that we need better rating scales, more clarity about symptoms and better outcome definition.
- Most of the comorbidity studies did not attempt to determine which was primary

TREATMENT STRATEGIES

Primary ADHD

- Starts with careful diagnostic assessment, trying to determine which disorder is primary if possible
- If evidence points to ADHD as primary, a methylphenidate trial is a good starting point

Why methylphenidate?

Most of the research studies on treatment of comorbid anxiety/ADHD use methylphenidate (MPH)

TREATMENT STRATEGIES

Primary ADHD

> Mhy WbHs

- Anecdotal experience suggests that MPH may be less likely to exacerbate anxiety symptoms.
- Dextroamphetamine (AMP)releases dopamine into the synapse
- MPH blocks reuptake of dopamine.
- Patients often describe AMP compounds as being more effective but also having more side effects.

TREATMENT STRATEGIES

Primary ADHD

- > Why MPH (cont'd)?
 - Clinician familiarity and comfort is often the determining factor
 - Clinical efficacy of MPH and AMP is similar
 - > 36% respond preferentially to AMP
 - > 26% respond preferentially to MPH
 - > 10% nonresponders
 - 54 64% will respond equally well to either medication
 - Monitor carefully and be prepared to switch.
- In adults, long-acting forms are usually preferred to start
- In young children, short acting forms may be better to start

TREATMENT

- Data for treatment of comorbid anxiety and ADHD in adults is very poor, anecdotal
- In children, ADHD symptoms may reduce the benefit of psychosocial treatments if not adequately controlled
- > Don't forget other modalities:
 - EFS training,
 - Exercise (soccer, basketball, tae kwon do)
 - Omega-3's
 - Family support,
 - School interventions (504 plans)

TREATMENT OF ANXIETY IN CHILDREN

- The anxiety disorders are by far the most common mental health problems in childhood.
- > They may cause significant academic, social, and family dysfunction.
- > They can "morph" into other anxiety disorders in adulthood.
- They can be considered "gateway disorders," substantially increasing the risk of a range of mental health issues in adulthood including depression, substance abuse, and suicide.

TREATMENT OF ANXIETY IN CHILDREN

- Psychotherapy is usually essential and often a good starting point. A three-month trial of therapy off medication can help determine whether medication will be needed at all and is especially useful when the child or parent is anxious about a medication trial.
- CBT is the most evidence-based psychotherapy for anxiety but is not appropriate for every child.
 Success is highly dependent on the skill of the practitioner.

TREATMENT OF ANXIETY IN CHILDREN

- Other forms of psychotherapy can be helpful including social skills training groups and family therapy, especially if the child's anxiety has taken over the family.
- There are still some psychotherapy dinosaurs around (play therapy, psychodynamic therapy). They are difficult to study but can still be helpful.

TREATMENT OF ANXIETY IN CHILDREN

- For younger children, working with the parents and the school on finding ways to support the child and remove unnecessary stressors are treatment essentials.
- > Teaching the child and the family that anxiety doesn't have to be catastrophic, can be managed and can even be a stimulus for growth is helpful. You can be the "non-anxious presence" and teach them not to be anxious about their anxiety.

TREATMENT OF ANXIETY IN CHILDREN

- Pharmacologic treatment relies heavily on antidepressants, especially SSRIs
 - Fluoxetine (7+, 8+)
 - Sertraline (6+)
 - Fluvoxamine (8+)
 - Duloxetine (8+)
 - Escitalopram (12+)
- Bupropion (NDRI) is not a first line treatment for anxiety but may be helpful along with stimulants for ADHD
- > Black box warning

TREATMENT OF ANXIETY IN CHILDREN

- Hydroxyzine and diphenhydramine have been used for decades to treat anxiety in children; best for very short term use or for sleep
- Buspirone has not been studied extensively in children – off label
- Benzodiazepines should be avoided unless the symptoms are unusually severe, disabling, and/or unresponsive to other treatments.
- › Guanfacine, clonidine, beta blockers have also been used.

TREATMENT STRATEGY

Primary Anxiety or Undetermined

- The child or adult with comorbid anxiety and ADHD may be a good candidate for an atomoxetine trial (Strattera)
- Atomoxetine (ATX) has been shown to be more effective at reducing anxiety than MPH after 4 weeks of treatment
- ATX was shown to be equally effective as MPH at reducing ADHD symptoms after 8 weeks in the same study
- Other studies show that it is superior to placebo but not as good as MPH at reducing ADHD symptoms.

TREATMENT STRATEGY

Primary Anxiety or Undetermined

- MPH may be added to ATX if needed to more effectively manage ADHD symptoms.
- Patients who have never been treated with a stimulant may be more likely to respond favorably to ATX
- ATX may also be combined with fluoxetine to treat comorbid ADHD with anxiety or depression
- › Be aware of serotonin syndrome when combining SNRI with SSRI

SUMMARY

- Research on comorbid ADHD and anxiety is still in its infancy for children and is almost nonexistent for adults.
- A careful diagnostic evaluation is required due to overlapping symptoms and the possibility of a primary and secondary condition.
- Accurate diagnosis has treatment implications.
- Combined pharmacological treatment is often necessary along with psychosocial modalities.