

UW Psychiatry & Behavioral Sciences

Working in Primary Care Settings: How can I work with PCPs to treat adult ADHD? Part 1: Clinical and Diagnostic Issues

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Presenter's Disclosure: Mark A. Stein

Source	Consulta nt/ Advisory	Stock	Speaker	Researc h
Medicie	х			
Genomind	x			
NIMH				x
Mind Medicine	х			
Myriad	x			

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Learning Objectives

Describe	Describe diagnostic challenges and strategies
Review	Review relationship of ADHD with Substance Use Disorders and Impact on Treatment
Identify	Identify opportunities to support PCP's and care managers in managing ADHD

 Increase familiarity with how ADHD presents in adults

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Prevalence of ADHD Across the Lifespan

- Children
 - 8-11%, depending on age and gender¹
- Adolescents
 - 75% of children with ADHD have the disorder as adolescents²
- Adults
 - National Comorbidity Survey Replication:
 4.4% prevalence of ADHD among US adults³
 - Only 11% of adults with ADHD are treated³
 - Self-report measures among adults applying for a driver's license: 4.7% prevalence⁴
 - Adult college students: 4% met DSM-IV criteria for ADHD⁵

1. Visser et al., *J Am Acad Child Adolesc Psychiatry*. 2014 : 53:34-46. 2. Wilens TE. *Psychiatr Clin North Am*. 2004;27:283-301. 3. Kessler R et al. *Am J Psychiatry*. 2006;163:716-723. 4. Barkley AR et al. *Pediatrics*. 1996;98:1089-1095.

5. Heiligenstein J et al. Am J Coll Health.1998; 46:185-188.

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Persistent Symptoms of ADHD Are Associated With Potentially Serious Consequences

Consequences of persistent inattention:

- 15–25% of children have poor academic outcome¹
- Almost 30% of ADHD subjects fail grades¹
- 46% of ADHD pupils suspended¹
- Lower occupational attainment; lower earning across SES levels

Consequences of persistent impulsivity:

- Four times as likely to have a sexually transmitted disease²
- Three times more likely to be currently unemployed²
- Twice as likely to have been arrested³
- 78% more likely to be addicted to tobacco³
- Five times more likely to have their license suspended²
- Lower life expectancy (suicide, CV, TBI)
 - 1. Barkley RA. *Attention-Deficit Hyperactivity Disorder. A Handbook for Diagnosis and Treatment*, 2nd ed. New York: Guilford Press;1998. Barkley RA. *J Am Acad Child Adolesc Psychiatry*. 2006;45:192-202. 3. Biederman J et al. *J Clin Psychiatry*. 2006;67:524-540.

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ADHD: DSM-5 Criteria

• American Psychiatric Association, 2013 ADHD is classified as a neurodevelopmental disorder:

A. Threshold level of symptoms of Inattention and/or Hyperactivity – impulsivity must be present for 6 months or more (5 in individuals \geq 17 years)

B. Several symptoms must be present before 12 years of age

C. Impairment from symptoms must be present in 2 or more settings (e.g. school, work, home, other)

D. Significant impairment: social, academic, or occupational

E. Symptoms must not be better accounted for by other mental (or physical) disorders



Inattention Symptoms and their Manifestation Across the Lifespan

Inattention-related problems and executive dysfunction represent leading reasons for seeking treatment in all age groups, and especially adolescents and adults.

DSM-5 Symptom Domain

- Difficulty sustaining attention
- Does not listen
- No follow-through
- Cannot organize
- Loses important items
- Easily distractible, forgetful

American Psychiatric Association, 2013; ADHD in Adulthood 1999, Weiss, Hechtman, and Weiss.

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Common Adult Manifestation

- Poor time management
- Difficulty
 - Initiating/completing tasks
 - Changing to another task
 - Multi-tasking
- Procrastination
- Avoids tasks that demand attention
- Adaptive behavior can mitigate
 - Self select lifestyle; Support staff

Hyperactivity Symptoms and their Manifestation Across the Lifespan

Aimless restlessness often migrates to purposeful restlessness in adolescents and adults; and is generally less impairing with

age.

DSM-5 Symptom Domain Squirms and fidgets Cannot stay seated Runs/climbs excessively Cannot play/work quietly

- "On the go"/
 "driven by motor"
- Talks excessively

American Psychiatric Association, 2013; ADHD in Adulthood 1999, Weiss, Hechtman, and Weiss.

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Common Adult Manifestation

- Adaptive behavior
 - Work long hours
 - Do many activities, multiple jobs or a very active job
- Constant activity/inability to settle down
- Avoids situations requiring low activity; easily "bored"

Often felt rather than manifested

Impulsivity Symptoms and their Manifestation Across the Lifespan

Impulsivity often decreases with age, but when present, often carries serious consequences.

DSM-5 Symptom Domain

- Blurts out answers
- Cannot wait turn
- Intrudes/interrupt s others

American Psychiatric Association, 2013; *ADHD in Adulthood 1999*, Weiss, Hechtman, and Weiss.

Common Adult Manifestation

- Low frustration tolerance
 - Quitting a job
 - Ending a relationship
 - Losing temper
 - Driving too fast
- Makes hasty decisions
- Impulsive aggression
 - Verbal predominates

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Workplace Difficulties in Adults With ADHD

ADHD in the Workplace



Weiss M, et al. Baltimore, MD: The Johns Hopkins University Press;

1999.

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Less Complicated ADHD: Previously Diagnosed

Those <u>diagnosed earlier</u>, whose symptoms and impairment persist (50-66% of ADHD youth)

- Shifting targets and duration, responsibilities
- Emerging comorbidities and risk factors
- Treatment history, attributions, tolerability issues
 - <u>Adherence</u>, participation or <u>engagement</u> has changed
 - Decreased monitoring, structure, scaffolding/supports
- <u>Accessing</u> treatment challenges
 - Medication provider
 - Psychosocial treatment
 - Individual
 - Family
 - Educational needs

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<u>Newly diagnosed</u> (more of a diagnostic challenge)

Hitting the wall

- Milder cases or those with compensatory skills/supports
 - helicopter parents, giftedness, small classrooms
 - Environmental factors-frequent moves, school issues
- Misattributions (red herrings) that delay identification and Rx
 - Trauma (ACES),
 - exposures,
 - mild anxiety, sensory disorder?
- More prominent comorbidity
 - Substance use or Conduct Problems
 - Depression (vs. demoralization)
 - Traumatic brain injury

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Adult ADHD

Suggested evaluation procedures:

- Physical Examination and labs
- Interview with patient
- Review of previous medical/educational records
- Orroborating data from medical or school records, parent, spouse, employer

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Pseudo ADHD-Mimics

- August Referrals
- COVID-19 specific
- Self identified without impairment
- Drug seeking

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--struggles to get things done, impulsive, difficulty focusing on schoolwork, having to reread things, turning things in. ..always been very social and talkative... own piercings and engaged in risky behavior, tried friends MAS

	Not at all, never	once in a while	Pretty nunch, officer	Vary smith, very frequently
I nemaindeenable ker I nemaindeenable			1000	00 00-00

CAARS-Observer Scale (Long Version) by C. Keith Conners, Ph.D., D. Erhardt, Ph.D., & E. P. Sparrow, Ph.D

		Not at all, never	Just a little, once in a while	Pretty much, often	Very much, ver frequently
34	is an underachiever.	0	6	2	2
15.	interrunts others when talking	6	ý		
16	changes plans to be in midstream	8	Ó		
7.	acts okay on the outside, but armears unsure of self	0	S	2	3
18	is always on the go		85	-	3
0	making commants or parameter that are exampled later	6	Q		3
ñ	can't get things done unlass there's an absolute deadline	18		2	3
ĩ	fidents (mith hunds or feet) or summers in cast	198	0.000	2	
5	makes cambers mistakes or has tranble paving close attantion to details	1 Ce	à		
2	thates on neonlo's trace without manning to	Ô	U	2	3
a.	has builded a statistical and a statistical and statistical an	185		2	3
2	has rouble getting started on a task.	18	1011010	2 C	3
2.	intrudes on others activities.	18	ere los e	2	3
2	appears to exert a great dear of enort when trying to sit siti.	18	S. 19 1990 C	2.0	3
	has unpredictable moods.	0	~ ~	2	3
a.	doesn't like academic studies/work projects where effort at thanking a lot is required.	1 °	0	5	3
2	is absent-minded in daily activities.	1 QQ	1	2	3
2	is restless or overactive.	0	1	5	S (1. 3 %)
1	depends on others to keep life in order and attend to the details.	8	0	2	3
2	unintentionally annoys other people.	0	1	2	3
з.	sometimes overfocuses on details, at other times appears distracted by everything	0			
	going on around him/her.	0	1	2	3
i4,	tends to squirm or fidget.	0	1	2	3
σ.	can't keep his/her mind on something unless it's really interesting.	0	Ð	2	3
6.	expresses lack of confidence in his/her abilities.	0	0	2	3
7.	can't sit still for very long.	0	1	2	3
8.	gives answers to questions before the questions have been completed.	0	1	2	3
9,	likes to be up and on the go rather than being in one place.	e e	D	2	3
0.	has trouble finishing job tasks or schoolwork.	0	1	2	3
١.	is irritable.	05	1	2	3
2.	interrupts others when they are working or busy.	0	1	2	3
з.	expresses lack of confidence in self because of past failures.	V	O	2	3
4,	appears distracted when things are going on around him/her.	0	1	2	300
5.	has problems organizing tasks and activities.	0	a	2	3
6.	misjudges how long it takes to do comathing or go computant	0	8	- 10 - 1 0 - 10	

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Screening Adults for ADHD

- The first 6 questions from the Adult ADHD Self-Report Scale (ASRS) correlate highly with diagnosis of ADHD.
- Individuals who note 4 or more of these symptoms at the shaded frequency levels should undergo a comprehensive assessment for ADHD

Adult ADHD Self-Report Scale (ASRS-v1.1) Symptom Checklist

Patient Name	Name Today's Date					
Please answer the questions below, rating yourself on each of the criteria shown using the scale on the right side of the page. As you answer each question, place an X in the box that best describes how you have felt and conducted yourself over the past 6 months. Please give this completed checklist to your healthcare professional to discuss during today's appointment.			Rarely	Sometimes	Often	Very Often
 How often do you have trouble wrapping up the final details of a proje once the challenging parts have been done? 	ect,					
2. How often do you have difficulty getting things in order when you hav a task that requires organization?	re to do					
3. How often do you have problems remembering appointments or oblig	ations?					
4. When you have a task that requires a lot of thought, how often do yo or delay getting started?	u avoid					
5. How often do you fidget or squirm with your hands or feet when you to sit down for a long time?	ı have					
6. How often do you feel overly active and compelled to do things, like y were driven by a motor?	/ou					

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The complete ASRS can be used to identify other ADHD symptoms during diagnosis and treatment. It can be found at www.med.nyu.edu/psych/psychiatrist/adhd.html.

Adult ADHD: Symptom Assessment Scales

Scale	Description/ Features/ Comments	Scale available from:			
Brown ADD Scale	Rates inattention/executive dysfunction; items extend beyond DSM definition of ADHD; good for high functioning adults with inattentive subtype	The Psychological Corporation			
Conners Adult ADHD Rating Scale (CAARS)	Large item set of developmentally relevant items; DSM subscale maps onto diagnosis; self- and other- report forms	Multi Health Systems, Inc.			
Wender-Reimherr Adult Attention Deficit Disorder Scale	Retrospective symptom scales provide age of onset data; less clearly tied to DSM-IV ADHD.	Fred W. Reimherr, MD, Department of Psychiatry, University of Utah Health Science Center, Salt Lake City, Utah			
Barkley's Current Symptoms Scale	Dimensional scale; uses actual DSM items but not re-worked for adults; rates behavior in the past 6 months; self and other informant reports.	Barkley RA, Murphy KR. Attention- Deficit Hyperactivity Disorder: A Clinical Workbook. Second Edition.			
Adult Self-Report Scale v1.1 (18-item symptom assessment and 6- item screener)	ADHD DSM items made developmentally relevant for adult manifestations of symptoms; rates frequency, not severity, on a 0 - 4 scale	www.med.nyu.edu/Psych/training/ adhd.html and the WHO website			
Adult Investigator Symptom Report Scale (AISRS)	Interviewer administered scale; 18 DSM-IV-TR ADHD criteria re- worked for adults; employs adult ADHD prompts to ensure adequate probing of breadth of adult symptoms.	<i>Lenard Adler, MD, Adult ADHD Program NYU School of Medicine adultADHD@med.nyu.edu</i>			

Indications for psychological or neuropsychological testing

 Learning Disorder (Reading Disability, Coordination Disorder)

College students, accommodations

- Cognitive deterioration in older adults
- Appropriate expectations, career planning
- Not indicated for diagnosis of ADHD



Wilens TE. Psychiatr Clin North Am. 2004;27(2):283-301. van Emmerik-van Oortmerssen K, et al. Drug Alcohol Depend. 2012;122(1-2):11-19.

Marijuana (MJ) and ADHD



- Most common "drug" used/misused in ADHD
- Second most common comorbidity in cannabis use disorder
- Associated with neuropsychological impairment
 - Acute effects
 - Chronic persistent executive dysfunction if initiated early

Wilens et al., J Am Acad Chld Adoles Psych: 2011; Am J Addict 2010: 16:14-23 Cooper et al. Eur Neuropsychopharm 2017: 27:795-808

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Marijuana (MJ) and ADHD



- No evidence of more self medication versus non-ADHD
- Treatment of ADHD with MJ
 - Largely case reports
 - RCT of 30 adults with ADHD. Use of oromucosal THC:CBD
 - Primary outcome: No cognitive or activity improvement;
 - Secondary outcomes: Negative to trends to improvement

Wilens et al., J Am Acad Chld Adoles Psych: 2011; Am J Addict 2010: 16:14-23

Cooper et al. Eur Neuropsychopharm 2017: 27:795-808

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ADHD Medication and SUD

- Largest database examining ADHD medication treatment and later SUD
 - Almost 3 million in the United States with ADHD
- Comparison of periods of medicated vs unmedicated ADHD individuals (*primary outcome*)
 - Males 35% lower risk: Treated periods < untreated periods for SUD risk (OR=0.65, CI 0.64–0.67)
 - Females 31% lower risk: Treated periods < untreated periods for SUD risk (OR=0.69, CI 0.67–0.71)
 - For first-only SUD incidents, medication was associated with 55% and 43% lower SUD events in males and females, respectively

Quinn PD, et al. Am J Psychiatry. 2017;174(9):877-885.

Strategies for ADHD and SUD

- In context to SUD, ADHD treatment should be considered.
 - If less severe SUD, treat ADHD concomitantly
 - More severe SUD --> address SUD
 - If unable to address or recalcitrant SUD ->use CBT, nonstimulants, extended-release stimulants (may need higher dose)
 - Stay tuned for guidelines regarding lower abuse liable stimulants and nonstimulants

Wilens and Morrison, ADHD & SUD In *ADHD in Children and Adults*, Cambridge Press, 2015 Kaminski and Wilens, Overlap of ADHD and SUD, in Textbook of SUD, 2019 in press

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CoCM for Adult ADHD?

- No studies have looked at using CoCM for Adult ADHD
 - 2 studies support its use in child and adolescent population (Meyers K et al, 2010; Silverstein M et al, 2015)
- Still worth considering
 - Often co-occurring with other MHDs
 - Will impair treatment efforts
 - Significant need
 - 2.58% prevalence of persistent symptoms
 - 6.76% symptomatic

Song P et al 2021

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CC Principles & ADHD



- Helps provide evaluation and treatment
- Use of Registry. Helps identify trends. Avoid losing track of patients.
- ???
- Evidence based therapy and Medication Assisted Treatment support.
- How are things going? System QI.

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Principles 2021, University of Washington University of Washington University of Washington Angle Regizer, 2016, During and States a

Good Fit for CoCM?

Evidence Based Treatment

- Pharmacotherapy
 - May need to support PCPs use of stimulants
- CBT for ADHD



Challenges & Opportunities?

- Diagnostic evaluation
 - Not quick
 - Part of program?
- Who to include?
 - Scare resource
 - Not everyone needs team-based care
 - Stepped care?
 - Co-occurring disorders?
- Measurement based care
 - No clear PHQ9

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Establishing a Diagnosis in Collaborative Care An Iterative Process



Summary

- CoCM has clear potential
- ADHD is an important diagnosis to treat
- Primary care needs help
- Limited resource

