Adult ADHD Fact Sheet

Presented by Dr. Tricia Cardner (twitter:@drtriciacardner) & Dr. Jimmy Miles (twitter: @JimmyMiles29

1. Introduction

- a. Mental health condition exhibited by difficulty maintaining attention, as well as hyperactivity and impulsive behavior
- b. Can lead to unstable relationships, poor work/school performance, low self-esteem
- c. Always starts in early childhood but may be diagnosed later in life
 - i. 40-60% of children with ADHD have ADHD-related problems in adulthood

2. Epidemiology

- a. Prevalence 4.4% United States, 3.4% internationally
- b. Potentially increased risk if:
 - i. First degree relative with ADHD or another mental health disorder
 - ii. Mother smoked, drank alcohol, or used drugs during pregnancy
 - iii. Mother exposed to environmental poisons (PCBs) during pregnancy
 - iv. Exposure to environmental toxins such as lead
 - v. Premature infant

3. Pathogenesis

- a. Unknown
- b. Structural abnormalities
 - i. Smaller volumes in frontal cortex, cerebellum, and subcortical structures
 - ii. Subcortical abnormalities might normalize into adulthood
- c. Dysfunction in neurologic pathways
 - i. frontosubcortical pathways and subcortical structures (caudate, putamen, globus pallidus)
 - ii. Involved in motor control and executive function
 - iii. Feedback to the cortex for **regulation of behavior**
 - iv. Abnormalities in **reward processing** → lower reward anticipation, insufficient motivation, impulsive behavior, preference of immediate rather than delayed reward

- d. Hypoactivity of dopamine and norepinephrine in these circuits
- e. Genetics
 - i. risk of parents and siblings of children with ADHD is 2-8x
 - ii. several genes implicated
- 4. Clinical Manifestations
 - a. Predominant features in adults differ from children
 - i. Hyperactivity and impulsivity less obvious or overt (impulsivity may be seen in verbalizations rather than physical behavior)
 - ii. Inattention more prominent

b. Inattention

- i. Trouble focusing and concentrating
- ii. Difficulty making decisions and completing tasks
- iii. Poor time management
- iv. Disorganization

c. Impulsivity

- i. Ending relationships
- ii. Quitting jobs
- iii. Criminal activity
- iv. Traffic accidents and violations

d. Hyperactivity

- i. Fidgety or restlessness
- ii. Talking too much or interrupting others
- iii. Constant activity
- iv. Tendency toward very active jobs
- e. Emotional dysregulation (related to above)
 - Inability to manage uncomfortable emotions when necessary and engage in appropriate behavior when distressed
 - ii. Mood lability, irritability, anger outbursts, low frustration tolerance, motivational deficits
- f. Some adults present with impairment only later in life when they confront new and increasingly complex tasks
- 5. Comorbidities
 - a. Mood disorders
 - b. Anxiety disorders
 - c. Substance use disorders
 - d. Personality disorders (antisocial personality disorder, borderline personality disorder)
 - e. Learning disabilities
 - f. Intermittent explosive disorder

- g. Rate of comorbid psychiatric disorders increase with age
- h. Adults with ADHD commonly diagnosed and treated for comorbid condition while ADHD goes unrecognized and untreated

6. Assessment

- a. Clinical diagnosis
- b. Identify symptoms and behaviors consistent with DSM-5 diagnostic criteria
- c. Evaluate for psychosocial impairment
- d. Rule out other disorders
- e. Age of onset
 - i. May need help from another adult informant
- f. Rating scales
 - i. Conners' Adult ADHD Rating Scale (CAARS)
 - ii. Wender Utah Rating Scale (short version)
 - iii. Adult ADHD self-reporting Scale (ASRS)
- g. Brain imaging and EEG techniques actively being studied

7. Differential Diagnosis

- a. Includes common comorbidities
 - i. Mood disorders
 - ii. Anxiety disorders
 - iii. Substance use disorders
 - iv. Intermittent explosive disorder
- b. Psychotic disorders such as schizophrenia

8. Treatment

- a. Medication
 - i. Stimulants recommended in adults without history of substance abuse or cardiovascular disease
 - ii. Antidepressants (Desipramine or Atomoxetine) in patients with a history of substance abuse/dependence
 - iii. Buproprion for patients with cardiovascular disease or other medical conditions in which stimulants are contraindicated
- b. Psychotherapy
 - i. Cognitive-behavioral therapy (CBT)
 - ii. Marital counseling and family therapy
 - iii. Efficacious as an adjunct to medication
- c. Treat comorbidities
- d. Lifestyle changes
 - i. Make a list of tasks each day
 - ii. Break down tasks into steps
 - iii. Use sticky pads to write notes
 - iv. Keep an appointment book

- v. Carry a notebook or electronic advice to take notes
- vi. Set up systems to file and organize information
- vii. Follow a routine
- viii.Ask for help!
- e. Alternative medicine
 - i. Yoga or meditation may help relax and learn discipline
 - ii. Dietary changes such as eliminating foods that may worsen symptoms (work with a dietician or physician)
 - iii. Vitamin/mineral supplements, herbal supplements and essential fatty acids lack evidence, consult your physician before starting
 - iv. Neurofeedback training or EEG biofeedback requires more research to verify efficacy
- 9. Preparing for your appointment
 - a. Make a list of symptoms and problems they have caused
 - b. List of key personal information including major stresses or recent life changes
 - c. Medication, caffeine, alcohol, tobacco, and drug use
 - d. Come with questions
 - i. Possible causes of symptoms?
 - ii. Tests?
 - iii. Treatment?
 - iv. Alternatives?
 - v. Other health conditions and how to manage together?
 - vi. Specialists?
 - vii. Generic alternative to prescriptions?
 - viii.Brochures, websites or other resources?

Works Cited

Brent, David, MD. "Pharmacotherapy for Adult Attention Deficit Hyperactivity Disorder." UpToDate. N.p., 9 Jan. 2014. Web. 14 Sept. 2014.

Bukstein, Oscar, MD. "Adult Attention Deficit Hyperactivity Disorder in Adults: Epidemiology, Pathogenesis, Clinical Features, Course, Assessment, and Diagnosis." UpToDate. N.p., 1 Aug. 2014. Web. 14 Sept. 2014.

Swaiman, Kenneth F. "Attention-Deficit Hyperactivity Disorder." Swaiman's Pediatric Neurology: Principles and Practice. Edinburgh: Elsevier Saunders, 2012. 622-38. Print.