

## Chapter

## 5

# *The Neuropsychological Evaluation*

Diane B. Howieson, Ph.D.  
Muriel D. Lezak, Ph.D.

NEUROPSYCHOLOGICAL EVALUATIONS have been used since the 1940s for the diagnosis of acquired or congenital problems presumed to be a result of brain disease or trauma (Hebb 1942; Teuber 1948). The neuropsychologist assesses brain function inferred from an individual's cognitive, sensory, motor, emotional, or social behavior. During the early history of neuropsychology, these assessments were often the most direct measure of brain integrity in persons without localizing neurological signs and symptoms and with problems confined to higher mental functions. Neuropsychological measures still are useful diagnostic indicators of brain dysfunction for many conditions and will remain the major diagnostic modality for some (Eisenberg and Levin 1989; Jernigan and Hesselink 1987; Mapov 1988). However, diagnosis of brain damage has become increasingly accurate in recent decades as a result of improved visualization of brain structure by computed tomography (CT), magnetic resonance imaging (MRI), and angiography (Theodore 1988). These developments have allowed a shift in the

focus of neuropsychological assessment from the diagnosis of possible brain damage to a better understanding of specific brain-behavior relationships and of the psychosocial consequences of brain damage.

### □ WHEN A NEUROPSYCHOLOGICAL EVALUATION IS INDICATED

Patients referred to a neuropsychologist for assessment may be classified into one of three groups. The first and probably largest group consists of patients with known brain damage. The more common brain disorders are cerebrovascular disorders, head injury, hydrocephalus, Alzheimer's disease, Parkinson's disease, multiple sclerosis, Huntington's chorea, tumors, seizures, and infections. A neuropsychological evaluation can be useful in defining the nature and severity of resulting functional problems. The assessment provides information about the patient's cognition, personality characteristics,

# Lezak 5th Edition

**Pasquale J. Accardo, Arnold J. Capute**

## **Lezak 5th Edition:**

Neuropsychological Assessment Muriel Deutsch Lezak, Diane B. Howieson, Erin D. Bigler, Daniel Tranel, 2012-03-27 Now in its Fifth Edition Neuropsychological Assessment reviews the major neurobehavioral disorders associated with brain dysfunction and injury This is the 35th anniversary of the landmark first edition As with previous editions this edition provides a comprehensive coverage of the field of adult clinical neuropsychology in a single source By virtue of the authors clinical and research specializations this book provides a broad based and in depth coverage of current neuroscience research and clinical neuropsychology practice While the new edition is updated to include new features and topics it remains true to the highly regarded previous editions Methods for obtaining optimum data are given in the form of hypothesis testing techniques clinical tips and clinical examples In the seven years since the previous edition many advancements have been made in techniques for examining brain function and in our knowledge about brain behavior relationships For example a surge of functional imaging data has emerged and new structural imaging techniques have provided exquisite detail about brain structure For the first time this edition includes examples of these advancements many in stunning color This edition also includes new tools for clinicians such as a neuroimaging primer and a comparison table of the neuropsychological features of progressive dementias The chapters on assessment procedures include discussion of issues related to test selection and reviews of recently published as well as older test batteries used in general neuropsychological assessment plus newly developed batteries for specific issues *Pediatric Rehabilitation, Fifth Edition* Michael A. Alexander, MD, Michael A. Alexander, Dennis J. Matthews, MD, Kevin P. Murphy, 2015-05-28 Print CourseSmart

Traumatic Brain Injury Robert P. Granacher Jr., Daryl B. Lund, 2015-03-02 Traumatic Brain Injury Methods for Clinical and Forensic Neuropsychiatric Assessment Third Edition provides physicians and psychologists with a scientifically based schema for the clinical evaluation of traumatic brain injury TBI The book assists physicians and psychologists in developing treatment plans for patients who have sustained TBIs an *Handbook of Psychological Assessment* Gary Groth-Marnat, A. Jordan Wright, 2016-05-02 Organized according to the sequence mental health professionals follow when conducting an assessment Groth Marnat s *Handbook of Psychological Assessment Sixth Edition* covers principles of assessment evaluation referral treatment planning and report writing Written in a practical skills based manner the Sixth Edition provides guidance on the most efficient methods for selecting and administering tests interpreting assessment data how to integrate test scores and develop treatment plans as well as instruction on ways to write effective client oriented psychological reports This text provides through coverage of the most commonly used assessment instruments including the Wechsler Intelligence Scales Wechsler Memory Scales Minnesota Multiphasic Personality Inventory Personality Assessment Inventory Millon Clinical Multiaxial Inventory NEO Personality Rorschach Thematic Apperception Test and brief assessment instruments for treatment planning monitoring and outcome assessment Neuropsychological Assessment Muriel Deutsch Lezak, 2004 This revised

text provides coverage of research and clinical practice in neuropsychology The 4th edition contains new material on tests assessment techniques neurobehavioral disorders and treatment effects Child Neuropsychology Margaret Semrud-Clikeman, Phyllis Anne Teeter Ellison, 2009-06-15 During the past decade significant advances have been made in the field of neurodevelopmental disorders resulting in a considerable impact on conceptualization diagnostics and practice The second edition of Child Neuropsychology Assessment and Interventions for Neurodevelopmental Disorders brings readers up to speed clearly and authoritatively offering the latest information on neuroimaging technologies individual disorders and effective treatment of children and adolescents Starting with the basics of clinical child neuropsychology and functional anatomy the authors present a transactional framework for assessment diagnosis and intervention The book carefully links structure and function and behavioral and biological science for a more nuanced understanding of brain development and of pathologies as varied as pervasive developmental disorders learning disabilities neuromotor dysfunction seizure disorders and childhood cancers This volume features a range of salient features valuable to students as well as novice and seasoned practitioners alike including Overview chapters that discuss the effects of biogenic and environmental factors on neurological functioning New emphasis on multicultural cross cultural aspects of neuropsychology and assessment Brand new chapters on interpretation neuropsychological assessment process and report writing An integrative model of neurological neuroradiological and psychological assessment and diagnosis Balanced coverage of behavioral pharmacological and educational approaches to treatment Case studies illustrating typical and distinctive presentations and successful diagnosis treatment planning and intervention Important practice updates including the new HIPAA regulations Child Neuropsychology 2nd Edition is vital reading for school clinical child and counseling psychologists as well as neuropsychologists The book also provides rich background and practical material for graduate students entering these fields **Review of General Psychiatry, Fifth Edition** Howard H. Goldman, 2000-06-29 This edition of this popular text continues as a comprehensive and balanced introduction to general psychiatry for students and practitioners Updated features include the latest diagnostic algorithms new nomenclature from DSM IV updated coverage of neuroscience and psychopharmacology Includes extensive clinical vignettes and case summaries CURRENT Diagnosis & Treatment: Psychiatry, 4th Edition Michael H. Ebert, Peter R. Martin, Molly McVoy, Robert J. Ronis, Sidney H. Weissman, 2024-11-15 Quickly and accurately diagnose and treat the psychiatric disorders you will encounter in clinical practice CURRENT Diagnosis and Treatment Psychiatry offers instant access to relevant etiology phenomenology pathophysiology and drug information Designed in the time saving outline style that makes LANGE CURRENT titles so popular the book covers need to know information on interviewing techniques emergency psychiatry treatment strategies psychiatry and the law psychological testing emergency psychiatry and evaluating infants This authoritative resource reviews essential psychopharmacologic and psychotherapeutic approaches and provides evaluation testing and decision making tools and criteria Renowned authorities on the subject the editors have a

cumulative 100 years treating patients and teaching residents Covers both adult and pediatric disorders Reviews essential psychopharmacologic and psychotherapeutic approaches Provides evaluation testing and decision making tools and criteria

*Comprehensive Handbook of Personality and Psychopathology , Adult Psychopathology* Michel Hersen, Jay C.

Thomas, 2006 Publisher Description *QUANTITATIVE EXAMINATION OF NEUROLOGIC FUNCTIONS* Potvin, Wallace W.

Tourtellotte, 1985-01-08 *The American Journal of Forensic Psychology*, 2007 *Geropsychological Assessment and*

*Treatment* Linda Teri, Peter M. Lewinsohn, 1986 *Smith's Anesthesia for Infants and Children E-Book* Peter J.

Davis, Franklyn P. Cladis, 2021-11-30 Written and edited by renowned experts in pediatric anesthesia *Smith's Anesthesia for*

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access all of the text figures and references from the book on a variety of devices **Quantitative Examination of**

**Neurologic Functions: Scientific basis and design of instrumented tests** Alfred R. Potvin, 1985 **Assessing**

**Adolescent and Adult Intelligence** Alan S. Kaufman, 1990 This text reference concerns the clinical assessment of the

intelligence of adolescents and adults In addition to the Wechsler Adults Intelligence Scale WAIS R other instruments are

also integrated with the WAIS R to aid clinicians in assessing individuals with brain damage learning disabilities *Manual of*

*Psychiatric Care for the Medically Ill* Antoinette Ambrosino Wyszynski, Bernard Wyszynski, 2005 *Manual of Psychiatric Care*

*for the Medically Ill* delivers a practical approach to accurate psychiatric diagnosis and treatment in the medical surgical

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**Capute & Accardo's Neurodevelopmental Disabilities in Infancy and Childhood: The spectrum of neurodevelopmental disabilities** Pasquale J. Accardo,Arnold J. Capute,2008 The second of two volumes comprising the third edition of the core text for certification in neurodevelopmental disabilities in pediatrics this definitive resource prepares future clinicians to skillfully assess and treat a range of neurodevelopmental di

**CURRENT Diagnosis and Treatment Pediatric Neurology** Andrew Hershey,2022-12-16 Get the latest evidence based methods for diagnosing and treating neurologic disorders in infants children and adolescents A practical up to date well referenced guide to the wide range of neurological diseases that impact infants children and adolescents with detailed descriptions and safe effective diagnostic procedures and treatments Nearly 50 chapters covering the full spectrum of pediatric neurologic conditions including cardinal manifestations of neurologic disease developmental disorders pain and other disorders of somatic sensation epilepsy and disorders of consciousness major categories of neurologic disease and diseases of the spinal cord

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