Differential Diagnosis of Complex Adult-Patients with ADHD

Dr. Taher Shaltout Senior Consultant, Psychiatrist Hamad Medical Corporation

Adults with ADHD

- What is ADHD?
- How do you diagnose it in adults ?
- How do you treat with medication?
- What other treatments help?
- What is the impact of comorbid conditions?
- How do you deal with treatment-refractory ADHD?

What is ADHD?

A syndrome in which symptoms of inattention, of hyperactivity/impulsivity, or both, significantly interfere with the capacity to work or to love, or both.



Criterion A:

At least 6 of 9 symptoms of inattention, or at least 6 of 9 symptoms of hyperactivity/impulsivity, or both, have persisted for at least 6 months. Symptoms are maladaptive, inconsistent with developmental level.

Symptoms of Inattention

- Fails to attend to details
- Fails to sustain attention on task
- Fails to listen
- Fails to finish jobs
- Poor at planning and organizing
- Loses things frequently
- Easily distracted by extraneous stimuli
- Often forgetful
- Avoids sustained mental effort

Hyperactive/Impulsive Symptoms

- Can't sit quietly
- Has to get up and move around
- Subjective restlessness
- Hard to engage in leisure quietly
- "On the go" or "driven"
- Talks excessively
- Speaks without thinking; blurts out
- Has difficulty waiting his or her turn
- Interrupts or intrudes on others

Criterion B: Symptoms causing impairment were present before age 7 years

Criterion C: Impairment from the symptoms is present in *two or more settings* (eg, work and home)



Criterion D: There is clear evidence of *significant* impairment in social, academic or occupational functioning Criterion E: The symptoms are not better accounted for by another mental disorder (eg, mood or anxiety disorder, substance abuse, personality disorder) Initial Evaluation 1: Clinical Interviews

- Past and present ADHD symptoms
- How, where symptoms cause impairments
- Alternative and comorbid disorders
- Developmental history/impulses
- Strengths*
- Mental status examination



2: Standardized Rating Scales

- Adult ADHD Self Report Scale
- Barkley System of Diagnostic Scales
- Brown Attention-Deficit Disorder Scales
- Conners Adult ADHD Rating Scale

Evaluation 3: Medical history and assessments

Evaluation 4: Family

- History of ADHD, results of treatment
- History of other disorders

Evaluation 5: Information from a , significant other or parent

- Documentation
- Interview data
- Rating scales

Evaluation 6: School and work assessments

Evaluation 7: Other assessments

- * Educational
- * Psychological testing
- Neuropsychological testing
- Neuroimaging
- Vocational



- Combined
- Predominantly inattentive
- Predominantly hyperactive/impulsive
- Not otherwise specified

Prevalence of ADHD in adults: 4.4%

Differential Diagnosis of ADHD

- Psychiatric
- Medical
- Dietary
- Malingering
- Normal behavior

Psychiatric Disorders Associated with ADHD

- Anxiety disorders
- Affective disorders, uni- and bipolar*
- Learning disorders
- Substance abuse disorders
- Tourette's Disorder
- Schizophrenia and other psychotic disorders
- Mental retardation
- Pervasive developmental disorders
- Personality disorders

The Biology of ADHD

- Attention is a complex state mediated by several areas of the brain
- Frontal lobe dysfunction is central but not the only site of the disorder

The Biology of ADHD, cont'd

- Less gray and white matter
- Decrements in the dorsal prefrontal cortex
- Decrements in the cerebellum
- Decrements in the striatum

Biology: Neurotransmitters

- Dopamine relates to attention
- Norepinephrine relates to hyperactivity/impulsivity
- Current thinking: multiple neurotransmitter systems are involved

Comprehensive Treatment for ADHD

- Always starts with education
- Usually includes medication
- Usually includes psychotherapy
- Good alliance with significant others
- May need other resources (coaches, etc)

Rx Goal : Enhance Resilience

- Optimism
- Altruism
- Moral compass
- Faith and spirituality
- Humor
- Role model
- Social supports
- Face fears
- Life mission
- Training

Medication for ADHD

- CNS stimulants and other medications
- Result : moderate to marked improvement in 60-70% of adult ADHD patients
- Rarely "magic," by itself

CNS Stimulants for ADHD

- Helpful, but less than in children
- Biggest problem in adults is underdosing
- Usual daily dosage range is 50-100 mg of methylphenidate, 30-50 mg of dextroamphetamine
- Try both, since 25% respond to one but not the other

CNS Stimulants: Do NOT Use

- Active cardiovascular heart disease or uncontrolled hypertension
- Active, untreated substance abuse
- Drug-abusing patients with less than three months of documented abstention
- Current symptoms or past history of bipolar disorder, especially mania
- Psychosis

Stimulants, Abuse, and ADHD Patients

- CNS stimulants are *rarely* abused by ADHD patients
- Used properly, they *decrease* the likelihood of later substance abuse in these patients
- If there is comorbid substance abuse, treat it first

Non-CNS Stimulants for Adult ADHD

- Atomoxetine (Strattera): Yes
- Bupropion (Wellbutrin): Yes
- Tricyclic antidepressants: Yes
- Monoamine Oxidase Inhibitors: Yes
- SSRIs, SNRIs: No
- Alpha-agonists: No (?)
- Nicotine and cholinergic agents: ?
- Modafinil (Provigil): Not alone, "layered"

Ineffective Treatments for ADHD

- Meds: lithium carbonate; amantadine; l-Dopa; D-,L-phenylalanine; tyrosine; antiyeast medications
- Dietary supplements: acetylcarnitine; gingko biloba; phosphatidylserine; essential fatty acids such as gamma-linolenic acid and docosahexanoic acid; megavitamins; DMAE (dimethylaminothanol)
- Dietary manipulations

Adult ADHD: Active Psychotherapy

- Support and psychoeducation
- Cognitive behavioral treatment
- Psychodynamic treatment
- Couples treatment
- Family treatment
- "Coaching"

Comorbid ADHD: Be Vigilant

* The *rule*, not the exception

- Look for ADHD in the anxious or depressed or substance-abusing patient; look for anxiety and depression and substance abuse in the ADHD patient
- "Treat what's worst, first"
- Personality disorders worsen prognosis

ADHD : Comorbid Affective Disorder

- At least 25% of ADHD patients are depressed
- At least 25% of depressed patients have ADHD
- Strattera and the SSRIs: escitalopram (Lexapro) or sertraline (Zoloft) don't compete for the metabolic pathway

ADHD and Bipolar Disorder

- An estimated 5-10% of adult ADHD patients have bipolar disorder
- Screen for it by using a rating scale
 (eg, Mood Disorders Questionnaire) and data from significant others, family
- * Stabilize mood before treating ADHD

ADHD and Anxiety Disorders

- An estimated 50% of ADHD patients have 1 or more anxiety disorders
- Stimulants "worsen" anxiety, but full treatment of ADHD lessens it

Adult ADHD and Substance Abuse

- 10% chance of current substance abuse,
 50% chance of past abuse,
 20-50% chance of future abuse
- Incidence higher in antisocial personality disorder

ADHD and Substance Abuse, cont'd

* Vigilance

- Information from patient and others
- Treat substance abuse first
- Document three or more months of abstinence before treating ADHD
- Treat the abstinent patient with Strattera and/or stimulants, but stay vigilant

Treatment-Refractory ADHD

- * Lack of response to medication
- Many/severe comorbid disorders
- Unsupportive or hostile family
- Character pathology

Treatment-Refractory ADHD

- Combine stimulants with atomoxetine or bupropion
- Combine atomoxetine or bupropion with a stimulant
- Add modafinil
- Try TCA (alone or with stimulant)
- Alpha-agonist
- MAOI (alone)

ADHD and Women

- Girls have ADHD, with significant morbidity and higher risk of drug abuse
- Women with ADHD can founder when they have children
- Issues concerning pregnancy and breastfeeding require coordinated care

ADHD and Families

- Problems are multi-generational
- The spouse can be unsupportive or overburdened or both
- Think in terms of the family system

ADHID in Adults: Summary

- Keep the diagnosis in mind
- Evaluate thoroughly
- Assess for comorbidity, especially affective disorder and substance abuse
- Identify strengths
- Treat what's worst, first
- Enhance resilience