Current Updates in Psychological Testing & What Makes a Good Referral?



Domains of Psychological Testing

Intelligence

Weschler Adult Intelligence Scale-IV (WAIS-IV)

Reynolds Adaptable Intelligence Test (RAIT)

Stanford Binet Intelligence Scales -5 (SB-5)

Concentration & Processing

CNS Vital Signs (CNS)

Conner's Continuous Auditory Test of Attention (CATA)

Conner's Performance Test-3 (CPT-3)

Memory

Weschler Memory Scale-IV (WMS-IV)

> Montreal Cognitive Assessment (MoCA)

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Personality & Emotional

Minnesota Multiphasic Personality Inventory-2 (MMPI-2)

Millon Clinical Multiaxial Inventory-IV (MCMI-IV)

"I went to the psychologist to treat my big ego. I think it worked; I'm feeling much better than all of you today."

Malingering

Inventory of Problems-9 (IOP-9)

Validity Indicator Profile (VIP)

Functions Assessed

- Language/Verbal
- Memory
- Attention & Executive Control
- Impulse Control
- Problem-Solving
- Rule-out Malingering



"If the brain was so simple that we could understand it, then we would be so simple that we couldn't."

-Emerson M. Pugh





Autism Diagnostic Observation Schedule

Second Edition (2021)

Improved Algorithms

• Stronger Predictive Validity

New Toddler Module

- 12-30 Months
- · Designed for children who have not developed phrase
- Results classified as 'Ranges of Concern

Improved Protocol Booklets

New Comparison Scores



Conners 4th Edition

Questionnaire – Weakness or Strength?

Highly anticipated revision of the world's leading Attention-Deficit/Hyperactivity Disorder (ADHD) assessment.





Performance Based Testing Conners CPT₃ - 2015

Dimension	Score	Description
Inattentiveness	Detectability (d')	Ability to discriminate between targets (non-X) and non-targets (X)
	Omissions	Missed targets
	Commissions	Incorrect responses to non-targets
	Hit Reaction Time (HRT)	Response speed
	HRT Standard Deviation (SD)	Response speed consistency
	Variabilty	Variability of response speed consistency
Impulsivity	HRT	Response speed
	Commissions	Incorrect responses to non-targets
	Perseverations	Random or anticipatory responses (i.e., HRT < 100m
Sustained Attention	HRT Block Change	Change in response speed across blocks of trials
	Omissions by block	Missed targets by block
	Commissions by block	Incorrect responses to non-targets by block
Vigilance	HRT Inter-Stimulus	Change in response speed at various ISIs
	Interval (ISI) Change	
	Omissions by ISI	Missed targets by ISI
	Commissions by ISI	Incorrect responses to non-targets by ISI



THINKING STYLE, PERSONALITY TRAITS, IQ BERDING ET AL (2018)

2.3 Structural Model

A simplified structural model for this study is shown in Figure 1. It represents the aim of the study which is to investigate whether thinking styles reflected by the four types found by Berding et al. (2018) are located between personality traits and psychometric intelligence on an empirical level.

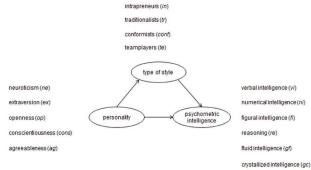


Figure 1. A Simplified Structural Model of Types of Styles Mediating the Personality-intelligence Interface



Personality

The one factor of personality that has most consistently been found to be positively correlated with several cognitive abilities is

OPENNESS TO EXPERIENCE

MMPI₃ Updates (2020)

Minnesota Multiphasic Personality Inventory - Third Edition

English Language Norm Updates

Updated nationally representative English language normative sample

Updated for the first time since the mid 1980's

Matches demographic projections for 2020 New and updated items and scales

Eating Concerns, Compulsivity, Impulsivity, and Self-Importance

Includes 72 new and 24 updated items Spanish language normative sample

Now, includes norms derived from a sample of US Spanish speakers

550 Spanish speakers (275 men and 275 Gender

Non-Gendered T-Scores

Optional genderneutral language for interpretive reports Comparison Group MMP[3]

Allows clinicians to create settingspecific comparison groups

Mental health, medical, forensic, and public safety settings



Verbal IQ

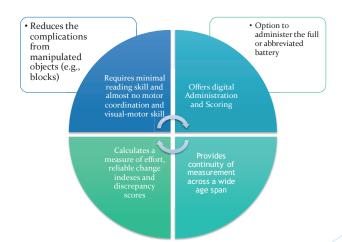
The ability to understand and use words (language) in solving verbal problems and/or thinking about concepts. Requires the client to solve word problems and define words & concepts. Nonverbal IQ

The ability to understand and analyze visual information.

Requires the client to solve visual puzzles, complete patterns, and use blocks to recreate.

Reynolds Adaptable Intelligence Test

(2020)





Reynolds Adaptable Intelligence Test - RAIT

RAIT Indexes		
Total Battery Intelligence Index (TBII)	Provides a summary estimate of general intelligence, or g , derived from the administration of all seven RAIT subtests.	
Total Intelligence Index (TII)	Provides an alternative summary estimate of general intelligence, or g , that does not take into account quantitative intelligence.	
Crystallized Intelligence Index (CII)	Provides a summary estimate of crystallized intelligence (i.e., the application of knowledge to problem solving) assessed through verbal reasoning tasks and invokes inductive reasoning.	
Fluid Intelligence Index (FII)	Provides a summary index of fluid intelligence (i.e., problem solving in the absence of requisite factual knowledge) assessed through nonverbal reasoning tasks and tends to invoke deductive rather than inductive reasoning.	
Quantitative Intelligence Index (QII)	Assesses both crystallized and fluid aspects of quantitative reasoning using two subtests: Quantitative Knowledge and Quantitative Reasoning.	



Wechsler Intelligence Scale for Children

Fifth Edition (2014)

Most widely used scale of intelligence and adapted over 20 countries.

Three new primary subtests

- Visual Puzzles, Figure Weights, and Picture Span
- Measures the ability to analyze and synthesize information, quantitative reasoning and induction, and visual working memory.

Five new subtests of cognitive processes

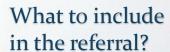
 Improves assessment of cognitive processes important to academic achievement in reading, math, and writing.

Simplified Instructions

- Reduced vocabulary level
- Shorter discontinue rules
- · Refined scoring criteria



Referral Question • What question do you want answered?





Medical test results

• MRI, TSH levels, etc.

List of all prescribed and OTC nedications

 History of patient compliance with prescribed medications

Any relevant medical history

- CVA, TBI, diabetes, thyroid, sleep apnea, Parkinson's disease, etc.
- Addiction?





Diagnostic

Provides insight into the source of cognitive changes

Baseline & Course

Help determine effectiveness of treatment

Areas of Need

Determines which cognitive functions have changed & the severity

Treatment planning

Prioritize the focus and determine sequence of treatment

Neuropsych Consults & Your Practice

Conserves time and resources Provides a more detailed clinical picture

Wide range of data points to guide Fosters patient's confidence and satisfaction



Mental Health

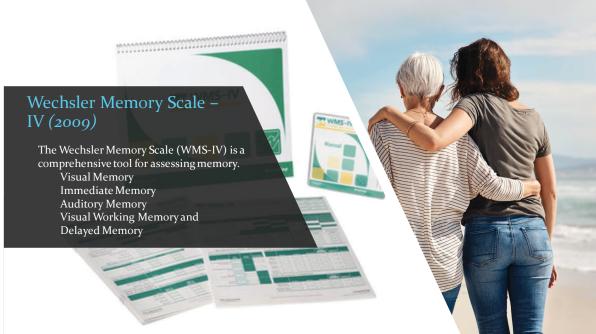
Depression
Anxiety
Adjustment to medical condition
Lability
PTSD

Integrating the Factors

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Wechsler Memory Scale | Fourth Edition

WMS®-IV Flexible Approach WMS-IV INDEXES WMS-IV SUBTESTS Logical Memory I Immediate Memory Index Logical Memory II Delayed Memory Index Verbal Paired Associates II Visual Memory Index Designs I Designs II Visual Working Memory Index Visual Immediate Memory Index Visual Reproduction I Visual Delayed Memory Index Auditory-Visual Memory Index Visual Reproduction II Auditory-Visual Immediate Memory Index Spatial Addition Symbol Span Auditory-Visual Delayed Memory Index Logos I Logos II

Names II

Verbal and Visual Memory



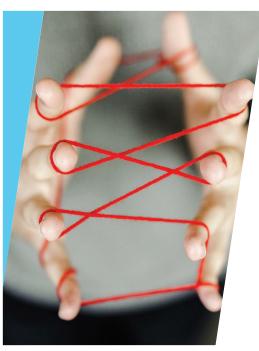
Memory involves various processes, including the capacity for encoding (mentally processing information so it can be entered into memory), storage (holding that information for a period of time), and retrieval (accessing or recalling stored memories when needed) of the information. Visual memory refers to the capacity to store and process visual stimuli, whereas verbal memory refers to the capacity to store and process verbally presented information.



Processing Speed Measure: How well a subject recognizes and processes information i.e., perceiving, attending/responding to incoming information, motor speed, fine motor coordination, and visual-perceptual ability. Relevance: Ability to recognize and respond/react i.e., fitness-to-drive, occupation issues, possible danger/risk signs or issues with accuracy and detail.



Executive Function Measure: How well a subject recognizes rules, categories, and manages or navigates rapid decision making. Relevance: Ability to sequence tasks and manage multiple tasks simultaneously as well as tracking and responding to a set of instructions.



- Visual-Motor and Fine Motor Coordination
- Visual-motor processing refers to the degree to which individuals can integrate their visual and motor abilities.
- ▶ Fine motor skills refer to the coordination of small muscle movements, including an individual's ability to accurately manipulate small objects, such as a pencils, buttons, scissors, etc.

The Inventory of Problems-29

The Inventory of Problems-29 (IOP-29) is a 29-item self-administered symptom validity test (SVT) that assesses the credibility of clinical presentations related to posttraumatic stress disorder, depression/anxiety, psychosis, cognitive impairment and combination thereof.

Reasearch: Twenty-one independent samples were included, with a total sample size of 4,163 participants. The results indicated that the 10P-29 is able to discriminate adequately between instructed simulators and healthy controls/clinical patients.

Using the recommended cutoff (False Disorder Probability Score [FDS], z. 50), a sensitivity of 82% was achieved, maintaining specificity at 93% (false positive rate of 7%). The language of the test and the type of comparison group have been identified as possible sources of heterogeneity.

Specificity decreases for the non-English version of the IOP-29, for the FDS = 30, and also decreases for studies using clinical controls, for all three cutoff scores. In general, our findings support the usefulness of the IOP-29 as an SVT; however, most of the included studies use a simulation design and have been coauthored by the test authors.

Likewise, about half of the studies did not include bona fide patient controls but only nonclinical controls. The results obtained are highly promising, but further research, especially that using the criterion group paradigm, recommended. (Psyclinto Databasse Record (c) 2023 APA, all rights reserved)

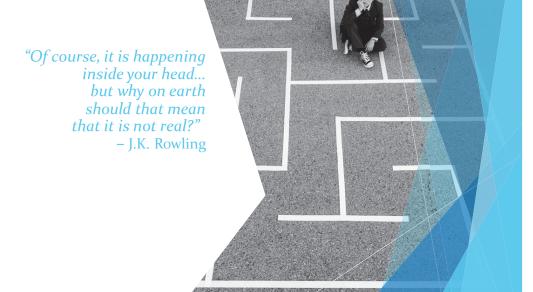
VIP - Malingering

The VIP test uses six primary validity indicators to classify an individual's performance as either valid or invalid.

A graph of results helps explain the results in hearing or court proceedings. Each VIP measure captures a different element of the deviations from this expected pattern.

Contains verbal and nonverbal subtests, each of which can be administered independently. The test helps assess the relationship between the individual's intention and the effort in completing the test.

Scoring rules for the VIP test were developed using a sample of more than 1,000 clinical and nonclinical subjects.



Thank you



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