

# Multiple Errands Test–Revised (MET–R): A Performance-Based Measure of Executive Function in People With Mild Cerebrovascular Accident

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## MeSH TERMS

- activities of daily living
- executive function
- reproducibility of results
- stroke
- task performance and analysis

**OBJECTIVE.** This article describes a performance-based measure of executive function, the Multiple Errands Test–Revised (MET–R), and examines its ability to discriminate between people with mild cerebrovascular accident (mCVA) and control participants.

**METHOD.** We compared the MET–R scores and measures of CVA outcome of 25 participants 6 mo post-mCVA and 21 matched control participants.

**RESULTS.** Participants with mCVA showed no to minimal impairment on measures of executive function at hospital discharge but reported difficulty with community integration at 6 mo. The MET–R discriminated between participants with and without mCVA ( $p < .002$ ).

**CONCLUSION.** The MET–R is a valid and reliable measure of executive functions appropriate for the evaluation of clients with mild executive function deficits who need occupational therapy to fully participate in community living.

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*Executive function (EF)* refers to a cluster of thinking abilities identified as high-level cognitive processes distinct from memory and attentional capacities (Baddeley, 1986; Lezak, 1982; Norman & Shallice, 1986; Stuss & Alexander, 2000). EF enables people to establish purposeful goals and determine effective strategies that support goal attainment (Tranel, Harthaway-Neppele, & Anderson, 2007). EF involves the orchestration of many complex behaviors, and even mild deficits in EF can result in significant functional deficits and decline in occupational performance (Edinger, Moore, Anderson, & Grossman, 2011; Foster et al., 2011).

Mild to moderate EF deficits are notoriously difficult to identify with customary neuropsychological or occupational therapy evaluations (Chan, Shum, Touloupoulou, & Chen, 2008). To date, no universally accepted assessments of EF are available (Schmitter-Edgecombe, Parsey, & Cook, 2011; Stuss & Alexander, 2000). Traditional neuropsychological tests fail to identify subtle EF deficits that are serious enough to result in real-world functional decline (Manchester, Priestley, & Jackson, 2004). Similarly, functional assessments commonly present routine tasks that prioritize procedural memory and may fail to capture EF impairments (Miyake et al., 2000). In fact, depending on the degree of task familiarity, people with EF impairments may perform activities of daily living (ADLs) and instrumental activities of daily living (IADLs) without difficulty (Edwards, Hahn, Baum, & Dromerick, 2006).

# Multiple Errands Test Manual

**Lingsheng Yao**



## **Multiple Errands Test Manual:**

**Manual of Traumatic Brain Injury, Third Edition** Felise S. Zollman, 2021-07-22 The third edition of Manual of Traumatic Brain Injury offers a thorough revision of the popular evidence based guide to understanding and managing all levels of traumatic brain injury Comprehensive in scope and concise in format this reference describes the spectrum of injury from mild to severe and the continuum of care from initial injury to management of chronic sequelae Chapters are designed with a practical clinical focus for targeted retrieval of content by topic area and for self review The text is organized into five sections Part I addresses fundamental concepts necessary for understanding the underpinning of clinical decision making Part II is dedicated to mild TBI including sport related concussion with chapters covering topics from natural history to associated somatic disorders post concussion syndrome and PTSD Part III covers moderate to severe TBI and details prehospital emergency and ICU care rehabilitation treatment of related conditions and postinjury outcomes Part IV focuses on TBI related complications including posttraumatic seizures spasticity behavioral and sleep disturbances and chronic traumatic encephalopathy CTE Part V reviews special considerations in selected populations such as pediatric TBI and TBI in the military as well as medicolegal and ethical considerations in TBI complementary and alternative medicine and return to work considerations Each chapter includes boxed Key Points which underscore major clinical takeaways Study Questions to facilitate self assessment and further emphasize core chapter content and an Additional Reading list for a deeper dive into chapter concepts Significant updates incorporating recent advancements in the field combined with the clinical acumen of its experienced contributors make this third edition the essential manual for healthcare professionals caring for individuals with traumatic brain injury Key Features Succinct format encourages targeted access to key clinical information Completely revised and updated third edition reflects current state of the art advancements Added content areas such as a new chapter dedicated to substance abuse and TBI expand the scope of material addressed Newly added multiple choice Study Questions in each chapter facilitate self assessment of mastery of chapter material

**The Wiley Handbook of Developmental Psychopathology** Luna C. Centifanti, David M. Williams, 2017-08-24 The Wiley Handbook of Developmental Psychopathology offers a concise up to date and international overview of the study of developmental psychopathology Examines the cognitive neurobiological genetic and environmental influences on normal and abnormal development across the lifespan Incorporates methodology theory and the latest empirical research in a discussion of modern techniques for studying developmental psychopathology Considers the legal societal and policy impacts of changes to diagnostic categories in the light of the transition to DSM 5 Moves beyond a disorder based discussion to address issues that cut across diagnostic categories

*Comprehensive Handbook of Psychological Assessment, Volume 1* Gerald Goldstein, Sue R. Beers, 2004-04-02 In one volume the leading researchers in intelligence and neuropsychological assessment interpret the range of issues related to intellectual and neuropsychological tests including test development and psychometrics clinical applications ethical and legal

concerns use with diverse populations computerization and the latest research Clinicians and researchers who use these instruments will find this volume invaluable as it contains the most comprehensive and up to date information available on this important aspect of practice Brain Injury Medicine, Third Edition Nathan D. Zasler, Douglas I. Katz, Ross D. Zafonte, 2021-09-01 This updated textbook was much needed as there has been increased attention in recent years toward brain injuries The book provides updated guidelines and clinical practice recommendations that support the intended audience of trainees and current practitioners This update makes it the current standard text for any brain injury specialist Doody's Review Service 4 stars This revised and greatly expanded Third Edition of Brain Injury Medicine continues its reputation as the key core textbook in the field bringing together evidence based medicine and years of collective author clinical experience in a clear and comprehensive guide for brain injury professionals Universally praised as the gold standard text and go to clinical reference the book covers the entire continuum of care from early diagnosis and assessment through acute management rehabilitation associated medical and quality of life issues and functional outcomes With 12 new chapters and expanded coverage in key areas of pathobiology and neuro recovery special populations sport concussion disorders of consciousness neuropharmacology and more this state of the science resource promotes a multi disciplinary approach to a complex condition with consideration of emerging topics and the latest clinical advances Written by over 200 experts from all involved disciplines the text runs the full gamut of practice of brain injury medicine including principles of public health and research biomechanics and neural recovery neuroimaging and neurodiagnostic testing sport and military prognosis and outcome acute care treatment of special populations neurologic and other medical complications post injury motor and musculoskeletal problems post trauma pain disorders cognitive and behavioral problems functional mobility neuropharmacology and alternative treatments community reentry and medicolegal and ethical issues Unique in its scope of topics relevant to professionals working with patients with brain injury this third edition offers the most complete and contemporary review of clinical practice standards in the field Key Features Thoroughly revised and updated Third Edition of the seminal reference on brain injury medicine Evidence based consideration of emerging topics with new chapters covering pathobiology biomarkers neurorehabilitation nursing neurodegenerative dementias anoxic hypoxic ischemic brain injury infectious causes of acquired brain injury neuropsychiatric assessment PTSD and capacity assessment Multi disciplinary authorship with leading experts from a wide range of specialties including but not limited to physiatry neurology psychiatry neurosurgery neuropsychology physical therapy occupational therapy speech language pathology and nursing New online chapters on survivorship family perspectives and resources for persons with brain injury and their caregivers Purchase includes digital access for use on most mobile devices or computers **Annual Review of Cybertherapy and Telemedicine 2013** B.K. Wiederhold, G. Riva, 2013-07-23 Technological advances have been responsible for many developments in the field of healthcare in recent years One of the areas opened up by new technological possibilities is that

of cybertherapy and telemedicine which involves the use of computer and communications technology to provide improved health services that are sometimes qualitatively different from those provided in traditional in person therapeutic experiences This book the Annual Review of Cybertherapy and Telemedicine ARCTT covers a wide variety of topics of interest to the mental health neuroscience and rehabilitation communities presented in a carefully structured sequence The book is divided into seven main parts Following an editorial the section entitled White Paper discusses critical issues for the future of the field This is followed by sections containing critical reviews evaluation studies original research and clinical observations Work in Progress the last section includes papers describing future research work The book will be of interest to both health professionals and patients and to anyone else interested in the continued improvement of healthcare systems

Aphasia and Related Neurogenic Communication Disorders Ilias Papathanasiou,Patrick Coppens,Constantin Potagas,2011-11-11 Aphasia and Related Neurogenic Communication Disorders covers topics in aphasia motor speech disorders and dementia Organized by symptom rather than syndrome this text provides a foundation for understanding the disorders and learning how to apply basic theory to clinical practice in the development of rehabilitation objectives Aphasia and Related Neurogenic Communication Disorders applies a clinical integration of the psychosocial with the neuropsychological approach in adult language rehabilitation Written by international authorities in the field of aphasia and related communication disorders and based on the ICF framework this unique text features diverse contribution covering global issues Important Notice The digital edition of this book is missing some of the images or content found in the physical edition     **Learning Disabilities in Adulthood** Paul Jay Gerber,Henry B. Reiff,1994     **Schizophrenia Bulletin** ,2006  
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