

NP Test Interpretation

- Testing
 - is more Objective
 - standardization
 - normative data
 - demographic corrections
- Interpretation
 - is more Subjective
 - poor mapping of tests to brain systems
 - gray areas in test scores
 - lack of premorbid function tests
 - more of an art than a science
 - uses Clinical Intuition

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Interpretation Demonstration

- In which we take simulated patient data and attempt to make sense of it.

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Patient X

- Background
 - 27 year old Hispanic male
 - Normal childhood developmental milestones
 - Finished High School with 3.5 GPA
 - worked at a factory assembling circuit boards
- Symptoms & History
 - 1 month ago was in motorcycle accident with minor CHI injury with 5 minute LOC
 - “life changing experience” : entered college
 - Chief complaint :
 - struggling with grades
- Reason for referral
 - did he suffer brain damage? can he succeed in college?

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Patient X

- Clinical Interview & Mental Status Exam
 - within normal limits
- Neuropsychological Test Results
 - ...
- Interpretation & Diagnosis
 - ...

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Test Scores : Patient X

Test Name	Subtest Name	Z score (demographically corrected)
Trail Making	Trails A	+1.50
Trail Making	Trails B	-2.25
COWAT	FAS (Letter)	-1.75
COWAT	Animals (category)	+0.70
NAART	# correct	+0.52

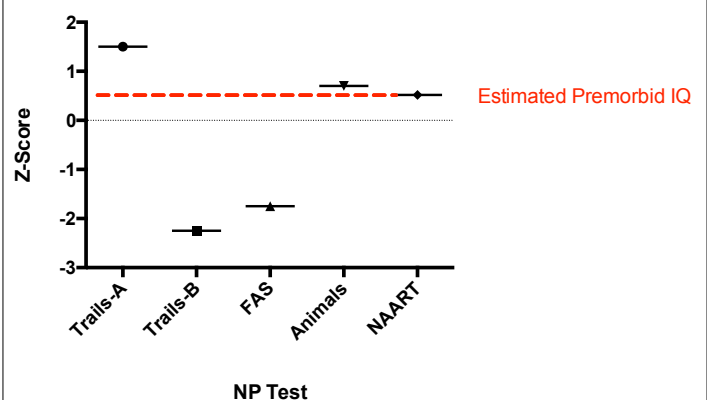
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Patient X

Patient X - NP Test Profile Graph



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Test by Ability Areas

Test Name	Ability Areas below expectation	Abilities Normal or above
Trails A		Perception Motor Speed Occipital, Motor Cortex
Trails B	Executive Function Inhibition Working Memory Frontal Lobe, Right	
COWAT - Letters (FAS)	Executive Function Working Memory Frontal Lobe, Left	
COWAT - Category (Animals)		Semantic Memory Temporal Lobe Left Hemisphere
NAART - Premorbid Vocabulary		Verbal IQ Broca's Area Left Hemisphere

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Patient X : Interpretation & Conclusion

- Premorbid
 - Test: IQ in average range - consistent with history
- Current:
 - some abilities normal or above
 - visuomotor, simple sequencing, vocabulary, language
 - some very far below expected:
 - working memory, executive function
- Conclusion:
 - results consistent with mild frontal lobe trauma affecting executive functions
- Recommendations:
 - Can patient succeed in college?
 - Recovery?
 - Rehabilitation?

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