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# Clinical application of recommendations for neurobehavioral assessment in disorders of consciousness: an interdisciplinary approach

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Accurate diagnosis, prognosis, and subsequent rehabilitation care planning for persons with Disorders of Consciousness (DoC) has historically posed a challenge for neurological care professionals. Evidence suggests rates of misdiagnosis may be as high as 40% when informal bedside evaluations are used to determine level of consciousness. The presence of myriad medical, neurological, functional (motor, sensory, cognitive) and environmental confounds germane to these conditions complicates behavioral assessment. Achieving diagnostic certainty is elusive but critical to inform care planning, clinical decision making, and prognostication. Standardized neurobehavioral rating scales has been shown to improve accuracy in distinguishing between coma, unresponsive wakefulness syndrome/vegetative state and minimally conscious state as compared to informal assessment methods. Thus, these scales are currently recommended for use as the informal "gold standard" for diagnostic assessment in DoC. The following paper will present an evidence-based approach to neurobehavioral assessment for use in clinical practice. Strategies for optimizing assessment and aiding in identification and management of confounds that can limit diagnostic accuracy will be provided. Finally, clinical application of an interdisciplinary approach to identifying and managing confounds will be discussed and how assessment results can be used to identify trends in performance and guide prognostic counseling with families.

## Keywords:

brain injury, consciousness disorders (UMeSH), diagnosis, prognosis, assessment practices

## Introduction

Impairments in arousal and awareness after severe brain injury are ubiquitous to disorders of consciousness (DoC) which include coma, unresponsive wakefulness syndrome (UWS)/vegetative state (VS), and the minimally conscious state (MCS). MCS is a clinically heterogeneous category, as it is further stratified into MCS plus (+) and MCS minus (−).

# Neurobehavioral Disorders A Clinical Approach

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## **Neurobehavioral Disorders A Clinical Approach:**

*Neurobehavioral Disorders* Richard L. Strub, F. William Black, 1988    The American Journal of Psychiatry, 1996-10  
**Behavioral Neurology & Neuropsychiatry** David B. Arciniegas, C. Alan Anderson, Christopher M. Filley, 2013-01-24 The merger of behavioral neurology and neuropsychiatry into a single medical subspecialty Behavioral Neurology  
Neuropsychiatry requires an understanding of brain behavior relationships and a clinical approach that transcends the traditional perspectives of neurology and psychiatry. Designed as a primer of concepts and principles and authored by a multidisciplinary group of internationally known clinical neuroscientists this book divides into three sections Structural and Functional Neuroanatomy Section I addresses the neuroanatomy and phenomenology of cognition emotion and behavior Clinical Assessment Section II describes neuropsychiatric history taking neurological and mental status examinations neuropsychological assessment and neuroimaging electrophysiologic and laboratory methods Treatment Section III discusses environmental behavioral rehabilitative psychological social pharmacological and procedural interventions for cognitive emotional and behavioral disorders. By emphasizing the principles of Behavioral Neurology Neuropsychiatry this book will improve your understanding of brain behavior relationships and inform your care of patients and families affected by neurobehavioral disorders

**The First Session with Children and Adolescents** Alvin E. House, 2002-02-28 The initial evaluation of a client whether in a formal diagnostic process or as a first therapy contact is the beginning of the process of providing that client with help. This book provides a thorough practical primer on carrying out initial mental health evaluations with children and adolescents. The focus is on efficiently eliciting the information needed for formulating the young person's difficulties clarifying the diagnostic situation and planning for treatment or referral. Drawing on the available research literature as well as the author's 25 years of professional experience this user friendly book will facilitate the work of practitioners in any discipline or clinical setting

The Neuropsychology Handbook: Foundations and assessment Arthur MacNeill Horton, Danny Wedding, Jeffrey Webster, 1997    **Neuropsychological Assessment in Clinical Practice** Gary Groth-Marnat, 2000 Neuropsychological Assessment in Clinical Practice A Guide to Test Interpretation and Integration Written with the graduate student and practicing clinician in mind this book covers today's most important issues in neuropsychological assessment including Strategies for interviewing and interpretive guidelines to the most frequently used assessment instruments Instructions for using test results to develop treatment and case plans WISC III WAIS III WMS III Halstead Reitan Luria Nebraska and additional tests organized according to various functional domains Principles guidelines and examples of how to write problem oriented effective neuropsychological reports Praise for Gary Groth Marnat's Handbook of Psychological Assessment Third Edition A commendable volume in which the author condenses information normally in several locations into one reading Contemporary Psychology The general purpose of this handbook is to provide a reference and instructional guide for professionals and students who are conducting psychological assessments This purpose

has been splendidly realized by Groth Marnat who has combined current scientific and clinical understanding and clear writing with an excellent sense of organization **Psychology** **The Clinical Interview Using DSM-IV** Ekkehard Othmer, Sieglinde C. Othmer, 1994 The Clinical Interview Using DSM IV Volume 2 The Difficult Patient applies the four dimensional interviewing approach outlined in Volume 1 Fundamentals to the difficult patient It also enhances the interviewing process by using specialized techniques that correspond with difficulties often encountered by clinicians Through numerous case examples the authors show how integrating psychodynamic cognitive and neuropsychiatric approaches as well as the legal system's methods of crossexamination and voice stress analysis can help elicit reliable information from patients with tough problems and aid in solving their diagnostic puzzles Written to correspond to DSMIV this book strives to overcome generalization in interviewing by promoting a differential approach that individualizes and explores each disorder and all its contributing factors in depth thus preparing the patient for optimal therapeutic intervention

**Occupational and Environmental Neurology** Neil L. Rosenberg, 2015-01-28 Edited by Rosenberg Occupational and Environmental Neurology fills a gap in the clinical literature available to the neurologist and occupational medicine physician This volume meets a critical need for clinical guidelines for determination of whether neurological dysfunction in a worker is caused by a naturally occurring condition or is secondary to local exogenous working conditions

*Clinical Environmental Health and Toxic Exposures* John Burke Sullivan, Gary R. Krieger, 2001 Now in its revised and updated Second Edition this volume is the most comprehensive and authoritative text in the rapidly evolving field of environmental toxicology The book provides the objective information that health professionals need to prevent environmental health problems plan for emergencies and evaluate toxic exposures in patients Coverage includes safety regulatory and legal issues clinical toxicology of specific organ systems emergency medical response to hazardous materials releases and hazards of specific industries and locations Nearly half of the book examines all known toxins and environmental health hazards A Brandon Hill recommended title

*The Journal of the American Osteopathic Association*, 1989 **The Neuropsychology of Mental Disorders** Leonard F. Koziol, Chris E. Stout, 1994

*Handbook of Assessment in Clinical Gerontology* Peter A. Lichtenberg, 1999-08-18 Handbook of Assessment in Clinical Gerontology New trends in healthcare practice and changes in healthcare organizations are causing an explosion in the field of clinical gerontology today A variety of fields such as health rehabilitation behavioral analysis and neuropsychology are now applying their assessment techniques to older adults and spurring significant growth in assessment knowledge and practice in areas previously neglected by gerontologists This groundbreaking handbook offers clinicians reliable and valid assessment tools and case examples in each chapter for assessing functional age psychosocial health comorbidity pathological behavior deficits and much more including Issues in geriatric assessment Mental status screening tests Depression and anxiety disorders Assessment of communication disorders and aphasia Assessment of competency and decision making capacity

Assessment of medication compliance Dementia and delirium assessment Behavioral health and chronic diseases Ethical dilemmas that arise in assessment Personality disorders and alcohol abuse assessment Sexual function and dysfunction Behavioral assessment Principles of assessment in neuropsychology This comprehensive handbook the first of its kind gives clear guidelines on assessing cognitive functioning mental health and ability to engage in self care **Synopsis of Neuropsychiatry** Stuart C. Yudofsky, Robert E. Hales, 1994 A condensation and distillation of the most relevant data from almost every chapter of the American Psychiatric Press Textbook of Neuropsychiatry second edition Annotation copyright by Book News Inc Portland OR ***The Psychotherapist's Guide to Neuropsychiatry*** James M. Ellison, Cheryl Weinstein, Teresa Hodel-Malinofsky, 1994 The Psychotherapist's Guide to Neuropsychiatry Diagnostic and Treatment Issues provides the psychotherapist with an overview of brain disorders that affect behavior Integrating psychodynamic cognitive behavioral medical and neuropsychological viewpoints experienced clinicians address ways that psychotherapists can identify and respond to the special needs of patients with neuropsychological dysfunction Designed to be valuable to all mental health professionals especially those with limited backgrounds in neuropsychiatry this nuts and bolts volume combines clinical examples clear illustrations and informative tables in an organized and straightforward fashion **Kaplan and Sadock's Synopsis of Psychiatry** Harold I. Kaplan, Benjamin J. Sadock, Jack A. Grebb, 1994 **Textbook of Neurology** Julien Bogousslavsky, Marc Fisher, 1998 Introductory textbook for medical students and residents Includes principles common symptoms and specific neurologic disorders Includes additional suggested reading Halftone illustrations ***Medical, Psychosocial, and Vocational Aspects of Disability*** Martin G. Brodwin, Fernando A. Tellez, Sandra K. Brodwin, 1992

**Lawyers Desk Reference**, 1992 **Biology and Treatment of Colorectal Cancer Metastasis** Anthony J. Mastromarino, 2012-12-06 The theme of the current workshop was identified several years ago and was considered by the working group of the National Large Bowel Cancer Project to be an appropriate workshop topic Although the subject was important then it was not possible to conduct such a workshop at that time In the interim not only did the problems associated with colorectal metastasis still exist but new insights on the biology and treatment of colorectal cancer metastasis emerged making the workshop topic especially important and relevant With input from an expert Planning Committee a unique program was designed to provide an opportunity for information exchange between basic scientists and clinical investigators The published proceedings reflect the organization of the workshop which consisted of five sections Section I The Biology of Colorectal Cancer Metastasis co chaired by Drs J. Isaiah Fidler and George Poste Controversies in the Management of Patients with Colorectal Cancer Section II **Traumatic Brain Injury and Vocational Rehabilitation** David W. Corthell, 1990

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