

Neuropsychological Assessment Report

Psychology 465 Human Neuropsychology Fall 2012

Sunday, October 21, 2012

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The NP Assessment Report

- Identifying Information & Presenting Problem
- Background
- Symptoms & History
- Clinical Interview & Mental Status Exam
- Neuropsychological Test Results
- Interpretation & Diagnosis
- Recommendations

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Identifying Information & Presentation

- Who is this person
 - identifying information
- Why are they receiving a NP assessment?
 - chief complaint
 - reason for referral
 - desired outcomes

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Background : Symptoms & History : Family

- Family background - Parents, relatives and children
 - history of similar illnesses, other illnesses
 - development of symptoms
 - response to treatment
 - educational & occupational achievement
 - genetic issues

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Background : Developmental

- Developmental
 - birth
 - early childhood milestones
 - education
 - primary
 - secondary
 - post-secondary
 - learning disabilities
 - psychosocial milestones
 - relationships, offspring...

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Background : Symptoms & History

- Sx and Hx
- Course of symptoms
 - insidious vs. acute
 - episodic vs. chronic
 - subjective
 - objective
 - treatment
 - compensation
 - consequence

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Behavioral Observation

- Observation
 - direct
 - third-party
 - behavioral assessment
- Clinical Interview
 - Mental Status Exam...

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MSE : Mental Status Exam

- Structured, systematic observation of a person's behavior during the interview
- Major Areas
 - Appearance & Behavior
 - Thought Processes (and Speech)
 - Mood & Affect
 - Intellectual functioning
 - Sensorium & Orientation

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Neuropsychological Test Results

- Issues
 - Qualitative vs. Quantitative...
 - Norms & premorbid functioning...

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Quantitative Data

- Pros
 - standardized
 - replicable
 - precision, accuracy, reliability & validity
 - can be estimated
 - bias : reduced
 - science
- Cons
 - impersonal
 - penalizes individual differences / creativity
 - may miss important clues
 - sensitive but perhaps not specific
 - Example: poor performance on Trails B - why?

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Qualitative Data

- Pros
 - personal
 - individualized
 - detailed
 - pathognomonic - *latin, pathos: disease, gnomon: judge*
 - explains Why or How
 - may suggest compensation strategy
 - art
- Cons
 - biased, arbitrary
 - cultural issues
 - subject to over-interpretation
 - limited reliability, validity, precision and accuracy

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Interpretation

- Establish premorbid functioning
- Compare current functioning to premorbid
- Explain in context of symptoms & history
- Diagnosis

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Recommendations

- Based on diagnosis and interpretation
 - describe Prognosis
 - immediate
 - recovery
 - long-term
 - social
 - vocational
 - recommend clinical interventions
 - medical
 - psychological
 - recommend compensations
 - operational
 - vocational
 - psychosocial

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Recommendations 2

- Rehabilitation
- Further NP Assessment
- Referrals to other specialists

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Common Issues

- Estimating Premorbid Functioning
- Ecological Validity & Overgeneralization
- Confirmatory Bias
- Base Rates, Hit Rates, False Positives & False Negatives
- Effects of Effort & Motivation

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Premorbid Functioning

- Rarely have pre-morbid test data, so must estimate it
- Demographic variables affect performance
- Use statistical normative data and adjust for
 - age, education, sex, race...
- Problems:
 - normative data : rarely detailed enough
 - definitions of “education”, “race”...
 - cohort changes

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Ecological Validity & Overgeneralization

- NP Testing is artificial
 - at one place
 - at one time
 - uncomfortable
 - doesn't measure ability to learn, improve, adapt
- Problems
 - “having a bad day”
 - strategy: accuracy vs. speed tradeoffs
- Conclusion:
 - predictions should be humble
 - “will never be able to work again” -- are we sure of this?

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Confirmatory Bias

- Motivations of related parties
 - lawsuit? medical care? release from responsibility?
 - individual variations
 - most people have odd behavior if you look closely enough
 - over-pathologizing

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Base rates & Hit Rates

- When the Base Rate of a disorder is very low, even using tests with very high sensitivity & specificity
 - Likely to have more False positives & False negatives than Hits
- Example:
 - if a disease is in 1/1000 patients, and your tests have 99% specificity and 99% sensitivity...
 - You will diagnose 10 of 1000 as having the disease
 - but 9 of them will not (a 90% false positive error rate!)

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Effort & Motivation

- Low effort impacts performance
- What affects effort?
 - motivation
 - ability
 - fatigue
 - frustration
- Problem:
 - risk of confusing “Can’t do it” with “Won’t do it”
- Strategies:
 - ensure motivation, rest breaks, maintain rapport
 - symptom validity tests
 - detect malingering

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