









### **Table of Contents**

Considering ADHD Diagnosis	3
Vanderbilt ADHD Teacher Rating Scale	4-
Vanderbilt ADHD Parent Rating Scale	6-
Scoring the Vanderbilt ADHD Scales	8
ADHD Stimulant Medications	9
ADHD Non-Stimulant Medications	10
ADHD Resources	11

### Considering ADHD diagnosis?

Problem from inattention/hyperactivity

Consider comorbidity or other diagnosis:

**Oppositional Defiant Disorder** 

**Conduct Disorder** 

**Substance Abuse** 

Language or Learning Disability Anxiety Disorder

Mood disorder

**Autism Spectrum Disorder** 

Low Cognitive Ability/Mental Retardation

Adverse Childhood Experiences

#### Diagnosis:

Preschoolers have some normal hyperactivity/impulsivity: recommend skepticism if diagnosing ADHD in this group. (Note that Medicaid may require a medication review if prescribing and child age <5).

If rapid onset symptoms, note this is not typical of ADHD.

#### Use DSM-5 criteria:

Must have symptoms present in more than one setting

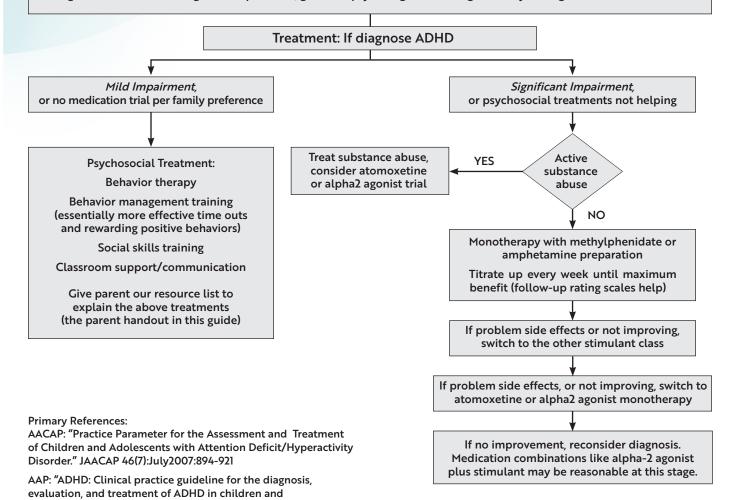
adolescents." Prediatrics 128(5), November, 2011:1007-1022

Symptoms rating scale strongly recommended from both home and school

Vanderbilt ADHD Scale (many others available, for a fee)

If unremarkable medical history, neuro image and lab tests are not indicated.

If significant concern for cognitive impairment, get neuropsychological/learning disability testing.



# Vanderbilt ADHD Teacher Rating Scale

Child's Name		
Date of Birth	Grade	Today's Date
Date of Birtir	Orage	Today 3 Date
Completed by	Subject Taugl	ht (if applicable)

Each rating should be considered in the context of what is appropriate for the age of the child. If you have completed a previous assessment, your rating should reflect the child's behavior since you last completed a form.

	Cummhama	Nover	Occasionally	Often	Vany Often
	Symptoms	Never	Occasionally	Often	Very Often
1.	Does not pay attention to details or makes careless mistakes, such as in homework	0	1	2	3
2.	Has difficulty sustaining attention to tasks or activities	0	1	2	3
3.	Does not seem to listen when spoken to directly	0	1	2	3
4.	Does not follow through on instruction and fails to finish schoolwork (not due to oppositional behavior or failure to understand)	0	1	2	3
5.	Has difficulty organizing tasks and activities	0	1	2	3
6.	Avoids, dislikes, or is reluctant to engage in tasks that require sustained mental effort	0	1	2	3
7.	Loses things necessary for tasks or activities (school assignments, pencils, or books)	0	1	2	3
8.	Is easily distracted by extraneous stimuli	0	1	2	3
9.	Is forgetful in daily activities	0	1	2	3
10.	Fidgets with hands or feet or squirms in seat	0	1	2	3
11.	Leaves seat when remaining in seated is expected	0	1	2	3
12.	Runs about or climbs excessively when remaining seated is expected	0	1	2	3
13.	Has difficulty playing or engaging in leisure activities quietly	0	1	2	3
14.	Is "on the go" or often acts as if "driven by a motor"	0	1	2	3
15.	Talks too much	0	1	2	3
16.	Blurts out answers before questions have been completed	0	1	2	3
17.	Has difficulty waiting his or her turn	0	1	2	3
18.	Interrupts or intrudes in on others (butts into conversations or games)	0	1	2	3
19.	Loses temper	0	1	2	3
20.	Actively defies or refuses to comply with adults' requests or rules	0	1	2	3
21.	Is angry or resentful	0	1	2	3
22.	Is spiteful and vindictive	0	1	2	3
23.	Bullies, threatens, or intimidates others	0	1	2	3
24.	Initiates physical fights	0	1	2	3
25.	Lies to obtain goods for favors or to avoid obligations ("cons" others)	0	1	2	3
26.	Is physically cruel to people	0	1	2	3
27.	Has stolen items of nontrivial value	0	1	2	3
28.	Deliberately destroys others' property	0	1	2	3

## Vanderbilt ADHD Teacher Rating Scale

Child's Name		
Today's Date	 	

	Symptoms	Never	Occasionally	Often	Very Often
29.	Is fearful, anxious, or worried	0	1	2	3
30.	Is self-conscious or easily embarrassed	0	1	2	3
31.	Is afraid to try new things for fear of making mistakes	0	1	2	3
32.	Feels worthless or inferior	0	1	2	3
33.	Blames self for problems, feels guilty	0	1	2	3
34.	Feels lonely, unwanted, or unloved; complains that "no one loves him/her"	0	1	2	3
35.	Is sad, unhappy, or depressed	0	1	2	3

Performance	Problem	natic	Average	Above Av	verage		
	Academic Performance						
Reading	1	2	3	4	5		
Mathematics	1	2	3	4	5		
Written Expression	1	2	3	4	5		
		CI	assroom Behavioi	•			
Relationship with Peers	1	2	3	4	5		
Following Directions/Rules	1	2	3	4	5		
Disrupting Class	1	2	3	4	5		
Assignment Completion	1	2	3	4	5		
Organizational Skills	1	2	3	4	5		

Comments:

For Office Use Only

#### SYMPTOMS:

Number of questions scored as 2 or 3 in questions 1-9:

Number of questions scored as 2 or 3 in questions 10-18:

Total symptom score for questions 1-18:

Number of questions scored as 2 or 3 in questions 19-28:

Number of questions scored as 2 or 3 in questions 29-35: ......

Vanderbilt ADHD Diagnostic Teacher Rating Scale was developed by Mark L. Wolraich, MD. Reproduced and format adapted by R. Hilt, MD and PAL with permission.

# Vanderbilt ADHD Parent Rating Scale

Child's Name			
Date of Birth	Grade	Today's Date	
Completed by	Relationship to child: 🗆 Mom	□ Dad □ Other	

Each rating should be considered in the context of what is appropriate for the age of your child. When completing this form, please think about your child's behaviors in the past 6 months.

	Symptoms	Never	Occasionally	Often	Very Often
1.	Does not pay attention to details or makes careless mistakes, such as in homework	0	1	2	3
2.	Has difficulty sustaining attention to tasks or activities	0	1	2	3
3.	Does not seem to listen when spoken to directly	0	1	2	3
4.	Does not follow through on instruction and fails to finish schoolwork (not due to oppositional behavior or failure to understand)	0	1	2	3
5.	Has difficulty organizing tasks and activities	0	1	2	3
6.	Avoids, dislikes, or is reluctant to engage in tasks that require sustained mental effort	0	1	2	3
7.	Loses things necessary for tasks or activities (school assignments, pencils, or books)	0	1	2	3
8.	Is easily distracted by extraneous stimuli	0	1	2	3
9.	Is forgetful in daily activities	0	1	2	3
10.	Fidgets with hands or feet or squirms in seat	0	1	2	3
11.	Leaves seat when remaining in seated is expected	0	1	2	3
12.	Runs about or climbs excessively when remaining seated is expected	0	1	2	3
13.	Has difficulty playing or engaging in leisure activities quietly	0	1	2	3
14.	Is "on the go" or often acts as if "driven by a motor"	0	1	2	3
15.	Talks too much	0	1	2	3
16.	Blurts out answers before questions have been completed	0	1	2	3
17.	Has difficulty waiting his or her turn	0	1	2	3
18.	Interrupts or intrudes in on others (butts into conversations or games)	0	1	2	3
19.	Argues with adults	0	1	2	3
20.	Loses temper	0	1	2	3
21.	Actively defies or refuses to comply with adults' requests or rules	0	1	2	3
22.	Deliberately annoys people	0	1	2	3
23.	Blames others for his or her mistakes or misbehavior	0	1	2	3
24.	Is touchy or easily annoyed by others	0	1	2	3
	Is angry or resentful	0	1	2	3
	Is spiteful and vindictive	0	1	2	3
	Bullies, threatens, or intimidates others	0	1	2	3
	Initiates physical fights	0	1	2	3
29.	Lies to obtain goods for favors or to avoid obligations ("cons" others)	0	1	2	3
30.	Is truant from school (skips school) without permission	0	1	2	3
	Is physically cruel to people	0	1	2	3

# Vanderbilt ADHD Parent Rating Scale

Child's Name		

Today's Date.....

S	Symptoms	Never	Occasionally	Often	Very Often
32.	Has stolen things of nontrivial value	0	1	2	3
33.	Deliberately destroys others' property	0	1	2	3
34.	Has used a weapon that can cause serious harm (bat, knife, brick, gun)	0	1	2	3
35.	Is physically cruel to animals	0	1	2	3
36.	Has deliberately set fires to cause damage	0	1	2	3
37.	Has broken into someone else's home, business, or car	0	1	2	3
38.	Has stayed out at night without permission	0	1	2	3
39.	Has run away from home overnight	0	1	2	3
40.	Has forced someone into sexual activity	0	1	2	3
41.	Is fearful, anxious, or worried	0	1	2	3
42.	Is afraid to try new things for fear of making mistakes	0	1	2	3
43.	Feels worthless or inferior	0	1	2	3
44.	Blames self for problems, feels guilty	0	1	2	3
45.	Feels lonely, unwanted, or unloved; complains that "no one loves him/her"	0	1	2	3
46.	Is sad, unhappy, or depressed	0	1	2	3
47.	Is self-conscious or easily embarrassed	0	1	2	3

Performance	Problematic		Average	Above A	verage
		Ac	ademic Performan	ce	
Reading	1	2	3	4	5
Mathematics	1	2	3	4	5
Written Expression	1	2	3	4	5
		-	Classroom Behavio	r	
Relationship with Peers	1	2	3	4	5
Following Directions/Rules	1	2	3	4	5
Disrupting Class	1	2	3	4	5
Assignment Completion	1	2	3	4	5
Organizational Skills	1	2	3	4	5

For Office Use Only Comments:

#### SYMPTOMS:

Number of questions scored as 2 or 3 in questions 1-9:

Number of questions scored as 2 or 3 in questions 10-18:

Total symptom score for questions 1-18:

Number of questions scored as 2 or 3 in questions 19-26:

Number of questions scored as 2 or 3 in questions 27-40:

Number of questions scored as 2 or 3 in questions 27-40:

Number of questions scored as 2 or 3 in questions 41-47:

Number of questions scored as 2 or 3 in questions 41-47:

Number of questions scored as 2 or 3 in questions 41-47:

Number of questions scored as 2 or 3 in questions 41-47:

Number of questions scored as 2 or 3 in questions 41-47:

Number of questions scored as 2 or 3 in questions 41-47:

### Scoring the Vanderbilt ADHD Scales

The Vanderbilt rating scale is a screening and information gathering tool which can assist with making an ADHD diagnosis and with monitoring treatment effects over time. The Vanderbilt rating scale results alone do not make a diagnosis of ADHD or diagnose any other disorder — one must consider information from multiple sources to make a clinical diagnosis. Symptom items 1-47 are noted to be significantly present if the parent or teacher records the symptom as "often or very often" present (a 2 or 3 on the scale). The "performance" items at the end are felt to be significant if the parent or teacher records either a 1 or 2 on each item.

The validation studies for the Vanderbilt Assessment Scales were for the 6-12 year old age group. To the extent that they collect information to establish DSM-5 criteria, they are applicable to other groups where the DSM-5 criteria are appropriate.

#### **Parent Version**

#### **Predominantly Inattentive Subtype**

Requires 6 or more counted behaviors on items 1 through 9 and a performance problem (score of 1 or 2) in any of the items on the *performance* section.

#### Predominantly Hyperactive/Impulsive Subtype

Requires 6 or more counted behaviors on items 10 through 18 and a performance problem (score of 1 or 2) in any of the items on the *performance* section.

#### **Combined Subtype**

Requires 6 or more counted behaviors each on both the inattention and hyperactivity/impulsivity dimensions.

#### Oppositional-defiant disorder

Requires 4 or more counted behaviors on items 19 through 26.

#### Conduct disorder

Requires 3 or more counted behaviors on items 27 through 40.

#### Anxiety or depression

Requires 3 or more counted behaviors on items 41 through 47.

#### **Teacher Version**

#### **Predominantly Inattentive Subtype**

Requires 6 or more counted behaviors on items 1 through 9 and a performance problem (score of 1 or 2) in any of the items on the *performance* section.

#### Predominantly Hyperactive/Impulsive Subtype

Requires 6 or more counted behaviors on items 10 through 18 and a performance problem (score of 1 or 2) in any of the items on the *performance* section.

#### Combined subtype

Requires 6 or more counted behaviors each on both the inattention and hyperactivity/impulsivity dimensions.

#### Oppositional defiant and conduct disorders

Requires 3 or more counted behaviors from questions 19 through 28.

#### Anxiety or depression

Requires 3 or more counted behaviors from questions 29 through 35.

The **performance section** is scored as indicating some impairment if a child scores 1 or 2 on at least 1 item.

### **ADHD Stimulant Medications**

#### **Short Acting Stimulants**

Drug Name	Duration	Dosages	Stimulant Class	Usual Starting Dose	FDA Max Daily Dose
Methylphenidate (Ritalin, Methylin)	4-6 hours	2.5, 5, 10, 20 mg	Methyl.	5mg BID 1/2 dose if 3-5yr	60mg
Dexmethylphenidate (Focalin)	4-6 hours	2.5, 5, 10 mg	Methyl.	2.5mg BID	20mg
Dextroamphetamine (Dexedrine, Dextro Stat, Pro Centra, Zenzedi)	4-6 hours	2.5, 5, 10 mg tabs	Dextro.	5mg QD-BID 1/2 dose if 3-5yr	40mg
Amphetamine Salt Combo (Adderall)	4-6 hours	5, 7.5, 10, 12.5, 15, 20, 30 mg	Dextro.	5mg QD-BID 1/2 dose if 3-5yr	40mg

#### **Extended Release Stimulants**

Drug Name	Duration	Dosages	Stimulant Class	Usual Starting Dose	FDA Max Daily Dose	Editorial Comments
Metadate ER	4-8 hours	10, 20mg tab	Methyl.	10mg QAM	60mg	Generic available. Uses wax matrix. Variable duration of action
Concerta	10-12 hours	18, 27, 36, 54 mg	Methyl.	18mg QAM	72mg	Generic available. Osmotic pump capsule
Adderall XR	8-12 hours	5, 10, 15, 20, 25, 30 mg	Dextro.	5mg QD	30mg	Generic available. Beads in capsule can be sprinkled
Metadate CD (30% IR) ~8 hours	~8 hours	10, 20, 30, 40, 50, 60 mg capsules	Methyl.	10mg QAM	60mg	Generic available. Beads in capsule can be sprinkled
Ritalin LA (50% IR) ~8 hours	~8 hours	10, 20, 30, 40 mg capsules	Methyl.	10mg QAM	60mg	Generic available. Beads in capsule can be sprinkled
Focalin XR	10-12 hours	5 to 40mg in 5 mg steps	Methyl.	5mg QAM	30mg	Beads in capsule can be sprinkled
Daytrana patch	Until 3-5 hours after patch removal	10, 15, 20, 30 mg Max 30mg/9hr	Methyl.	10mg QAM	30mg	Rash can be a problem, slow AM startup, has an allergy risk, peeling off patch a problem with young kids
Lisdexamfetamine (Vyvanse)	~10 hours	10, 20, 30, 40 50, 60, 70mg	Dextro.	30mg QD	70mg	Conversion ratio from dextroamphetamine is not established. Chewable available
Dexedrine Spansule	8-10 hours	5, 10, 15 mg	Dextro.	5mg QAM	40mg	Beads in capsule can be sprinkled
Quillivant XR	10-12 hours	25mg/5ml 1 bottle = 300mg or 60ml	Methyl.	10mg QAM	60mg	Liquid banana flavor
Quillichew ER	6-8 hours	20, 30, 40 mg	Methyl.	20mg QAM	60mg	Chewable cherry- flavored tablets

### ADHD Non-Stimulant Medications

Drug Name	Dosages	Usual Starting	FDA Max	Editorial
	2000300	Dose	Daily Dose	Comments
Atomoxetine (Strattera)	10, 18, 25, 40 60, 80, 100mg	0.5mg/kg/day (1 to 1.2 mg/kg/d usual full dosage)	Lesser of 1.4mg/ kg/day or 100mg	Has GI side effects, takes weeks to see full benefit
Clonidine (Catapres)	0.1, 0.2, 0.3mg	0.05mg QHS if <45kg, otherwise 0.1mg QHS Caution if <5 yr.	(Not per FDA) 27-40kg 0.2mg 40-45kg 0.3mg >45kg 0.4mg	Often given to help sleep, also treats tics, can have rebound BP effects
Clonidine XR (Kapvay)	0.1, 0.2 mg	0.1mg QHS	0.4mg daily	Lower peak blood level, then acts like regular clonidine (similar 1/2 life). Still is sedating. Approved for combo with stimulants
Guanfacine (Tenex)	1, 2 mg	0.5mg QHS if <45kg, otherwise 1mg QHS Caution if <5 yr.	(Not per FDA) 27-40kg 2mg 40-45kg 3mg >45kg 4mg	Often given to help sleep, also treats tics, can have rebound BP effects
Guanfacine XR (Intuniv)	1, 2, 3, 4 mg	1mg QD if over 6 years old (full dosage 0.05 to 0.12mg/kg)	Whichever is lower: a) 4mg/day 6-12 years old, 7mg/day 13-17 years old Or, b) 0.05-0.12 mg/kg/day	Lower peak blood level, then acts like regular Tenex (similar 1/2 life) Still is sedating. Approved for combo with stimulants

Reference: AACAP ADHD Practice Parameter (2007), Micromedex 2013

#### Relative Effect Size of ADHD Medication Choices

Effect size of all stimulants ~1.0

Effect size of atomoxetine ~0.7

Effect size of guanfacine ~0.65 (using Cohen's d-statistic)

#### **Stimulant Relative Potencies:**

Methylphenidate 10mg ≈ dexmethylphenidate 5mg

Methylphenidate 10mg ≈ dextroamphetamine 5mg

#### \*ADHD Medication Monitoring:

With stimulant or atomoxetine treatment, follow vital signs, sleep, mood lability, appetite, growth, and cardiac symptoms with treatment.

With alpha agonist treatment, follow vital signs, symptoms of orthostasis, sedation, agitation, and for depressed mood.

### **ADHD** Resources

#### Information for Families

#### Books families may find helpful:

Taking Charge of ADHD: The Complete Authoritative Guide for Parents (Revised Edition, 2000), by Russell A. Barkley, PhD

Raising Resilient Children: Fostering Strength, Hope and Optimism in Your Child (2002), by Robert Brooks, PhD and Sam Goldstein, PhD

Attention Deficit Disorder: The Unfocused Mind in Children and Adults (2006), by Tom Brown, PhD Teenagers with ADD and ADHD: A Guide for Parents and Professionals (2006), by Chris Dendy

#### Books children may find helpful:

Learning to Slow Down & Pay Attention: A Book for Kids about ADHD (2004), by Kathleen Nadeau, PhD, Ellen Dixon, PhD, and Charles Beyl

Jumpin' Johnny Get Back to Work! A Child's Guide to ADHD/Hyperactivity (1981), by Michael Gordon, PhD

#### Websites families may find helpful:

Parents Med Guide

www.parentsmedguide.org (quality information about medications for ADHD)

Children and Adults with ADHD

www.chadd.org (support groups, information resource)

#### Teach ADHD

http://teachadhd.com (teaching advice for ADHD kids)

#### "Behavior Management Training" and "Behavior Therapy":

Manual and research based therapies for ADHD related problems lasting 10-20 sessions that can be performed by a qualified therapist. These treatments, though helpful with ADHD, are usually less effective than medications. But when combined with medications, these therapies may improve some difficulties (such as oppositional or aggressive behavior in ADHD) more than treating with medications alone.

#### The principle elements of these treatments are:

- · reviewing information about the nature of ADHD
- · learning to attend carefully to both misbehavior and when child complies
- · establishing a "token economy," like sticker chart rewards
- · using time out effectively
- managing non-compliant behavior in public settings
- · using a daily school report card
- · anticipating future misconduct

This resource page is now available in Spanish at www.seattlechildrens.org/pal



### For more information, contact:

#### Miranda LeMieux

MAPP-Net Grant Program Specialist
Family and Community Health Bureau
DPHHS, Children's Special Health Services
miranda.lemieux@mt.gov
406-444-7077

#### **KIM HART**

MAPP-Net Program Coordinator
Billings Clinic, Psychiatry
khart@billingsclinic.org
406-435-4556

MAPP-Net.org









This project is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of an award totaling \$2.2MM with 20% financed with nongovernmental sources. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by HRSA, HHS or the U.S. Government.