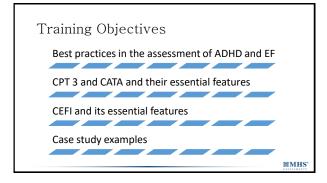




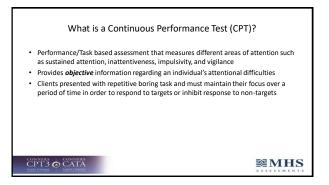
the publisher of the assessment tools that we will be discussing today. Rating scales should not be used as the sole basis for making a diagnosis or educational eligibility decision.

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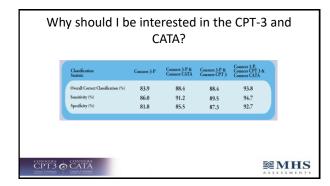


Why should we be interested in utilizing the Conners CPT-3 and Conners CATA?

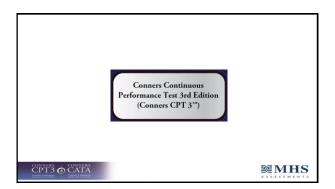
- · Objective measure
- Performance based task: engages students/patients/clients and helps build rapport
- Helps pinpoint type of attention problem
- Increases diagnostic and classification accuracy when paired with other assessment measures

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CPT3 O CATA
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Conners CPT-3 Key Features

- Ages 8+; assesses attention related problems
- 14 minutes; in addition to 1 minute practice test
- Non-X paradigm: ignore X and respond to all other targets
- High proportion of targets to non-targets
- Varied time intervals between targets (1, 2, or 4 sec ISI)
- By-Block statistics (6 blocks with 60 trials each)
- Practice Test
- Can be part of a battery of assessments for ADHD and other disorders/neurological problems characterized by attention problems

CPT3 O CATA

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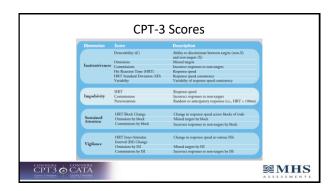
- 1. Inattentiveness
- 2. Impulsivity
- 3. Sustained Attention
- 4. Vigilance
- Validity Check
- Response Style Analysis:
 - Liberal
 Conservative
 - 3. Balanced

CPT3 O CATA

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	CPT 3 Scores						
	Variable	Description					
	c	Assesses Response Style					
	ď	Ability to discriminate between targets (non-X) and non-targets (X) $% \left({{{\bf{x}}_{i}}} \right)$					
	Omissions	Missed targets (non-3)					
	Commissions	Incorrect responses to non-targets (X)					
	Perseverations	Random, repetitive, or anticipatory responses (i.e., HRT < 100ms)					
	Hit Reaction Time (HRT)	Response Speed					
	HRT SD/Variability	Response Speed Consistency					
	HRT Block Change	Change in HRT across blocks of trials					
	HRT ISI Change	Change in HRT across ISIs					
CPT3 CAT	CA.		≋MHS				





Administration Hardware and Software Requirements Intel Core i3 or equivalent performance (recommended) 2 GB Ram Windows XP or higher

- 1 available USB port
- 12" monitor or larger with minimum resolution of 1024 x768 pixels
- Wired mouse or keyboard

CPT3 O CATA

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CATA Key Features

- Ages 8+
- Assesses auditory attention and attention problems
- · Can be used on its own or as a compliment to the CPT-3 in an assessment battery
- 14 minutes, 200 scored trials, divided into 4 blocks
- · Consists of two basic sounds: a low tone and a high tone
- On 80 percent of the trials, the low tone is played first followed by a high tone (warned trial). High tones on warned trials are the targets (AX paradigm)

CPT3 O CATA

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CATA-Key Features

- On remaining 20 percent of the trials, a high tone is played alone without the low tone (unwarned trial). High tones on unwarned trials are non-targets.
- On most warned trials, the two tones are played sequentially in same ear (non-switch trial)
- On some warned trials, the two tones are played in opposite ears (switch trials)

CPT3 O CATA

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What does the Conners CATA measure?

- Assesses auditory processing and attention-related problems in individuals aged 8 years and older
- · Examines three dimensions of attention:
 - 1. Inattentiveness 2.
 - Impulsivity З. Sustained Attention
- Examines two dimensions of auditory processing:
- 1. Auditory Laterality
- 2. Auditory Mobility
- Validity Check
- Response Style Analysis: 1. Liberal
- Conservative 2.
- 3. Balanced CPT3 O CATA

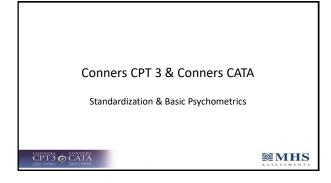
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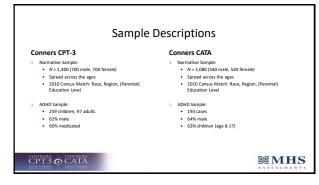
	Conr	ners CATA Scores				
	Variable	Description				
	с	Assesses Response Style				
	ď	Ability to discriminate targets (warned high tone) from non-targets (unwarned high tone)				
	Omissions	Missed targets (warned high tone)				
	Commissions	Responded to non-targets (unwarned high tone)				
	Perseverative Commissions	Responded to low sound/Responded before the high sound				
	HRT	Hit React Time				
	HRT SD	Response Speed Consistency				
	HRT Block Change	Change in HRT across blocks				
	Laterality	HRT & Hits % Left vs. Right Ear (Preference for left vs. right targets)				
	Mobility	HRT &Hits% on Switch vs. Non Switch Trials (Ability to switch attention from one ear to another)				
CPT3 O CA	CPT 3 🕝 CATA					

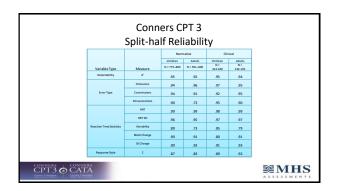


	Detectability (d')	Ability to discriminate targets (warned high tone) to non-targets (unwarned high tone)
	Omissions	Missed targets
Inattentiveness	Commissions	Incorrect responses to non-targets
	Hit Reaction Time (HRT)	Response speed
	HRT Standard Deviation (SD)	Response speed consistency
	HRT	Response speed
Impulsivity	Commissions	Incorrect responses to non-targets
	Perseverative Commissions	Incorrect responses before targets
	HRT Block Change	Change in response speed across blocks of trials
Sustained	Omissions by block	Missed targets by block
Attension	Commissions by block	Incorrect responses to non-targets by block
Auditory Laterality	HRT & Hits% Left vs. Right Ear	Preference for left vs. right targets
Auditory Mobility	HRT & Hitt% on Switch vs. Non Switch Trials	Ability to switch attention from one ear to the othe

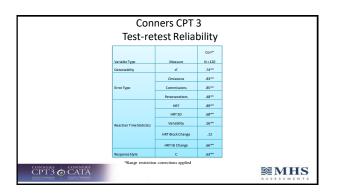












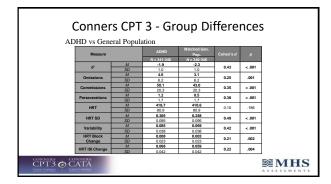


			native	Clin	
		Children N = 565-		Children N =	
iable Type tectability	Measure d'	.97	480	.96	66
	Omissions	.97	.98	.96	.9
Error Type	Commissions	.99	.99	.93	.8
	Perseverations	.99	.99	.99	.9
	HRT	.91	.93	.98	.99
eaction Time Statistics	HRT SD	.86	.90	.81	.95
	Block Change	.96	.95	.90	.92
Response Style	с	.90	.93	.91	.90



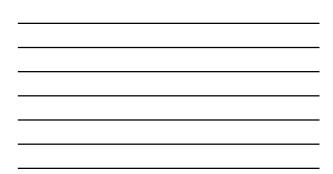
	CATA Test	-retest Relia	ability	
			Corr*	
	Variable Type	Measure	N =120	
	Detectability	ď	.74**	
		Omissions	.65**	
	Error Type	Commissions	.72**	
		Perseverations	.95**	
		HRT	.56**	
	Reaction Time Statistics	HRT SD	.63**	
		HRT Block Change	.12	
	Response Style	с	.14	
*Rai	age restriction corrections applied			
CPT3 O CATA				MHS







ADHD v	s Genera	l Popula	tion					
				Matched General Population			Cohen's d	
			N = 183-193	N=190-193	1			
	6	м	-2.4	-3.2	36.6	<.001	0.57	
		SD	1.5	1.3	30.0	<.001	0.57	
	Omissions	м	6.5	5.4	1.2	.274	0.10	
	Chinadona	SD	13.1	12.1			0.10	
	Commissions	м	19.0	8.2	43.9	<.001	0.63	
	commissions	SD	17.9	16.5		0.001	0.03	
	Perseverative	м	7.7	3.8	7.6	.005	0.25	
	Commissions	SD	15.5	14.3	1.0		0.10	
	HRT	м	693.6	658.1	2.9	.089	0.16	
	ma	SD	230.7	212.6				
	HRTSD	м	0.350	0.303	13.8 <.001	- 001	0.35	
	TIKT 3D	SD	0.140	0.129		0.25		
н	RT Block Change	м	0.017	0.007	1.8	.182	0.13	
	min bock change	SD	0.082	0.077	1.0 .104			



7 Step Interpretation Process

Step 1: Determine Validity of the Administration

Step 2: Review Response Style Analysis

Step 3: Examine the Overview of Scores

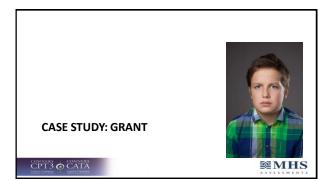
Step4: Review the Overall Summary and Clinical Likelihood

Step 5: Examine the Individual Dimensions of Attention Step 6: Integrate Results with Multiple Sources

Step 7: Report Results

CPT3 CATA

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Case Study

- Grant S.
- 10-year-old boy
- · Fell behind in school work
- Often seemed distracted and had
 problems remembering learned materials
- Some ADHD in family history
- Tested for attention deficits using CPT 3
 and CATA



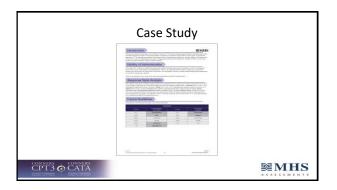
CPT3 O CATA

Assessment Plan

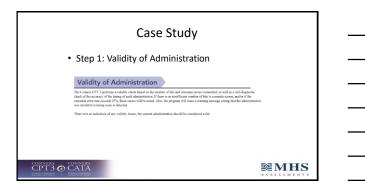
- 1. Clinician to review all available information
- Obtain primary and differential diagnosis as well as to establish a general picture of Grant's mental and overall health status
- Administer the following assessments: Conners CPT 3, Conners –March Developmental Questionnaire (CMDQ), Conners 3rd Edition (Conners 3-Parent, Teacher, Self), Conners CATA
- 4. Systematic clinical interview

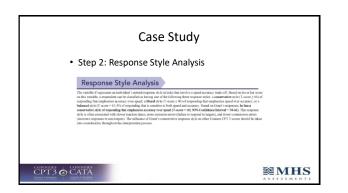


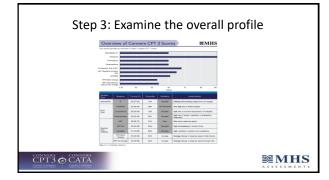


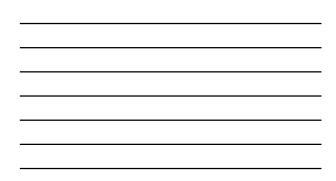




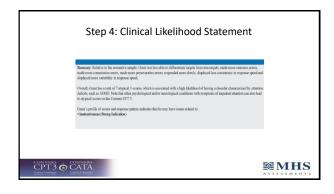


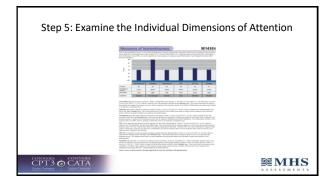




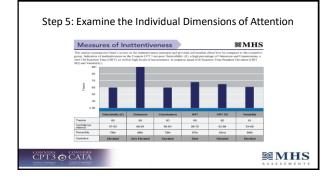


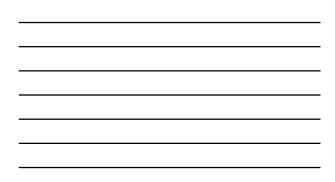
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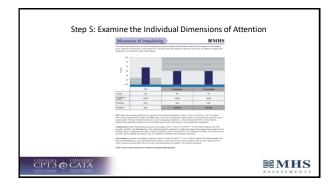




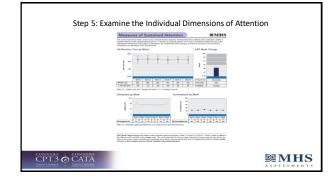




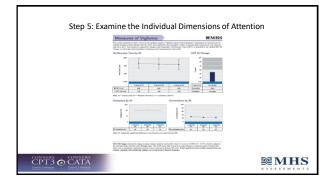
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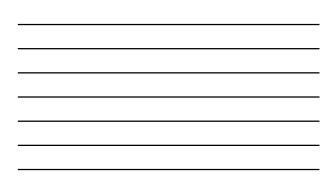












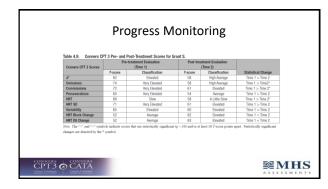
Step 6: Integrate Results from Multiple Sources

- <u>CPT3:</u> problems with inattentiveness
- <u>CMDQ</u>: Grant's Uncle diagnosed with ADHD.
 Conner 3 (P. T. S): Results suggest problems with a suggest problems with a suggest problems.
- Conner 3 (P, T, S): Results suggest problems with inattention. Impairment items related to schoolwork/grades were endorsed.
 Conners CATA: problems with inattentiveness
- <u>Interview</u>: difficult to get Grant to conduct homework, careless when following instructions. Described Grant as shy and anxious in some situations.
- Observations: Observations during assessment corroborated reports.
 Disagnosis: Utilizing this combined information to guide diagnosis, the clinician decided that Grant met criteria for a primary diagnosis of ADHD Predominantly Inattentive Presentation.



CPT3 © CATA







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• Very similar structure to the CPT 3 report

· Offers additional information about auditory laterality and mobility

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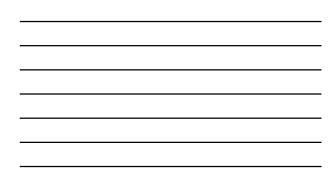
- For age 4-7
 7.5 minutes; 200 trials + <u>1 dummy trial</u>
 Pictures of objects familiar to young children.
 75% targets (everything except soccer ball)
 Presentation speed (Inter Stimulus Interval) can vary: 1.5 or 3.0 seconds
 Results can by broken down into blocks: 5 blocks with 40 trials each
 Dimensions of Attention Measured:

 Inattentiveness
 Sustained Attention (new)
 Vigilance (new)

CPT3 CATA

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	K-CPT 2	CPT 3
Admin Time	7.5 minutes	14 minutes
Stimuli	Pictures of common objects	letters
ISIs	1.5 & 3 seconds	1, 2, & 4 seconds
Stimuli Display Time	500ms	250ms



Reference	S
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Conners, K. (2014). Conners Continuous Performance Test 3rd Edition and Conners Continuous Auditory Test of Attention: Manual. Toronto, Ontario, Canada: Multi-Health Systems.

Dawson, P. (2014). Best practices in assessing and improving executive skills. In P. Harrison, & A. Thomas, Best practices in school psychology student-level services (pp. 269-266). Bethesda, MD: Natural Association of School Psychologists.

Goldstein, S. & Naglieri, J. A. (2013). Comprehensive Executive Function Inventory (CEFI):Technical manual. Toronto, Ontario, Canada: Multi-Health Systems.

Tobin, R., Scheider, W. & Landau, S.(2014). Best practices in the assessment of youth with attention deficit hyperactivity disorder within a multitiered services framework. In P. Harrison, & A. Thomas, Best practices in school psychology data-based and collaborative decision making (pp. 391-404). Bethesda, MD: National Association of School Psychologists.

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