



Overview and Disclaimer

- The two Interpretive Report pdfs are linked in the chat box for the case studies being discussed
 If you would like to ask a question, please submit it using the Q&A box and not the chat box
 We will try to get to as many questions today as we can, but may need to follow-up via email

- Structure of the presentation

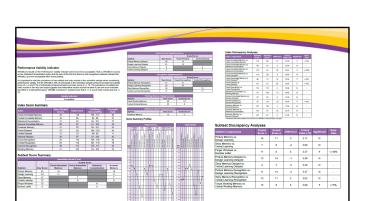
 Overview of Interpretive Report layout

 1st case will be discussed by the authors with a short pause to answer any questions

 2st case will be discussed by the authors

 Any questions about the 2st case or any non-case specific questions will be answered as time allows

Overview and Disclaimer Disclaimer: Wayne Adams and David Sheslow are co-authors of the WRAML2 and WRAML3 and as such they receive royalties on the sales of test materials and scorings from Pearson.



General Immediate Memory Index	
Visual Immediate Memory Index	
Picture Memory	
Process Scores (Commission Erro	nrs)
Design Learning	5.5,
	Learning Slope/Quadrant Analysis
- FIOCESS SCOTES (IIIdIVIdual IIIais)	Process Scores - Story Memory
he Picture Memory subtest measures immediate recall of contentual visual information. WRAML3 earned a called score of 14 on this subtest, which is in the very high score range. It is important to examine the ommission Errors score along with the scaled score for this subtest.	Raw Succe Scaled Score
iven this level of performance, WRAML3 is expected to remember meaningful visual information noticeably effer than same-age peers, and this may be evident for everyday tasks such as immediate recall of the content	Verbalim 5 4 Gist 12 8
pictures or diagrams on a prior page or a computer screen. Comparing Picture Memory performance with esign Learning and Finger Windows performance may yield hypotheses as to WRAML3's recall of meaningful reuse nonreamingful visual information.	Process Scores - Individual Story Comparison
rocess Scores - Picture Memory	Scaled Scaled Cofference Volume (.10) Significant Base Rate
Raw Score Mean (SD) Base Rate commission Snors 9 3.4 (2.5) c=5%	Story A vs. Story B 9 5 4 3.31 Y <=10%
omnission Errors	Story A.vs. Story B. Comparison Scaled scores are provided for each of the two stories administered for the subtest, which allows examination of
he Commission Errors score provides a measure of disinhibited responding or random responding. Because the	consistency of narrative recall.
icture Memory subtest does not penalize examinees for errors, overresponding can inflate the Picture Memory love.	The performance between the stories is inconsistent so interpret the Story Memory subtest cautiously as an estimate of WRAMLS's immediate verbal contextual recall. Also consider inconsistent alterition, verbal memory encoding or effort as utilizatative influences when interpreting this relatively influences countries. This is
IRAMIL3 made a total of 8 commission entrick), which is very high compared to same-age peers and warrants suction when interpreting the Picture Memory score, because it is likely inflated due to excessive guessing or spublive responding.	puricularly relevant when there are large sections of a story emitted.
Structure repeated for Verbal Memory Index a	and its subtests (Story Memory and Verbal Learning)
	Windows/Number Letter/Sentence Memory

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•	• [ıl De Pictu Desi	laye ire N gn L	d N Ven earr	lemonory	ory I Dela Dela	nde ayec yed	x and Immediate vs Delayed Recall comparisons and Immediate vs Delayed comparisons x (with subtests and comparisons to Delayed Recall subtests)
:	Working I • Visua	Men Il an	nory d Ve	Ind	lex			repeats Delayed Recall structure emory and Discrepancy Analysis Washing Manney Judes
	Picture Memory et. Picture Memory et. Picture Memory Deligand	Scaled Score 1	Scotted 2	Officeron	Value L101	Name of Street	Fond State	The Working Memory Index provides an estimate of short-term recall in which executive functions are needed to use and modify the original information. The Working Memory Index is derived from the scaled scores canned on
	Design Learning in. Design Learning Delayed	11	14	-3	277	v	0.5%	Verball Working Memory and Visual Working Memory. Performance between the Verball Working Memory and Visual Working Memory was inconsistent findicated by a
	Story Memory vs. Story Memory Delayed	2	4		276	v	119%	statistically significant difference and a base rate of <-5%), interpret the Working Memory Index as an overall
	Verbal Learning vs. Verbal Learning Delayed	9	7		3.26	N		estimate of working memory with extreme caution. Information at the contributing subtest level may be helpful in further characterizing WINAML's working memory functioning.
	Now footed acres for histed parring the some for these solutions. Interpret applica acres and above ranges with carbon. General Delayard Index. The General Delayard Index is an interpretable manager audited to be.			many bringer	and Design Learns	y Origini con	in te tu	WHAMAS centred a standard source of Cor, on this index, which is in the average source range, MRAMAS is overall performance on the Wilder Heavines losses required delibers in relating and mentally manipulating visual and vertical information to complete a test smaller to same-age power.
	defined from the scores earned or WIAAA, I's performance on the in-	the Veusi D	mayed and it	erbai Cellaye	nd indexes.			Visual Working Memory
	Indicated by a statistically signific index should be interpreted with a the discrepancy the more significa- discussed in the trafes Discrepancy	et diference drame cauto et the difference y toutone so	and bone of a so an eath or befores when of this	eral co2fc): sale of overs source, clinic mount, A. no	es, consequent at longer-term o cal implications on magnitude.	ly, the Clener roal, in game for these resi maturity may	of Delayed rai, the wide officiare lie in	average score range.
	examining the contributing index a and weaknesses. WRAM,3 earned a standard scon General Delayed Index score with	of 17 on this	index, which	is in the pu	enge soore ne	ge. Evanine	es earning a	Compared to same upo pears, WREARLS demonstrates shreights in the ability to recall and manipulate visual information. This suppeats good functioning with basis requiring visual reasoning, including some areas of mathematics (e.g., geometry) and early reading skills.
	information over time comparable information from short-term to long	tem menor	y and retirev	t efficiently	y on demand.	priste capeo	ty to handle	Copyright © 2022 NCS Pearson, Inc. or its affiliates. All rights reserved.

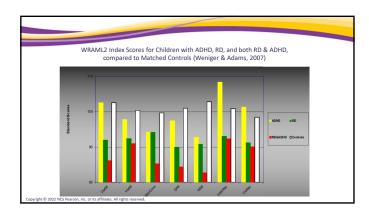
				_	
Listing of Important Re	ported Fir	ndings			Interpretations of Index Discrepancy Analyses
Index Comparisons	Standard Score 1	Standard Score 2	Difference	Base Rate	General Immediate Memory Index vs. General Delayed Index
Visual Immediate Memory vs. Verbal Immediate Memory	115	88	27	<=5%	WRAML3's performance on the General Immediate Memory Index and the General Delayed Index were comparable (indicated by a statistically norsignificant difference and high base rate). This suggests that WRAML3's overall level of delayed recall is at a comparable level as overal immediate recall.
Visual Immediate Memory vs. Attention/Concentration	115	91	24	<=10%	WRONILS S OVER III REVELOT GEORGE TECHT IS ALLA COMPANIADE REVEL AS OVER III III III III III III III III III I
Verbal Immediate Memory vs. Verbal Delayed**	88	73	15	<=5%	Screener Memory Index vs. Attention/Concentration Index
Visual Delayed vs. Verbal Delayed	121	73	48	<=2%	The difference between WRAML3's performance on the Screener Memory Index and Attention/Concentration linear was not found to be statistically or clinically significant. This finding suggests that, overall, WRAML3's leve of immediate recall ability on sequential, rote visual and verbal tasks is commensurate to that on visual and verb
Seneral Delayed vs. General Recognition	97	115	-18	<=5%	immediate memory tasks composed of more meaningful and complex material.
Subtest Comparisons	Scaled Score 1	Scaled Score 2	Difference	Base Rate	Screener Memory Index vs. Working Memory Index
Finger Windows vs. Number Letter	- 11	6	5	<=10%	WRAML3's performance on the Screener Memory Index and Working Memory Index is comparable (i.e., not statistically or clinically significant). This finding suggests that, overall, WRAML3's working memory skills are at a
Visual Working Memory vs. Verbal Working Memory	13	8	5	<=5%	level commensurate with general immediate recall abilities.
immediate/Delayed Recall Comparisons	Scaled Score 1	Scaled Score 2	Difference	Base Rate	Visual Immediate Memory Index vs. Verbal Immediate Memory Index
Design Learning vs. Design Learning Delayed	11	14	-3	<=5%	The difference between the Visual Immediate Memory Index and Verbal Immediate Memory Index standard scores is statistically and clinically significant with a base rate of <=5%. This relative strength for WiRAML3 in visual memory may be due to weaker verbal memory or in other processes associated with verbal memory, such
Story Memory vs. Story Memory Delayed	7	4	3	<=5%	as language impairment or hearing difficulties. Examine the contributing subtests and process scores, the Verba Delayed and Verbal Recognition Indexes, and the Sentence Memory subtest to substantiate the uniformity of thi
Delayed Recall/Recognition Comparisons	Scaled Score 1	Scaled Score 2		Base Rate	finding, Implications of this discrepancy will likely be apparent for academic, work, and home settings.
Story Memory Delayed vs. Story Memory Recognition	4	13	-9	<=2%	
Verbal Learning Delayed vs.	7	- 11	-4	<=5%	

1st Case History

8 year 5-month-old male, who is starting 3rd grade.

Reason for Referral: The parents requested evaluation because of concerns expressed by teachers about inattention. Such concerns were noted since first grade but increased in second grade along with a lack of progress in reading. The child is relatively quiet but acting out has become more frequent, especially when completing homework.

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Performance Validity Indicator

Performance Validity Indicator

WAMA 3's results on the Performance Validity Indicator were found to be acceptable That is, WFAMA 5's scores on the Attention/Concentration Index and the sum of the first five items on the recognition solders's indicate that WRAMA 5's indicate the WRAMA 5's indicate that WRAMA 5's indicate that was a consistency of the Concentration of the previous of the value and index scores in the normality sample when considering performance walked for the WRAMA 5's of individuals in the normalities sample when considering performance walked for the WRAMA 5's of individuals in the normalities sample when considering individuals actived at least one index scores in the increase caused inside the state in just one score of subtest and index scores in the very low ranges suggests that interpretive caused notable better in just one score indicates low effort or revisible performance. WRAMA 3 achieved 1 subtest score that is < 4, and 0 index scores that are < 70.

Table 4.23 Clinical Validity Statistics for Performance Validity Indicators

Cut score	Sensitivity	Specificity	Percent correctly classified
≤70	.67	.98	.96
≤16	.69	.82	.81
2	.52	.99	.97
≥1	.73	.82	.81
	≤70 ≤16 2	≤70 .67 ≤16 .69 2 .52	≤70 .67 .98 ≤16 .59 .82 2 .52 .99

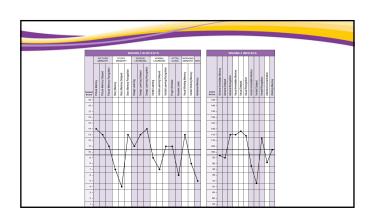
Index Score Summary

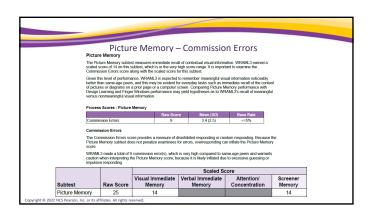
Index Score Summary

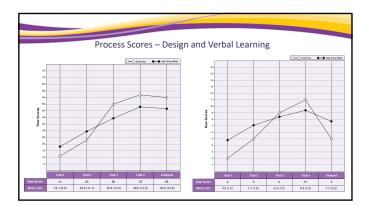
Index	Sum of Scaled Scores	Index Score	Confidence Interval (90%)	Percentile Rank
Visual Immediate Memory	25	115	105 - 121	84
Verbal Immediate Memory	16	88	83 - 95	21
Attention/Concentration	17	91	84 - 101	27
General Immediate Memory	58	97	91 - 103	42
Screener Memory	41	101	95 - 107	53
Visual Delayed	26	118	107 - 123	88
Verbal Delayed	11	73	69 - 83	4
General Delayed	37	95	89 - 102	37
Visual Recognition	25	114	104 - 120	82
Verbal Recognition	24	112	101 - 118	79
General Recognition	49	115	106 - 121	84
Working Memory	21	102	94 - 109	55

lm Subtest Scor			and] b	Delaye	ed F	Reca	II
	- Cumma		Immediate	Reca	II (Core)			
					Scaled Sc	core		
Subtest	Raw Score		mmediate mory		al Immediate Memory		ntion/ ntration	Screener Memory
Picture Memory	25		14					14
Design Learning	141		11					11
Story Memory	17				7			7
Verbal Learning	27				9			9
Finger Windows	13					- 1	1	
Number Letter	8					(3	
		Dela	yed Recall	(Sup	plementary)			
						Scaled	Score	
Subtest			Raw Sco	ore	Visual Del	ayed	Verba	I Delayed
Picture Memory D	elayed		28		13	•		
Design Learning I	Delayed		55		13			
Story Memory De			9					4
Verbal Learning D			5					7

Recognition/Wo	orking Me	emory/Sent	enc	e Memory	/
Re	ecognition (Sup	pplementary)			
				Score	
Subtest	Raw Score	Visual Recognit	ion	Verbal Recogn	ition
Picture Memory Recognition	31	11			
Design Learning Recognition	28	14			
Story Memory Recognition	28			13	
erbal Learning Recognition	17			11	
Worki	ng Memory (S	Supplementary)			
Subtest		Raw Score	Sc	caled Score	
Visual Working Memory		46		13	
Verbal Working Memory		22		8	
Additio	nal Subtest (Supplementary)			
Subtest		Raw Score	Sc	aled Score	
Sentence Memory		13		5	



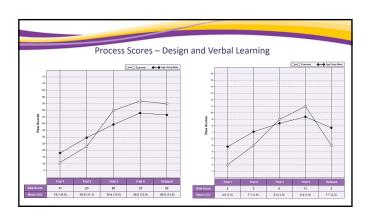




Process Scores - Design Learning	ess Scores – Desig	n Learning	
	Raw Score	Mean (SD)	Base Rate
Frial 1	11	18.1 (8.5)	<=15%
Trial 2	23	29.6 (11.1)	-
Trial 3	50	39.4 (13.5)	-
Trial 4	57	48.0 (12.8)	-
Delayed	55	46.6 (13.8)	-
Learning Slope (Trial 4 - Trial 1)	46	29.9 (11.0)	-
Jpper Left Quadrant	57	31.7 (12.9)	-
Jpper Right Quadrant	8	25.7 (15.1)	<=15%
Lower Left Quadrant	47	32.1 (13.9)	-
Lower Right Quadrant	11	28.0 (13.3)	<=15%



Proc	ess Scores –Verb	al Learning	
Process Scores - Verbal Learning			
	Raw Score	Mean (SD)	Base Rate
Trial 1	2	4.8 (1.5)	<=5%
Trial 2	5	7.1 (1.8)	<=15%
Trial 3	9	8.4 (1.9)	-
Trial 4	11	9.4 (1.9)	-
Delayed	5	7.7 (2.0)	<=5%
Learning Slope (Trial 4 - Trial 1)	9	4.5 (2.0)	-
Intrusions	4	1.1 (1.9)	<=5%
Repetitions	3	1.7 (2.4)	<=15%
Primacy	30	30.5 (6.9)	-
Recency	30	29.2 (8.7)	-



	000333	00103	- Story N	vicinion					
Process Scores - Individual Story Comparison									
	Scaled Score 1	Scaled Score 2	Difference	Critical Value (.10)	Significant	Base Rate			
Story A vs. Story B	9	5	4	3.31	Y	<=10%			
Process Scores - Story	Memory		B 0		011				
Process Scores - Story	Memory		Raw Sco	ore	Scaled S	Score			
Process Scores - Story Story A	Memory		Raw Sco	ore	Scaled 9	Score			
	Memory			pre		Score			
Story A	Memory		12	ore	9	Score			

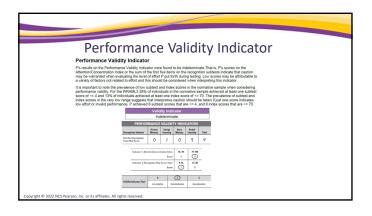


2nd Case History

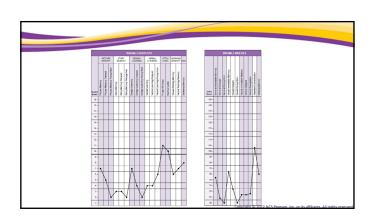
86-year-old who identifies as male.

Reason for Referral: Physician referred patient with early Alzheimer's, who was showing an increasing difficulty remembering things said to him even when reminded. Recently, even demonstrating new procedures have resulted in limited benefit. Was of average ability throughout adult life.

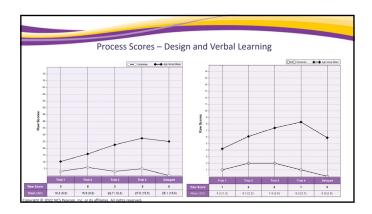
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Index Score Summary	dex Score	Summ	ary	
Index	Sum of Scaled Scores	Index Score	Confidence Interval (90%)	Percentile Rank
Visual Immediate Memory	14	82	77 - 92	12
Verbal Immediate Memory	7	62	59 - 71	0.6
Attention/Concentration	21	103	94 - 111	58
General Immediate Memory	42	77	73 - 85	6
Screener Memory	21	69	65 - 77	2
Visual Delayed	9	67	64 - 81	1
Verbal Delayed	7	62	59 - 73	0.6
General Delayed	16	59	56 - 69	0.3
Visual Recognition	4	55	54 - 70	0.1
Verbal Recognition	8	63	61 - 79	0.7
General Recognition	12	55	53 - 68	0.1
Working Memory	13	80	75 - 90	9



			_						
	Imme	ediat	e an	d	Delaye	ed	Recall		
		In	nmediate l	Reca					
					Scaled Score				
Subtest	Raw Score	Visual Im Mem		Verl	bal Immediate Memory		Attention/ ncentration	Scree Mem	
Picture Memory	icture Memory 8		7					7	
Design Learning	17	7						7	
Story Memory	Story Memory 3				3				
Verbal Learning	6			4				4	
Finger Windows	13						11		
Number Letter	11						10		
		Dela	yed Recall	(Sup	plementary)				
						Scaled Score			
Subtest			Raw Sco	ore	Visual Delay	ed	Verbal Dela	yed	
Picture Me	nory Delayed		5		5				
Design Lea	rning Delayed		0		4				
Story Mem	ory Delayed		0				3		
Verbal Lea	ming Delayed		0				4		



Delayed Recall/Recognition	on Compar	isons				
Subtest Comparisons	Scaled Score 1	Scaled Score 2	Difference	Critical Value (.10)	Significant	Base Rate
Picture Memory Delayed vs. Picture Memory Recognition	5	2	3	3.15	N	-
Design Learning Delayed vs. Design Learning Recognition	4	2	2	2.91	N	-
Story Memory Delayed vs. Story Memory Recognition	3	2	1	2.45	N	-
Verbal Learning Delayed vs. Verbal Learning Recognition	4	6	-2	3.04	N	-

Working Men	nory/S	Senten	e Me	mory	
		_			
Subtest		Score	Sca	led Score	
Finger Windows		13		11	
Number Letter		11		10	
Working	Memory	(Supplem	entary)		
Subtest		Raw S	core	Scaled Sca	
Visual Working Memory		6		6	
Verbal Working Memory		7		7	
		_			
Subtest		Score	Scal	ed Score	
Story Memory		3		3	
Story Memory Delayed	_	0		4	
Story Memory Recognition		11		2	
	Subtest	(Suppleme	ntary)		
Additional			oro	Scaled Score	
		Raw Sc	ore		

Listing of Important Re	Listing of Important Reported Findings								
Index Comparisons	Standard Score 1	Standard Score 2	Difference	Base Rate					
Visual Immediate Memory vs. Verbal Immediate Memory	82	62	20	<=10%					
Verbal Immediate Memory vs. Attention/Concentration	62	103	-41	<=2%					
Visual Immediate Memory vs. Attention/Concentration	82	103	-21	<=15%					
Visual Immediate Memory vs. Visual Delayed**	82	67	15	<=5%					
Attention/Concentration vs. Working Memory	103	80	23	<=5%					
General Immediate Memory vs. General Delayed	77	59	18	<=2%					
Screener Memory vs. Attention/Concentration	69	103	-34	<=2%					
Screener Memory vs. General Delayed	69	59	10	<=10%					
Subtest Comparisons	Scaled Score 1	Scaled Score 2		Base Rate					
Story Memory Recognition vs. Verbal Learning Recognition	2	6	-4	<=10%					
Immediate/Delayed Recall Comparisons	Scaled Score 1	Scaled Score 2	Difference	Base Rate					
Design Learning vs. Design Learning Delayed	7	4	3	<=5%					

