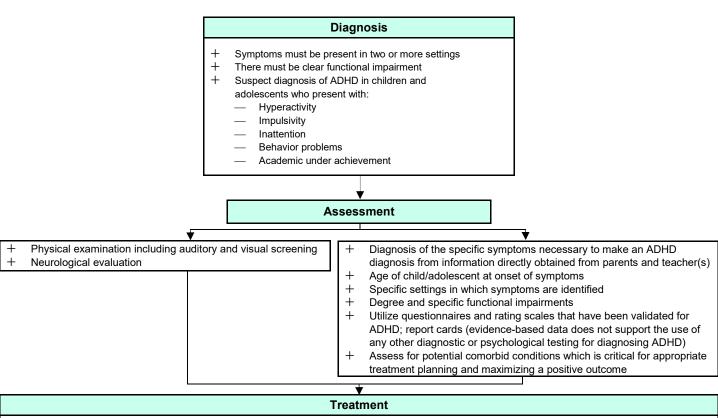
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- + Develop a treatment plan that recognizes ADHD is a chronic condition
- + Educate parents and child/adolescent on:
 - ADHD and its course with and potentially without treatment
 - Treatment options
 - Impact on learning, behavior, self-esteem, social skills, and family functioning
 - Available resources both locally and nationally (ex: CH.A.D.D.)
- + Management of ADHD in children requires consistent handling and good communication across multiple settings (With parents, child/adolescent and teacher's) develop specific treatment targets and outcomes to be achieved (three to six targets) that are realistic, attainable, and measurable
- + Utilize stimulant medication (first-line pharmacological option) and/or behavior therapy to treat target symptoms:
 - If one stimulant does not work at a maximum therapeutic dose, try an alternative stimulant;
 - If the second stimulant does not work at a maximum therapeutic dose, a third type or formulation may be tried; or
 - Utilize a second-line option

Positive Response of Target Symptoms + Continue present treatment plan and reassess at appropriate intervals + Continue present treatment plan and reassess at appropriate intervals + Make sure target symptoms are realistic and attainable + Reassess diagnosis and potential comorbidities + Assess adherence to treatment plan and resolve any impediments to treatment (lack of adherence to treatment plan is a common cause for non-response) + Utilize all appropriate treatments + Consultation or referral to a child/adolescent psychiatrist, psychologist or appropriate mental health professional

Outcome

- + Determining outcome of treatment requires information from: parents; teacher(s); other adults in the child/adolescent's life; and the child/adolescent
- + Monitoring should include:
 - Date of refills, medication type, dosage, frequency of use, quantity, and response to treatment (medication and behavioral interventions)
 - Method of communication with parents and child/adolescent and periodic contact with teacher(s)
 - Frequency of monitoring will depend on the severity of the symptoms, complications, adherence to treatment, and support needed by the family
- + Once stability is achieved (i.e., no or minimal symptoms with no or minimal functional impairment) follow-up visits can be every three months for the first six months, and then every three to six months thereafter.

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Diagnostic Criteria for Attention-Deficit/Hyperactivity Disorder

A. Either 1 or 2

 Six (or more) of the following symptoms of inattention have persisted for at least six months to a degree that is maladaptive and inconsistent with developmental level:

Inattention

- a. Often fails to give close attention to details or makes careless mistakes in schoolwork, work or other activities
- b. Often has difficulty sustaining attention in tasks or play activities
- Often does not seem to listen when spoken to directly
- d. Often does not follow through on instructions and fails to finish schoolwork, chores or duties in the workplace (not due to oppositional behavior or failure to understand instructions)
- e. Often has difficulty organizing tasks and activities
- f. Often avoids, dislikes or is reluctant to engage in tasks that require sustained mental effort (such as schoolwork or homework)
- g. Often loses things necessary for tasks or activities (e.g., toys, school assignments, pencils, books or tools)
- h. Is often easily distracted by extraneous stimuli
- i. Is often forgetful in daily activities
- 2. Six (or more) of the following symptoms of hyperactivity-impulsivity have persisted for at least six months to a degree that is maladaptive and inconsistent with developmental level:

Hyperactivity

- a. Often fidgets with hands or feet or squirms in seat
- b. Often leaves seat in classroom or in other situations in which remaining seated is expected
- c. Often runs about or climbs excessively in situations in which it is inappropriate (in adolescents or adults, may be limited to subjective feelings of restlessness)
- d. Often has difficulty playing or engaging in leisure activities quietly
- e. Is often "on the go" or often acts as if "driven by a motor"
- f. Often talks excessively

Impulsivity

- a. Often blurts out answers before questions have been completed
- b. Often has difficulty awaiting their turn
- c. Often interrupts or intrudes on others (e.g., butts into conversations or games)
- B. Some hyperactive-impulsive or inattentive symptoms that caused impairment were present before age seven.
- C. Some impairment from the symptoms is present in two or more settings (e.g., at school [or work] and at home).
- D. There must be clear evidence of clinically significant impairment in social, academic or occupational functioning.
- E. The symptoms do not occur exclusively during the course of a pervasive developmental disorder, schizophrenia or other psychotic disorder and are not better accounted for by another mental disorder (e.g., mood disorder, anxiety disorder, dissociative disorder or a personality disorder).

Assessment

Physical and neurological exam:

- + Vital signs including height and weight
- + General appearance
- + Mental status

Mental status - comorbid conditions:

- + Oppositional defiant disorder
- + Conduct disorder
- + Anxiety
- + Depression
- + Learning/language disorders

Substance use history:

+ Type and amount (any amount is relevant)

Problems with the legal system:

- + Arrests
- + Traffic tickets
- + Motor vehicle accidents

Home/family interactions:

- + Disorganization of personal space
- + Anger/rage reactions
- + Homework organization and completion

School performance:

- + Teacher(s) report
- + Report cards
- + Reprimands or notes sent home from school
- + Extracurricular activities and performance

Social skills:

- + Friendships
- + Group cohesion
- + Strengths and interests

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Evidence-Based ADHD Information

- + Prevalence of ADHD (in school age population):
 - Community-based population: 10% (5.8% 13.6% males; 1.9% 4.5% females)
 - School-based population: 7%
 - Hyperactive type is more common in males; inattentive type is more common in females
- + At least 50% of children/adolescents with ADHD exhibit significant residual symptoms in adulthood
- Stimulant medication is the standard of care for pharmacological treatment and evidence demonstrates it is also more efficacious than psychosocial interventions
- 80% of patients with ADHD will respond to one of the stimulants if they are used in a systematic manner
- Documented effects of ADHD stimulant responders include: reduced motor activity to the level of their peer group; decreased excessive talking, noise, and disruption in the classroom; improved handwriting; improved fine motor control; reduced anger; reduced bossiness with peers; reduced verbal and physical aggression with peers; reduced impulsive stealing and property destruction; reduced defiance and oppositional behavior with adults; decreased intensity of behavior; improved peer social status; improved ability to play and work independently; improved mother-child and family interactions; improved sustained attention; improved short-term memory; reduced distractibility; reduced impulsivity; increased amount of academic work completed; and increased accuracy of academic work
- Currently, genetic loading appears to be the primary cause of ADHD; however, many environmental correlations have been found in studies that may prove to represent etiologic connection as research progresses

Psychosocial Treatment Options

- + Behavioral techniques:
 - Positive reinforcement: providing rewards/privileges contingent on the child/adolescent's performance.
 - Time-out: removing access to positive reinforcement contingent on performance of unwanted/problem behavior.
 - Response cost: withdrawing rewards/privileges contingent on the performance of unwanted/problem behavior.
 - Token economy: combining positive reinforcement and response cost. The child earns rewards/privileges contingent on performing desired behaviors and loses the rewards/privileges based on undesirable behavior.
 - Self-mediated strategies: children/adolescents selfmonitor and self- reinforce rewards for meeting determined goals.
 - Modeling: helps children/adolescents develop social skills and use role playing to teach appropriate behavior
 - Cognitive-behavioral strategies: problem solving and anger management skills are taught so they can be used in particular situations.
 - Peer mediated interventions: peers monitor behavior and distribute tokens when earned. This must be monitored in order to avoid a negative impact on peer relations.
- + Social skills treatment
- + Educational therapy

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+	Conduct disorder	35%
+	Oppositional defiant disorder	26%
+	Anxiety disorders	26%
+	Depressive disorders	18%
+	Substance use disorders	27% - 47%
		(in untreated ADHD individuals)
+	Learning disabilities	20%
+	Tourette's syndrome (TS)	40% - 60% of TS clinic populations suffer from some form of ADHD; but the
		opposite is not true for ADHD diagnosed patients

Psychosocial Treatment Options

- + American Academy of Family Physicians (AAFP) http://www.aafp.org
- + American Academy of Pediatrics (AAP) http://www.aap.org
- + American Medical Association (AMA) http://www.ama-assn.org
- Attention-Deficit Disorder Association (ADDA) http://www.add.org
- + Center for Mental Health Services Knowledge Exchange Network http://www.mentalhealth.org
- + Children and Adults with Attention-Deficit/Hyperactivity Disorder (CH.A.D.D.)

http://www.chadd.org

- + Comprehensive Treatment for Attention-Deficit Disorder (CTADD) http://www.ctadd.com
- + eMedicine

http://www.emedicine.com

- + National Institute of Mental Health (NIMH) http://www.nimh.nih.gov/publicat/adhdmenu.cfm
- + Vanderbilt Child Development Center http://peds.mc.vanderbilt.edu/cdc/rating~1.html
- + Learning Disabilities Association of America http://www.ldanatl.org
- + US Department of Education http://www.ed.gov

ADHD Questionnaires and Rating Scales

Conners

Parent

Teacher

Barkley's School Situations Questionnaire

Number of Problem Settings Scale

Mean Severity Scale

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Medications Used in the Treatment of ADHD						
Generic/Brand Name	Dosing	Duration of Effect				
Short-acting -Methylphenidate Ritalin‡, Metadate, Methylin, Focalin	5mg-40mg 0.3-1.0mg/kg; up to 3mg/kg has been used with children BID – TID	3-5 Hours				
Intermediate-acting – Methylphenidate Ritalin SR*‡, Metadate ER*‡, Methylin ER*	20mg-40mg QD or 40mg AM & 20mg afternoon	4-8 Hours				
Extended/Prolonged-acting – Methylphenidate Concerta*, Metadate CD*, Ritalin LA* ** Focalin XR – dexmethylphenidate HCI	0.3mg-2mg/kg QD 5 mg - 20 mg QD in children	8-12 Hours 8-12 hours				
Short-acting – Dextroamphetamine Dexedrine‡ Dextrostat	5mg-40mg BID-TID	4-5 Hours				
Intermediate-acting Amphetamine/dextroamphetamine Adderall‡	5mg-30mg QD or 5mg-15mg BID	4-6 Hours				
Extended/Prolonged-acting – Amphetamine/dextroamphetamine (mixed salts of amphetamine) Adderall XR*	10mg –30mg QD	8-12 Hours				
	Non-stimulants: Second-line Treatment					
Pemoline/ Cylert*** ‡	37.5mg starting dose; may increase by 18.75mg/week to effect, not to exceed 112.5mg	4 Hours				
Atomoxetine (SNRI) Strattera	Under 70kg: 1.2mg/kg QD; Start with 0.5mg/kg x 3 days; Max dose 1.4mg/kg; alternative 0.6mg/kg BID Greater than 70kg: 40mg QD X 3 days; Then increase to 80mg QD or 40mg BID	24 Hours				
Bupropion (NDRI) Wellbutrin‡ Wellbutrin SR‡	50mg-100mg TID 100mg-150mg BID	24 Hours				
TCAs Imipramine/ Tofranil ‡ Desipramine/ Norpramin ‡	10mg-25mg QD; increase by 2mg-5mg/kg as tolerated Can give BID-TID to improve tolerance Of side effects	24 Hours				
Alpha-adrenergic agonist**** Clonidine/ Catapres‡ Guanfacine/ Tenex ‡	May require more than once a day dosing	May require more than once a day dosing				

- * Do not cut, crush, or chew
- ** Can be sprinkled
- *** Hepatotoxicity including fatal liver failure has occurred; caution is suggested in prescribing
- **** Generally used for aggressive behavior, hyperarousal or night time sedation as an adjunctive medication to one of the stimulants. Has been associated with (rare) death when co-administered with methylphenidate.
- **‡** Indicates that a lower cost generic alternative may be available.

For all medications listed above see PDR for complete prescribing, monitoring, side effect, & drug interaction information. To obtain additional information regarding medications covered by Cigna healthcare benefit plans, please consult https://secure.cigna.com/health/form/drug_list.html.

The ultimate judgment regarding any specific clinical procedure is the responsibility of the treating physician, based on a current knowledge of psychotherapeutic technique and psychopharmacology, dosages, drug interactions, side effects and the presenting circumstances of the patient. Document Revision: September 2021