Brown EF/A Case Studies

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Pearson Case Examples Using the New Brown EF/A Scales with Various Age Groups and Comorbidities



Presenter and Author



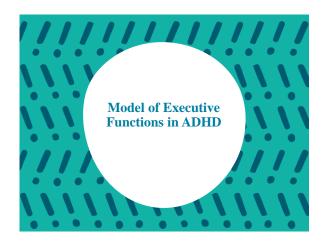
BROWN EXEDENCE FUNCTION ATTENTION SCALES.

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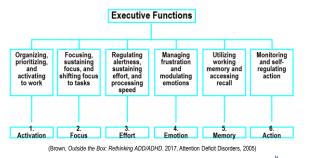
Thomas E. Brown, PhD Department of Psychiatry, Keck School of Medicine University of Southern California.

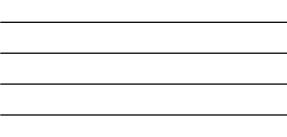
Author of the Brown Attention-Deficit Disorder Scales® (Brown ADD Scales) (1996, 2001) and the New Brown Executive Function/Attention Scales (Brown EF/A Scales)

Welcome Everybody!



Brown's Model of Executive Functions Impaired in ADHD





1. Organize, Prioritize, and Activate

BROWN SCALES.

- · Difficulty organizing tasks, materials
- · Difficulty estimating time, prioritizing tasks
- · Trouble getting started on work

(Brown, Outside the Box: Rethinking ADD/ADHD. 2017, Attention Deficit Disorders, 2005)

2. Focus, Shift, and Sustain Attention

BROWN SCALES.

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- Loses focus when trying to listen
 or plan
- · Easily distracted-internal/external
- Forgets what was read, needs to re-read

(Brown, Outside the Box: Rethinking ADD/ADHD. 2017, Attention Deficit Disorders, 2005)

3. Regulating Alertness, Effort, and Processing Speed

BROWN
EXEDUTIVE FUNCTION/ATTENTIO
SCALES

- · Difficulty regulating sleep and alertness
- Quickly loses interest in task, especially longer projects; doesn't sustain effort
- Difficult to complete task on time, especially in writing-"slow modem"

(Brown, Outside the Box: Rethinking ADD/ADHD. 2017, Attention Deficit Disorders, 2005)

4. Manage Frustration, Modulate Emotion

BROWN SCALES.

(Not included in DSM-5 criteria)

- · Emotions impact thoughts, actions too much
- Frustration, irritations, hurts, desires, worries, etc., experienced "like computer virus"
- · "Can't put it to the back of my mind"

(Brown, Outside the Box: Rethinking ADD/ADHD. 2017, Attention Deficit Disorders, 2005)

5. Utilize Working Memory, Access Recall SCALES.

Difficulty holding one or several things "on line" while attending to other tasks

- · Difficulty "remembering to remember"
- Inadequate "search engine" for activating stored memories, integrating these with current info to guide current thoughts and actions

(Brown, Outside the Box: Rethinking ADD/ADHD. 2017, Attention Deficit Disorders, 2005)

6. Monitor and Self-Regulate Action

BROWN SCALES.

110

(Not just hyperactivity/impulsive behavior)

- Difficulty controlling actions, slowing self and/or speeding up as needed for tasks
- · Doesn't size up ongoing situations carefully
- Hard to monitor and modify own actions to fit situation/aims

(Brown, Outside the Box: Rethinking ADD/ADHD. 2017, Attention Deficit Disorders, 2005)



Cluster and Composite Scores: T Scores



- T scores indicate the distance of scores from the norm group mean.
 Standard scores with a mean of 50 and a standard deviation (SD) of 10.
 T score of 80 indicates that the individual's score is 3 SDs above the norm group mean, and a T score of 30 is 2 SDs below the mean.
- T scores for the Brown EF/A Scales are non-normalized linear transformations of raw scores, so they preserve the shape of the raw-score distributions, some of which are significantly skewed.

able 3.1 Cluster and Composite Score Classification			
T-score range	Classification		
70 and above	Markedly atypical (very significant problem)		
60-69	Moderately atypical (significant problem)		
55-59	Somewhat atypical (possibly significant problem)		
54 and below	Typical (unlikely significant problem)		



Meet Harper

5 year old male; Preschooler

Presenting complaint: Removed from preschool due to excessive impulsivity and hyperactivity. Restless, difficulty staying in seat for more than a couple of minutes. Chronic difficulty falling asleep.

Teachers: Feared he may injure himself or others when frustrated.

Mother: Worried he may accidentally hurt his younger sibling.

113

Summary Score for

Harper Activati Parent 70 Teacher 72





Meet Emma

7 year old female; 2nd grader

School (and after care): Behaves reasonably well.

Home: Adopted at birth; biological mother addicted to drugs. Extreme oppositional behavior with frequent tantrums throughout the day. Frustration triggers verbal and physical outbreaks toward mother.

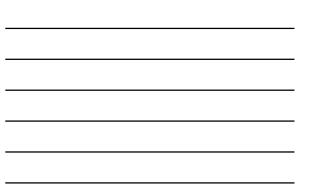
Mother: Reacts with anger then takes refuge in the bathroom.

Summary Score for

70 53

Emma • Parent • Teacher







Meet Sofia

8 year old female; 3rd grader

Presenting complaint: Problems with sustaining attention, excessive forgetfulness, and slow task completion.

School: Strong academically in all areas, but dislikes school "because it is so boring".

Home: No issues, but uses somatic complaints to resist going to school

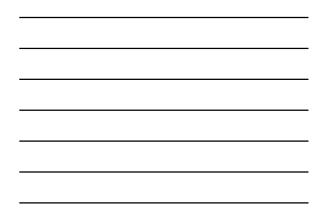
117

Self: Does not want others to look at her

Summary Score for

Sofia	
00111	Parent
	Teacher
	Self-Rep







Meet Robbie

10 year old male; 5th grader Tall and overweight for his age

School: Appears unhappy and preoccupied. Bright, good grades, but doesn't complete written assignments or homework.

Self: Complains of being teased at school because of weight.

Home: Spends hours playing video games; only play dates with younger cousin

Parents: Worried about his isolation and transition to middle school

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Summary Score for Robbie

Activation Parent 64 Teacher 71 Self-Report 73



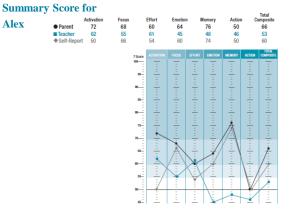


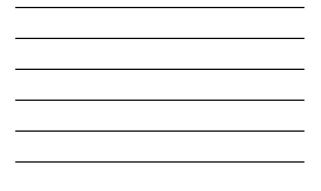
Meet Alex

13 year old male; 7th grader

Presenting complaint: Trouble transitioning to middle school. Has had difficulty keeping track of assignments in subjects that require memorization (Spanish and Social Studies)

Self: Trouble putting his "good ideas" on paper. He has to get each sentence to sound "just right" before he can write the next sentence.





Meet Daniel

16 year old male; 10th grader

Presenting complaint: Requested evaluation because of declining grades despite many hours of study each day. Outstanding athlete, star soccer player.

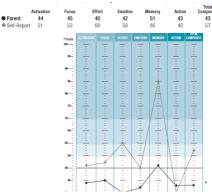
Self: complains he studies for a test and has answers when quizzed at home before a test, but then can't recall answers the next day in class. He also complains of difficulty in recalling what he has just read, unless it's very interesting.

123

Summary Score for

Parent

Daniel







Meet Kendall

19 year old male; College Freshman

Presenting complaint: Sluggish and depressed in evaluation. Diagnosed with ADHD in 9th grade, responded well to medication, parental support and tutoring.

Home: Parents brought him for evaluation because he failed all but one of his courses during his first semester.

Self: Stopped taking medication in college but selfmedicating with daily marijuana use and episodic drinking.

125

Summary Score for

Kendall

Activation Self-Report 80	Focus 72	Effort 80	t	Emotion 63	Memo 85		Action 56	Total Composi 75
	TScore	ACTINATION	FOCUS	EFFORT	EMOTION	MEMORY	ACTION	TOTAL COMPOSITE
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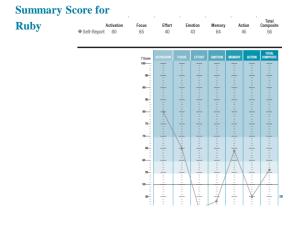


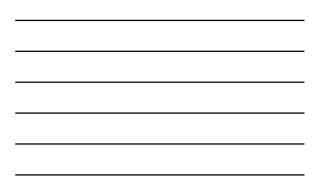
Meet Ruby

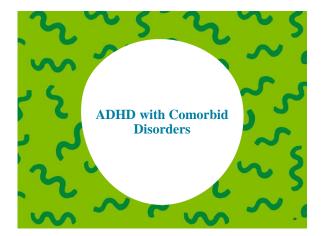
43 year old female, ICU RN

Presenting complaint: Successful and respected RN for several years. Promoted to Nurse Manager, after which she began to feel overwhelmed by administrative duties

Home: Her 15 year old daughter had been diagnosed with ADHD one year earlier and responded well to medication, but Ruby had no previous history of ADHD in earlier years.







BROWN **ADHD Is a Complex Disorder Often Complicated by Comorbidity**

SCALES.

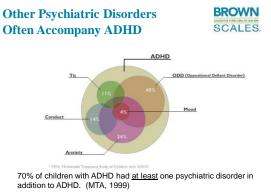
- In 50-70% of cases, ADHD is further complicated by one or more additional psychiatric or learning disorders
- Not only is it possible to have another • disorder with ADHD, it is 6 times more likely in lifetime than for those without ADHD

Pliszka SR, et al. ADHD with Comorbid Disorders; 1999. Brown TE. Attention-Deficit Disorders and Comorbidities in Children, Adolescents, and Adults; 2000.

Types of Comorbidity

BROWN SCALES.

- 1. Cross-sectional (within past 6-12 mos)
- 2. Lifetime (ever within entire life)
- 3. Dynamic (waxing and waning)
- 4. Subthreshold (impairing w/o full criteria)



Comorbidity in MTA study



- · Did not include learning disorders
- Selected only combined type ADHD
- Included only 7-9 yo children
- · Cross sectional (6-12 mos)

Lifetime Psychiatric Disord Adolescents (13-18 yrs) (n=10,12		BROWN SCALES.	_
 Any mood disorder 	14.3%		
 Any anxiety disorder 	31.9%		
 Any behavior disorder 	19.6%		
 Any substance use disorder 	11.4%		
 Eating Disorders 	2.7%		
Any disorder	49.5%		
1 class: 58% 2 classes: 24% 3+ c	classes: 18%)	

Merikangas, et al, 2010

Psychiatric Comorbidities	
in adults with ADHD	

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EXEOPTIVE	2110	11105	ION

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	12 mo.		Lifeti	Lifetime		
	%	OR	%	OR		
Any mood	25.5	3.5	45.4	3.0		
Any anxiety	47.0	3.4	59.0	3.2		
Any substance	14.7	2.8	35.8	2.8		
Any impulse ¹	35.0	5.6	69.8	5.9		
Any psychiatric	66.9	4.2	88.6	6.3		

¹impulse ⁼ antisocial pd, ODD, CD, Intermittent explosive disorder, bulimia, gambling

Ntnl Comobidity Survey-Replication data presented by R.Kessler at APA, 5/1/04)

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An Alternative Theory of Comorbidity

BROWN SCALES.

- ADHD = developmental impairment of executive functions
- · ADHD is not just one disorder among many
- ADHD is a foundational disorder that crosscuts other disorders
- · ADHD increases risks of other disorders

Anxiety & Depression with ADHD

	Childre
Anxiety	9%-34
Depressive	14%-2
Disruptive Mood Regulation	??1

Adults en 1% 28%-47% 22% 38%-63% ??? ???

Many individuals have more than 1 with ADHD

- Treat most acute problem first (suicidal, veg, panic)
- Medications may worsen or alleviate anxiety/irritability
 Watch "attentional bias" & working memory in both

Bipolar Disorder with ADHD

BROWN SCALES.

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BROWN

SCALES.

Children Adults Bipolar 2-21% 3-17%

- · Estimated rates vary widely depending on operational definition, especially re: requiring episodicity
- Involves not only ability to regulate emotions, but also to a) inhibit and manage actions b) manage arousal
 If level of arousal is chronically too high or exacerbated by
- stimulants, guanfacine or mood stabilizers may be preferable.
- If needed, stimulants may be added when mood/arousal are stabilized

ADHD	Bipolar
+/	+++
++	+++
++	+++
+/	+++
+	+++
-	++
Legend	
+ = Presence - = Absence ++ = More present +/- = May be present +++ = Most present	*
	+/- ++ ++ + - <u>Legend</u> * = Preserve * - Abserve * - May be present

Differentiating ADHD & Bipolar Disorder BROWN SCALES.

In: Hendren, ed. Disruptive Behavioral Disorders in Youth. APA Press; Washington, DC; 1998.

Oppositional Defiant Disorder with ADHD



- · Chronically angry/irritable
- · Defiant, headstrong; Vindictive
- Incidence 35-50% (usually combined type ADHD)
 May be quick/impulsive or sullen/sustained Not just feelings,
 - overt verbal/physical actions
 Onset usually ~ 12 yrs; Duration ~ 6 years >70% not CD by 18 yrs; Most never dx CD
- · May respond to stimulants and/or guanfacine

Conduct Disorder with ADHD

BROWN SCALES.

- Adolescent lifetime incidence = 6.8%
- Serious delinquent behavior: Physical cruelty to people, theft w/confrontation of victim, fire-setting, persistent truancy
- · Higher risk of substance use disorder
- · Stims and/or guanfacine maybe useful

ADHD + Sleep/Arousal Problems

BROWN SCALES.

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Falling asleep, awakening, daytime alertness

- May be primary, or secondary to other disorders: MDD, anxiety, substance abuse, sleep apnea
- Late afternoon stimulant dose may cause or help dfa
- Assess sleep schedule and sleep "hygiene" consider anxiety, breathing problems, OSA

dfa: Melatonin, Benadryl, clonidine, Klon

daw: In-bed stim dose 1 hr before get-up; small dose of Daytrana MPH patch during night

OCD with ADHD

BROWN EXECUTE VALUES

143

BROWN

SCALES.

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Normal obsessions/compulsions vs disorder (OCD in 10-30% of ADHD v 4%)

- Obsessions: variable "overfocusing"
- Compulsions: rituals/ perseveration"
- · Excessive perfectionism, e.g. in writing
- Stims may worsen
- SSRI useful for OCD, not for ADHD
- Stims + SSRI or clomipramine and/or behav tx for OCD

Substance Use Disorders with ADHD

Odds ratio for SUD in adults with ADHD

•	Nicotine	2.4-2.8
•	Alcohol	1.4-1.7
•	Marijuana	1.5-2.3
•	Cocaine	2.05
•	Any SUD	2.6-3.4

ADHD meds alone do not alleviate SUD Childhood med tx for ADHD may reduce risk Education & 12 Step Programs "clean" before med treatment: How long?? "Abstinence" vs "Harm Reduction" rehab vs outpatient relapse prevention

Autism Spectrum Disorders with ADHD

Prevalence and Symptoms

- 20-50% of those with ADHD have ASD
- If signif. ADHD sx in ASD, consider ADHD tx •
- Significant social impairment (poor in: empathy, non-verbal communication, developing friendships); pragmatic language; and all-absorbing interest

Treatment and Support

- Based on spectrum of sx severity & cognitive abilities
- Need school supports
- Social skills instruction • Stimulants->ADHD sx (titrate cautiously)->ATX
- ?SSRI for OCD, anxiety

Differential Dx vs Multiple Diagnoses

BROWN SCALES.

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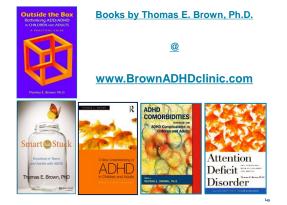
SCALES.

- Multiple perspectives on presenting sx and priorities: (Pt view? Others' Views)
- · Time frames for presenting sx?
- Aspects of functioning going OK?
- · Wide screen for possibly related disorders
- Which meet full dx criteria? Impairment?
- <u>Either/or</u> vs <u>Both/and</u> ---> Priorities??

Complicated ADDs

SCALES.

- Expect complications in >50% cases
- ٠ Complicating factors often interact
- Family stress: contributory & reactive ٠
- Individual problems may mask other problems
- Setting may make big difference +/-•
- . Monitor meds carefully, ?change/combine
- Attend to health as well as illness
- Improvement is often slow and mixed •



Questions or Comments





ALWAYS LEARNING

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